

PRODUCT CATALOGUE **INTERNATIONAL MARKETS**

2021





Autonomous residential | Centralized residential | Service Industry | Industrial Process

2021 edition



RIELLO









2021 RIELLO

RIELLO is the Italian leading brand in the production of systems and technologies for heating and air conditioning of all domestic and professional spaces.

ENVIRONMENT AND WELL-BEING

RIELLO 4 GREEN

RIELLO EMBRACES AN ALL-ROUND CONCEPT OF WELL-BEING, TRANSLATING IT INTO AN ECO-PHILOSOPHY BASED ON GOOD BUSINESS PRACTICES AND CORPORATE GOVERNANCE STRONGLY FOCUSED ON INNOVATION.



TECHNOLOGY ECO-FRIENDLY



ENERGY SAVING



ECO-SUSTAINABILITY



WELL-BEING & ENVIRONMENT

If the future seems like a distant mirage to most of us, it is necessary to make it achievable day by day. A modern company cannot ignore the imminent problems that characterise the world that surrounds

it and in which, above all, it produces. It is now an obligation to no longer think strictly in terms of profits and balance sheets, but to look at a broader and more comprehensive horizon. With the aim of significantly applying sustainability

practices and optimising the management of these aspects within the group, Riello involves every area, from top management to workers in factories and offices around the world.

The strategies that Riello has implemented to support this vision can be focused on two fronts:



related to production, product characteristics and



their design

In short, energy efficiency and awareness. Riello is aware of the role that a brand may and must play in consumer habits. Precisely for this reason, it is the bearer of an efficient use of resources and a careful product design.

This translates into an increasingly green philosophy, with efficient integration of different energies and development of technologies that allow reducing consumption. IOT is the case in point of this. The modernisation of devices and their

related to the environment where these projects take shape, i.e. the company itself

closer control by customers, even remotely, are the key tools for wide-ranging savings. The result? An economic benefit for the consumer, but above all for the ecosystem.

Because active responsibility must be shared responsibility.



NO LIMITS

SHAPING THE FUTURE

Every Riello product is a world. You will find in it the summary of our present and the vision of a better future.

What has made our company a world leader in the industry is its ability to anticipate the needs of the future and accelerate the pace towards a definitive transition to sustainable energy use. The resulting competitive ability is the market value that makes Riello a marketable and recognizable brand worldwide.





TECHNOLOGY



SUSTAINABILITY



WINNING INDUSTRIAL STRATEGIES



USE OF RENEWABLE ENERGY



ACCESSION TO INTERNATIONAL REGULATIONS

PROFESSIONAL GROWTH AND DEVELOPMENT

TRAINING



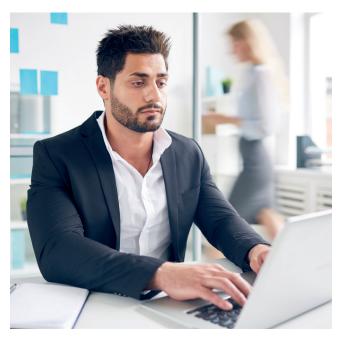
FOR RIELLO, TRAINING IS ONE OF ITS STRENGTHS, AND HAS ALWAYS BEEN AN INTEGRAL PART OF ITS BUSINESS AND A DISTINCTIVE ELEMENT RECOGNIZED BY THE MARKET FOR ITS CONSISTENCY AND COHERENCE.

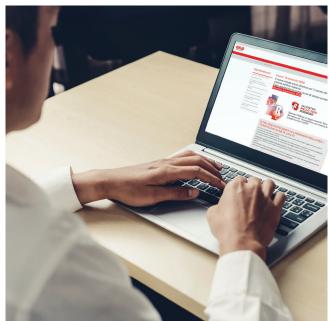


The attention of the company has always been aimed at transferring its expertise, with a continuous training process, both to employees and market operators. An activity that stands out through technical refresher meetings and the creation of specific courses aimed at the professional growth of Riello stakeholders. Professionalism, expertise and reliability are daily put at the disposal of the industry in order to favour the complete knowledge of products and plant engineering solutions of the latest generation.

For Riello, training also means knowing the

evolution of regulations and being able to interpret their derivation in advance. The company pre-sales and training structure is ready to offer constant support and the best refresher courses to its customers, tools that are today essential to face a rapidly changing market. The Angiari centre is a tangible example of the importance of training for Riello. Consisting of classrooms and equipped laboratories, it provides theoretical and practical training, using the state-of-the-art learning systems.





REMOTELY, NOT REMOTE

WEBINARS

A BUSY SCHEDULE OF VIRTUAL MEETINGS TO KEEP UP TO DATE WITH REGULATORY DEVELOPMENTS AND TO LEARN ABOUT SOME OF RIELLO'S MOST INNOVATIVE SOLUTIONS.
FOR BOTH INSTALLERS AND DESIGNERS.

To ensure attention to the constant reconsideration of everyday life and to guarantee the company proximity to Italian professionals, Riello has activated a training path in **#smartworking** mode via the Internet.

In fact, it is possible to follow each of the courses in this rich agenda of training online appointments for free.



UNDERSTANDING REGULATIONS

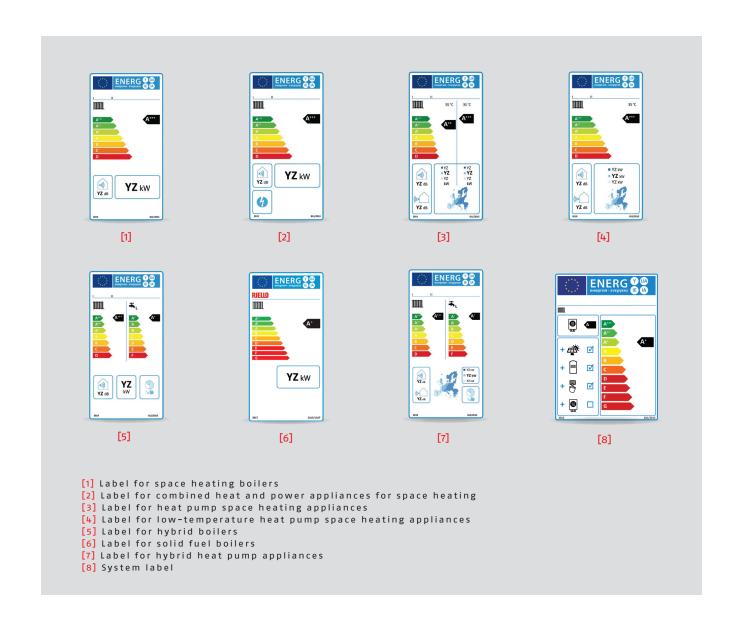
A **NEW WAY**OF GUIDING THE CONSUMER

The path guiding the market towards the use of increasingly efficient equipment did not end with the implementation of the obligations introduced in 2015, 2017 and January 2018, with the implementation of more restrictive minimum requirements, both in terms of energy classes and efficiency.

In fact, in September 2018, additional nitrogen oxides (NOx) emission limits were introduced for generators.

RIELLO, FOLLOWING THE DEVELOPMENT OF REGULATIONS WITH ITS OWN TECHNICIANS FROM THEIR ORIGIN, GUARANTEES A RANGE OF PRODUCTS CAPABLE OF BEING AT THE TOP OF THE ENERGY CLASSES, WITH VERY LOW EMISSIONS.

RIELLO AND ITS SALES STRUCTURES ARE THE BEST PARTNER WITH WHOM TO PREPARE FOR THE IMPLEMENTATION OF NEW REGULATORY REQUIREMENTS.



RIELLO HIGH TECHNOLOGY

SERVICES FOR BURNERS

Riello has developed a wide range of services that will allow customers to take advantage of specialised technical support at every stage of their business, starting from product installation and throughout the system working life.

One common goal: a constant performance over time, maximizing energy efficiency and minimizing environmental impact, for the entire life cycle of the product.

- installation advice
- commissioning and adjustment
- performance check
- 0, check
- regular maintenance
- intervention on request
- maintenance and repair plan
- commissioning, adjustment and initial regular maintenance package



BEYOND THEIR APPLICATION

PRODUCT ENGINEERING





This is the engineering hidden inside Riello. Matter and innovation are the two pillars that underpin efficiency, performance, ease of use and reliability of every Riello solution. A DNA dedicated to the research and development of solutions suitable for functional and constructive optimization of each device. An example? Riello, with TAU N, is the first brand to offer high water content condensing boilers capable of reaching 2.6 MW!

CONDEXA PRO

EXCELLENCE AND FLEXIBILITY IN THE HEATING ROOM





HIGH EFFICIENCY



PATENTED STAINLESS



LASS 6



MAXIMUM MODULARITY



ADVANCED



SINGLE BOILER



ONFIGURATIO



A-Z INDEX

189	7000 ACI PLUS
187	7000 PUFFER
175	7200/2 HV PLUS
175	7200/3F HV PLUS
181	7200 HP
185	7200 KOMBI PLUS
183	7200 KOMBISOLAR ^{2S}
179	7200 V PRIME
351	AARIA MONO PLUS-AMC
355	AARIA MONO PLUS-AMD
353	AARIA MONO PLUS-AMK
350	AARIA MONO PLUS-AMS
348	AARIA MONO PLUS-AMW
358	AARIA MULTI PLUS
361	AARIA ONE INVERTER
369	AARIA PRO P-AMD
367	AARIA PRO P-AMK
365	AARIA PRO P-AMS
364	AARIA PRO P-AMW
356	AARIA START
140	ACQUAFUN ² LN
236	ALU PRO POWER
126	ATR
	BAG ³
102	BAG ³ HYBRID
414	CHRONORIELLO
206	CONDEXA PRO
165	CSAL 20 RS
154	CSAL 25 RN SYSTEM
	CSAL 25 RS
156	CSNA 20 RS SYSTEM
167	CSV R
385	DESIGN INVERTER
382	DESIGN INVERTER PLUS
	DESIGN S INVERTER
	DESIGN WALL
	DOMUS ES
	DOMUS ES SOLAR
	DOMUS HYBRID
	DOMUS HYBRID SOLAR
	FAMILY
	FAMILY AQUA CONDENS
	FAMILY ES
	FAMILY EXTERNA CONDENS
	FASTECH
	FCU N
	FLUE OPTION FOR CHIMNEYS CONDENSING
	FLUE OPTION FOR CONDENSING
330	FLUE OPTION FOR CONDENSING

144 FLUE OPTION FOR STANDAR EFFICIENCY

131 GITRÈ

426 GP CONDENS

396 IN INVERTER

396 IN INVERTER PLUS

18 HYBRID WALL SYSTEMS

```
122 INSIEME EVO COND
272 INSIEME EVO COND
128 INSIEME EVOE
390 INVISIBLE INVERTER
393 INVISIBLE INVERTER PLUS
406 NEW ACU-NEW ACU F
136 NEXAQUA
59 NEXPOLAR 004÷015
61 NEXPOLAR 017-022
137 NEXPRO 300 PLUS
372 NXC 017÷040
373 NXC 044÷164
57 NXH 005÷015
63 NXH 026÷040
64 NXH 044÷164
177 RBC 1S
173 RBS 2S
77 RESIDENCE
90 RESIDENCE EXTERNA CONDENS
412 RICLOUD
416 RIELLO HEATGATE
142 RIELLO MINI EVO EXT LN
141 RIELLO MINI LN
170 RIELLO RBS 2S READY-I
195 RIELLO SC ACS
195 RIELLO SC SUN
324 RIELLOTECH CLIMA COMFORT
324 RIELLOTECH CLIMA MIX
326 RIELLOTECH PRIME
326 RIELLOTECH PRIME ACS
399 RK N HYDROLINE
160 RPS 25/4
150 RPS 25/4 SYSTEM
192 RSS & EVOSOL
294 RTG
305 RTQ 2S
298 RTQ 3S
286 RTS 2S
278 RTS 3S
320 RTT
200 SOLAR THERMAL ACCESSORIES
96 START
82 START AQUA CONDENS
84 START AR
86 START AR
80 START CONDENS
94 START LN
222 STEEL PRO POWER
194 SUN PRO
262 TAU N
274 TAU N OIL PRO
```

270 TAU N PREMIX

254 TAU UNIT

316 TREGÌN

318 TREGÌNK

TABLE OF CONTENTS

96 START

98 FASTECH

H/	BRID SYSTEMS	10
НҮ	BRID SYSTEMS	17
18	WALL-HUNG SOLUTIONS HYBRID WALL SYSTEMS	
31 35	FLOOR-STANDING SOLUTION DOMUS HYBRID DOMUS HYBRID SOLAR	
HE	EAT PUMPS	
HE	AT PUMPS	43
	AIR - WATER SPLIT FAMILY ES DOMUS ES DOMUS ES SOLAR	
57 59 61 63 64	AIR - WATER MONOBLOCK NXH 005÷015 NEXPOLAR 004÷015 NEXPOLAR 017-022 NXH 026÷040 NXH 044÷164	
W	ALL-HUNG BOILERS	IØ
СО	NDENSING WALL-HUNG BOILERS	70
72 75 77 80 82 84	INDOOR FAMILY FAMILY AQUA CONDENS RESIDENCE START CONDENS START AQUA CONDENS START AR START AR	
88 90	OUTDOOR FAMILY EXTERNA CONDENS RESIDENCE EXTERNA CONDENS	
STA	ANDARD-EFFICIENCY WALL-HUNG BOILERS	93
94	INDOOR START LN	

SYS	STEM COMPLEMENTARY ITEMS	101
	HYDRAULIC DISTRIBUTION MODULES BAG ³ HYBRID BAG ³	
FLU	JE OPTIONS SYSTEM	105
106	FOR CONDENSING FLUE OPTION FOR CONDENSING	
FL	OOR-STANDING BOILERS	(a)
FLC	OOR-STANDING CONDENSING BOILERS	121
122	FLOOR-STANDING OIL BOILERS INSIEME EVO COND	
FLC	OOR-STANDING STANDARD EFFICIENCY BOILE	RS 125
126	CAST IRON FLOOR-STANDING GAS BOILERS ATR	
128	STEEL FLOOR-STANDING OIL BOILERS INSIEME EVOE	
131	CAST IRON FLOOR-STANDING OIL BOILERS GITRÈ	
W	ATER-HEATERS	\$
HE	AT PUMPS	135
136	WALL MOUNTED NEXAQUA	
137	FLOOR STANDING NEXPRO 300 PLUS	
LO\	N NOX INSTANTANEOUS - GAS	139
140	OPEN CHAMBER ACQUAFUN ² LN	
	SEALED CHAMBER RIELLO MINI LN RIELLO MINI EVO EXT LN	
ELL	IE ODTION SYSTEMS	11.3

STANDARD EFFICIENCY

144 FLUE OPTION FOR STANDAR EFFICIENCY

TABLE OF CONTENTS

HEAT EXCHANGER UNITS

195 RIELLO SC SUN 195 RIELLO SC ACS

SOLAR THERMAL AND CYLINDER	禁	SOLAR THERMAL ACCESSORIES	199
SOLAR SYSTEMS	149	SOLAR THERMAL ACCESSORIES 200 SOLAR THERMAL ACCESSORIES	
FORCED CIRCULATION 150 RPS 25/4 SYSTEM 154 CSAL 25 RN SYSTEM		CENTRALIZED HEATING	٥
NATURAL CIRCULATION 156 CSNA 20 RS SYSTEM		WALL-HUNG MODULAR SYSTEM	206
SOLAR COLLECTORS	159	INDOOR/OUTDOOR 206 CONDEXA PRO	
FLAT PLATE 160 RPS 25/4 163 CSAL 25 RS 165 CSAL 20 RS VACUUM TUBES 167 CSV R		FLOOR-STANDING MODULAR SYSTEM INDOOR/OUTDOOR 222 STEEL PRO POWER INDOOR 236 ALU PRO POWER	222
SOLAR DHW AND STORAGE CYLINDERS	169	FLOOR-STANDING BOILERS	253
DOUBLE COILS DHW CYLINDERS 170 RIELLO RBS 2S READY-I 173 RBS 2S		GAS CONDENSING 254 TAU UNIT 262 TAU N	233
FLANGED AND DOUBLE COILS DHW CYLIDERS 175 7200/3F HV PLUS 175 7200/2 HV PLUS		270 TAU N PREMIX OIL CONDENSING	
SINGLE COIL DHW CYLINDERS 177 RBC 1S		272 INSIEME EVO COND 274 TAU N OIL PRO	
179 7200 V PRIME 181 7200 HP		STEEL JET BURNER BOILERS GAS/OIL	277
COMBINED STORAGE CYLINDERS 183 7200 KOMBISOLAR ²⁵ 7200 KOMBI PLUS		THREE FLUE GAS PASSES 278 RTS 3S 286 RTS 2S 294 RTG	
STORAGE CYLIDERS 187 7000 PUFFER 189 7000 ACI PLUS		REVERSE FLAME 298 RTQ 3S 305 RTQ 2S	
COMPLEMENTARY ITEMS	191	CAST IRON JET BURNER BOILERS GAS/OIL	315
SOLAR CONTROLLERS AND PUMP STATIONS 192 RSS & EVOSOL 194 SUN PRO		CAST IRON - THREE FLUE GAS PASSES 316 TREGÌ N	

318 TREGÌNK

320 RTT

415

TABLE OF CONTENTS

CONTROL PANELS AND THERMOREGULATIONS	323	TERMINAL UNITS	<u> </u>
ELECTRONIC AND THERMOSTATIC 324 RIELLOTECH CLIMA COMFORT 324 RIELLOTECH CLIMA MIX 326 RIELLOTECH PRIME 326 RIELLOTECH PRIME ACS		FAN COILS WALL-MOUNTED FAN COIL 380 DESIGN WALL	378
FLUE OPTIONS SYSTEM FOR CONDENSING 330 FLUE OPTION FOR CONDENSING 335 FLUE OPTION FOR CHIMNEYS CONDENSING	329	FAN COILS WITH CABINET 382 DESIGN INVERTER PLUS 385 DESIGN INVERTER 388 DESIGN S INVERTER FAN COILS FOR RECESSED INSTALLATION IN BOX 390 INVISIBLE INVERTER	
AIR CONDITIONING	** 	393 INVISIBLE INVERTER PLUS FAN COILS FOR RECESSED INSTALLATION 396 IN INVERTER 396 IN INVERTER PLUS	
AIR CONDITIONERS MONOSPLIT 348 AARIA MONO PLUS-AMW 350 AARIA MONO PLUS-AMS	347	"CASSETTE" FAN COILS 399 RK N HYDROLINE	. 01
351 AARIA MONO PLUS-AMC 353 AARIA MONO PLUS-AMK 355 AARIA MONO PLUS-AMD 356 AARIA START		DUCTABLE FAN COILS RECESSED INSTALLATION 401 FCU N	401
MULTISPLIT 358 AARIA MULTI PLUS MONOBLOC 361 AARIA ONE INVERTER		WALL MOUNTED FAN COILS WALL-CEILING MOUNTED 406 NEW ACU-NEW ACU F	406
PROFESSIONAL AIR CONDITIONERS	363	SYSTEM COMPLEMENTARY ITEMS	į
MONO INVERTER 364 AARIA PRO P-AMW 365 AARIA PRO P-AMS 367 AARIA PRO P-AMK 369 AARIA PRO P-AMD		THERMOSTAT AND CHRONOTERMOSTAT THERMOSTAT AND CHRONOTERMOSTAT 412 RICLOUD	411

371

414 CHRONORIELLO

HEAT-EXCHANGERS

416 RIELLO HEATGATE

PLATE HEAT-EXCHANGERS

AIR TO WATER - MONOBLOC

372 NXC 017÷040

373 NXC 044÷164

WATER CHILLERS

TABLE OF CONTENTS

HOT AIR GENERATORS



GAS HOT AIR GENERATORS

425

GAS CONDENSING HOT AIR GENERATORS

426 GP CONDENS

HEAT PUMPS WALL-HUNG BOILERS FLOOR-STANDING BOILERS WATER-HEATERS **SOLAR THERMAL AND CYLINDERS** ÷;;÷ **CENTRALIZED HEATING** 6 淼 AIR CONDITIONING \overline{u} **TERMINAL UNITS** Û SYSTEM COMPLEMENTARY ITEMS **HOT AIR GENERATORS**



HYBRID SYSTEMS



HYBRID SYSTEMS

17

HYBRID SYSTEMS

Hybrid system-Wall-hung solutions

Hybrid wall systems









- · Heating, cooling and domestic hot water production
- Intelligent management of multiple energy sources: condensing boiler, solar thermal and heat pump
- · Large display for setting and monitoring the entire system

A wall-hung hybrid system is a multi-energy hybrid system for heating, summer cooling and domestic hot water production. This system is manufactured by combining three main components together:

- the wall-hung boiler: depending on the installation needs, the choice of the gas generator can be made among boilers from 25 to 35kW, heating only or combined boilers, for wall-hung (indoor or outdoor in partially protected places) or built-in installation. The boilers have a modulation ratio of 1:5 or 1:8, depending on the model, and are all equipped with highefficiency circulators. The system control panel is able to activate the most energy efficient heat source based on climatic conditions, and to manage the system with up to 2 independent hot/cold temperature zones.
- The heat pump: monobloc air-water outdoor type of the NXH 005÷015 series, used for heating, cooling and pre-heating of domestic hot water for domestic use if a DHW heater is present. NXH 005÷015, specific for hybrid systems, is able to communicate with the system intelligence via bus, and is available with 5, 7, 11 and 15 kW power ratings.
- The hydraulic distribution module: the choice can be made between the simple Hbox hydraulic node, and the more flexible BAG3 Hybrid distribution module. Hbox allows you to make a simple hydraulic connection between the two generators, creating a one-way system in which the boiler pumps and the heat pump supply the system. For more complex systems, the BAG3 Hybrid distribution module is available: for indoor recessed or wall-hung installations, or for outdoor recessed installations, in 1-direct, 2-direct or 1-direct and 1-mixed configurations, equipped with low consumption self-modulating circulators (EEI≤0.20). The distribution module also works as hydraulic separator between the generators and the system circuits. The system is set up for connection to a single-coil domestic hot water heater served by heat pump, or to a dual-coil domestic hot water heater served by heat pump and solar thermal system, by installing the diverting valve kit.
- The system is able to interface with a photovoltaic system in order to change its energy strategy and promote the use of the electric source in self-production condition.



WALL-HUNG BOILERS

TECHNICAL DATA

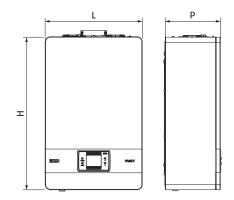
Description	Heat output Heating/Domestic Water min-max	Working	efficiency	Domestic water	Energy efficiency class		Notes	Code
	kW	Pn (50°/30°C) %	30% Pn (rit. 30 °C) %	production ΔT 25° I/min	100	7		
COMBINED VERSION OF HEATING AND INS	TANT SANITARY WATER							
FAMILY 25 KIS	3,6÷20,0/3,6÷25,0	106,2	108,4	15,1	A	А	(1)(2)	20133714
FAMILY 30 KIS	4,9÷25,0/4,9÷30,0	106,0	108,1	18,1	A	А	(1)(2)	20142573
FAMILY 35 KIS	4,9÷30,0/4,9÷34,6	106,9	108,0	20,8	A	А	(1)(2)	20133716
RESIDENCE 25 KIS	3,6÷20,0/3,6÷25,0	106,2	108,4	15,1	Α	A	(1)(2)	20139525
RESIDENCE 30 KIS	4,9÷25,0/4,9÷30,0	106,0	108,1	18,1	A	Α	(1)(2)	20148496
RESIDENCE 35 KIS	4,9÷30,0/4,9÷34,6	106,9	108,2	20,8	A	Α	(1)(2)	20139527
RESIDENCE HYBRID 25 KIS	3,1÷20,0/3,1÷25,0	105,0	109,6	14,3	A	Α	(3)	20130398
RESIDENCE HYBRID 32 KIS	3,7÷30,0/3,7÷32,0	104,7	109,5	18,3	A	Α	(3)	20130399
RESIDENCE IN HYBRID 25 KIS	3,1÷20,0/3,1÷25,0	105,0	109,6	14,3	A	Α	(3)	20118748
RESIDENCE IN HYBRID 32 KIS	3,7÷30,0/3,7÷32,0	104,7	109,5	18,3	Α	A	(3)	20118749
HEATING ONLY VERSION			~					
FAMILY 25 IS	3,6÷20,0/3,6÷25,0	106,2	108,4	-	Α	-	(1)(2)	20133715
FAMILY 35 IS	4,9÷30,0/4,9÷34,6	106,9	108,0	-	Α	-	(1)(2)	20133717
RESIDENCE 20 IS	3,6÷20,0/3,6÷20,0	106,2	108,4	-	Α	-	(1)(2)	20139526
RESIDENCE 35 IS	4,9÷30,0/4,9÷34,6	106,9	108,2	-	A	-	(1)(2)	20139528
RESIDENCE IN HYBRID 25 IS	3,1÷20,0/3,1÷25,0	105,0	110,0	-	A		(3)	20135128
RECESSED INSTALLATION UNIT								
RECESSED UNIT M							(4)	20082310

The external probe is not included in the boiler supply, but is available as accessory with code 1220559. A wall-hung hybrid system requires the replacement of boiler display with code 20124352. The boiler code includes hybrid system control panel and external probe. To be used for Family 25 KIS, Residence 25 KIS and Residence In Hybrid.

I

OVERALL DIMENSIONS

RIELLO



Description	H mm	L mm	P mm	Net weight kg
FAMILY 25 KIS	740	470	275	35
FAMILY 30 KIS	740	470	350	39
FAMILY 35 KIS	740	470	350	39
FAMILY 25 IS	740	470	275	35
FAMILY 35 IS	740	470	350	39

Height including SRD device: 822 mm

	L L	. Р
Î		
		1
Ξ		
	RESIDENCE PRESIDENCE	
		1

Description	H mm	L mm	P mm	Net weight kg
RESIDENCE 25 KIS	740	420	275	35
RESIDENCE 30 KIS	740	420	350	37
RESIDENCE 35 KIS	740	420	350	37
RESIDENCE 20 IS	740	420	275	34
RESIDENCE 35 IS	740	420	350	36

Height including SRD device: 822 mm

_	L	P
Ī		
Ŧ		

Description	H mm	L mm	P mm	Net weight kg
RESIDENCE HYBRID 25 KIS	872	553	275	44
RESIDENCE HYBRID 32 KIS	872	553	275	46

Description	H mm	L mm	P mm	Net weight kg
RESIDENCE IN HYBRID 25 KIS	785	553	268	42
RESIDENCE IN HYBRID 32 KIS	785	553	268	43
RESIDENCE IN HYBRID 25 IS	785	553	268	40
M RECESSED UNIT	1223	654	281	21

20

MATCHING HEAT PUMPS

TECHNICAL DATA

Description		Hea	iting			Coo	oling		Power supply	Energy	Code
	Floo	r (1)	Fan co	ils (2)	Floo	r (3)	Fan co	oils (4)	V/Ph/Hz	efficiency class (5)	
	Nominal power kW	COP	Nominal power kW	СОР	Nominal power kW	EER	Nominal power kW	EER		°M)	
MONOBLOC AIR - WATE	R NEW								Į		
NXH 005	5,10	4,40	4,85	3,40	4,85	4,35	4,00	3,10	230/1/50	A++	20161608
NXH 007	7,15	4,10	6,80	3,20	8,00	4,00	5,55	3,10	230/1/50	A++	20161610
NXH 011	11,25	4,70	11,30	3,60	13,70	4,60	11,20	3,40	230/1/50	A++	20161611
NXH 015	15,10	4,25	13,40	3,40	16,00	4,10	12,80	3,10	230/1/50	A++	20161612
NXH 011T	11,20	4,60	10,40	3,60	13,75	4,65	10,65	3,40	400/3/50	A++	20161613
NXH 015T	15,00	4,35	13,50	3,50	17,00	4,15	13,00	3,20	400/3/50	A++	20161614

- The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

 (1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.

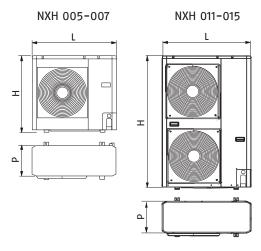
 (2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.

 (3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.

 (4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.

 (5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
NXH 005	821	908	326	57
NXH 007	821	908	326	69
NXH 011	1363	908	326	115
NXH 015	1363	908	326	115

RIELLO PRODUCT CATALOGUE

MATCHING HYBRID DISTRIBUTION MODULES

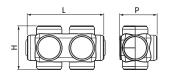
TECHNICAL DATA

Description	Zone management	Electrical power supply V/Ph/Hz	Maximum power absorbed W	Notes	Code
DISTRIBUTION MODULES WITHOUT SEPARATOR NEW					
HBOX - 1D HYBRID DISTRIBUTION MODULE	1 direct zone	-	-	(1)	20165227
DISTRIBUTION MODULES WITH SEPARATOR					
BAG ³ HYBRID 1D	1 direct zone	230/1/50	57	(2)(5)	20130805
BAG ³ HYBRID 2D	2 direct zone	230/1/50	114	(2)(5)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(3)(5)	20130807
BUILT-IN BOX	-	-	_	(4)	20130808

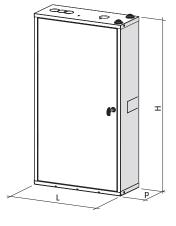
- (1) (2) (3) (4) (5)

- Can only be combined with NXH 005-007 heat pumps code 20161608 and 20161610.
 Equipped as standard with limit thermostat for low temperature systems.
 Mixed zone equipped as standard with limit thermostat for low temperature systems.
 Galvanised sheet built-in box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.
 Supplied without built-in box.

OVERALL DIMENSIONS



Description	H	L	P	Net weight
	mm	mm	mm	kg
HBOX – 1D HYBRID DISTRIBUTION MODULE	107	187	92	0,9

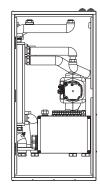


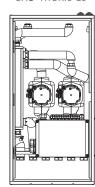
Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 1D	797	400	160	17
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
BUILT-IN BOX	797	400	160	8

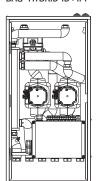


BAG³ HYBRID 2D

BAG3 HYBRID 1D+1M







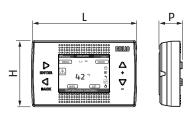
REC10H MANAGEMENT CONTROL

TECHNICAL DATA

Description	Electrical power supply V/Ph/Hz	Notes	Code
REC10H MANAGEMENT CONTROL	230/1/50	(1)	20124352

⁽¹⁾ Already included in Residence Hybrid and Residence In Hybrid.

OVERALL DIMENSIONS



Description	H	L	P	Net weight
	mm	mm	mm	kg
REC10H MANAGEMENT CONTROL	90	146	32	0,15

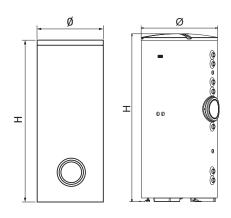
MATCHING SANITARY TANKS

TECHNICAL DATA

Description	Usable volume I	Lower coil exchange surface (m²)	Upper coil exchange power (kW)*	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy class <u>≅</u>	Notes	Code
RBC 200 1S	207	1,38		99	10	58	В	(1)	20124168
RBC 300 1S	305	1,7		99	10	68	В	(1)	20124169
RBS 200 2S	208	0,7	16,1	99	10	62	В	(2)	20116675
RBS 300 2S	301	1,0	23	99	10	69	В	(2)	20116335
7200 300 HP	263	3,7	-	99	6	85	С	(1)	4383500

With Δt = 20°C and primary temperature of 80°C. Single-coil heater for heat pump. Double-coil solar heater.

OVERALL DIMENSIONS



Description	H mm	ø mm	Net weight kg
RBC 200 1S	1338	604	78
RBC 300 1S	1838	604	103
RBS 200 2S	1338	604	86
RBS 300 2S	1838	604	108
7200 300 HP	1615	600	119

Dimensions and weight with insulation.

MATCHING SOLAR COLLECTORS

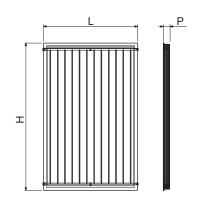
TECHNICAL DATA

RIELLO

Description	Description Collector surface			rred to the op	ening area	Stagnation	Notes	Code
	Gross m²	Net m²	ηο	a1 W/m²K	a2 W/m²K²	temperature °C		
RPS 25/2 EV0	2,30	2,15	0,821	4,41	0,0060	198	(1)	20127134
RPS 25/4	2,30	2,14	0,802	4,28	0,0064	197	(1)	20127137

⁽¹⁾ The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 159.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41,5
RPS 25/4	2004	1195	85	44

WALL-MOUNTED BOILER ACCESSORIES

Description	Notes	Code
ACCESSORIES FOR FAMILY BOILERS		
Vertical connection stub pipe kit Ø60/100 mm	(1)	20129174
90° bend kit Ø60/100 mm for boiler start	(2)	20129172
System and gas cock kit for recessed installation (25 KIS model only)		20137668
Condensate booster pump kit		20097192
Well probe for remote heater (for heating only version)		1220599
Magnetic filter kit		20178780
Polyphosphate dispenser kit		20178781
Double relay kit (second pump/block signal)		20062614
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Fixed split system kit Ø80 mm		20129765
Wall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Split kit B23 Ø80 mm for built-in box		20129768
Adapter kit B23 Ø80 mm		20129769
External probe kit		1220559
Anti-freeze resistance kit for combined versions		20145304
Anti-freeze resistance kit for heating-only versions		20145305

Code required in case of vertical discharge with 60/100 flue system. Accessory already included in kit 20129177.

Code required in case of horizontal discharge with flue system Ø60/100. Accessory already included in kits 20129175 and 20129176.

Description	Notes	Code
ACCESSORIES FOR RESIDENCE BOILERS	, ,	
Vertical connection stub pipe kit Ø60/100 mm	(1)	20129174
90° bend kit Ø60/100 mm for boiler start	(2)	20129172
System and gas cock kit for recessed installation (25 KIS model only)		20137668
Connection kit with heating system, domestic water and gas cocks (for KIS models)		20133516
Connection kit with heating system and gas cocks (for IS models)		20133517
Connection kit with domestic water and gas cocks (for KIS models)		20132005
Connection kit with gas cock (for IS models)		20133386
High head circulator kit		20105883
Condensate booster pump kit		20097192
Well probe for remote heater (for heating only version)		1220599
Magnetic filter kit		20178780
Polyphosphate dispenser kit		20178781
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Fixed split system kit Ø80 mm		20129765
Wall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Split kit B23 Ø80 mm for built-in box		20129768
Adapter kit B23 Ø80 mm		20129769
External probe kit		1220559
Anti-freeze resistance kit for combined versions		20145304
Anti-freeze resistance kit for heating-only versions		20145305

(1)	Code required in case of vertica	discharge with 60/100 flue system. Accesso	ry already included in kit 20129177.

Code required in case of vertical discharge with 60/100 flue system. Accessory already included in kit 20129177.
 Code required in case of horizontal discharge with flue system Ø60/100. Accessory already included in kits 20129175 and 20129176.

Description	Code
ACCESSORIES FOR RESIDENCE HYBRID BOILERS	
Open-air installation kit	20011638
Anti-freeze resistance kit	20164833
Condensate booster pump kit	20097192
Wall-hung hydraulic connection kit	20130639
Heating system cock kit	4047252
Clapet kit	20100893
LPG conversion kit (for 25 kW only)	20102669
LPG conversion kit (for 32 kW only)	20102674
Propane air conversion kit (for 25 kW only)	20102673

Description	Notes	Code
ACCESSORIES FOR RESIDENCE IN HYBRID BOILERS		
Door kit for recessed installation	(1)	4047250
Heating system cock kit		4047252
Wall-hung connection kit		4047255
External probe		1220559
Anti-freeze resistance kit for KIS versions		20164827
Anti-freeze resistance kit for IS versions		20164828
Condensate booster pump kit		20097192
Remote heater well probe (for pairing with IS version)		1220599
LPG conversion kit for Residence In Condens 20 IS and 25 KIS		20102669
LPG conversion kit for Residence In Condens 32 KIS		20102674
Propane air conversion kit for Residence In Condens 25 KIS		20102673
Clapet kit		20162838

For retrofit on old boxes without door.

HEAT PUMP ACCESSORIES

RIELLO

Description	Code
ACCESSORIES FOR NXH HEAT PUMPS	
50 litre inertial buffer tank	20171999
100 litre inertial buffer tank	20142300
Heat pump vibration damper kit	20171891
1" Y water filter	20175281
HB0X adjustable bypass valve	20182807

ACCESSORIES HYBRID DISTRIBUTION MODULES

Description		Code
ACCESSORIES FOR HYBRID DISTRIBUTION MODULES		
Cock kit on system and heat pump side		20131752
Photovoltaic system input card	(1)	20132409
Diverting valve kit for BAG³ HYBRID		20131755
Diverting valve kit for HBOX		20168920
Solar interface kit		20131756

⁽¹⁾ To be used only if the diverting valve (code 20131755) is not present in BAG3 HYBRID configuration.

DOMESTIC TANKS MODULES

Description		Code
ACCESSORIES FOR DOMESTIC TANKS MODULES		
Solar heat exchanger 0.8 m² for HP 300		4383504
Solar mixing diverting valve kit	(1)	20025113

Mandatory in case of domestic water heater installation and KIS model boiler.

SOLAR COLLECTOR MODULES ACCESSORIES

Description	Notes	Code
ACCESSORIES FOR SOLAR COLLECTORS		
RSS R solar hydraulic unit	(1)	20116168

⁽¹⁾ The RSS R return-only solar hydraulic unit and the solar interface kit (code 20131756) must always be ordered together.

SOLAR THERMAL ACCESSORIES

Description	Notes	Code	
ACCESSORIES FOR SOLAR THERMAL			
Solar collector probe kit	(1)	20008787	
Manual solar degasser kit	(2)	20026577	
Weld-in connection kit (includes: 2 weld-in connectors for connection to RPS 25/2 EVO and RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		20132142	
Connection kit for stainless steel tube (includes: 2 connectors for connection to RPS 25/2 EVO and RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		20132143	
15 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		4383254	
20 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		4383255	
5 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		4383085	
10 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)			
18-Litre SUN expansion reservoir (specific for solar applications, complete with bracket, 3/4" connection)		4383052	
24-Litre SUN expansion reservoir (specific for solar applications, complete with bracket, 3/4" connection)		4383053	

 ⁽¹⁾ The solar interface kit code 20131756 already contains the solar probe.
 (2) Use one for each set of manifolds fitted in the highest position.

RICLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
100 100 100 100 100 100 100 100 100 100	RICLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

- Possibility of only ON/OFF connection on BAG³ HYBRID
- (*) (1) (2) With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.

 For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

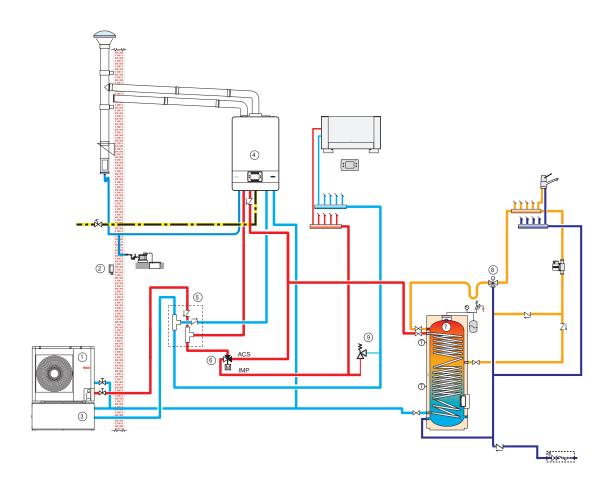
SYSTEM CONFIGURABILITY

Description	Code	Built-in Man-Heat pumps possible combinations agement control				Heat pumps possible combinations					ydraulic (listributio	on
		Box da incasso M	REC 10H	NXH 005	NXH 007	NXH 011	NXH 015	NXH 011T	NXH 015T	HBOX Modulo 1D (1)	BAG³ HYBRID Modulo 1D (2)	BAG³ HYBRID Modulo 2D (2)	BAG³ HYBRID Modulo 1D+1M (2)
		20082310	20124352	20161608	20161610	20161611	20161612	20161613	20161614	20165227	20130805	20130806	20130807
COMBINED VERSION OF HEATING AND	INSTANT SANITARY	WATER											
FAMILY 25 KIS	20133714	•	•	•	•					•	•	•	•
FAMILY 30 KIS	20142573		•	•	•	•		•		•	•	•	•
FAMILY 35 KIS	20133716		•	•	•	•	•	•	•	•	•	•	•
RESIDENCE 25 KIS	20139525	•	•	•	•					•	•	•	•
RESIDENCE 30 KIS	20148496		•	•	•	•		•		•	•	•	•
RESIDENCE 35 KIS	20139527		•	•	•	•	•	•	•	•	•	•	•
RESIDENCE HYBRID 25 KIS	20130398			•	•					•	•	•	•
RESIDENCE HYBRID 32 KIS	20130399			•	•	•		•		•	•	•	•
RESIDENCE IN HYBRID 25 KIS	20118748	•		•	•					•	•	•	•
RESIDENCE IN HYBRID 32 KIS	20118749	•		•	•	•		•		•	•	•	•
HEATING ONLY VERSION													
FAMILY 25 IS	20133715		•	•	•					•	•	•	•
FAMILY 35 IS	20133717		•	•	•	•	•	•	•	•	•	•	•
RESIDENCE 20 IS	20139526		•	•	•					•	•	•	•
RESIDENCE 35 IS	20139528		•	•	•	•	•	•	•	•	•	•	•
RESIDENCE IN HYBRID 25 IS	20135128	•		•	•					•	•	•	•

- Can only be combined with NXH 005-007 heat pumps code 20161608 and 20161610.
 Pair the built-in box code 20130808 only with BAG³ HYBRID code 20130805, 20130806 and 20130807.

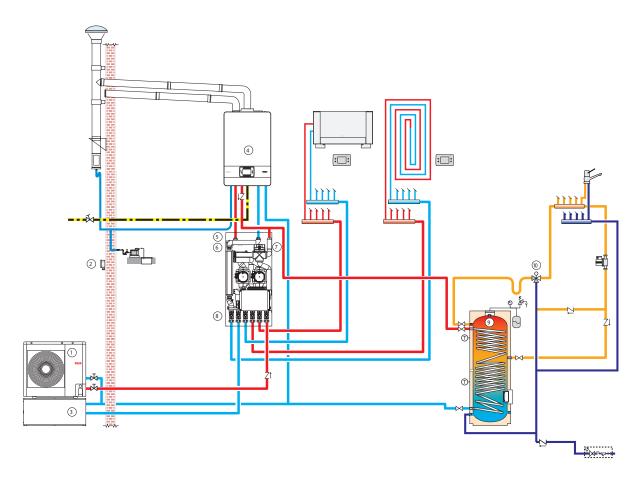
EXAMPLES OF PLANT WITH HYBRID WALL SYSTEM

BIVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH HEAT PUMP AND BOILER



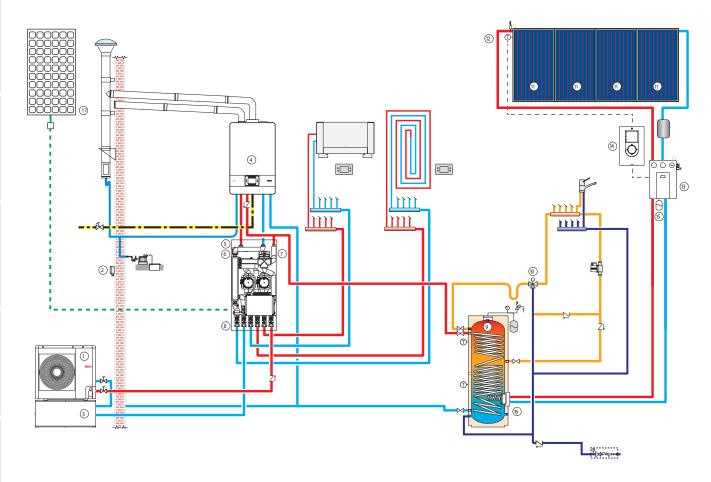
- NXH heat pump
- 2
- NXH external probe Hot/cold inertial storage kit 3
- 4 Wall-hung boiler
- HBOX 1D hybrid distribution module DHW diverting valve kit for NXH 5
- 6 7 8
- Heater 3/4" thermostatic mixer
- Adjustable bypass valve

BIVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH HEAT PUMP AND MULTI-ZONE **BOILER**



- NXH heat pump NXH external probe 2
- 3 Hot/cold inertial storage kit
- 4 Wall-hung boiler
- 5 BAG3 HYBRID
- 6 Built-in box
- Diverting valve kit for BAG³ HYBRID 7
- 8 Cock kit for BAG³ HYBRID on system and heat pump side
- Heater
- 10 ³/4" thermostatic mixer

BIVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH SOLAR THERMAL, HEAT PUMP **AND BOILER**

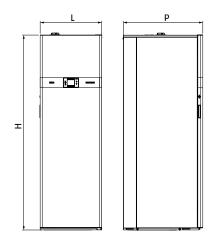


- NXH heat pump
- NXH external probe 2
- 3 Hot/cold inertial storage kit
- 4 Wall-hung boiler
- 5 BAG3 HYBRID
- Built-in box 6
- Diverting valve kit for BAG³ HYBRID 7
- Cock kit for BAG³ HYBRID on system and heat pump side
- 9 Heater
- 10
- 11
- 3/4" thermostatic mixer Solar collector Manual solar degasser kit 12
- RSS R solar hydraulic unit
- 14 Solar interface kit
- 18-Litre SUN expansion reservoir 15
- Solar heat exchanger 16
- Photovoltaic system with dry contact

Hybrid system-Floor standing solutions

Domus Hybrid







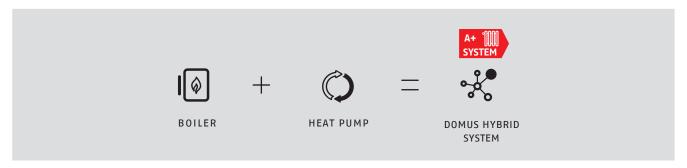
- · Heating, cooling and domestic hot water production
- Intelligent management of two energy sources: condensing boiler and heat pump
- Possibility to control up to 3 indoor zones

Description	H mm	L mm	P mm	Net weight kg
Domus Hybrid 25 B/200	1900	600	775	212
Domus Hybrid 35 B/200	1900	600	775	212

Domus Hybrid is a multi-energy hybrid system for heating, summer cooling and domestic hot water production, consisting of a column unit housing a condensing gas boiler, a 200 litre heater with double coil and a control panel with system intelligence. Domus Hybrid can be combined with NXH series air/water monobloc heat pumps for hybrid systems.

All components of the hybrid system interact with each other via communication BUS.

- Condensing boiler inside the column unit, available with the 2 powers of 25 and 35 kW with condensing heat exchanger, 1:10 modulation ratio and "Range Rated" certification that allows the nominal power to be adjusted to the actual heat demand of the system.
- Column unit equipped with hydraulic separator, diverting valve for domestic hot water production, 200 litre double coil heater, prearranged for control of a direct zone through a low consumption self-modulating circulator. Up to 2 additional zone control kits can be installed inside the column unit, each one with low-consumption self-modulating circulator, in order to manage up to 3 independent temperature zones.
- Control panel for the entire system with large, intuitive and descriptive display; the panel is the system intelligence, capable of activating the most energy-efficient heat source. It can be removed from the column unit and installed inside the house.
- Intelligent system filling that can be activated from system control panel.
- It can be combined with a monobloc air-water heat pump equipped with BUS communication with the system intelligence, available with 5, 7, 11 and 15 kW power.



HYBRID FLOOR-STANDING BOILER

TECHNICAL DATA

RIELLO

Description	Heat output Heating/Domestic water min-max kW	Working efficiency Nominal output (50°/30°C) 30% nominal output output (ret. 30 °C) %		Domestic water production ΔT 25° I/min	Fuel	Energy efficiency class		Notes	Code
VERSION WITH SEALED CHAMBER AND FORCED DRAUGHT-HEATING AND DOMESTIC HOT WATER PRODUCTION									
Domus Hybrid 25 B/200	2,5-25,0	102,8	106,5	14,3	MTN	Α	Α	(1)	20120778
Domus Hybrid 35 B/200	3,5-35,0	103,5	108,7	17,8	MTN	Α	Α	(1)	20120779

⁽¹⁾ The code does not include the heat pump; to be ordered separately according to actual needs.

MATCHING HEAT PUMPS

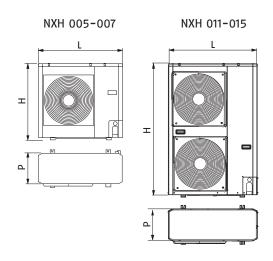
TECHNICAL DATA

Description	Heating				Cooling				Electrical power supply	Energy efficiency	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)		V/Ph/Hz	class	
	Nominal power kW	СОР	Nominal power kW	СОР	Nominal power kW	EER	Nominal power kW	EER		(5)	
MONOBLOC AIR - WATER NEW											
NXH 005	5,10	4,40	4,85	3,40	4,85	4,35	4,00	3,10	230/1/50	A++	20161608
NXH 007	7,15	4,10	6,80	3,20	8,00	4,00	5,55	3,10	230/1/50	A++	20161610
NXH 011	11,25	4,70	11,30	3,60	13,70	4,60	11,20	3,40	230/1/50	A++	20161611
NXH 015	15,10	4,25	13,40	3,40	16,00	4,10	12,80	3,10	230/1/50	A++	20161612
NXH 011T	11,20	4,60	10,40	3,60	13,75	4,65	10,65	3,40	400/3/50	A++	20161613
NXH 015T	15,00	4,35	13,50	3,50	17,00	4,15	13,00	3,20	400/3/50	A++	20161614

The performance is in accordance with standard EN 14511–3:2013 and refers to the following conditions:

- performance is in accordance with standard EN 14511–312013 and refers to the following conditions:
 Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
 Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
 Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
 Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
 Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature. (1) (2)

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
NXH 005	821	908	326	57
NXH 007	821	908	326	69
NXH 011	1363	908	326	115
NXH 015	1363	908	326	115

ZONE MANAGEMENT

1 Direct zone as standard in the boiler

Zone management	Additional zones kit
1 direct zone + 1 mixed zone	20093831
1 direct zone + 2 mixed zones	2 x 20093831
2 direct zones	20093833
3 direct zones	2 x 20093833
2 direct zones + 1 mixed zone	20093831 + 20093833

ACCESSORIES

Description	Code
ACCESSORIES FOR DOMUS HYBRID	
Direct hybrid zone kit	20093833
Mixed hybrid zone kit	20093831
Boiler control panel cover kit (with release button)	20124351
REC10H control	20124352
Limit thermostat for low-temperature systems	20085223
Domestic water recirculation kit with circulator	20084749
Heating system and domestic water shut-off cock kit	20084750
Installation template kit	20106844
Condensate booster pump kit	20097192
LPG conversion kit (25 kW)	20104217
LPG conversion kit (35 kW)	20104215
ACCESSORIES FOR NXH HEAT PUMPS	
50 litre inertial buffer tank	20171999
100 litre inertial buffer tank	20142300
Heat pump vibration damper kit	20171891
1" Y water filter	20175281

Flue options system: refer to page 105 section.

RICLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

- Possibility of only 0N/0FF connection on BAG³ HYBRID
 With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.
 For the 0TBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

WATER-HEATERS

BASIC LAYOUT PURELY FOR ILLUSTRATIVE PURPOSES: COOLING ALSO POSSIBLE USING FAN COIL

Domus Hybrid system priority logics

In domestic hot water production:

- Heat pump (only if with favourable outdoor temperature conditions and with the possibility of limiting its operation in time slots chosen by the user according to preset usage profiles)
- 2)

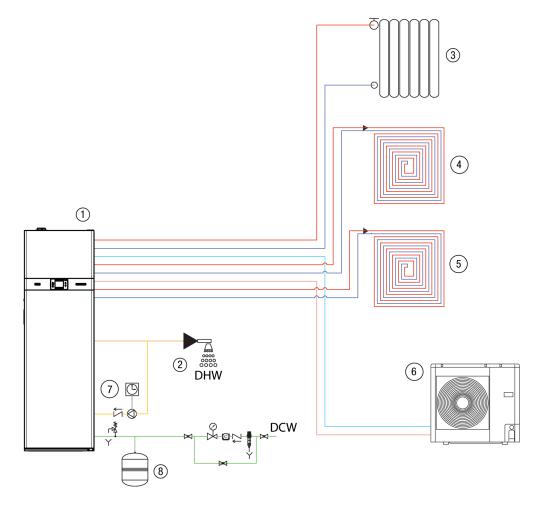
RIELLO

In heating mode:

- Heat pump (only in "winter" and only if the outdoor temperature is favourable) 1)
- 2) Boiler

In cooling mode:

Heat pump (in "summer" only)

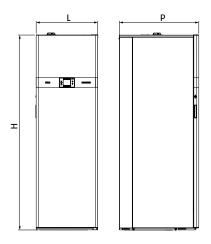


- DOMUS HYBRID condensing floor-standing boiler
- User/domestic hot water 2.
- Direct zone/high temperature 3.
- 4. Mixed zone/low temperature
- Mixed zone/low temperature
- Domestic water recirculation (optional accessory that can be installed on the boiler, consisting of a circulator with timer)
- 8-litre domestic water expansion reservoir, already included as standard inside the column unit

Hybrid system-Floor standing solutions

Domus Hybrid Solar







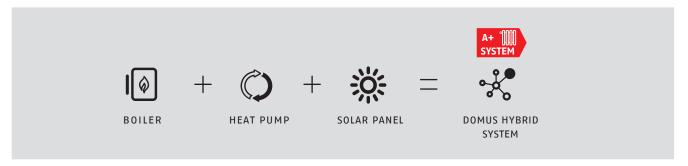
- Heating, cooling and domestic hot water production
- Intelligent management of multiple energy sources: condensing boiler, heat pump and solar thermal
- Possibility to control up to 3 indoor zones

Description	H	L	P	Net weight
	mm	mm	mm	kg
Domus Hybrid 35 B/200 Solar	1900	600	775	212

Domus Hybrid Solar is a multi-energy hybrid system for heating, summer cooling and domestic hot water production, consisting of a column unit housing a condensing gas boiler, a 200 litre heater with double coil and a control panel with system intelligence. Domus Hybrid Solar can be combined with NXH series air/water monobloc heat pumps for hybrid systems and with solar collectors.

All components of the hybrid system interact with each other via communication BUS.

- Condensing boiler inside the column unit, available with power of 35 kW with condensing heat exchanger, 1:10 modulation ratio and "Range Rated" certification that allows the nominal power to be adjusted to the actual heat demand of the system.
- Column unit equipped with hydraulic compensator, diverting valve for domestic hot water production, 200 litre double coil
 heater, prearranged for control of a direct zone through a low consumption self-modulating circulator. Up to 2 additional
 zone control kits can be installed inside the column unit, each one with low-consumption self-modulating circulator, in
 order to manage up to 3 independent temperature zones.
- Control panel for the entire system with large, intuitive and descriptive display; the panel is the system intelligence, capable of activating the most energy-efficient heat source. It can be removed from the column unit and installed inside the house.
- Intelligent system filling that can be activated from system control panel.
- It can be combined with a monobloc air-water heat pump equipped with BUS communication with the system intelligence, available with 5, 7, 11 and 15 kW power.
- It can be combined with solar collectors; the hydraulic unit and 18-litre expansion reservoir of solar circuit are already included in the Domus Hybrid Solar column.



HYBRID FLOOR-STANDING BOILERS

TECHNICAL DATA

RIELLO

Description	Heat output Heating/ Domestic water min- max kW			Domestic water production			Classe Notes energetica		Code
		Nominal output (50°/30°C) %	30% nominal output (ret. 30 °C) %	ΔT25° I/min		°000	7		
VERSION WITH SEALED CHAMBER AND FORCED DRAUGHT-HEATING AND DOMESTIC HOT WATER PRODUCTION									
Domus Hybrid 35 B/200 Solar	3,5-35,0	103,5	108,7	17,8	MTN	A	A	(1)	20120780

⁽¹⁾ The code does not include the heat pump; to be ordered separately according to actual needs.

MATCHING HEAT PUMPS

TECHNICAL DATA

Description	Heating					Cooling				Energy	Code
	Floo	Floor (1) Fan coils (2)		Fan coils (2)		Floor (3)		V/Ph/Hz pils (4)		efficiency class	
	Nominal power kW	СОР	Nominal power kW	СОР	Nominal power kW	EER	Nominal power kW	EER		(5)	
	power kw		power kw		power kw		power kw			1000	
MONOBLOC AIR - WATER	NEW										
NXH 005	5,10	4,40	4,85	3,40	4,85	4,35	4,00	3,10	230/1/50	A++	20161608
NXH 007	7,15	4,10	6,80	3,20	8,00	4,00	5,55	3,10	230/1/50	A++	20161610
NXH 011	11,25	4,70	11,30	3,60	13,70	4,60	11,20	3,40	230/1/50	A++	20161611
NXH 015	15,10	4,25	13,40	3,40	16,00	4,10	12,80	3,10	230/1/50	A++	20161612
NXH 011T	11,20	4,60	10,40	3,60	13,75	4,65	10,65	3,40	400/3/50	A++	20161613
NXH 015T	15,00	4,35	13,50	3,50	17,00	4,15	13,00	3,20	400/3/50	A++	20161614

- The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

 (1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.

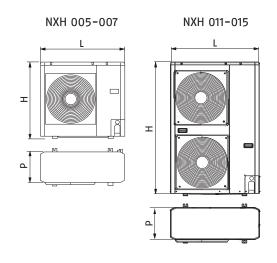
 (2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.

 (3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.

 (4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.

 (5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
NXH 005	821	908	326	57
NXH 007	821	908	326	69
NXH 011	1363	908	326	115
NXH 015	1363	908	326	115

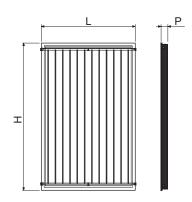
MATCHING SOLAR COLLECTORS

TECHNICAL DATA

Description	Collecto	r surface	Values refe	erred to the op	ening area	Stagnation	Notes	Code
	Gross m²	Net m²	ηο	a1 W/m²K	a2 W/m²K²	temperature °C		
RPS 25/2 EV0	2,30	2,15	0,821	4,41	0,0060	198	(1)	20127134
RPS 25/4	2,30	2,14	0,802	4,28	0,0064	197	(1)	20127137

⁽¹⁾ The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 159.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41,5
RPS 25/4	2004	1195	85	44

ZONE MANAGEMENT

1 Direct zone as standard in the boiler

Zone management	Additional zones kit
1 direct zone + 1 mixed zone	20093831
1 direct zone + 2 mixed zones	2 x 20093831
2 direct zones	20093833
3 direct zones	2 x 20093833
2 direct zones + 1 mixed zone	20093831 + 20093833

ACCESSORIES

RIELLO

Description	Notes	Code
ACCESSORIES FOR DOMUS HYBRID SOLAR		
Direct hybrid zone kit		20093833
Mixed hybrid zone kit		20093831
Boiler control panel cover kit (with release button)		20124351
REC10H control		20124352
Limit thermostat for low-temperature systems		20085223
Domestic water recirculation kit with circulator		20084749
Heating system and domestic water shut-off cock kit		20084750
Installation template kit		20106844
Condensate booster pump kit		20097192
LPG conversion kit (25 kW)		20104217
LPG conversion kit (35 kW)		20104215
ACCESSORIES FOR NXH HEAT PUMPS		
50 litre inertial buffer tank		20171999
100 litre inertial buffer tank		20142300
Heat pump vibration damper kit		20171891
1" Y water filter		20175281
ACCESSORIES FOR SOLAR COLLECTORS		
RSS R solar hydraulic unit	(1)(2)	20116168
ACCESSORIES FOR SOLAR THERMAL		
Solar collector probe kit		20008787
Manual solar degasser kit	(3)	20026577
Weld-in connection kit (includes: 2 weld-in connectors for connection to RPS 25/2 EVO and RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		20132142
Connection kit for stainless steel tube (includes: 2 connectors for connection to RPS 25/2 EVO and RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		20132143
15 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		4383254
20 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		4383255
5 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		4383085
10 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		4383059
1) Includes 1 temperature probe for heater		

- (1) Includes 1 temperature probe for reaction.
 (2) The RSS R return-only solar hydraulic unit
 (3) Use one for each set of manifolds fitted in Flue options system: refer to page 105 section. The RSS R return-only solar hydraulic unit and the solar interface kit (code 20131756) must always be ordered together. Use one for each set of manifolds fitted in the highest position.

RICLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
1988 4 d	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

- Possibility of only 0N/0FF connection on BAG³ HYBRID
 With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.
 For the 0TBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

BASIC LAYOUT PURELY FOR ILLUSTRATIVE PURPOSES: COOLING ALSO POSSIBLE USING FAN COIL

DOMUS HYBRID SOLAR system priority logics:

In domestic hot water production:

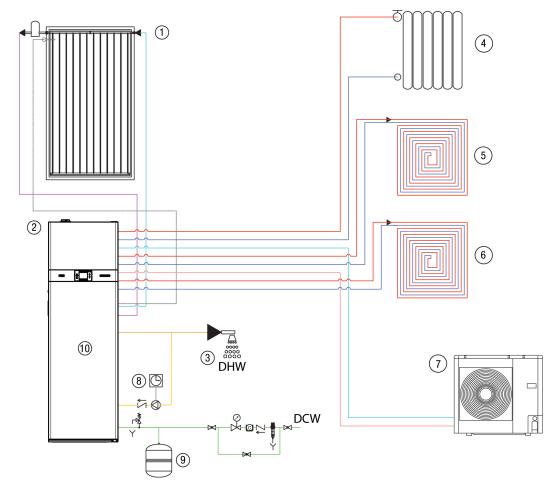
- 1) Solar thermal
- 2) Boiler

In heating mode:

- 1) Heat pump (only in "winter" and only if the outdoor temperature is favourable)
- 2) Boiler

In cooling mode:

1) Heat pump (in "summer" only)



- 1. Solar collector
- 2. Domus Hybrid Solar condensing floor-standing boiler
- 3. User/domestic hot water
- 4. Direct zone/high temperature
- 5. Mixed zone/low temperature
- 6. Mixed zone/low temperature
- 7. Heat pump
- 8. Domestic water recirculation (optional accessory that can be installed on the boiler, consisting of a circulator with timer)
- 9. 8-litre domestic water expansion reservoir, already included as standard inside the column unit
- 10. 18-litre solar expansion reservoir included as standard inside the column unit

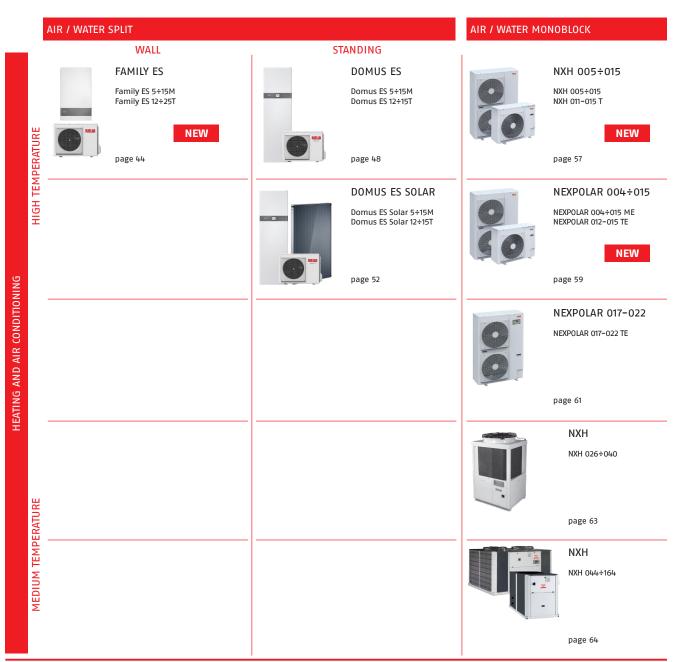


HEAT PUMPS	
HEAT PUMPS	43

HEAT PUMPS



FOR CENTRAL HEATING AND DHW PRODUCTION FROM LOW TO MEDIUM POWER



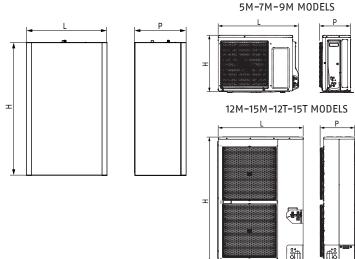
RIELLO

Wall-hung split air-water heat pumps

Family ES









- Split type heat pump with wall-hung indoor unit for heating, cooling and DHW production
- Wide range of powers available, from 5 to 25kW
- Intelligent management of multiple energy sources: heat pump, boiler and solar thermal
- Control panel that can be positioned in the room also with room sensor function (V ErP class)

Description	H mm	L mm	P mm	Net weight kg
INDOOR UNIT				
FAMILY ES	825	505	325	41÷49
OUTDOOR UNIT				
FAMILY ES 5M	619	799	299	39
FAMILY ES 7M	619	799	299	40
FAMILY ES 9M	996	940	340	69
FAMILY ES 12M/12T	1416	940	340	98
FAMILY ES 15M/15T	1416	940	340	98
FAMILY ES 18T	1416	940	340	98
FAMILY ES 25T	1500	980	370	138

Family ES is a split type heat pump system with wall-hung indoor unit for heating, cooling and domestic water production. The system consists of an outdoor unit in R410A connected through refrigerant pipes to the indoor wall-hung unit. The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C. The indoor unit houses the main components of the hydronic system, high surface plate exchanger, high efficiency electronic circulator, collector for installation of an additional heating element available as ACCESSORY.

The indoor unit is extremely compact with all hydraulic and refrigerant connections from below.

Remove the front panel to access all internal components, the electronic service panel and the electrical terminal block. The system control panel is simple and intuitive, with large backlit colour display. It is supplied complete with bracket to be positioned directly inside the rooms. It can be used as room control and allows integration with BAG3 Hybrid distribution systems.

As an alternative to the additional heating element, the Family ES control can also manage an auxiliary heat source, such as a boiler, to be operated as integration or as backup.

TECHNICAL DATA

Description		Hea	ting			Coo	oling		Electrical		fficiency	Code
	Floo	Floor (1)		oils (2)	Floo	r (3)	Fan coils (4)		supply V/Ph/Hz	Cla	ass	
	Nominal power kW	СОР	Nominal power kW	СОР	Nominal power kW	EER	Nominal power kW	EER		(5)	(6)	
THE CODES SHOW	N BELOW A	LWAYS RE	FER TO TH	E COMBIN	NATION OF	INDOOR	UNIT AND	OUTDOOF	RUNIT			
FAMILY ES 5M	4,8	4,11	4,5	2,96	5,1	3,43	3,5	2,48	230/1/50	A++	A++	20181792
FAMILY ES 7M	7,1	4,33	6,7	3,13	7,4	4,02	5,3	3,03	230/1/50	A++	A++	20181795
FAMILY ES 9M	8,1	4,53	7,6	3,46	8,7	4,21	6,3	3,18	230/1/50	A+++	A++	20181796
FAMILY ES 12M	12,8	4,44	12,0	3,37	12,3	4,09	8,9	3,22	230/1/50	A+++	A++	20181797
FAMILY ES 15M	14,6	4,58	13,7	3,40	15,6	4,00	11,2	3,20	230/1/50	A+++	A++	20181805
FAMILY ES 12T	12,8	4,44	12,0	3,37	12,3	4,09	8,9	3,22	400/3+N/50	A+++	A++	20181803
FAMILY ES 15T	14,6	4,58	13,7	3,40	15,6	4,00	11,2	3,20	400/3+N/50	A+++	A++	20181806
FAMILY ES 18T	16,9	4,37	15,9	3,18	19,4	4,13	13,9	3,19	400/3+N/50	A++	A++	20181807
FAMILY ES 25T	24,8	4,06	23,2	2,93	27,9	4,20	19,9	3,15	400/3+N/50	A++	A++	20181809

The performance is in accordance with standards EN 14511:2013 and EN 14825:2016
(1) External air temperature 7°C BS, 6°C BU; water inlet/outlet 30/35°C
(2) External air temperature 7°C BS, 6°C BU; water inlet/outlet 40/45°C

- (2) (3) (4) (5) (6)
- External air temperature 35°C; water inlet/outlet 23/18°C
 External air temperature 35°C; water inlet/outlet 12/7°C
 Value referred to the Average climate profile for delivery temperature of 35 °C. Values in accordance with Regulation 811/2013
 Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013

MATCHING HYBRID DISTRIBUTION MODULES

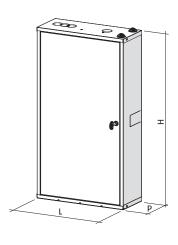
TECHNICAL DATA

Description	Zone management	Electrical supply V/Ph/Hz	Maximum power absorbed W	Notes	Code
BAG ³ HYBRID 2D	2 direct zone	230/1/50	114	(1)(2)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(1)(3)	20130807
IN-WALL INSTALLATION BOX				(4)	20130808

- (1) (2) (3) (4) Supplied without built-in box.
- Equipped as standard with limit thermostat for low temperature systems.

 Mixed zone equipped as standard with limit thermostat for low temperature systems.
- Galvanised sheet built-in box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

CODE MATCHING TABLE

RIELLO

Description	Set code	Indoor unit code	Outdoor unit code	
FAMILY ES 5M	20181792	20174927	20155167	
FAMILY ES 7M	20181795	20174927	20155172	
FAMILY ES 9M	20181796	20174927	20155173	
FAMILY ES 12M	20181797	20174929	20155174	
FAMILY ES 15M	20181805	20174929	20155175	
FAMILY ES 12T	20181803	20174932	20155182	
FAMILY ES 15T	20181806	20174932	20155184	
FAMILY ES 18T	20181807	20174932	20175541	
FAMILY ES 25T	20181809	20174933	20175544	

ACCESSORIES

Description	Notes	Code
7200 300 HP		4383500
7200 500 HP		4383501
50 litre inertial buffer tank		20171999
2-4-6 kW single-phase heating element kit	(1)	20155831
2-4-6 kW three-phase heating element kit	(1)	20157335
1" DHW diverting valve with heater probe		20175064
1" Y water filter		20175281

The power supplied by the heating element depends on the type of wiring performed during installation.

RICLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
HELD HELD	RiCLOUD	(2)	20117399
Name 18:81 - 4	Wi-Fi box		20111885
MARIA W	RF-wireless boiler receiver		20117359

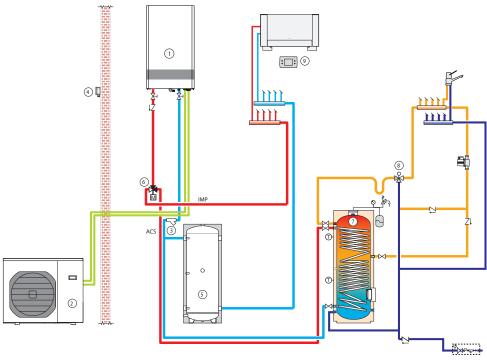
- Possibility of only ON/OFF connection on BAG³ HYBRID
- With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.

 For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

RIELLO

SYSTEM DIAGRAMS

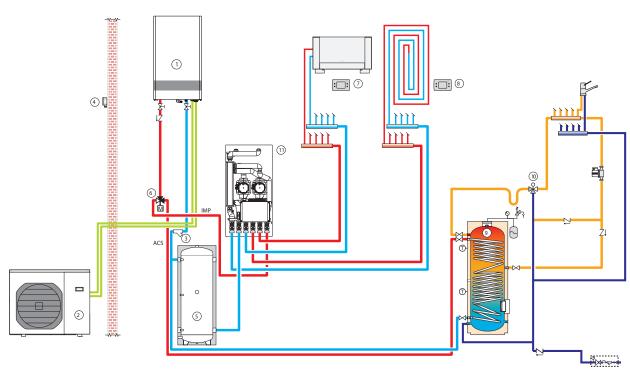
1. Bivalent heating, cooling and DHW production system



- 1 Indoor unit heat pump
- 2 Outdoor unit heat pump
- 3 Y-filter
- 4 External air probe
- 5 Buffer tank

- 6 DHW diverting valve kit
- 7 Heater
- 8 ³/₄" thermostatic mixer
- 9 REC10CH remote control

2. Bivalent system for heating, cooling and multizone DHW production



- 1 Indoor unit heat pump
- 2 Outdoor unit heat pump
- 3 Y-filter
- 4 External air probe
- 5 Buffer tank
- 6 DHW diverting valve kit

- 7 REC10CH remote control
- 8 Additional zone control
- 9 Heater
- 10 3/4" thermostatic mixer
- 11 BAG³ HYBRID

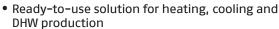
TERMINAL UNITS

Floor standing split air-water heat pumps

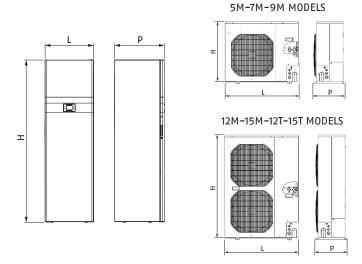
Domus ES







- Dedicated connections for bathroom towel warmers with temperature and management independent from the main system
- Instant DHW production with high efficiency stainless steel heat exchanger (no antilegionella)
- · Possibility of connecting and managing a second external generator



Description	H	L	P	Net weight
	mm	mm	mm	kg
DOMUS ES 5-7-9-12-15M DOMUS ES 12-15T	600	600	2000	179

Note: dimensions and weights refer to the indoor unit only.

Description	H mm	L mm	P mm	Net weight kg
DOMUS ES 5M	619	799	299	39
DOMUS ES 7M	619	799	299	40
DOMUS ES 9M	996	940	340	69
DOMUS ES 12M	1416	940	340	98
DOMUS ES 15M	1416	940	340	98
DOMUS ES 12T	1416	940	340	98
DOMUS ES 15T	1416	940	340	98

Note: dimensions and weights refer to the outdoor unit only.

Domus ES is a floor-standing split heat pump system for heating, cooling and domestic water production. The system consists of an outdoor unit in R410A connected through refrigerant pipes to the indoor floor-standing unit.

The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C. The main components of the hydronic system are located in the indoor unit, including a 200l buffer tank with high-surface stainless steel coil for instantaneous production of domestic hot water.

- All-in-One floor-standing indoor unit for clean and tidy installation
- 2001 buffer tank with exchanger for instantaneous production of DHW
- Elimination of anti-legionella cycles
- Compact indoor unit, only 600x600mm plan dimensions, and with reduced clear spaces
- Hydraulic, electrical and refrigeration connections from above
- Front access to all components and simplified installation thanks to the cock kit (ACCESSORY)
- Simple and intuitive control panel with large backlit colour display and suitable for remote connection in the room
- Connections for 2 independent direct zones: one for the main heating/air conditioning system, the other for towel warmers
- Easy integration with a secondary backup generator through dedicated hydraulic connections and management via digital signals

TECHNICAL DATA

Description		Hea	nting			Coc	ling		Electrical supply			Code
	Floo	or (1)	Fan co	oils (2)	Floo	r (3)	Fan co	oils (4)	V/Ph/Hz	CI	ass	
	Nominal power kW	СОР	Nominal power kW	СОР	Nominal power kW	EER	Nominal power kW	EER		(5)	(6)	
THE CODES SHOWN	BELOW AL	WAYS REF	ER TO THE	COMBINA	TION OF I	NDOOR UI	NIT AND O	UTDOOR I	JNIT			
DOMUS ES 5M	4,8	4,11	4,5	2,96	5,1	3,43	3,5	2,48	230/1/50	A++	A /L	20155360
DOMUS ES 7M	7,1	4,33	6,7	3,13	7,4	4,02	5,3	3,03	230/1/50	A++	A /L	20155362
DOMUS ES 9M	8,1	4,53	7,6	3,46	8,7	4,21	6,3	3,18	230/1/50	A+++	A /L	20155363
DOMUS ES 12M	12,8	4,44	12,0	3,37	12,3	4,09	8,9	3,22	230/1/50	A+++	A /XL	20155364
DOMUS ES 15M	14,6	4,58	13,7	3,40	15,6	4,00	11,2	3,20	230/1/50	A+++	A /XL	20155366
DOMUS ES 12T	12,8	4,44	12,0	3,37	12,3	4,09	8,9	3,22	400/3+N/50	A+++	A /XL	20155365
DOMUS ES 15T	14,6	4,58	13,7	3,40	15,6	4,00	11,2	3,20	400/3+N/50	A+++	A /XL	20155368

- The performance is in accordance with standards EN 14511:2013 and EN 14825:2016
 (1) External air temperature 7°C BS, 6°C BU; water inlet/outlet 30/35°C
 (2) External air temperature 7°C BS, 6°C BU; water inlet/outlet 40/45°C
 (3) External air temperature 35°C; water inlet/outlet 23/18°C
 (4) External air temperature 35°C; water inlet/outlet 12/7°C
 (5) Value referred to the Average climate profile for delivery temperature of 55 °C
 (6) Tank set temperature 53°C. Values compliant with standard EN 16147. Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013 Tank set temperature 53°C. Values compliant with standard EN 16147.

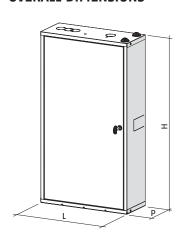
MATCHING HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

Description	Zone management	Electrical supply V/Ph/Hz	Maximum absorbed power W	Notes	Code
BAG ³ HYBRID 2D	2 direct zone	230/1/50	114	(1)(2)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(1)(3)	20130807
IN-WALL INSTALLATION BOX				(4)	20130808

- Supplied without built-in box.
- (1) (2) (3)
- Equipped as standard with limit thermostat for low temperature systems. Mixed zone equipped as standard with limit thermostat for low temperature systems.
- Galvanised sheet built-in box, possible white painting; the box is mandatory for installation of BAG3 HYBRID.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

CODE MATCHING TABLE

RIELLO

Description	Set code	Indoor unit code	Outdoor unit code
DOMUS ES 5M	20155360	20155167	20155185
DOMUS ES 7M	20155362	20155172	20155186
DOMUS ES 9M	20155363	20155173	20155311
DOMUS ES 12M	20155364	20155174	20155313
DOMUS ES 15M	20155366	20155175	20155315
DOMUS ES 12T	20155365	20155182	20155316
DOMUS ES 15T	20155368	20155184	20155318

ACCESSORIES

Description	Notes	Code
Cock kit	(1)	20155924
50 litre inertial buffer tank		20171999
2-4-6 kW single-phase heating element kit	(2)	20155831
2-4-6 kW three-phase heating element kit	(2)	20157335
S hydraulic separator kit (includes secondary circulator)	(3)	20155826
L hydraulic separator kit (includes secondary circulator)	(4)	20155827
Average temperature circulator kit (towel warmers)		20155834
REC10CH locking kit and wall bracket		20161942
ACCESSORIES FOR HYBRID DISTRIBUTION MODULES	,	
Cock kit for BAG³ HYBRID on system and heat pump side		20131752

- All accessories are supplied separately as kits and must be installed on site.
 (1) Mandatory accessory to be ordered together with the unit. The kit includes domestic water inlet and outlet cocks , system and towel warmers, the discharge tubes for safety valves, the collector for discharge and the necessary hardware.

 The power supplied by the heating element depends on the type of wiring performed during installation

 Accessory that can be combined with Domus ES 5, 7 and 9 models. This accessory must be installed in the unit before connecting it to the system.

 Accessory that can be combined with Domus ES 12, 15 models. This accessory must be installed in the unit before connecting it to the system.

RICLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
Mental Manual Annual An	RiCLOUD	(2)	20117399
958	Wi-Fi box		20111885
MANUE CONTRACTOR OF THE PARTY O	RF-wireless boiler receiver		20117359

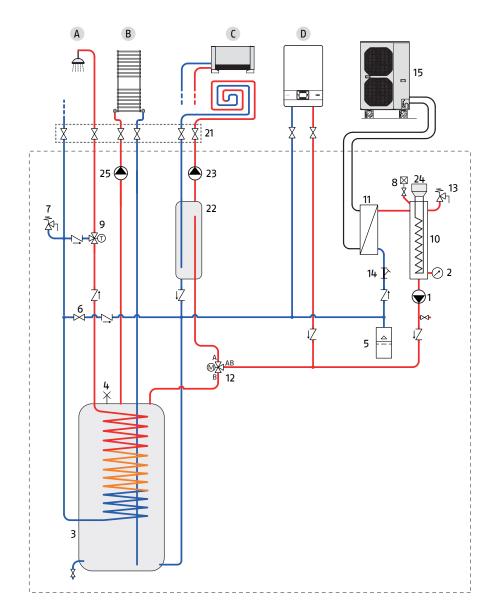
- Possibility of only ON/OFF connection on BAG3 HYBRID
- With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.

 For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

RIELLO

HYDRAULIC DIAGRAM

- The control of a possible external boiler is performed through two digital signals: one for enabling and one for management of a second setpoint in case of domestic water request.
- · If a boiler presence is configured, it will only be used as an alternative (backup) to the heat pump.
- If the single-phase/three-phase heating element kit is configured, it can be set to operate as an integration or as an
 alternative to the heat pump.
- The connections to the average temperature circuit for towel warmers are always present, but to operate they require the average temperature circulator kit ACCESSORY. This can be installed directly inside the unit where the power cable for the pump and the terminals to which the bathroom thermostats can be connected are already in place.
- The average temperature circuit for towel warmers is completely independent from the main system and can therefore be used even when the latter is off. The delivery temperature is equal to the temperature set for the domestic water buffer tank.
- The main system is managed through a digital enabling of a room thermostat. If more than one zone is to be managed, the various room thermostats must be placed in parallel and it is advisable to add the "Hydraulic separator kit" ACCESSORY to the standard equipment.
- Otherwise, it is possible to remotely connect the user interface of the indoor unit in the room, using it also as room thermostat. If more than one zone is to be managed, the BAG3 Hybrid must be added as a distribution system.



- A Domestic water users
- **B** Towel warmers
- C Main system users
- D Secondary generator (boiler)
- 1 Primary circulation pump (P1)
- 2 Pressure gauge
- 3 Domestic water buffer tank
- 4 Manual bleeder valve
- 5 Expansion reservoir
- 6 System load valve
- 7 6-bar safety valve8 Automatic drain valve

- 9 Thermostatic mixing valve
- 10 Manifold
- 11 Plate exchanger
- 12 3-way diverting valve
- 13 3-bar safety valve14 Y-filter
- 15 Outdoor unit
- 21 Cock kit *
- 22 Hydraulic separator **
 23 Secondary circulation
- 23 Secondary circulation pump (P2) **24 2/4/6 kW supplemental heating element ***
- 25 Towel warmer circulation pump (P3)

- * Accessory cock kit
- ** Accessory hydraulic separator kit with secondary circuit circulator
- *** Accessory supplemental heating element kit
- **** Accessory towel warmer circulator kit

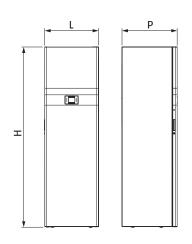
RIELLO

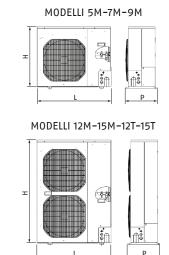
WATER-HEATERS

Floor standing split air-water heat pumps

Domus ES Solar









- Ready-to-use solution for heating, cooling and DHW production
- Dedicated connections for bathroom towel warmers with temperature and management independent from the main system
- Instant DHW production with high efficiency stainless steel heat exchanger (no antilegionella)
- Intelligent management of multiple energy sources: heat pump, boiler and solar thermal

Description	H	L	P	Net weight
	mm	mm	mm	kg
DOMUS ES 5-7-9-12-15M DOMUS ES 12-15T	600	600	2000	179

Note: dimensions and weights refer to the indoor unit only.

Description	H mm	L mm	P mm	Net weight kg
DOMUS ES SOLAR 5M	619	799	299	39
DOMUS ES SOLAR 7M	619	799	299	40
DOMUS ES SOLAR 9M	996	940	340	69
DOMUS ES SOLAR 12M	1416	940	340	98
DOMUS ES SOLAR 15M	1416	940	340	98
DOMUS ES SOLAR 12T	1416	940	340	98
DOMUS ES SOLAR 15T	1416	940	340	98

Note: dimensions and weights refer to the outdoor unit only.

Domus ES Solar is a floor-standing split heat pump system for heating, cooling and domestic water production. The system consists of an outdoor unit in R410A connected through refrigerant pipes to the indoor floor-standing unit. The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with

brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C. The main components of the hydronic system are located in the indoor unit, including a 200l buffer tank with high-surface stainless steel coil for instantaneous production of domestic hot water.

- All-in-One floor-standing indoor unit for clean and tidy installation
- 2001 buffer tank with exchanger for instantaneous production of DHW
- Elimination of anti-legionella cycles
- Compact indoor unit, only 600x600mm plan dimensions, and with reduced clear spaces
- Hydraulic, electrical and refrigeration connections from above
- Front access to all components and simplified installation thanks to the cock kit (ACCESSORY)
- Simple and intuitive control panel with large backlit colour display and suitable for remote connection in the room
- Connections for 2 independent direct zones: one for the main heating/air conditioning system, the other for towel warmers
- Easy integration with a secondary backup generator through dedicated hydraulic connections and management via digital
- Solar management directly from the machine user interface
- The solar section includes high efficiency circulator, 24-litre expansion reservoir, safety valve, pressure gauge and panel probe.

TECHNICAL DATA

Description		Hea	ating			Coo	ling		Electrical	0,5	efficiency	Notes	Code
	Flo (1		Fan co	oils (2)	Flo (3		Fan (L		supply V/Ph/Hz	cl	ass		
	Nominal power kW	СОР	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER) (5)	(6)		
THE CODES LISTED BELOW	ALWAYS	REFER T	O THE CON	4BINATIO	N OF IND	OOR UN	IT AND O	UTDOOR	UNIT				
DOMUS ES SOLAR 5M	4,8	4,11	4,5	2,96	5,1	3,43	3,5	2,48	230/1/50	A++	A /L	(D)	20155373
DOMUS ES SOLAR 7M	7,1	4,33	6,7	3,13	7,4	4,02	5,3	3,03	230/1/50	A++	A /L	(D)	20155375
DOMUS ES SOLAR 9M	8,1	4,53	7,6	3,46	8,7	4,21	6,3	3,18	230/1/50	A+++	A /L	(D)	20155376
DOMUS ES SOLAR 12M	12,8	4,44	12,0	3,37	12,3	4,09	8,9	3,22	230/1/50	A+++	A /XL	(D)	20155377
DOMUS ES SOLAR 15M	14,6	4,58	13,7	3,40	15,6	4,00	11,2	3,20	230/1/50	A+++	A /XL	(D)	20155382
DOMUS ES SOLAR 12T	12,8	4,44	12,0	3,37	12,3	4,09	8,9	3,22	400/3+N/50	A+++	A /XL	(D)	20155380
DOMUS ES SOLAR 15T	14,6	4,58	13,7	3,40	15,6	4,00	11,2	3,20	400/3+N/50	A+++	A /XL	(D)	20155385

- The performance is in accordance with standards EN 14511:2013 and EN 14825:2016

 (1) External air temperature 7°C BS, 6°C BU; water inlet/outlet 30/35°C

 (2) External air temperature 7°C BS, 6°C BU; water inlet/outlet 40/45°C

 (3) External air temperature 35°C; water inlet/outlet 23/18°C

 (4) External air temperature 35°C; water inlet/outlet 12/7°C

 (5) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013

 (6) Tank set temperature 53°C. Values compliant with standard EN 16147

 (D) Availability of the material at our warehouse: 15 working days from the order validation date.

MATCHING HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

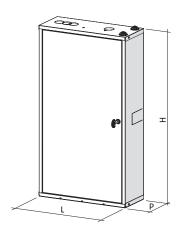
Description	Zone management	Electrical supply V/Ph/Hz	Maximum absorbed power W	Notes	Code
BAG ³ HYBRID 2D	2 direct zone	230/1/50	114	(1)(2)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(1)(3)	20130807
IN-WALL INSTALLATION BOX				(4)	20130808

- Supplied without built-in box.
- (2) (3) (4)
- Equipped as standard with limit thermostat for low temperature systems.

 Mixed zone equipped as standard with limit thermostat for low temperature systems.

 Galvanised sheet built-in box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

MATCHING SOLAR COLLECTORS

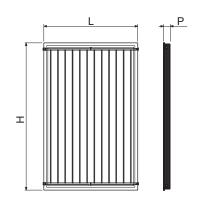
TECHNICAL DATA

RIELLO

Description	Collector	Collector surface Values referred to the opening area			Stagnation	Notes	Code	
	Gross m²	Net m²	ηο	a1 W/m²K	a2 W/m²K²	temperature °C		
RPS 25/2 EV0	2,30	2,15	0,821	4,41	0,0060	198	(1)	20127134
RPS 25/4	2,30	2,14	0,802	4,28	0,0064	197	(1)	20127137

⁽¹⁾ The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 159.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41,5
RPS 25/4	2004	1195	85	44

CODE MATCHING TABLE

Description	SET code	Outdoor unit code	Indoor unit code
DOMUS ES SOLAR 5M	20155373	20155167	20155319
DOMUS ES SOLAR 7M	20155375	20155172	20155324
DOMUS ES SOLAR 9M	20155376	20155173	20155330
DOMUS ES SOLAR 12M	20155377	20155174	20155331
DOMUS ES SOLAR 15M	20155382	20155175	20155333
DOMUS ES SOLAR 12T	20155380	20155182	20155334
DOMUS ES SOLAR 15T	20155385	20155184	20155337

ACCESSORIES

Description	Notes	Code
Cock kit	(1)	20155924
50 litre inertial buffer tank		20171999
2-4-6 kW single-phase heating element kit	(2)	20155831
2-4-6 kW three-phase heating element kit	(2)	20157335
S hydraulic separator kit (includes secondary circulator)	(3)	20155826
L hydraulic separator kit (includes secondary circulator)	(4)	20155827
Average temperature circulator kit (towel warmers)		20155834
REC10CH locking kit and wall bracket		20161942
ACCESSORIES FOR HYBRID DISTRIBUTION MODULES		
Cock kit for BAG ³ HYBRID on system and heat pump side		20131752
ACCESSORIES FOR SOLAR THERMAL		
Solar collector probe kit	(5)	20008787
Manual solar degasser kit	(6)	20026577
Weld-in connection kit (includes: 2 weld-in connectors for connection to RPS 25/2 EVO and RPS 25/4		2042244.2
collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		20132142
Connection kit for stainless steel tube (includes: 2 connectors for connection to RPS 25/2 EVO and		
RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar		20132143
heater)		
15 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for		4383254
delivery and return, cable for solar probe and suitable insulation for solar applications)		
20 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for		4383255
delivery and return, cable for solar probe and suitable insulation for solar applications)		.505_55
5 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat		4383085
collectors)		
10 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat		4383059
collectors)		

- All accessories are supplied separately as kits and must be installed on site.
 (1) mandatory accessory to be ordered together with the unit. The kit includes domestic water inlet and outlet cocks , system and towel warmers, the discharge mandatory accessory to be ordered together with the unit. The kit includes domestic water inlet and outlet cocks, system and towel warmers, to tubes for safety valves, the collector for discharge and the necessary hardware.

 The power supplied by the heating element depends on the type of wiring performed during installation.

 Accessory that can be combined with Domus ES 5, 7 and 9 models. This ACCESSORY must be installed in the unit before connecting it to the system.

 The indoor unit already includes a panel probe.

 Use one for each set of manifolds fitted in the highest position.

- (2) (3) (4) (5) (6)

RICLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
18:8	Wi-Fi box		20111885
moon ®	RF-wireless boiler receiver		20117359

- Possibility of only ON/OFF connection on BAG3 HYBRID
- With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.

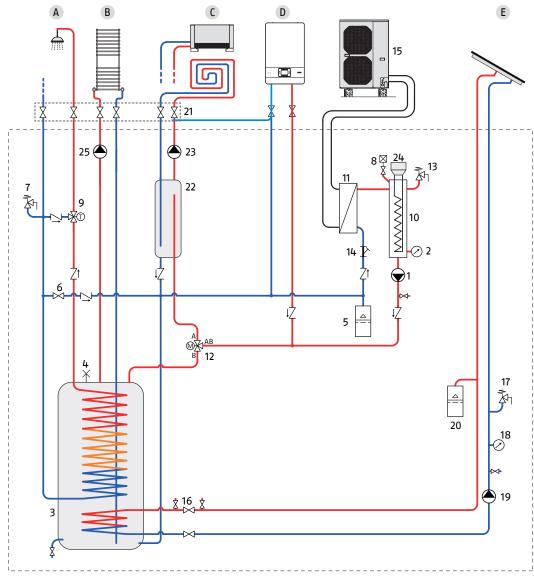
 For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

WATER-HEATERS

HYDRAULIC DIAGRAM

RIELLO

- The control of a possible external boiler is performed through two digital signals: one for enabling and one for management of a second setpoint in case of domestic water request.
- If a boiler presence is configured, it will only be used as an alternative (backup) to the heat pump.
- If the "integrative heating element" kit is configured, it can be set to operate as an integration or as an alternative to the heat pump.
- The connections to the average temperature circuit for towel warmers are always present, but to operate they require the
 "Towel warmer circulator kit" Accessory. This can be installed directly inside the unit where the power cable for the pump
 and the terminals to which the bathroom thermostats can be connected are already in place.
- The average temperature circuit for towel warmers is completely independent from the main system and can therefore be used even when the latter is off. The delivery temperature is equal to the temperature set for the domestic water buffer tank.
- The main system is managed through a digital enabling of a room thermostat. If more than one zone is to be managed, the
 various room thermostats must be placed in parallel and it is advisable to add the "Hydraulic separator kit" ACCESSORY to the
 standard equipment.
- Otherwise, it is possible to remotely connect the user interface of the indoor unit in the room, using it also as room thermostat. If more than one zone is to be managed, the BAG³ Hybrid must be added as a distribution system.



- A Domestic water users
- **B** Towel warmers
- C Main system users
- D Secondary generator (boiler)
- E Solar panel
- 1 Primary circulation pump (P1)
- 2 Pressure gauge
- 3 Domestic water buffer tank
- 4 Manual bleeder valve5 Expansion reservoir
- 5 Expansion reservoir6 System load valve
- 7 6-bar safety valve
- 8 Automatic drain valve

- 9 Thermostatic mixing valve
- 10 Manifold
- 11 Plate exchanger
- 12 3-way diverting valve
- 13 3-bar safety valve
- 14 Y-filter
- 15 Outdoor unit
- 16 Solar load valve
- 17 4-bar solar safety valve
- 18 Solar pressure gauge
- 19 Solar circuit pump (PSO)
- 20 Solar expansion reservoir
- 21 Cock kit *

- 22 Hydraulic separator **
- 23 Secondary circulation pump (P2) **
- 24 2/4/6 kW supplemental heating element ***
- 25 Towel warmer circulation pump (P3)
- Accessory cock kit
- ** Accessory hydraulic separator kit with secondary circuit circulator
- *** Accessory supplemental heating element

2021 FDITION

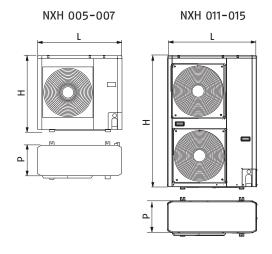
**** Accessory towel warmer circulator kit

Monobloc air-water heat pumps

NXH 005÷015









· High efficiency inverter heat pump

Description	H mm	L mm	P mm	Net weight kg
NXH 005	821	908	326	57
NXH 007	821	908	326	69
NXH 011	1363	908	326	115
NXH 015	1363	908	326	115

NXH is a high energy efficient residential hydronic heat pump for heating, cooling and possible production of domestic hot water for domestic use.

The unit is equipped with a PAM and PWM modulated DC-Inverter control, which allows the Twin-Rotary type compressor to be continuously modulated from 30% up to 120%, thereby guaranteeing high energy efficiency at all times.

NXH is also equipped with new Blue-Fin exchange coils, a special hydrophilic and anti-corrosion treatment, which improves the flow of condensation on the fins thus reducing the risk of freezing on the coil (maximum efficiency even in humid climates). The machine is also equipped with new electronics and a new FREE-DEFROST defrosting logic. NXH is available in 6 models, from 5.1 to 15.1 kW.

- DC-Inverter technology with Twin-Rotary compressor
- High COP and EER
- They can be connected to low-temperature radiators, underfloor radiant elements and fan coil type units
- Water heating temperature up to +60°C
- Easy and quick installation; small size
- New FREE-DEFROST defrosting logic

TECHNICAL DATA

Description	Heating				Cooling				Energy efficiency class	Code	
	Floor	r (1)	Fan co	ils (2)	Floor	r (3)	Fan co	ils (4)	V/Ph/Hz	(5)	
	Nominal power kW	СОР	Nominal power kW	СОР	Nominal power kW	EER	Nominal power kW	EER		1111	
MONOBLOC AIR - WATER	NEW										
NXH 005	5,10	4,40	4,85	3,40	4,85	4,35	4,00	3,10	230/1/50	A++	20161608
NXH 007	7,15	4,10	6,80	3,20	8,00	4,00	5,55	3,10	230/1/50	A++	20161610
NXH 011	11,25	4,70	11,30	3,60	13,70	4,60	11,20	3,40	230/1/50	A++	20161611
NXH 015	15,10	4,25	13,40	3,40	16,00	4,10	12,80	3,10	230/1/50	A++	20161612
NXH 011T	11,20	4,60	10,40	3,60	13,75	4,65	10,65	3,40	400/3/50	A++	20161613
NXH 015T	15,00	4,35	13,50	3,50	17,00	4,15	13,00	3,20	400/3/50	A++	20161614

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

- performance is in accordance with standard En 14511-312013 and refers to the following conditions:
 Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
 Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
 Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
 Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
 Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

ACCESSORIES

RIELLO

Description	Notes	Code
REC10CH remote control		20181191
Remote control HP<15 kW (WUI)	(1)	20171898
Solar heat exchanger 0.8 m² for 300 HP	(2)	4383504
Solar heat exchanger 1.2 m² for 500 HP	(2)	4383505
1" DHW diverting valve with heater probe	(3)(4(5)	20168920
7200 300 HP (NXH 005-007)		4383500
7200 500 HP (NXH 011-015)		4383501
Single-phase electric heating element for DHW heater 2.2 kW	(3)(6)(7)	20182272
1PH-3PH 2-6 kW supplemental electric heating element	(3)(6)	20182292
7000 Aci 60 Plus		20090056
7000 Aci 120 Plus		20082450
External air probe		20028567
50 litre inertial buffer tank		20171999
100 litre inertial buffer tank		20142300
Heat pump vibration damper kit		20171891
1" Y water filter		20175281
Heater single-phase heating element kit 1.5 kW for 300 HP and 7000 ACI PLUS	(2)(1)	4383270
Heater three-phase heating element kit 3.8 kW for 500 HP and 7000 ACI PLUS	(2)(1)	20020707

- For stand-alone installation.
 The accessory must be ordered together with the base unit and is supplied not installed with finished product availability.
 Only in combination with REC10CH remote control.
 Mandatory in case of domestic water heater installation.
 Includes 1 temperature probe for heater.
 Includes electrical power box and activation relay.
 The kit includes the three-way diverting valve for DHW with heater probe. (1) (2) (3) (4) (5) (6) (7)

RIELLO

Monobloc air-water heat pumps

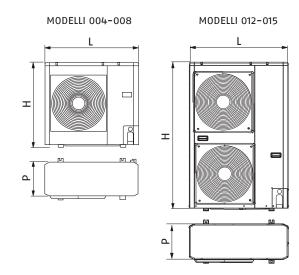
NexPolar 004÷015







· High efficiency inverter heat pump



Description	Н	L	Р
	mm	mm	mm
NexPolar 004-006-008	820	900	320
NexPolar 012-015	1360	900	320

NexPolar is the new Riello proposal for heating and cooling, with possible production of high energy efficient domestic hot water for domestic use. The unit is equipped with a PAM and PWM modulated DC-Inverter control, which allows the Twin-Rotary type compressor to be continuously modulated from 30% up to 120%, thereby guaranteeing

high energy efficiency at all times. The operating range of the unit in winter reaches outdoor temperatures of -20 °C, with hot water up to +60 °C; in summer operation the maximum outdoor temperature is +47 °C with a maximum chilled water temperature of +18 °C.

NexPolar is therefore the ideal proposal for any type of residential and commercial application for heating and cooling with underfloor installations and/or fan coils.

The unit is monobloc, so all components are housed inside to facilitate and speed up installation operations.

NexPolar is supplied with climate control as standard. NexPolar is available in nine models, from 4.1 to 15 kW.

- DC-Inverter technology with Twin-Rotary compressor
- Low inrush current thanks to the Inverter technology
- High COP and EER
- They can be connected to low-temperature radiators, underfloor heating elements and fan coil type units
- Remote control available as accessory to be ordered separately
- Water heating temperature up to +60°C
- Easy and quick installation; only connection of the hydraulic pipes is required
- Small size.

TECHNICAL DATA

RIELLO

Description		Hea	nting			Coc	ling		Electrical supply	Energy	Code
	Floo	or (1)	Fan co	oils (2)	Floo	or (3)	Fan co	oils (4)	V/Ph/Hz	efficiency class	
	Nom. power kW	СОР	Nom. power kW	СОР	Nom. power kW	EER	Nom. power kW	EER		° (5)	
NexPolar 004 ME	4,07	4,15	3,87	3,26	4,93	4,20	3,33	3,02	230/1/50	A++	20160833
NexPolar 006 ME	5,76	4,28	5,76	3,05	7,04	3,70	4,73	3,00	230/1/50	A++	20160834
NexPolar 008 ME	7,16	3,97	7,36	3,19	7,84	3,99	5,84	2,98	230/1/50	A+	20160835
NexPolar 012 ME	11,86	3,95	12,91	3,03	13,54	3,66	10,24	2,96	230/1/50	A+	20160836
NexPolar 015 ME	14,46	4,09	13,96	3,23	16,04	3,85	13,04	2,95	230/1/50	A++	20160837
NexPolar 012 TE	12,00	4,30	11,20	3,35	13,50	4,15	10,20	3,00	400/3/50	A++	20160838
NexPolar 015 TE	15,00	4,20	14,50	3,30	16,00	3,81	13,00	2,91	400/3/50	A++	20160839

- The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

 (1) Heating: delivery water temperature 35 °C with thermal gradient 5 K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.

 (2) Heating: delivery water temperature 45 °C with thermal gradient 5 K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.

 (3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C

 (4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C

 (5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature

ACCESSORIES

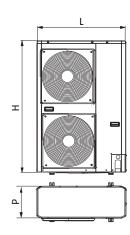
Description	Notes	Code
Remote control HP<15kW (SUI)		20171895
Remote control HP<15kW (NUI)		20171897
7000 ACI 60 PLUS		20090056
7000 ACI 120 PLUS		20082450
Heater single-phase heating element kit 1.5 kW for 7000 ACI PLUS	(1)	4383270
Heater three-phase heating element kit 3.8 kW for 7000 ACI PLUS	(1)	20020707
External air probe		20028567
50 litre inertial buffer tank		20171999
100 litre inertial buffer tank		20142300
Heat pump vibration damper kit		20171891
1" Y water filter		20175281

The ACCESSORY must be ordered together with the base unit and is supplied not installed with finished product availability.

Monobloc air-water heat pumps

NexPolar 017-022







· High efficiency inverter heat pump

Description	H	L	P
	mm	mm	mm
NexPolar 017-022	1579	1135	559

NexPolar is the new Riello proposal for heating and cooling, with possible production of high energy efficient domestic hot water for domestic use. The unit is equipped with a PAM and PWM modulated DC-Inverter control, which allows the Twin-Rotary type compressor to be continuously modulated from 30% up to 120%, thereby guaranteeing

high energy efficiency at all times. The operating range of the unit in winter reaches outdoor temperatures of -20 °C, with hot water up to +60 °C; in summer operation the maximum outdoor temperature is +47 °C with a maximum chilled water temperature of +18 °C.

NexPolar is therefore the ideal proposal for any type of residential and commercial application for heating and cooling with underfloor installations and/or fan coils.

The unit is monobloc, so all components are housed inside to facilitate and speed up installation operations.

NexPolar is supplied with climate control as standard. NexPolar is available in nine models, 17 and 21 kW.

- DC-Inverter technology with Twin-Rotary compressor
- Low inrush current thanks to the Inverter technology
- High COP and EER
- They can be connected to low-temperature radiators, underfloor heating elements and fan coil type units
- On-board control as standard
- Water heating temperature up to +60°C
- Easy and quick installation; only connection of the hydraulic pipes is required
- Small size.

TECHNICAL DATA

Description		Неа	ting			Coo	ling			Energy efficiency	Code
	Floo	Floor (1)		Fan coils (2)		Floor (3)		oils (4)	V/Ph/Hz	class •mm	
	Nom. power kW	COP	Nom. power kW	COP	Nom. power kW	EER	Nom. power kW	EER	-	° (5)	
NexPolar 017 TE	17,10	4,10	16,90	3,30	20,20	3,80	14,90	3,00	400/3/50	A+	20102834
NexPolar 022 TE	21,10	4,10	21,00	3,30	25,80	3,80	18,60	3,10	400/3/50	A+	20102838

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

- Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u. Heating: delivery water temperature 45 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u. Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature

ACCESSORIES

RIELLO

Description	Notes	Code
7000 ACI 60 PLUS		20090056
7000 ACI 120 PLUS		20082450
Support bracket kit		20175145
Heater single-phase heating element kit 1.5 kW for 7000 ACI PLUS	(1)	4383270
Heater three-phase heating element kit 3.8 kW for 7000 ACI PLUS	(1)	20020707
External air probe		20028567
Domestic water probe		20121637
Cascade probe		20121638
100 litre inertial buffer tank		20142300
Heat pump vibration damper kit		20171891
1" Y water filter		20175281

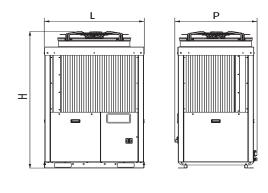
⁽¹⁾ The accessory must be ordered together with the base unit and is supplied not installed with finished product availability.

RIELLO

Monobloc air-water heat pumps

NXH 026÷040







• Air-water reversible heat pumps for powers from 31 kW to 39 kW with helical fan and hydronic kit as standard

Description	H	L	P
	mm	mm	mm
NXH 026÷040	1790	1002	824

The NXH series units are reversible heat pumps with pumping unit and self-adaptive control, which allows a reduction of the quantity of water in the system. These features, the wide operating range with outdoor temperatures down to -15°C in heating mode and up to +48°C in air conditioning mode, make this series ideal for applications where extreme compactness, simplicity and speed of installation are required.

The unit is silent thanks to the high efficiency scroll compressor and the low noise axial fan.

- CLASS A + efficiency
- Plug & Play solution with pump on board the machine
- Easy maintenance by removing the service panels
- Microprocessor-based self-adaptive control system.

TECHNICAL DATA

Description	Output (1) kW	COP (1)	Output (2) kW	COP (2)	Output (3) kW	EER (3)	Output (4) kW	EER (4)	ESEER (4)	Energy efficiency class	Notes	Code
										°(5)		
NXH 026	30,9	3,94	29,7	3,18	33,9	3,52	26,2	2,89	3,23	A+	(A)	20120387
NXH 033	34,4	3,95	33,1	3,17	42,8	3,83	32,2	3,11	3,46	A+	(A)	20120388
NXH 040	38,8	3,48	40,9	3,13	54	3,37	39,1	2,81	3,12	A+	(A)	20120389

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

- Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u. Heating: delivery water temperature 45 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u. Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C. Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C. Seasonal energy efficiency class for average climate zone for low temperature application.

Conditions for supply:
(A) For 7000 ACI PLUS tank accessories, refer to the dedicated section.

ERP

RIELLO

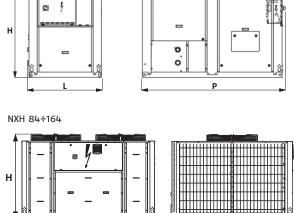
Monobloc air-water heat pumps

NXH 044÷164

NXH 44÷80









Description	H mm	L mm	P mm
NXH 044÷080	1440	1090	2109
NXH 084÷164	1440	2273	2136

^{*} Height without "Tank" option

• Silenced reversible air-water heat pump with helical fans from 43 kW to 162 kW, with ecological refrigerant R410A

The NXH series units are reversible heat pumps for heating and air conditioning of commercial users for outdoor installation, available with various options to choose from such as: one pump, two pumps, with or without tank, with or without partial

Maximum reliability and efficiency thanks to the high level of partialization: for powers up to 121 kW with two/three singlecircuit Scroll compressors, while for powers of 142 KW and 162 kW with four compressors divided into two circuits. The waterside exchanger is of the brazed plate type. The units are equipped with axial fans with external rotor with variable speed, to ensure operation with outdoor temperatures down to -10°C in heating mode and up to 48°C in air conditioning mode. Intuitive interface thanks to the touch screen control with possible M-BUS connection.

- CLASS A + efficiency
- Plug & Play solution with pump(s) on board the machine (optional)
- Low aesthetic impact thanks to the reduced height
- Easy maintenance by removing the service panels
- Air exchanger protection grille
- Touch screen control panel with possible M-BUS connection

TECHNICAL DATA

Description	Output (1) KW	COP (1)	Output (2) KW	COP (2)	Output (3) KW	EER (3)	Output (4) KW	EER (4)	ESEER	Energy efficiency class	Notes	Code
										° (5)		
SILENCED UNIT	WITH HYDRA	ULIC KIT	AND ONE P	JMP (NO	T FURTHER	CONFIGU	RABLE WITH	OPTION	LIST)			
NXH 044-1P	42	3,69	41	3,05	47	3,23	38	2,80	3,64	A+	(D)	20120428
NXH 048-1P	46	3,69	46	3,02	54	3,11	43	2,66	3,67	A+	(D)	20120429
NXH 056-1P	53	3,76	52	3,01	63	3,04	49	2,61	3,70	A+	(D)	20120430
NXH 064-1P	61	3,72	59	3,01	71	3,08	58	2,72	3,53	A+	(D)	20120431
NXH 072-1P	68	3,64	66	2,98	78	3,04	63	2,66	3,50	A+	(D)	20120432
NXH 080-1P	78	3,46	75	2,85	89	2,81	70	2,43	3,37	A+	(D)	20120433
SILENCED UNIT	WITHOUT HY	DRAULIC	KIT (FURTHI	ER CONFI	GURABLE W	ITH OPTI	ON LIST)					
NXH 044	42	3,69	41	3,05	47	3,23	38	2,80	3,64	A+	(D)	20120412
NXH 048	46	3,69	46	3,02	54	3,11	43	2,66	3,67	A+	(D)	20120413
NXH 056	53	3,76	52	3,01	63	3,04	49	2,61	3,70	A+	(D)	20120414
NXH 064	61	3,72	59	3,01	71	3,08	58	2,72	3,53	A+	(D)	20120415
NXH 072	68	3,64	66	2,98	78	3,04	63	2,66	3,50	A+	(D)	20120416
NXH 080	78	3,46	75	2,85	89	2,81	70	2,43	3,37	A+	(D)	20120418
NXH 084	82	3,78	79	3,11	97	3,14	77	2,75	3,83	A+	(D)	20120421
NXH 096	92	3,80	90	3,05	107	3,09	85	2,66	3,70		(D)(T)	20120422
NXH 104	100	3,76	97	3,06	117	3,05	95	2,66	3,76		(D)(T)	20120424
NXH 122	116	3,68	112	3,00	142	3,05	112	2,65	4,00		(D)(T)	20120425
NXH 142	135	3,61	130	2,95	162	3,12	131	2,73	3,65		(D)(T)	20120426
NXH 164	155	3,47	150	2,86	185	2,87	148	2,54	3,61		(D)(T)	20120427

The performance is in accordance with standard EN 14511–3:2013 and refers to the following conditions:

- Heating: delivery water temperature 35 °C with thermal gradient 5°C; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u. Heating: delivery water temperature 45 °C with thermal gradient 5°C; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u. Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; outdoor air temp. 35 °C. Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; outdoor air temp. 35 °C. Seasonal energy efficiency class for average climate zone for low temperature application. (1) (2) (3) (4) (5)

- Supply conditions:
 (D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.
 (T) Product not subject to standard transport rates. Please contact the Order Management Office for transport quote.

LIST OF OPTIONS

RIELLO

Description	044	048	056	064	072	080	Notes	
Partial recoverer	Code	20120633	20120633	20120633	20120633	20120638	20120639	(A)
Hydraulic kit with 1 high head pump	Code	20120597	20120597	20120597	20120597	20120597	20120597	(A)
Hydraulic kit with 2 high head pumps	Code	20120601	20120601	20120601	20120601	20120601	20120601	(A)
Hydraulic kit with 1 high head variable pump	Code	20120604	20120604	20120604	20120604	20120604	20120604	(A)
Hydraulic kit with 2 high head variable pumps	Code	20120607	20120607	20120607	20120607	20120607	20120607	(A)
Tank	Code	20120610	20120610	20120610	20120610	20120610	20120610	(A)
Soft starter	Code	20120656	20120656	20120656	20120656	20120656	20120656	(A)
Master/slave operation management	Code	20120659	20120659	20120659	20120659	20120659	20120659	(A)(B)
Vibration dampers	Code	20120640	20120640	20120640	20120640	20120640	20120640	(A)
Plus silenced version	Code	-	-	-	20129753	20129753	20129753	(A)

Description		084	096	104	122	142	164	Notes
Partial recoverer	Code	20120641	20120645	20120647	20120649	20120653	20120655	(A)
Hydraulic kit with 1 high head pump	Code	20120598	20120598	20120598	20120599	20120599	20120599	(A)
Hydraulic kit with 2 high head pumps	Code	20120602	20120602	20120602	20120603	20120603	20120603	(A)
Hydraulic kit with 1 high head variable pump	Code	20120605	20120605	20120605	20120606	20120606	20120606	(A)
Hydraulic kit with 2 high head variable pumps	Code	20120608	20120608	20120608	20120609	20120609	20120609	(A)
Tank	Code	20120610	20120611	20120611	20120611	20120611	20120611	(A)
Soft starter	Code	20120656	20120657	20120657	20120657	20120658	20120658	(A)
Master/slave operation management	Code	20120659	20120659	20120659	20120659	20120659	20120659	(A)(B)(C)
Vibration dampers	Code	20120642	20120642	20120642	20120642	20120642	20120642	(A)
Plus silenced version	Code	-	-	-	-	20129753	20129753	(A)

⁽A) The options in the list below can be selected for "Silenced unit without hydraulic kit" and must be configured during the order.
(B) One kit required per unit (cascade up to a maximum of two units).
(C) To be provided for every single unit.
NOTE: accessories have the same availability as the finished products.

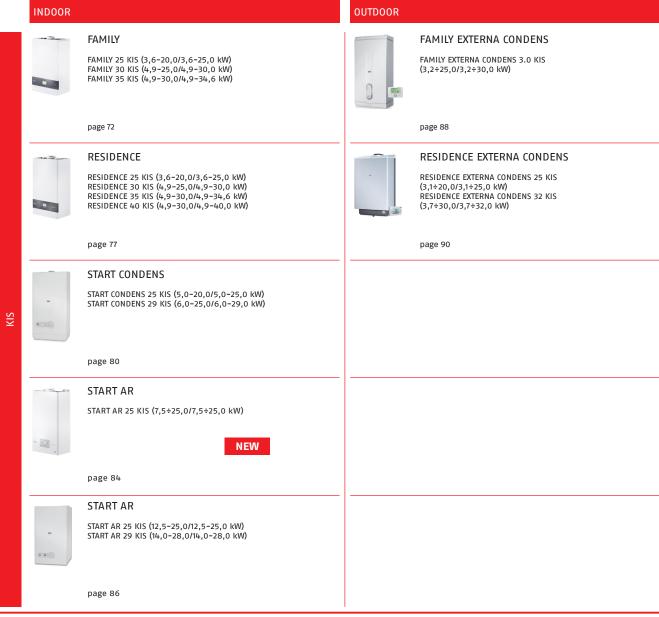


HEAT PUMPS

WALL-HUNG BOILERS	
CONDENSING WALL-HUNG BOILERS	70
STANDARD-EFFICIENCY WALL-HUNG BOILERS	93
SYSTEM COMPLEMENTARY ITEMS	101
STSTEM COMPLEMENTARY ITEMS	101
FLUE OPTIONS SYSTEM	105

CONDENSING WALL-HUNG BOILERS





Heating/Domestic Water heat output KIS: Combined, Heating and Instant DHW production

CONDENSING WALL-HUNG BOILERS



INDOOR



FAMILY

FAMILY 25 IS (3,6-20,0/3,6-25,0 kW) FAMILY 35 IS (4,9-30,0/4,9-34,6 kW)

page 72



RESIDENCE

RESIDENCE 20 IS (3,6-20,0/3,6-20,0 kW) RESIDENCE 35 IS (4,9-30,0/4,9-34,6 kW)

page 77



START CONDENS

START CONDENS 25 IS (5,0-20,0/5,0-25,0 kW)

page 80



FAMILY AQUA CONDENS

FAMILY AQUA CONDENS 3.5 BIS (3,5-35,0 kW)

page 75



START AQUA CONDENS

START AQUA CONDENS 25/45 BIS (6,0-25,0 kW) START AQUA CONDENS 25/60 BIS (6,0-25,0 kW)

page 82

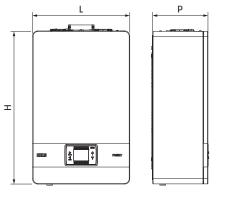
Heating/Domestic Water heat output IS: Heating only BIS: Combined, Heating and DHW production with boiler

2021 EDITION

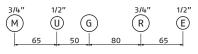


Wall-hung condensing boilers

Family







Description	H mm	L mm	P mm	Net weight kg
FAMILY 25 KIS	740	470	275	35
FAMILY 30 KIS	740	470	350	39
FAMILY 35 KIS	740	470	350	39
FAMILY 25 IS	740	470	275	35
FAMILY 35 IS	740	470	350	39

Overall height of the SRD device: 822 mm





- Stainless steel primary heat exchanger
- High performance domestic hot water heat exchanger
- Self-adaptive electronic combustion control
- Class 6 NOx
- Combi and heating only models, NG and LPG compatible

The new Family is the Riello solution for the most demanding user. The primary heat exchanger, made of stainless steel on the inside, provides maximum reliability and efficiency over time and the new optimised domestic hot water heat exchanger ensures exceptional comfort and the best energy efficiency class for this mode (class A).

The new Family comes with outputs of 25, 30 and 35 kW, in instantaneous combi or just heating versions.

- ACC adaptive electronic combustion control
- Range Rated type-approval
- Possibility of integration into hybrid systems using the integrated ModBus protocol
- new colour display panel that can also be installed on a wall with room unit function (ErP class: V)
- Smart system filling function
- 10 litre expansion tank
- Modulating circulator with high discharge head and low consumption
- Modulation ratio 8:1
- Flue gases flange as standard with dedicated flue system
- Check valve and SRD device as standard
- Thermoregulation as standard in combination with the outdoor temperature sensor, available as an accessory
- Possibility also of recessed installation (model 25 KIS) and outdoors in partially protected places (IPX5D)
- Assembly template, hydraulic connections, electric power cable and hole closure plug for remote interface provided
- Easy to install and a wide range of accessories



TECHNICAL DATA

PRODUCT CATALOGUE

Description	Heat input Heating/DHW	Useful efficiency		DHW production	Energy efficiency class		Notes	Code
	min – max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	l/min	1111			
COMBI HEATING AND INSTANTAN	IEOUS DOMESTIC HOT WATE	ER VERSION						
FAMILY 25 KIS	3,6-20,0/3,6-25,0	106,2	108,4	15,1	Α	А	(1)	20133714
FAMILY 30 KIS	4,9-25,0/4,9-30,0	106,0	108,1	18,1	Α	А	(1)	20142573
FAMILY 35 KIS	4,9-30,0/4,9-34,6	106,9	108,0	20,8	Α	Α	(1)	20133716
ONLY HEATING VERSION								
FAMILY 25 IS	3,6-20,0/3,6-25,0	106,2	108,4	_	Α	-	(1)	20133715
FAMILY 35 IS	4,9-30,0/4,9-34,6	106,9	108,0	-	Α	_	(1)	20133717

⁽¹⁾ The outdoor temperature sensor is not supplied as standard (code 1220559 available as an accessory)

ACCESSORIES

Description	Notes	Code
ELECTRICAL ACCESSORIES		
Kit for managing second pump or zone valves		20062614
Anti-freeze resistors kit for combi versions		20145304
Anti-freeze resistors kit for heating only versions		20145305
External probe		1220559
Immersion probe for remote storage cylinder (for heating only version)		1220599
FLUES AND INTAKE AIR		
Wall collector Ø60/100 mm		20129175
Telescopic wall collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Adaptor kit B23 Ø80 mm		20129769
90° boiler start bend kit Ø60/100 mm	(3)	20129172
Splitter device kit B23 Ø80 mm for in-wall installation box		20129768
Adjustable splitter device kit from Ø60/100 mm to Ø80/80 mm		20134830
Fixed splitter system kit Ø80 mm		20129765
Vertical connection manifold kit Ø60/100 mm	(2)	20129174
HYDRAULIC ACCESSORIES		
Condensate evacuation pump		20097192
Polyphosphates doser kit		20135496
Magnetic filter and polyphosphates doser kit		20135495
First zone management kit (MIX or DIR zone)	(4)	20132795
Additional zone management kit (MIX or DIR zone)	(4)(5)	20132796
Kit with system and gas taps for recessed installation (only model 25 KIS)		20137668
Solar diverter valve kit for instantaneous wall-hung combi boilers		20025113
MECHANICAL ACCESSORIES		
In-wall installation unit (only model 25 KIS)	(1)	20082310

(1) (2) (3) (4) (5) (*)

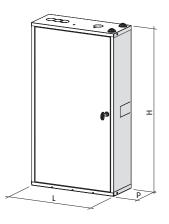
Unit supplied complete with door
Code necessary for vertical discharge with flue system Ø60/100. Accessory already included in the kit 20129177
Code necessary for horizontal discharge with flue system Ø60/100. Accessory already included in the kit 20129175 and 20129176
allows you to manage a MIX zone (pump + 3-point mixer valve) or DIR zone (only pump). Not necessary for BAG³ Hybrid
The first zone management kit should alloways be present. The boiler can manage up to a maximum of 3 zones in total.

Dedicated flue gases accessories, compatible with the Family flange. For further accessories for the flue gas exhaust system, see the section "Flue gas exhaust systems"

HYDRAULIC DISTRIBUTION MODULES

Description	Zone management	Notes	Code
BAG ³ HYBRID 1D	1 direct zone	(1)(2)	20130805
BAG ³ HYBRID 2D	2 direct zone	(1)(2)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	(1)(3)	20130807
IN-WALL INSTALLATION BOX		(4)	20130808

- Supplied without in-wall installation box
- Equipped as standard with limit thermostat for low temperature systems
 Mixed zone equipped as standard with limit thermostat for low temperature systems
- (1) (2) (3) (4) $In-wall\ installation\ box\ made\ of\ galvanised\ sheet\ metal\ that\ can\ be\ painted\ white;\ the\ box\ is\ compulsory\ for\ the\ installation\ of\ the\ BAG^3\ HYBRID\ installation\ of\ the\ installatio$



Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 1D	797	400	160	17
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

ACCESSORIES FOR BAG³ HYBRID

Description	
Taps kit for BAG³ HYBRID system side and heat pump	20131752
Remote control panel kit for additional zone	20124352

RICLOUD SMART REMOTE CONTROL

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
panal	RiCLOUD	(2)	20117399
958	Wi-Fi box		20111885
***************************************	RF-wireless boiler receiver		20117359

- Possibility of only ON/OFF connection on BAG³ HYBRID
- With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.

 For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.



1/2"

E

Condensing wall-hung boilers

Family Aqua Condens





- In conformity with Directive 2009/125/EC
- Low polluting emissions
- Condensing heat exchanger in aluminium, with premix burner
- Combi model with built-in 60-liters DHW tank in stainless steel

Description	H mm	L mm	P mm	Net weight kg
FAMILY AQUA CONDENS 3.5 BIS	1015	600	450	72

1/2"

(U)

(RC)

Family Aqua Condens is a wall-hung boiler that guarantees an excellent comfort in the DHW production thanks to a built-in 60-liters DHW storage tank in stainless steel. The Riello heat exchanger, manufactured 100% aluminium, ensures high efficiency and long life, while reducing polluting emissions to a minimum.

Family Aqua Condens is available with outputs from 3.5 to 35 kW.

- Modulating ratio 1:10 (minimum output of 3.5 kW) which allows the boiler to meet all heating requirements
- "Range Rated" certification which allows adapting the rated output of the boiler to the thermal requirements of the installation
- High efficiency circulator (EEI ≤ 0,20)
- Remote alarm which allows the reporting of the boiler lockout status
- Special Family functions: Comfort Button, Memory Button, Touch&Go Function, Smart semi-automatic Filling System
- Boilers are equipped with: mounting template, hydraulic connections, wiring and LPG conversion kit.
- External probe supplied as standard.

Description	Heat input Heating/DHW	Useful efficiency Tank Fue capacity	Fuel	- 03	efficiency	Code		
	min - max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	I		·M	~	
ROOM-SEALED - HEATING AND DHW PF	RODUCTION							
FAMILY AQUA CONDENS 3.5 BIS	3,5-35,0	105,5	108,0	60,0	NG	Α	Α	20021509

RIELLO

Description	Code
CONTROL DEVICES	·
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
ELECTRICAL ACCESSORIES	
Family Remote Control (RECO6) (with electronic interface board)	20165771
Interface board ITRF11	20164477
Remote alarm kit	20165627
Room sensor kit	20163783
Zone valves management kit	20165142
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Condensate evacuation pump	20097192
DHW recirculation kit (Aqua model)	4047994
MECHANICAL ACCESSORIES	
Hydraulic connection cover	4047505
Mounting template kit	4047440

RICLOUD SMART REMOTE CONTROL

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
MELA SECTION AND ASSESSMENT OF THE PROPERTY OF	RiCLOUD	(2)	20117399
958	Wi-Fi box		20111885
***************************************	RF-wireless boiler receiver		20117359

- Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. Wi-Fi box included to connect to the home Wi-Fi.

 Compatible with RF connection to the Wi-Fi box, cod. 20111885 (accessory not included, necessary to connect to the home Wi-Fi). (*) (1) (2)

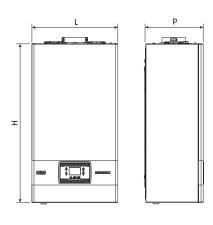
Wall-hung condensing boilers

Residence

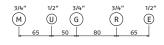




- Stainless steel primary heat exchanger
- Self-adaptive electronic combustion control
- Class 6 N0x
- Combi and heating only models, NG and LPG compatible



M-FLOW U-DHW OUTLET G-GAS R-RETURN E-DHW INLET



Description	H mm	L mm	P mm	Net weight kg
RESIDENCE 25 KIS	740	420	275	35
RESIDENCE 30 KIS	740	420	350	37
RESIDENCE 35 KIS	740	420	350	37
RESIDENCE 40 KIS	740	420	350	40
RESIDENCE 20 IS	740	420	275	34
RESIDENCE 35 IS	740	420	350	36

Overall height of the SRD device: 822 mm

Residence is the Riello wall-hung condensing boiler that is ideal as a replacement and for new installations. The primary heat exchanger, which is made of stainless steel on the inside and with front access to the combustion chamber, provides maximum efficiency and reliability over time.

Residence comes with outputs of 20, 25, 30, 35 and 40 kW, in instantaneous combi or heating only versions.

- ACC adaptive electronic combustion control
- Range Rated type-approval
- New simple and intuitive digital control panel with backlit display
- Low consumption modulating circulator
- Modulation ratio 8:1
- Flue gases flange as standard with dedicated flue system
- Check valve and SRD device as standard
- Thermoregulation as standard in combination with the outdoor temperature sensor, available as an accessory
- Possibility also of recessed installation (model 25 KIS) and outdoors in partially protected places (IPX5D)
- Easy to install and a wide range of accessories
- Integrated management of up to 2 direct or mixed circuits (with BAG3 HYBRID accessories or zone management kit)









COMBUSTION CONTROL







TECHNICAL DATA

RIELLO

Description	Heat input Useful efficiency Heating/DHW pi		DHW Energy efficiency production class			Notes	Code	
	min-max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	ΔT 25° I/min	1111	4		
COMBI HEATING AND INSTANTANEOUS DOMESTIC HOT WATER VERSION								
RESIDENCE 25 KIS	3,6-20,0/3,6-25,0	106,2	108,4	15,1	Α	А	(1)	20139525
RESIDENCE 30 KIS	4,9-25,0/4,9-30,0	106,0	1,801	18,1	Α	Α	(1)	20148496
RESIDENCE 35 KIS	4,9-30,0/4,9-34,6	106,9	108,2	20,8	Α	Α	(1)	20139527
RESIDENCE 40 KIS	4,9-30,0/4,9-40,0	106,9	108,2	24,1	Α	Α	(1)	20139530
ONLY HEATING VERSION								
RESIDENCE 20 IS	3,6-20,0/3,6-20,0	106,2	108,4	-	Α	-	(1)	20139526
RESIDENCE 35 IS	4,9-30,0/4,9-34,6	106,9	108,2	-	Α	-	(1)	20139528

The outdoor temperature sensor is not supplied as standard (code 1220559 available as an accessory)

ACCESSORIES

Description	Notes	Code
ELECTRICAL ACCESSORIES		
Kit for managing second pump or zone valves		20062614
Anti-freeze resistors kit for combi versions		20145304
Anti-freeze resistors kit for heating only versions		20145305
External probe		1220559
Immersion probe for remote storage cylinder (for heating only version)		1220599
FLUES AND INTAKE AIR		
Wall collector Ø60/100 mm		20129175
Telescopic wall collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Adaptor kit B23 Ø80 mm		20129769
90° boiler start bend kit Ø60/100 mm		20129172
Splitter device kit B23 Ø80 mm for in-wall installation box		20129768
Adjustable splitter device kit from Ø60/100 mm to Ø80/80 mm		20134830
Fixed splitter system kit Ø80 mm		20129765
Vertical connection manifold kit Ø60/100 mm	(2)	20129174
HYDRAULIC ACCESSORIES		
Condensate evacuation pump	(3)	20097192
High head circulator		20105883
Polyphosphates doser kit		20135496
Magnetic filter and polyphosphates doser kit		20135495
First zone management kit (MIX or DIR zone)	(4)	20132795
Additional zone management kit (MIX or DIR zone)	(4)(5)	20132796
Connections kit with heating system and gas taps (for IS models)		20133517
Connections kit with heating system, domestic hot water and gas taps (for IS models)		20133516
Connections kit with domestic hot water and gas taps (for KIS models)		20132005
Connections kit with gas tap (for IS models)		20133386
Kit with system and gas taps for recessed installation (only model 25 KIS)		20137668
Solar diverter valve kit for instantaneous wall-hung combi boilers		20025113
MECHANICAL ACCESSORIES		
In-wall installation unit (only model 25 KIS)	(1)	20082310

Code necessary for vertical discharge with flue system ø60/100. Accessory already included in the kit 20129177
Code necessary for horizontal discharge with flue system ø60/100. Accessory already included in the kit 20129175 and 20129176
allows you to manage a MIX zone (pump + 3-point mixer valve) or DIR zone (only pump). Not necessary for BAG³ HYBRID
The first zone management kit should always be present. The boiler can manage up to a maximum of 2 zones in total.

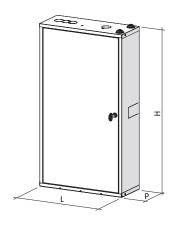
Dedicated flue gases accessories, compatible with the Residence flange. For further accessories for the flue gas exhaust system, see the section "Flue gas exhaust systems" in the Catalogue

HYDRAULIC DISTRIBUTION MODULES

PRODUCT CATALOGUE

Description	Zone management	Notes	Code
BAG ³ HYBRID 1D	1 direct zone	(1)(2)	20130805
BAG ³ HYBRID 2D	2 direct zone	(1)(2)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	(1)(3)	20130807
IN-WALL INSTALLATION BOX		(4)	20130808

- Supplied without in-wall installation box
- (1) (2) (3) (4) Equipped as standard with limit thermostat for low temperature systems
 Mixed zone equipped as standard with limit thermostat for low temperature systems
- In-wall installation box made of galvanised sheet metal that can be painted white; the box is compulsory for the installation of the BAG³ HYBRID



Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 1D	797	400	160	17
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

ACCESSORIES FOR BAG³ HYBRID

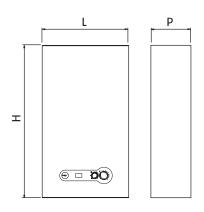
Description	Code
Taps kit for BAG³ HYBRID system side and heat pump	20131752

RICLOUD SMART REMOTE CONTROL

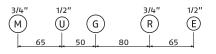
Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
D MAN TRAPE &	RiCLOUD	(2)	20117399
18.8	Wi-Fi box		20111885
**************************************	RF-wireless boiler receiver		20117359

- Possibility of only 0N/0FF connection on BAG³ HYBRID
 With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.
 For the 0TBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

Condensing wall-hung boilers



M-FLOW U-DHW OUTLET G-GAS R-RETURN



Description	H mm	L mm	P mm	Net weight kg
START CONDENS 25 KIS	715	405	248	27
START CONDENS 29 KIS	715	405	248	28
START CONDENS 25 IS	715	405	248	26

Start Condens



- In conformity with Directive 2009/125/EC
- Low polluting emissions
- Condensing boiler with aluminum heat exchanger and premix burner
- · Only heating and combi models for indoor applications

Start Condens is the new wall-hung condensing boiler for small and mid-sized residential users. The new condensing aluminum heat exchanger allows to reach high efficiency and to reduce polluting emissions. Available with 25 and 29 kW outputs.

- High efficiency circulator (EEI \leq 0,20)
- Pre-heating function: if activated by the user, allows to reduce the waiting period for sanitary water
- Thermoregulation control supplied as standard fitted with the external probe (as optional)
- Arranged system for the use of natural gas, which can be converted to LPG through the specific kit (optional), to be mounted by the technical assistance
- Hydraulic fittings and cover as optionals

Description	Heat input Heating/DHW	Useful efficiency		DHW production	Fuel		efficiency ass	Code
	min-max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	∆T 25° I/min			Ç	
ROOM SEALED - HEATING AND DHW PRODUCTION								
START CONDENS 25 KIS	5,0-20,0/5,0-25,0	104,2	108,9	14,3	NG	Α	Α	20114905
START CONDENS 29 KIS	6,0-25,0/6,0-29,0	104,9	108,4	16,6	NG	А	А	20114907
ROOM SEALED - HEATING ONLY								
START CONDENS 25 IS	5,0-20,0/5,0-25,0	104,2	108,9	-	NG	Α	-	20114910

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit for 25 IS model	20083270
LPG conversion kit for 29 KIS model	20113798
ELECTRICAL ACCESSORIES	
External probe	1220559
Zone valves management kit	20000785
HYDRAULIC ACCESSORIES	·
Central heating taps	4047476
Central heating taps with filter	4047475
Condensate evacuation pump	20097192
High head circulator	20105883
Hydraulic connections kit	20051979
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113
SAFETY ACCESSORIES	
Limit thermostat for low temperature installations	1220639
MECHANICAL ACCESSORIES	
Hydraulic fittings cover	20012594
Mounting template kit (10 pieces)	20017311

RICLOUD SMART REMOTE CONTROL

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
MILIO MARIA	RiCLOUD	(2)	20117399
958	Wi-Fi box		20111885
man e	RF-wireless boiler receiver		20117359

- Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. Wi-Fi box included to connect to the home Wi-Fi.

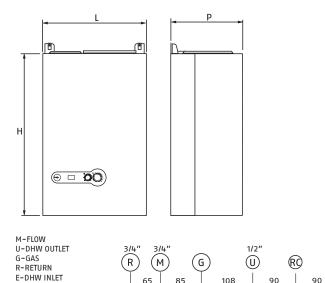
 Compatible with RF connection to the Wi-Fi box, cod. 20111885 (accessory not included, necessary to connect to the home Wi-Fi).

(E)



Condensing wall-hung boilers

Start Aqua Condens



Description	H mm	L mm	P mm	Net weight kg
START AQUA CONDENS 25/45 BIS	940	600	450	66
START AQUA CONDENS 25/60 BIS	940	600	450	70

REID SOUTH



- In conformity with Directive 2009/125/EC
- Low polluting emissions
- Condensing aluminum heat exchanger and premix burner
- Combi model with 45 or 60 liters stainless steel DHW tank

Start Aqua Condens is a condensing wall-hung boiler featuring a 45 or 60 liters stainless steel DHW tank. The Riello heat exchanger, aluminum made, guarantees efficiency, durability, high head and polluting emissions reduction. Start Aqua Condens is available with 25 kW output.

- High efficiency circulator (EEI ≤ 0,20)
- Thermoregulation control supplied as standard fitted with the external probe (as optional)
- Arranged system for the use of natural gas, which can be converted to LPG through the specific kit (spare-part optional), to be mounted by the technical assistance

Description	Heat input Heating/DHW				Fuel	Energy efficiency class		Code
	min-max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	production ΔT 25° I/min		900	7	
ROOM SEALED - HEATING AND DHW PRODUCTION WITH TANK								
START AQUA CONDENS 25/45 BIS	6,0-25,0	105,0	107,1	14,3	NG	Α	А	20142452

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit	20002606
ELECTRICAL ACCESSORIES	
External probe	1220559
Zone valves management kit	20000785
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Condensate evacuation pump	20097192
DHW recirculation kit (Aqua model)	4047994
High head pump kit	20105879
MECHANICAL ACCESSORIES	
Hydraulic connection cover	4047505
Mounting template kit	4047440

RICLOUD SMART REMOTE CONTROL

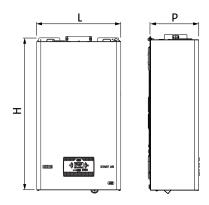
Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
1800 1 1800 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

- Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. Wi-Fi box included to connect to the home Wi-Fi.
- (*) (1) (2) Compatible with RF connection to the Wi-Fi box, cod. 20111885 (accessory not included, necessary to connect to the home Wi-Fi).

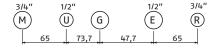
Wall-hung condensing boilers

Start AR









Description	H	L	P	Net weight
	mm	mm	mm	kg
START AR 25 KIS	715	405	250	33







- In conformity with Directive 2009/125/CE
- Combi models
- Low N0x emissions
- Innovative post heat-exchanger in stainless steel material

New START AR is the condensing boiler designed specifically to operate with high temperature systems and therefore with radiator systems. Furhermore improved in terms of performances it's available with 25 kW outputs with low NOx emissions < 56 mg/kWh.

- New digital interface
- Very compact dimensions
- Innovative gas-air combustion systemDIN hydraulic connection
- Cooled burner
- Low consumption circulator (IEE \leq 0.20)
- Climatic adjustment managed directly from the control box
- Fixing crossbar, electrical power cable supplied as standard
 Hydraulic connection available as accessories
 Electric protection level IPX5D

ΤΕCΗΝΙζΔΙ ΠΔΤΔ

TECHNICAL DATA							
Description	Heat input Usef Heating/DHW		fficiency	DHW production	Fuel	Energy efficiency class	Code
	min-max kW	Pn (80°/60 °C) %	30% Pn (return 30 °C) %	ΔT 25° I/min		111 7	
VERSION WITH GAS-TIGHT CHAMBER AND FORCED DRAUGHT-HEATING AND PRODUCTION OF BOILER DOMESTIC HOT WATER							
START AR 25 KIS	7,5÷25,0/7,5÷25,0	95,8	101,4	14,3	NG	В А	20171062
START AR 25 KIS	7,5÷25,0/7,5÷25,0	95,8	101,4	14,3	LPG	В А	20176940

Description	Notes	Code
HYDRAULIC ACCESSORIES		
Hydraulic connections kit		20114510
Central heating taps		4047476
Central heating taps with filter		4047475
Connections kit with heating system, domestic hot water and gas taps		20133516
Connections kit with domestic hot water and gas taps		20132005
Magnetic filter and polyphosphates doser kit		20135495
Polyphosphates doser kit		20135496
Condensate evacuation pump		20097192
Ultra high head pump (7 metres)		20178827
Solar diverter valve kit for instant wall-hung combined boilers		20035644
ELECTRICAL ACCESSORIES		
External probe		1220559
Frost protection kit		20183138
MECHANICAL ACCESSORIES		
Hydraulic fittings cover		20012594
Upper cover		20012595
LPG transformation kit		20182988
In-wall box	(1)	20082309
FLUES AND INTAKE AIR (*)		
Adjustable splitter device kit from Ø60/100 mm to Ø80/80 mm		20134830
Wall collector Ø60/100 mm		20129175
Telescopic wall collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Vertical connection manifold kit Ø60/100 mm	(2)	20129174
90° boiler start bend kit Ø60/100 mm	(3)	20129172
Adaptor kit B23 Ø80 mm		20129769

- Unit supplied complete with door.
- Code necessary for vertical discharge with flue system ø60/100. Accessory already included in the kit 20129177.
- (1) (2) (3) **(*)** Code necessary for horizontal discharge with flue system Ø60/100. Accessory already included in the kit 20129175 and 20129176.

 Dedicated flue gases accessories, compatible with the Start AR flange. For further accessories for the flue gas exhaust system, see the section "Flue gas exhaust systems" in the Catalogue.

RICLOUD SMART REMOTE CONTROL

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
100 100 100 100 100 100 100 100 100 100	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

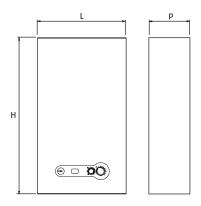
- Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode.
- (*) (1) (2)
- Wi-Fi box included to connect to the home Wi-Fi.
 Compatible with RF connection to the Wi-Fi box, cod. 20111885 (accessory not included, necessary to connect to the home Wi-Fi).

COMPLEMENTARY

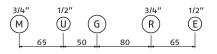


Wall-hung condensing boilers

Start AR



M-FLOW U-DHW OUTLET G-GAS R-RETURN E-DHW INLET



Description	H mm	L mm	P mm	Net weight kg
START AR 25 KIS	780	400	332	37
START AR 29 KIS	780	400	332	38



- In conformity with Directive 2009/125/EC
- Combi models
- Low N0x emissions

Start AR is the condensing boiler designed specifically to operate with high temperatures and therefore with radiator systems. It is available with 25 and 29 kW outputs with low NOx emissions <56 mg/kWh.

- Cooled burner
- Low consumption circulator (IEE≤0.20)
- Climatic adjustment managed directly from the boiler control box Assembly crossbar, electrical power cable supplied
- Hydraulic connections available as an accessory
- Electric protection level IPX5D
- LPG conversion kit (as optional)

Description	Heat input	Useful e	fficiency	DHW	Fuel	Energy effi	ciency class	Code
	Heating/DHW min-max kW	Pn (80°/60 °C) %	30% Pn (return 30 °C) %	production ∆T 25° I/min		1111	~	
VERSION WITH GAS-TIGHT CHAME	VERSION WITH GAS-TIGHT CHAMBER AND FORCED DRAUGHT-HEATING AND PRODUCTION OF BOILER DOMESTIC HOT WATER							
START AR 25 KIS	12,5-25,0/12,5-25,0	95,4	100,6	14,3	NG	В	А	20151671
START AR 25 KIS	12,5-25,0/12,5-25,0	95,4	100,6	14,3	LPG	В	А	20151785
START AR 29 KIS	14,0-28,0/14,0-28,0	95,8	100,6	16,1	NG	В	А	20151818

Description	Code
ELECTRICAL ACCESSORIES	
External probe	1220559
Kit for managing second pump or zone valves	20062614
Condensate boiler-syphon anti-freeze resistors kit	20164830
Tray anti-freeze resistors kit	20164831
FUEL ACCESSORIES	
Start AR 25/29 KIS LPG conversion kit	20157499
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Condensate evacuation pump	20097192
High head pump kit	20105879
Polyphosphates doser kit	20135496
Magnetic filter and polyphosphates doser kit	20135495
Hydraulic connections kit	20114510
Condensation neutralisation tray kit	20102924
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113
MECHANICAL ACCESSORIES	
Lower cover kit (not to be used when using the condensation tray kit)	20116879
Outdoor upper cover kit (partially protected place)	20105784

RICLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

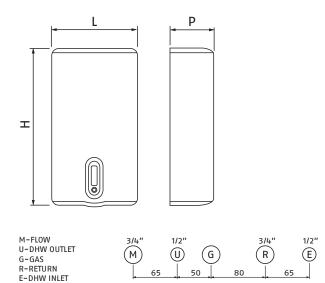
Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
100 mm	RICLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

Possibility of connecting via OTBus or in ON/OFF
With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem
For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

2021 EDITION

Wall-hung condensing boilers

Family Externa Condens



Description	H mm	L mm	P mm	Net weight kg
FAMILY EXTERNA CONDENS 3.0 KIS	1002	475	311	50





- Compliant with Directive 2009/125/EC
- Low polluting emissions
- Aluminium condensing, with premixed burner
- · Combined models for outdoor open-air installation

Family Externa Condens is a wall-hung outdoor boiler that can be installed in open air. The new primary heat exchanger fully made of aluminium with front accessibility to the combustion chamber ensures better efficiency and durability. It is available with output from 3.2 to 30 kW.

- 1:10 modulation ratio (minimum output 3.2 kW) that allows the boiler to respond to all heat requests
- Modulating circulator, low consumption (IEE \leq 0.20)
- Family Remote Control, supplied as standard, allows management of all boiler functions directly from inside the house
- Anti-freeze down to -15°C
- Alarm remote system that allows remote signalling of the boiler block status
- Family special functions: Well-being Button, Memory Button, Touch&Go Function, Intelligent system refilling
- External probe as standard
- IPX5D electrical protection level

Description	Heat input Heating/DHW	Useful efficiency		DHW production	Fuel	Energy efficiency class		Code
	min-max kW	Pn (50°/30°C) %	30% Pn (return 30°C) %	ΔT 25° I/min		100	7	
VERSION WITH SEALED CHAMBER AND FORCED DRAUGHT-HEATING AND DOMESTIC HOT WATER PRODUCTION								
FAMILY EXTERNA CONDENS 3.0 KIS	3,2÷25,0/3,2÷30,0	106,8	109,6	17,2	NG	А	А	20102940
FAMILY EXTERNA CONDENS 3.0 KIS	4,5÷25,0/4,5÷30,0	104,8	107,5	17,2	LPG	Α	A	20104000

	20165142
	4047475
	4047476
	4047255
	20097192
	20163783
	20035644
	20165627
(1)	20164477
	(1)

⁽¹⁾ Necessary in case of installation of Family Externa Condens in combination with BAG³ MIX CLIMA and BAG³ 2 MIX CLIMA: it manages high and low temperature zones according to the boiler delivery temperature.

Wall-hung condensing boilers

Residence Externa Condens





- Compliant with Directive 2009/125/EC
- Low polluting emissions
- Aluminium condensing, with premixed burner
- Heating-only models and combined models for outdoor installation

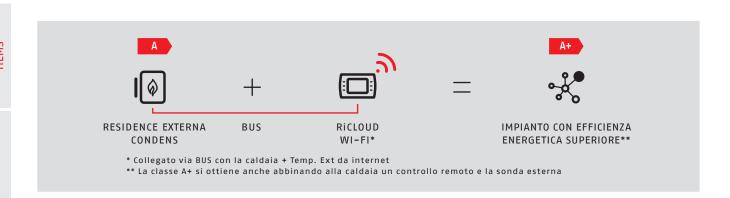
I D	P
M-FLOW U-DHW OUTLET G-GAS R-RETURN E-DHW INLET	3/4" 1/2" 3/4" 1/2" M U R E G

Description	H mm	L mm	P mm	Net weight kg
RESIDENCE EXTERNA CONDENS 25 KIS	785	553	275	44
RESIDENCE EXTERNA CONDENS 32 KIS	785	553	275	46

Residence Externa Condens is specially designed for outdoor installation in a partially protected place.

The new primary heat exchanger fully made of aluminium with front accessibility to the combustion chamber ensures better efficiency and durability. Residence Externa Condens is available with output from 25 to 32 kW.

- Remote control panel supplied as standard
- 1:8 modulation ratio that allows the boiler to respond to all heat requests
- Self-modulating circulator, low consumption (IEE≤0.20)
- Anti-freeze function that protects the heating and domestic water circuits down to -5 °C with the possibility of extending the protection down to -15 °C (optional)
- "Winter with Pre-heating" function: allows you to keep the domestic water exchanger at the right temperature, reducing the waiting time during extraction (instantaneous combined models)
- Possible "open air" installation by means of the special sealed kit (optional)
 Thermoregulation as standard in the board in combination with the external probe (optional)
- Assembling template, hydraulic connection and power cable included
- IPX5D electrical protection level



TECHNICAL DATA

Description	Heat input Heating/DHW min-max kW	Useful efficiency Pn (50°/30°C) (return 30°C) %		DHW production ΔT 25° I/min	Fuel		ergy cy class	Code
VERSION WITH SEALED CHAMBER AND FORCE	ED DRAUGHT-HEATING A	AND DOMESTI	C HOT WATER	PRODUCTION				
RESIDENCE EXTERNA CONDENS 25 KIS	3,1÷20,0/3,1÷25,0	105,0	109,6	14,3	NG	А	А	20096734
RESIDENCE EXTERNA CONDENS 32 KIS	3,7÷30,0/3,7÷32,0	104,7	109,5	18,3	NG	Α	Α	20096735

ACCESSORIES

Description	Code
Heating system tap kit	4047252
Antifreeze heater kit KIS version	20164827
Antifreeze heater kit IS version	20164828
Open-air installation kit	20011638
External probe	1220559
Condensate evacuation pump	20097192
Kit for managing second pump or zone valves	20062614
Immersion probe for remote storage cylinder (for heating only version)	1220599
Solar diverter valve kit for instant wall-hung combined boilers	20035644
LPG conversion kit Residence Externa Condens 25 KIS-20 IS	20102669
LPG conversion kit Residence Externa Condens 32 KIS	20102674
Propane air transformation kit Residence Externa Condens 25 KIS	20102673
Caplet kit	20162838

RICLOUD SMART REMOTE CONTROL

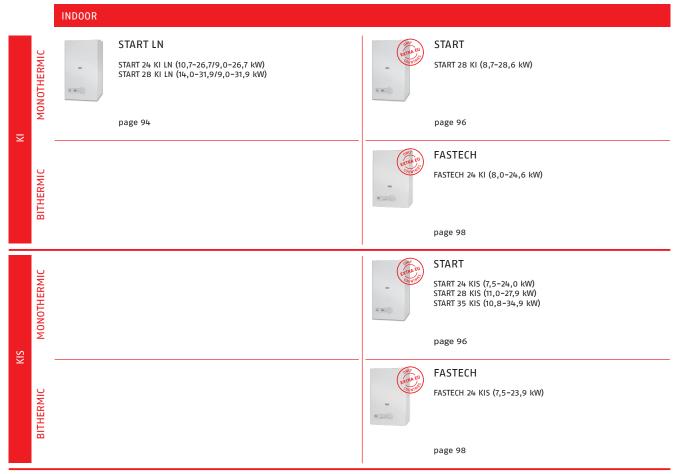
RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
NO.	RiCLOUD	(2)	20117399
18:8	Wi-Fi box		20111885
acon (6)	RF-wireless boiler receiver		20117359

Possibility of connecting via OTBus or in ON/OFF
With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem
For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

STANDARD-EFFICIENCY WALL-HUNG BOILERS



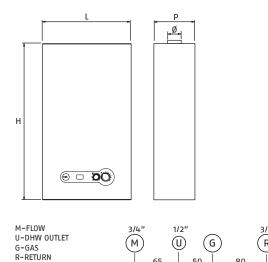


- Combi: Heating and DHW Production conventional flue Combi: Heating and DHW Production room sealed
- KIS
- * The distinguish between EU and Extra EU Countries is based only on the enforcement of the Ecodesign Regulation. The conformity to any other national Regulation must be confirmed.

COMPLEMENTARY

Standard wall-hung boilers

Start LN



Description	H mm	L mm	P mm	ø mm	Net weight kg
START 24 KI LN	740	400	332	130	30
START 28 KI LN	740	450	332	140	32



- Open chamber
- Combi model
- Only for replacement on CCR
- Low N0x emissions

Start LN has a simple modern that is ideal for heating and the production of domestic hot water in small and medium size households. Start LN is available with 24 and 28 kW outputs with low NOx emissions <56 mg/kWh.

E-DHW INLET

- Double heat exchanger: domestic hot water production with plate heat exchanger to minimise the formation of limescale
- CTR system for a rapid attainment of the desired comfort and a reduction in consumption, and temperature changes in the heating bodies
- 8 litre expansion tank
- Low consumption circulator (IEE≤0.20)
- Anti-freeze function that protects the heating and domestic hot water circuits down to 0 $^{\circ}$ C
- Thermoregulation as standard in boiler board in combination with the outdoor temperature sensor (optional)
- Can interface with the Remote Control Panel
- Hydraulic connections available as an accessory kit
- Operation with methane as standard with the possibility of conversion to LPG (G31), this modification is done by the installer or the technical assistance centre
- Electric protection level IPX5D

Description	Heat input Useful efficiency Heating/DHW		DHW production		Energy efficiency class		Code	
	min-max kW	Pn (80°/60 °C) %	30% Pn (rit. 50 °C) %	∆T 25° I/min		·M	~	
VERSION WITH OPEN CHAMBER-HEAT	ING AND PRODUCTION OF	BOILER DOM	ESTIC HOT WA	TER				
START 24 KI LN	10,7-26,7/9,0-26,7	90,1	89,2	13,8	NG	С	В	20151434
START 28 KI LN	14,0-31,9/9,0-31,9	90,5	89,5	16,6	NG	С	В	20151435

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit for Start 24 KI LN model	20155079
LPG conversion kit for Start 28 KI LN model	20155101
ELECTRICAL ACCESSORIES	
External probe	1220559
Kit for managing second pump or zone valves	20062614
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
High head pump kit	20105879
Polyphosphates doser kit	20135496
Magnetic filter and polyphosphates doser kit	20135495
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113
Top hydraulic fittings kit	20008795

RICLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

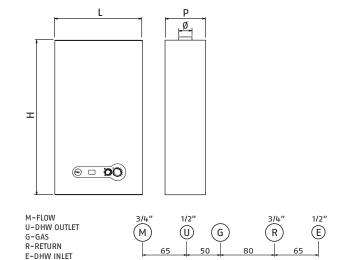
Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
MILES (Q.Q.a)	RiCLOUD	(2)	20117399
958	Wi-Fi box		20111885
E	RF-wireless boiler receiver		20117359

Possibility of connecting via OTBus or in ON/OFF
With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem
For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

Standard efficiency wall-hung boilers

Start





- Conventional flue and room-sealed models
- Models: heating-only and combi
- Digital display

Description	H mm	L mm	P mm	Ø mm	Net weight kg
START 24 KIS	715	405	248	-	31
START 28 KIS	740	400	328	-	33
START 35 KIS	780	505	328	-	42
START 28 KI	740	450	328	140	30

The Start range features a modern and functional design completed by a digital screen including essential information. The stylish casing, the compact size and special finishing details allows its installation into any setting.

The new Start is available both conventional flue and room sealed with 24, 28 and 35 kW output with heating only or heating and DHW production models.

- Double-heat exchanger (CH and DHW stainless steel plate heat-exchangers)
- CTR system to achieve faster desired comfort and reduce fuel consumption
- Frost protection function which protects the heating and DHW circuits down to -3 °C, with the possibility of extending protection down to -10 °C (as optional)
- Thermoregulation control supplied as standard fitted with the external probe (as optional).

Description	0utput 80°/60° min – max kW	Efficiency Pn (80°/60°) %	Efficiency Pn 30% (47 °C return) %	DHW production (∆t 25°) I/min	Fuel	Code
ROOM-SEALED - HEATING AN	D DHW PRODUCTION					
START 24 KIS	7,5-24,0	92,8	91,8	13,7	NG	20122798
START 28 KIS	11,0-27,9	93,0	91,9	16,0	NG	20122801
START 35 KIS	10,8-34,9	92,9	92,5	20,0	NG	20122802
CONVENTIONAL FLUE - HEATING AND DHW PRODUCTION						
START 28 KI	8,7-28,6	92,4	89,4	16,4	NG	20122800

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit (for START 24 KIS)	20015586
ELECTRICAL ACCESSORIES	
External probe	1220559
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113

RICLOUD SMART REMOTE CONTROL

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
NO.O C	RICLOUD	(2)	20117399
18:8	Wi-Fi box		20111885
MAGE W	RF-wireless boiler receiver		20117359

- Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. Wi-Fi box included to connect to the home Wi-Fi.

 Compatible with RF connection to the Wi-Fi box, cod. 20111885 (accessory not included, necessary to connect to the home Wi-Fi).

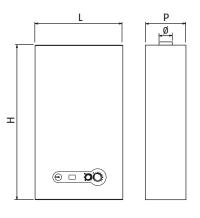
Standard efficiency wall-hung boilers

Fastech

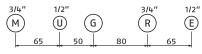








M-FLOW U-DHW OUTLET G-GAS R-RETURN E-DHW INLET



Description	H mm	L mm	P mm	ø mm	Net weight kg
FASTECH 24 KI	740	400	332	130	30
FASTECH 24 KIS	715	405	248	-	28

Fastech is the new wall-hung boiler dedicated to new housing. Featuring a modern and essential design, Fastech satisfies the heating and DHW demand of small and mid-sized houses. Fastech is available with 24 kW output.

- High-efficiency, bithermic copper heat-exchanger
- The CTR system allows to reach faster the desidered temperature and to reduce consumption, limestone production inside the boiler and thermic variations in the heating terminals
- 8 liters expansion vessel
- Frost protection of the heating and sanitary circuits
- Thermoregulation control supplied as standard fitted with the external probe (as optional)
- Remote Control Panel to be interfaced
- IPX5D electrical protection rating
- Arranged system for the use of natural gas, which can be converted to LPG through the specific kit (optional), to be mounted by the technical assistance

TECHNICAL DATA						
Description	0utput 80°/60° min – max kW	Efficiency Pn (80°/60°) %	Efficiency P30% %	DHW production (At 25°) I/min	Fuel	Code
CONVENTIONAL FLUE - HEATING	AND DHW PRODUCTION					
FASTECH 24 KI	8,0-24,6	92,0	90,8	14,1	NG	20122804
ROOM SEALED - HEATING AND I	DHW PRODUCTION					
FASTECH 24 KIS	7,5-23,9	92,8	91,8	13,7	NG	20122807

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit (for FASTECH 24 KI)	20015587
LPG conversion kit (for FASTECH 24 KIS)	20015586
ELECTRICAL ACCESSORIES	
External probe	1220559
Zone valves management kit	20000785
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113
Top hydraulic fittings kit	20008795
MECHANICAL ACCESSORIES	
Hydraulic fittings cover	20012594
Mounting template kit for 24 KIS model (10 pcs)	20017311

RICLOUD SMART REMOTE CONTROL

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
1000	RiCLOUD	(2)	20117399
18:8° 0	Wi-Fi box		20111885
ACAD CONTRACTOR OF THE PARTY OF	RF-wireless boiler receiver		20117359

- Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. Wi-Fi box included to connect to the home Wi-Fi.
- (*) (1) (2)
- Compatible with RF connection to the Wi-Fi box, cod. 20111885 (accessory not included, necessary to connect to the home Wi-Fi).

HEAT PUMPS

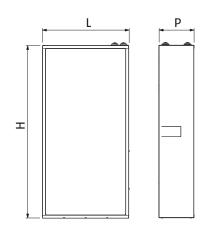
SYSTEM COMPLEMENTARY ITEMS



System complementary items

Bag³ Hybrid







- · Manageable via Modbus by boilers and heat pumps with REC10 control panel
- · Setting of independent climatic curves for each
- Motorized mixing valves on mix zone
- Low-consumption self-modulating circulators

Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 1D	797	400	160	8,8
BAG ³ HYBRID 2D	797	400	160	11,2
BAG ³ HYBRID 1D+1M	797	400	160	12,4
BUILT-IN BOX	797	400	160	8,0

The distribution BAG3 is a specific accessory designed for hybrid systems intended for pairing with wall-hung and floor-standing boilers with versions for recessed or outdoor installation (IPX5D electrical protection).

- External housing that groups all components in galvanised sheet metal, for recessed or wall-hung installation
- Distribution collector (mixture bottle)
- Low-consumption self-modulating circulators
- Motorized mixing valve on the mixed zone
- Setting of independent climatic curves for each zone
- To be paired with REC10 H hybrid system control
- Possible connection of zone thermostats

With BAG³ the hybrid systems can be expanded with the addition of:

- single coil domestic hot water heater for pre-heating by the heat pump
- solar thermal collectors, solar circulation pump and electronic kit for solar thermal management
- interface with photovoltaic system to favour the use of the electrical source
- double coil domestic hot water heater for pre-heating by a solar thermal system and the heat pump.

TECHNICAL DATA

Description	Notes	Code
OUTDOOR RECESSED VERSIONS		
BAG ³ HYBRID 1D	(1)	20130805
BAG ³ HYBRID 2D	(1)	20130806
BAG ³ HYBRID 1D+1M	(1)(2)	20130807
BOX DA INCASSO		20130808

To install the module, it is necessary to purchase the built-in BOX code 20130808.
(1) Refer to the hybrid system section of the catalogue for compatible boiler pairing.

Limit thermostat on mixed zone only.

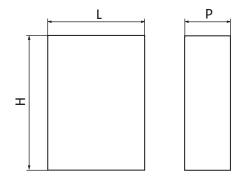
ACCESSORIES

Description	Code
Cock kit for BAG ³ HYBRID on system and heat pump side	20131752

System complementary items

Bag³







- Hydraulic separator
- Low-energy circulators

Description	H mm	L mm	P mm	Net weight kg
BAG ³ AP - BAG ³ 2 AP - BAG ³ 3 AP	720	400	160	10, 12, 14
BAG ³ MIX BASIC - BAG ³ MIX CLIMA	720	400	160	16
BAG³ 2 MIX BASIC - BAG³ 2 MIX CLIMA	720	400	160	17
BAG ³ MIX FAMILY COND	616	440	160	16
IN-WALL INSTALLATION BOX	720	400	160	6

BAG hydraulic separator is an accessory to be matched with wall-hung and floor-standing boilers that can be installed outdoor or in a in-wall place.

- BAG³ for high-flow rate direct circuit (1, 2 or 3 zones) works as a hydraulic separator between boiler and high-flow rate circuits. Equipped with self modulating energy-efficient circulators.
- BAG3 MIX and BAG3 2 MIX for high-flow rate direct and mixed circuits, work as hydraulic separators between boiler and double or triple temperature circuits. Equipped with self modulating energy-efficient circulators.
- BAG³ MIX Family Condens for direct and mixed circuit: mixing valve and mixed circuit pump are controlled by the electronic board supplied as standard, that can be located inside the boiler.
- Energy-efficient circulators
- Suitable for in-wall and outdoor installation
- Galvanized sheet that can be white painted
- $BAG^{\scriptscriptstyle 3}$ and $BAG^{\scriptscriptstyle 3}$ M are supplied as standard with limit thermostat for low temperature circuits.

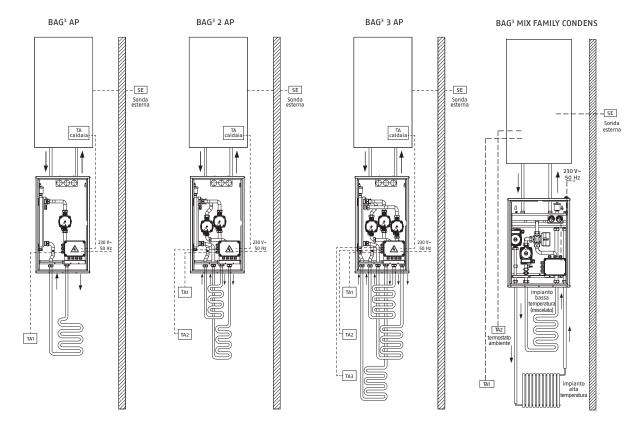
Description	Notes	Code
VERSION FOR OUTDOOR IN-WALL INSTALLATION	,	
BAG ³ AP	(1)	20082277
BAG ³ 2 AP	(1)	20082280
BAG³ 3 AP	(1)	20082282
BAG ³ MIX BASIC	(1)	20082286
BAG ³ MIX CLIMA	(1)	20082283
BAG ³ 2 MIX BASIC	(1)	20082288
BAG ³ 2 MIX CLIMA	(1)	20082284
BAG ³ MIX FAMILY CONDENS	(2)	20102824
IN-WALL INSTALLATION BOX		20007305

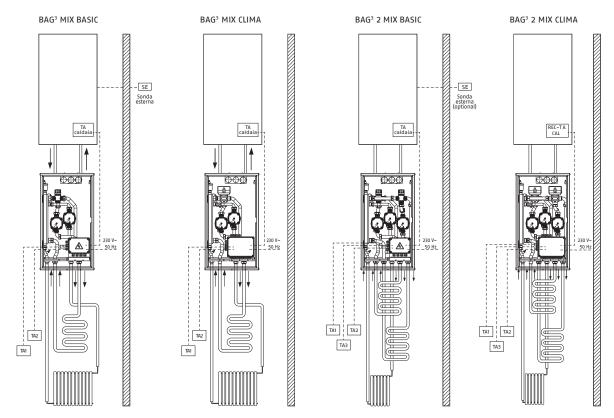
- Supplied without in-wall installation box
- Supplied with in-wall installation box

RIELLO

Description	Notes	Code
Interface board ITRF11	(1)	20164477
Insulation kit for in-wall installation box		20085456

(1) It is necessary in case of installation of BAG³ MIX CLIMA (20082283 code) and BAG3 2 MIX CLIMA (20082284 code) with Family Aqua Condens, Family Externa Condens and Family In Condens to manage high and low temperature circuits according to the boiler flow temperature.





HEAT PUMPS

FLUE OPTIONS SYSTEM



2021 EDITION

METAL Ø80 mm TWIN FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material	Family Aqua Condens	Start Condens	Start Aqua Condens	Start AR	Notes	Code
<u> </u>	Ø80 mm twin system kit	Met	•	•	•	•	(1)(3)	1221099
	Flue adapter Ø80 mm with air inlet	Met	•		•		(1)(3)	1221089
	45° Ø80 mm bend	Met	•	•	•	•	(1)(3)	1221059
	90° Ø80 mm bend	Met	•	•	•	•	(1)(3)	1221049
	Extension 50 cm Ø80 mm	Met	•	•	•	•	(1)(3)	1221019
	Extension 100 cm Ø80 mm	Met	•	•	•	•	(1)(3)	1221029
	Horizontal flue terminal Ø80 mm	Met	•	•	•	•	(1)(3)	1221009
	Spacers for pipe Ø80 mm	Met	•	•	•	•		20137532
	Ø80 mm inspection extension	Met	•	•	•	•	(1)(3)	1221079
	90° bend with inspection door Ø80 mm	Met	•	•	•	•	(1)(3)	20162297

⁽¹⁾ P1 pressure level according to EN 1443
(3) Until stocks are exhausted

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line lenght

PLASTIC Ø80 mm TWIN FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material		s					Notes	Code
		(*)		onden			ndens			
				odna C	e C	ndens	ua Cor			
			Family	Family Aqua Condens	Residence	Start Condens	Start Aqua Condens	Start AR		
	Adjustable splitter device kit from Ø60/100 mm to Ø80/-80 mm	PP	•	ш.	•	S	S	S	(2)	20134830
9	Fixed twin system Ø80 mm kit	PP	•		•				(2)	20129765
	Splitter device kit B23 Ø80 mm for in-wall installation box	PP	•		•				(2)	20129768
9 9	Twin system Ø80 mm kit Start Condens	PP	•		•	•			(2)	20137501
<u>-</u> 🗏	Ø80 mm twin system kit	PP		•				•	(2)	20137523
	Flue gas exhaust kit B23 Ø80 mm	PP	•		•				(2)	20129769
	45° Ø80 mm bend	PP	•	•	•	•	•	•	(2)	20137503
	90° Ø80 mm bend	PP	•	•	•	•	•	•	(2)	20137506
	Extension 50 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	20137508
	Extension 100 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	20137509
	Extension 200 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	20137511
	Horizontal flue collector Ø80 mm	PP	•	•	•	•	•	•	(2)	20137517
	Horizontal air inlet collector Ø80 mm	PP	•	•	•	•	•	•	(2)	20137515
	Ø80 mm clapet with condensate trap	PP	•	•	•	•	•	•	(2)	20044862

^(*) PP material: colour may change over time because of sun's rays exposure
(2) H1 pressure level according to EN 1443
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght

PP/Met Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS

					_	_		
Drawing	Description	Material (*)	Family Aqua Condens	Start Condens	Start Aqua Condens	Start AR	Notes	Code
	45° Ø60/100 mm concentric bend	PP/Met	•	•	•	•	(1)(3)	1220729
	90° Ø60/100 mm concentric bend	PP/Met	•	•	•	•	(1)(3)	1220709
	Concentric extension 50 cm, Ø60/100 mm	PP/Met	•	•	•	•	(1)(3)	1220699
	Concentric extension 100 cm, Ø60/100 mm	PP/Met	•	•	•	•	(1)(3)	1220689
	Concentric extension 200 cm, Ø60/100 mm	PP/Met	•	•	•	•	(1)(3)	1220789
	Ø60/100 mm horizontal flue terminal	PP/Met	•	•	•	•	(1)(3)	1220769
	Ø60/100 mm vertical flue terminal	PP/Met	•	•	•	•	(1)(3)	1220779
D	Rear flue terminal Ø60/100 mm	PP/Met		•	•		(1)(3)	20043073
	Ø60/100 mm inspection extension	PP/Met	•	•	•	•	(1)(3)	20142835
	90° bend with inspection door Ø60/100 mm	PP/Met	•	•	•	•	(1)(3)	20142828
五	Flat roof tile	Nylon	•	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•	•		20132050

^(*) PP material: colour may change over time because of sun's rays exposure
(1) P1 pressure level according to EN 1443
(3) Until stocks are exhausted
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght

PP/PP Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material							Notes	Code
		(*)		Family Aqua Condens			dens			
				lua Co	Ф	dens	a Con			
			- Ai	ily Aq	Residence	Start Condens	Start Aqua Condens	Start AR		
			Family	Fan	Res	Stai	Stai	Stai		
	45° Ø60/100 mm concentric bend	PP/PP	•	•	•	•	•	•	(2)	20132012
	90° boiler start bend kit Ø60/100 mm	PP/PP	•		•				(2)	20129172
	90° Ø60/100 mm concentric bend	PP/PP		•		•	•	•	(2)	20132013
	Concentric extension 50 cm, Ø60/100 mm	PP/PP	•	•	•	•	•	•	(2)	20132043
	Concentric extension 100 cm, Ø60/100 mm	PP/PP	•	•	•	•	•	•	(2)	20132044
	Concentric extension 200 cm, Ø60/100 mm	PP/PP	•	•	•	•	•	•	(2)	20132045
01 30	Wall collector Ø60/100 mm	PP/PP	•		•				(2)	20129175
	Telescopic wall collector Ø60/100 mm	PP/PP	•		•				(2)	20129176
	Ø60/100 mm horizontal flue terminal	PP/PP		•		•	•	•	(2)	20132018
	Vertical collector Ø60/100 mm	PP/PP	•		•				(2)	20129177
	Ø60/100 mm vertical flue terminal – Ø125 mm external straight pipe	PP/PP		•		•	•	•	(2)	20132020
	Vertical connection Ø60/100 mm	PP/PP	•		•				(2)	20129174
	Ø60/100 mm inspection extension	PP/PP	•	•	•	•	•	•	(2)	20132015
Д	Flat roof tile	Nylon	•	•	•	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•	•	•	•		20132050

^(*) PP material: colour may change over time because of sun's rays exposure
(2) H1 pressure level according to EN 1443
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght

PP/Met Ø80/125 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material							Notes	Code
		(*)		dens			ens			
				a Con	*	sus	Cond			
			*	Aqui	nce (onde	dna (~		
			Family (**)	Family Aqua Condens	Residence (**)	Start Condens	Start Aqua Condens	Start AR		
	45° Ø80/125 mm concentric bend	PP/Met	•	•	•	•	•	•	(2)	20164651
	87° Ø80/125 mm concentric bend	PP/Met	•	•	•	•	•	•	(2)	20164653
	Concentric extension 50 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	(2)	20164657
	Concentric extension 100 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	(2)	20164659
	Concentric extension 200 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	(2)	20164660
	87° concentric bend with inspection door Ø80/125 mm	PP/Met	•	•	•	•	•	•	(2)	20164655
	Concentric extension with inspection door Ø80/125 mm	PP/Met	•	•	•	•	•	•	(2)	20164661
	Ø80/125 mm vertical flue terminal	PP/Met	•	•	•	•	•	•	(2)	4047982
	Ø80/125 mm horizontal flue terminal	PP/Met	•	•	•	•	•	•	(2)	20164673
$\bigcirc\!$	Spacers Ø80–125 mm (5 pcs)	Met	•	•	•	•	•	•		20164665
	Flue adapter from Ø60/100 mm to 80/125 mm	PP/Met	•	•	•	•	•	•	(2)	20164666
	Flue adapter from Ø60/100 mm to Ø80/125 mm	PP/Met	•	•	•	•	•	•	(2)	1220679
	Ø80/125 mm clapet with condensate trap	PP/Met	•	•	•	•	•	•	(2)	20044868
Д	Flat roof tile	Nylon	•	•	•	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•	•	•	•		20132050

^(*) PP material: colour may change over time because of sun's rays exposure
(**) 60/100 boiler connection kit (cod. 20129174) and 60/100 to 80/125 adapter (cod. 20164666) are mandatory
(2) H1 pressure level according to EN 1443
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght



PLASTIC (PP) \emptyset 80 mm flue range for inside-chimney installation, specific for condensing boilers

Drawing	Description	Material		ns			S		Notes	Code
		(*)	Family	Family Aqua Condens	Residence	Start Condens	Start Aqua Condens	Start AR		
	45° Ø80 mm bend	PP	•	•	•	•	•	•	(2)	20164570
	90° Ø80 mm bend	PP	•	•	•	•	•	•	(2)	20164572
	Extension 50 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	20164574
	Extension 100 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	20164577
	Extension 200 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	20164578
	Ø80/125 mm chimney adapter	PP	•	•	•	•	•	•	(2)	20132520
	T connection Ø60 mm	PP	•	•	•	•	•	•	(2)	20164584
	Ø60/80 mm adapter	PP	•	•	•	•	•	•	(2)	20164585
	Chimney support kit Ø80 mm	PP	•	•	•	•	•	•	(2)	20132504
	Pipe spacers	PP	•	•	•	•	•	•		20132505
	Ø80 mm inspection extension	PP	•	•	•	•	•	•	(2)	20132506
	Ø80 mm roof tile	PP	•	•	•	•	•	•	(2)	20132508
	Ø80 mm flexible extension (12,5m) with 8 spacers	PP	•	•	•	•	•	•	(2)	20132509
	Rigid/flexible connection Ø80 mm M	PP	•	•	•	•	•	•	(2)	20132510
	Flexible/rigid connection Ø80 mm F	PP	•	•	•	•	•	•	(2)	20132512
	Syphon kit	PP	•	•	•	•	•	•		20046782
	T connection Ø80 mm	PP	•	•	•	•	•	•	(1)	20163018
E	Condensate trap cap for T-connection Ø80 mm	PP	•	•	•	•	•	•	(1)	20163019
	Shelf support kit for condensate trap	Met	•	•	•	•	•	•		20145888

RIELLO PRODUCT CATALOGUE

Drawing	Description	Material (*)	Family	Family Aqua Condens	Residence	Start Condens	Start Aqua Condens	Start AR	Notes	Code
	Flue cover panel kit		•	•	•	•	•	•		20145889

(*) PP material: colour may change over time because of sun's rays exposure
(1) P1 pressure level according to EN 1443
(2) H1 pressure level according to EN 1443
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght

PLASTIC (PP) Ø60 mm FLUE RANGE FOR INSIDE-CHIMNEY INSTALLATION, SPECIFIC FOR CONDENSING **BOILERS**

Drawing	Description	Material		10					Notes	Code
Jiawiiig	Description	(*)	Family	Family Aqua Condens	Residence	Start Condens	Start Aqua Condens	Start AR	Notes	Code
	45° Ø60 mm bend	PP	•	•	•	•	•	•	(2)	20145877
	90° Ø60 mm bend	PP	•	•	•	•	•	•	(2)	20145876
	Extension 50 cm Ø60 mm	PP	•	•	•	•	•	•	(2)	20145879
	Extension 100 cm Ø60 mm	PP	•	•	•	•	•	•	(2)	20145882
	Extension 200 cm Ø60 mm	PP	•	•	•	•	•	•	(2)	20145883
	Ø60/100 mm vertical flue terminal - Ø100 mm external straight pipe	PP/PP	•	•	•	•	•	•	(2)	20145884
	3 spacers kit for inside-chimney Ø60 mm	PP	•	•	•	•	•	•		20145886
	Shelf support kit for inside-chimney	PP	•	•	•	•	•	•		20145888
	Chimney front cover kit	PP	•	•	•	•	•	•		20145889
	5 hose clamps kit Ø60 mm	PP	•	•	•	•	•	•		20145890
	Chimney connection kit Ø80-60 mm with bend 90° Ø60 mm	PP	•	•	•	•	•	•	(2)	20145892
	T-connection Ø60 mm with condensate trap	PP	•	•	•	•	•	•	(2)	20145894
	Syphon kit	PP	•	•	•	•	•	•		20046782
	Flue reduction kit 80-60 mm	PP	•	•	•	•	•	•	(2)	20145897

(*) PP material: colour may change over time because of sun's rays exposure
(2) H1 pressure level according to EN 1443
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght



METAL Ø80 mm TWIN FLUE SYSTEM SPECIFIC FOR STANDARD-EFFICIENCY BOILERS

Drawing	Description	Material			_	Notes	Code
			Family	Start	Fastech		
	Ø80 mm twin system kit	Met	•	•		(1)(3) (5)	1220409
	Ø80 mm twin system kit	Met	•	•	•	(1)(4)	20006963
	Air box twin system kit	Met	•	•	•	(1)	1220329
	45° bend Ø80 mm with gasket	Met	•	•	•	(1)	20162295
	90° bend Ø80 mm with gasket	Met	•	•	•	(1)	1220079
	Ø80 mm extension 100 cm with gasket	Met	•	•	•	(1)	1220269
	Ø80 mm extension 50 cm with gasket	Met	•	•	•	(1)	1220149
	Ø80 mm extension 14,7 cm with gasket	Met	•	•	•	(1)	1220249
	Ø80 mm extension 195 cm with gasket	Met	•	•	•	(1)	1220229
	Air intake collector	Met	•	•	•	(1)	1220109
	Flue collector horizontal	Met	•	•	•	(1)	1220119
	Spacers for Ø80 mm pipe (10 pcs)	Met	•	•	•		20137532
	Ø80 mm condensate trap horizontal	Met	•	•	•	(1)	1220039
	Ø80 mm condensate trap vertical	Met	•	•	•	(1)	1220049
	Ø80 mm pipes terminal	Met	•	•	•	(1)	20162443
	90° bend with inspection door Ø80 mm (Slovenia)	Met	•	•	•	(1)	20162297

P1 pressure level according to EN 1443

(1) P1 pressure level according to EN 1443
(2) H1 pressure level according to EN 1443
(3) For Start 28 KIS model
(4) For Start 24 KIS model, Start 24 KI LN model
(5) For 35 KIS model
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght



MET/MET Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR STANDARD-EFFICIENCY BOILERS

Drawing	Description	Material	Family	ť	Fastech	Notes	Code
	Ø60-100 mm vertical flue terminal – Ø125 mm external straight pipe	Met/Met		• Start	Fas	(1)	1220059
	Standard collector horizontal	Met/Met	•	•	•	(1)	1220069
	Telescopic collector horizontal extensible from 43 to 73,5 cm	Met/Met	•	•	•	(1)	1220299
8	Concentric extension Ø60-100 mm (75 cm)	Met/Met	•	•	•	(1)	1220129
8	Concentric extension Ø60-100 mm (147 cm)	Met/Met	•	•	•	(1)	1220259
	90° bend Ø60–100 mm	Met/Met	•	•	•	(1)	1220099
	90° bend kit Ø60–100 mm for installation replacement	Met			•	(1)	20006596
	45° bend Ø60-100	Met/Met	•	•	•	(1)	1220089
	Ø60-100 mm condensate trap vertical	Met/Met	•	•	•	(1)	1220029
	Ø60-100 mm condensate trap horizontal	Met/Met	•	•	•	(1)	1220019
	Clip kit H 45 mm with gasket Ø100 mm (4 pcs)		•	•	•		1220239
0	Pipe spacers Ø100 mm (4 pcs)	Met	•	•	•		20135584
	Ø60-100 mm telescopic extension (from 165 to 220 mm)	Met/Met	•	•	•	(1)	20163396
	Ø60-100 mm 90° bend with inspection door	Met/Met	•	•	•	(1)	20163390
	Connection clip kit boiler-flue Ø60-100 mm		•	•	•		1220279
Д	Flat roof tile	Nylon	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•		20132050
	Pipe spacers Ø100 mm (4 pcs) Ø60-100 mm telescopic extension (from 165 to 220 mm) Ø60-100 mm 90° bend with inspection door Connection clip kit boiler-flue Ø60-100 mm Flat roof tile	Met/Met Met/Met	•	•	•		20135584 20163396 20163390 1220279 20135579

(1) P1 pressure level according to EN 1443
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght



MET/PP Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR STANDARD-EFFICIENCY BOILERS

Drawing	Description	Material	Family	Start	Fastech	Notes	Code
	45° Ø60–100 mm concentric bend in Met/PPu	Met/PP	•	•	•	(1)	20066986
	90° Ø60-100 mm concentric bend in Met/PPu	Met/PP	•	•	•	(1)	20066988
	90° Ø60-100 mm concentric bend in Met/PPu - for boiler connection	Met/PP	•	•	•	(1)	20066989
	Concentric extension M-F Ø60-100 mm in Met/PPu (500 mm)	Met/PP	•	•	•	(1)	20066992
	Concentric extension M-F Ø60-100 mm in Met/PPu (1000 mm)	Met/PP	•	•	•	(1)	20066993
	Concentric extension M-F Ø60-100 mm in Met/PPu (2000 mm)	Met/PP	•	•	•	(1)	20066996
	Ø60-100 mm vertical flue terminal; Ø125 mm external straight pipe	Met/PP	•	•	•	(1)	20066999
	Ø60-100 mm concentric horizontal flue terminal in Met/PPu	Met/PP	•	•	•	(1)	20067000
	Ø60-100 mm telescopic horizontal flue terminal in Met/PPu (extensible from 500 mm to 800 mm)	Met/PP	•	•	•	(1)	20067001
Д	Flat roof tile	Nylon	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•		20132050

(1) P1 pressure level according to EN 1443
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght



HEAT PUMPS

FLOOR-STANDING BOILERS	<u> </u>
FLOOR-STANDING CONDENSING BOILERS	121

125

FLOOR-STANDING STANDARD EFFICIENCY BOILERS

HEAT PUMPS

RIELLO

FLOOR-STANDING CONDENSING BOILERS



STEEL OIL BOILERS

ONLY HEATNG



INSIEME EVO COND

INSIEME EVO COND 20 V LN (20 kW) INSIEME EVO COND 25 V LN (25 kW) INSIEME EVO COND 35 V LN (34,9 kW)

NEW

page 122



INSIEME EVO COND

INSIEME EVO COND 25 B/130 LN (25 kW) INSIEME EVO COND 35 B/130 LN (34,9 kW)

NEW

page 122

2021 EDITION

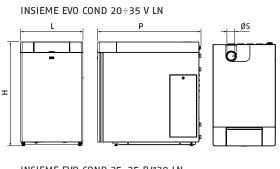
Steel floor-standing oil condensing boilers

Insieme Evo Cond





- In conformity with Directive 2009/125/EC
- · Steel boilers with oil burner for heating and for the production of domestic hot water
- Low NOx version class 3 according to EN 267





Description	H mm	L mm	P mm	ØA (*) mm	ØS mm	Net weight kg
Insieme EVO COND 20 V LN	1000	600	994	80	80	120
Insieme EVO COND 25 V LN	1000	600	994	80	80	120
Insieme EVO COND 35 V LN	1000	600	994	80	80	150
Insieme EVO COND 25 B/130 LN	1540	600	975	80	80	150
Insieme EVO COND 35 B/130 LN	1540	600	975	80	80	195

(*) Type C transformation kit as optional.

Oil condensing thermal group equipped with single stage burner for heat outputs up to 45 kW, dual stage for 55,70 kW models

The stainless steel boiler body has an horizontal layout, coated with insulating and sound absorbing material. Insieme EVO COND is available with open chamber configuration as standard, convertible as sealed chamber with specifics accessory kits. Are available "only heating" versions or combined for the domestic hot water production with storage tank.

All the models are equipped a new electronic panel with backlight graphical display with five buttons and LEDs for the operating

The control system provides the climatic regulation, the management of up to 3 zones distribution with specific accessory kits, the management of the sanitary hot water.

The electronics also provides the possibility of the remote management by means of the 0-10 V input, or with the Modbus protocol.

- Flexible and cheapness installation. All the accessories for the operation and the safety are included in the furniture
- Simple maintainability: combustion chamber, flue manifold, control panel and hydraulic connextions are easily accessible
- Low pollutant emissions (class 3 according to EN 267 with Nox emissions≤100mg/kWh)
- Maximum working pressure: 3 bar
- Complete with flexible oil hoses

Insieme EVO COND 20÷35 V LN: thermal groups for the room heating with integrated 3 way valve for the connection with an external tank (optional)

Insieme EVO COND 25-35 B/130 LN: thermal group for the combined heating and domestic hot water production by means of an integrated 130 liters storage tank

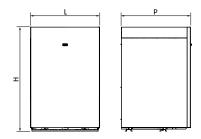
Insieme EVO COND 45÷70 LN: thermal groups for the room heating.

TECHNICAL DATA

Description	Output kW		Efficiency			Tank capacity	Energy efficiency class		Notes	Code
	Useful 80°/60° max	Furnace min-max	Pn (80/60 °C) %	Useful 30% Pn (30°C) %	l/min	(liters)	900	7		
LOW NOX VERSION - ONLY HEATING										
Insieme EVO COND 20 V LN	19,5	20,0	97,3	105,9	_	_	A	_	(1)	20145974
Insieme EVO COND 25 V LN	24,2	25,0	96,9	105,6	-	-	A	_	(1)	20145975
Insieme EVO COND 35 V LN	33,8	34,9	96,5	104,8	_	-	A	_	(1)	20145976
LOW NOX VERSION - HEATING AND DO	MESTIC HO	T WATER PR	ODUCTION V	VITH STORA	GE TANK					
Insieme EVO COND 25 B/130 LN	24,2	25,0	96,9	105,6	10,0	130	A	В	(2)	20145980
Insieme EVO COND 35 B/130 LN	33,8	34,9	96,5	104,8	11,4	130	A	В	(2)	20145981

Integrated 3 way valve.

ACCESSORIES



Description	H	L	P	Net weight
	mm	mm	mm	kg
120 lt storage tank	900	600	600	68

TECHNICAL DATA

Description	Capacity liters	Maximum power consumption kW	DHW production I/h	Energy efficiency class <u>≅</u>	Notes	Code
120 It storage tank	120,0	29,8	730	С	(1)(2)	20132804
Boiler - storage tank hydraulic connection					(1)	20132805

⁽¹⁾ Coupable with integrated 3 way valve models ("V" version).(2) Grey painted tank (RAL 7047).

ACCESSORIES

''''	Code
	1220559
	1220599
	20132795
	20132796
	20163226
	20132792
	20159698
	4047314
	20182660
(1)	2018266
	(1)

Equipped with extraction pump.

2021 EDITION

 ⁽¹⁾ Integrated 3 way variety.
 (2) Domestic hot water production with reference to ΔT 35 °C.
 NOTA: for models with P ≥ 35 kW (Insieme EVO COND 45÷70 LN), go to the "CENTRALIZED HEATING" section on page 122.

FLOOR-STANDING BOILERS

RICLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
RiCLOUD with Wi-Fi box RiCLOUD Wi-Fi box RF-wireless boiler receiver	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

Specific functions available only connecting Riello boilers in OTBus communication. Possibility of connection with other generic boilers and other devices in ON

2021 EDITION 124

Viff mode.

With Wi-Fi box included for the connection to the home ADSL Wi-Fi Internet modem.

For cable connection to the boiler. Compatible for radio frequency connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL modem).

FLOOR-STANDING STANDARD EFFICIENCY BOILERS



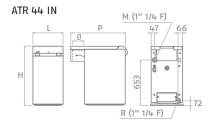
		GAS BOILERS		OIL BOILE	RS	
	CAST IRON				STEEL	CAST IRON
ONLY HEATNG		erme u	ATR ATR 44 IN (43,6 kW) ATR 52 IN (52,2 kW) ATR 64 IN (63,5 kW) ATR 71 IN (71,1 kW)		INSIEME EVOE LN INSIEME EVOE 25 LN (26,5 kW)* INSIEME EVOE 32 V LN (33,9 kW)*	GITRÈ GITRÈ 4 (25,0 KW) GITRÈ 5 (32,0 KW) GITRÈ 6 (40,0 KW) page 131
ATIONAL FLUE	INSTANTANEOUS				INSIEME EVOE LN INSIEME EVOE 25 K LN (26,5 KW)* INSIEME EVOE 32 K LN (33,9 KW)*	
HEATING AND DHW PRODUCTION CONVENTIONAL FLUE	70 LITERS STORAGE TANK				INSIEME EVOE LN INSIEME EVOE 25 B/70 LN (26,5 KW)*	
HEATING AND	100–130 LITERS STORAGE TANK				INSIEME EVOE LN INSIEME EVOE 32 B/110 LN (33,9 KW)*	GITRÈ GITRÈ 5 B/100 (32 KW) page 131

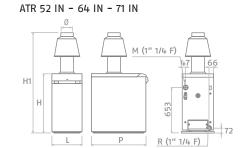
^{*} All versions can be transformed into a sealed chamber version with a dedicated accessory kit.

Atmospheric gas floor-standing boilers

ATR







• Standard efficiency conventional flue cast-iron gas floor-standing boilers for light commercial and commercial applications. Equipped with stainless steel atmospheric burner and builtin control panel, they are suitable for the installation in any kind of plant room.

Description	H mm	H1 mm	L mm	P mm	ø mm	Net weight kg
ATR 44 IN	850	-	450	780	180	166
ATR 52 IN	850	1475	450	701	180	190
ATR 64 IN	850	1475	450	748	180	225
ATR 71 IN	850	1700	450	867	200	251

ATR features a high efficiency cast iron heat-exchanger, with ionization flame control. The thermostatic control board is provided with a total shut-off function.

- Standard efficiency, higher than 90%.
- Noiseless operation.
- Compact sizes.
- Possible conversion to LPG through the specific kit to be ordered separately.
- Antirefouleur kit for ATR 52-64-71 IN models.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn (Tm=70 °C) %	Efficiency (30% Pn) %	Code
HIGH EFFICIENCY (>90%) - CONVENTIONAL FLUE					
ATR 44 IN	43,6	48,3	90,3	90,1	4045145
ATR 52 IN	52,2	57,9	90,2	90,1	4045146
ATR 64 IN	63,5	70,5	90,1	90,0	4045147
ATR 71 IN	71,1	79,0	90,0	90,0	4045148

NOTE: the electrical interface kit for tank is required for the use of ATRB 120 tank.

ACCESSORIES

Description	Notes	Code
Interface kit for DHW-tank		4047695
Global shut-off kit	(1)	4047697
Hydraulic kit for ATRB 120		4047692

The "global shut-off kit" is necessary when you installed the electrical interface kit for DHW-tank (code 4047695) to keep the funcion "global shut-off". For hydraulic accessories, please contact Sales Department.

HEAT PUMPS

GROUP COMPOSITION

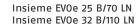
Description	Composed by (**)	Code (*)
ATR 44 IN	4045145	
ATR 52 IN	4045146	20082317
Ø 180 mm back draught shutter kit	480213	
ATR 64 IN	4045147	20082318
Ø 180 mm back draught shutter kit	480213	
ATR 71 IN	4045148	20082319
Ø 200 mm back draught shutter kit	480214	

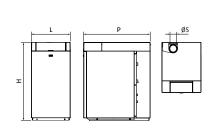
^(*) By ordering this code, you will receive the whole product.
(**) Consider that each single component can be ordered separately.

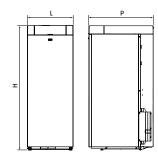
Steel floor-standing standard boilers

Insieme EV0e

Insieme EVOe 25 LN - 32 V LN Insieme EVOe 25/32 K LN









- In conformity with Directive 2009/125/EC
- Steel boilers with light oil burner for heating and for the production of domestic hot water
- Low NOx version class 3 according to EN 267

Description	H mm	L mm	P mm	Ø A mm	Ø S mm	Net weight kg
Insieme EVOe 25 LN	900	450	660	80	80	104
Insieme EVOe 32 V LN	900	600	760	80	120	136
Insieme EV0e 25 K LN	900	450	660	80	80	106
Insieme EV0e 32 K LN	900	600	760	80	120	138
Insieme EV0e 25 B/70 LN	1355	500	735	80	80	155
Insieme EV0e 32 B/110 LN	1490	600	700	80	120	206

Type C conversion accessory kit

Steel boiler with low combustion pollutant emission one-stage light oil burner. The body of the boiler is vertical and is covered in insulating and sound-proofing material.

The standard Insieme EVOe is available with an open chamber that can be converted into a sealed chamber with the accessory kit. Versions are available for heating only or combined with instantaneous domestic hot water production or with storage. All models have a new electronic panel with backlit graphic display and five keys and LEDs for displaying the operating status. The control system provides climatic adjustment, the management of the distribution of up to 3 zones using special accessory kits, and the regulation of the domestic hot water. The electronics also provide the possibility of remote management using a 0-10 V input or else with the Modbus protocol.

- Low sound emissions
- Easy and inexpensive to install. The delivery includes all the accessories for it to operate safely
- Easy to maintain: combustion chamber, flue gases manifold, control panel and hydraulic connections are can be easily accessed
- Low pollutant emissions, class 3 according to EN 267 (N0x≤100mg/kWh)
- Maximum operating pressure: 3 bar

Insieme EVOe 25 LN: boiler for room heating.

Insieme EV0e 32 V LN: boiler for room heating. Equipped with 3-way valve for combination with an external domestic hot water storage cylinder (accessory kit).

Insieme EV0e 25/32 K LN: boilers for room heating and the instantaneous priority production of domestic hot water using an instantaneous plate heat exchanger with a diverter valve and control of the modulating pump (PWM).

Insieme EVOe 25 B/70 LN: boilers for room heating and the production of domestic hot water with a 70 litre integrated storage cylinder.

Insieme EVOe 32 B/110 LN: boilers for room heating and the production of domestic hot water with a 110 litre integrated storage cylinder.

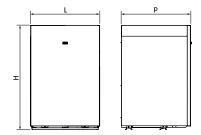
TECHNICAL DATA

PRODUCT CATALOGUE

Description		:put W		ency 6	DHW production	Tank capacity		efficiency ass	Notes	Code
	Useful 80°/60° max	Furnace min-max	Pn (80/60 °C) %	Useful 30% Pn (37°C) %	l/min	liters		ر		
LOW NOX VERSION - ONLY HE	ATING									
Insieme EVOe 25 LN	25,3	26,5	95,4	96,6	-	-	В	_		20118240
Insieme EVOe 32 V LN	32,5	33,9	95,7	97,3	-	-	В	-		20130415
LOW NOX VERSION - HEATING	AND INSTA	NTANEOUS I	OMESTIC H	OT WATER PI	RODUCTION					
Insieme EVOe 25 K LN	25,3	26,5	95,4	96,6	9,4	-	В	В	(1)	20118244
Insieme EVOe 32 K LN	32,5	33,9	95,7	97,3	12,7	-	В	В	(1)	20118245
LOW NOX VERSION - HEATING AND DOMESTIC HOT WATER PRODUCTION WITH STORAGE CYLINDER										
Insieme EVOe 25 B/70 LN	25,3	26,5	95,4	96,6	9,4	69	В	В	(1)	20118246
Insieme EVOe 32 B/110 LN	32,5	33,9	95,7	97,3	12,7	106	В	В	(1)	20118250

⁽¹⁾ Domestic hot water production with reference to ΔT 35 °C

ACCESSORIES



Description	H	L	P	Net weight
	mm	mm	mm	kg
120 lt storage tank	900	600	600	68

TECHNICAL DATA

Description	Capacity liters	Maximum power consumption kW	DHW production I/h	Energy efficiency class	Notes	Code
120 lt storage tank	120,0	29,8	730	С	(1)(2)	20132804
Boiler - storage tank hydraulic connection					(1)	20132805

Coupable with integrated 3 way valve models ("V" version). Grey painted tank (RAL 7047).

WATER-HEATERS

ACCESSORIES

RIELLO

Description	Code
SECONDARY CIRCUIT MANAGEMENT	
External probe	1220559
Domestic hot water probe	1220599
1st direct/mixed zone management	20132795
2nd/3rd direct/mixed zone management	20132796
SEALED TRANSFORMATION (TYPE C)	
Type C transformation MOD 25	20132799
Type C transformation MOD 32	20132800
FUEL FILTER	
Oil filter	20132792
Ø80 mm SINGLE DISCHARGE OR TWIN SUCTION/DISCHARGE	
Ø120/80 - Ø80/80 mm twin adapter	20180504
45° bend Ø80	20162295
90° bend Ø80	20162296
90° bend Ø80 with inspection	20162297
Extension L = 500 mm Ø80 mm	20162298
Extension L = 1000 mm Ø80 mm	20162299
Extension L = 2000 mm Ø80 mm	20162300
Horizontal terminal Ø80 mm	20162442
HYDRAULIC ACCESSORIES	
Hydraulic separator	20132798

RICLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
19,8 4 19,8 4 19,8	Ricloud	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

- Specific functions available only connecting Riello boilers in OTBus communication. Possibility of connection with other generic boilers and other devices in ON / OFF mode.

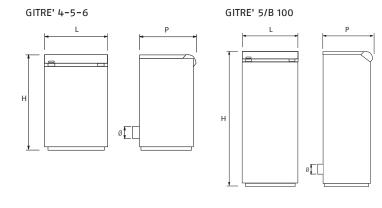
 With Wi-Fi box included for the connection to the home ADSL Wi-Fi Internet modem.

 For cable connection to the boiler. Compatible for radio frequency connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL modem).

Cast iron floor-standing standard boilers

Gitrè







- In conformity with Directive 2009/125/EC
- Cast iron oil floor standing boilers, with three flue gas passes, removable turbolators and winged pipes

Description	H mm	L mm	P mm	ø mm	Net weight kg
GITRÈ 4	850	450	800	130	182
GITRÈ 5	850	450	900	130	214
GITRÈ 6	850	450	1000	130	248
GITRÈ 5 B/100	1500	600	900	130	286

Cast iron floor standing boiler with three flue gas passes and single stage oil burner, with standard combustion and low polluting emissions; wet horizontal combustion chamber and highly insulated boiler body. GITRÈ is available in only heating models or combined for DHW production, provided with an enameled 100 liters storage tanks featuring a double-layer insulation.

- All models are equipped with a thermostatic control panel, with IP XOD protection
- Energy efficiency class B both in heating and DHW production
- Return temperature up to 37 °C
- Ease of maintenance: combustion chamber, flues battery, control panel and hydraulic fittings are easy to access
- Available as accessory the electronic kit to control up to three direct zones

GITRÈ 4-5-6: cast iron oil floor standing boilers for space heating.

GITRÈ 5 B/100: cast iron oil floor standing boilers for space heating and DHW production with the integrated 100 liters storage tank.

TECHNICAL DATA

Description	0utput 80°/60° max kW	Input min – max kW	Efficiency Pn (80/60 °C) %	Efficiency 30% Pn (37°C return) %	DHW production Δt 35 °C I/min	Tank capacity liters		efficiency ass	Code
				,,,			UUUU	8	
LOW NOX VERSION - HEATING	ONLY								
GITRÈ 4	23,8	25	95,3	97,4	_	-	В	_	20123950
GITRÈ 5	30,7	32	96,1	97,2	_	-	В	_	20123952
GITRÈ 6	38,5	40	96,2	97,3	_	-	В	-	20123953
LOW NOX VERSION - HEATING AND DHW PRODUCTION WITH TANK									
GITRÈ 5 B/100	30,7	32	96,1	97,2	10,2	100	В	В	20123954

ACCESSORIES

Description	Code
ELECTRICAL ACCESSORIES	
Electrical multi-zone kit	20168656



HEAT PUMPS

RIELLO

WATER-HEATERS	
HEAT PUMPS	135
LOW NOX INSTANTANEOUS - GAS	139
FLUE OPTION SYSTEMS	143

HEAT PUMPS

HEAT PUMPS

AIR/WATER HEAT PUMP

DOMESTIC HOT WATER

2021 EDITION



NEXAQUA

NEXAQUA 80-120

page 136



NEXPRO 300 PLUS

NEXPRO 300 PLUS

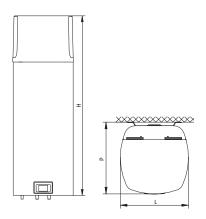
page 137

TERMINAL UNITS



DHW air-water heat pump

NexAqua







• Highest efficiency energy efficiency class A+

Description	H mm	L mm	P mm
NexAqua 80-80 Plus	1197	506	533
NexAqua 120-120 Plus	1497	506	533

NexAqua is Riello solution specifically designed to enhance DHW production in domestic applications. The unit consists mainly of a mini heat pump and a tank. The mini-heatpump, located in the upper part of the tank, heat the water contained in the in the 80-120 liters tank up to 55 °C in heat pump operation and up to 75 °C thanks to the additional electrical resistances. A centrifugal fan sucks the air and allows the heat pump to operate in recirculation or in particular installation places, through pipes up to 15 m length with a DN 125 diameter. The energy recovered in this way is then transferred to water by an external exchanger located around the external surface of the tank, thus allowing a money-saving maintenance. The high efficiency of NexAqua derives from a refrigeration circuit in R134A, which heat water up to 55 °C.

The tank is provided with 2 electrical resistances of 1,0 kW (each) as standard supply.

- Touch Screen Display
- High efficiency coefficient
- 2 additional electrical resistances of 1,0 kW (each) as standard
- Centrifugal fan with high available pressure for air duct systems
- Corrosion protection with magnesium anode and enamelled tank
- Highest efficiency energy efficiency class A+

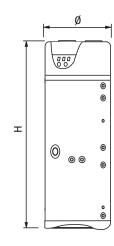
TECHNICAL DATA

Description	Firing rate	Maximum power absorption average (2) W	Efficiency coefficient (1) COP	Air flow rate m³/h	Recovery time h:min (1)	Volume liters	Energy efficiency class (3)	Code
NexAqua 80	+7/35 °C	350	3,1	100-230	4:40	80	A+	20075560
NexAqua 80 Plus	- 7/35 °C	350	3,1	100-230	4:40	80	A+	20075563
NexAqua 120	+7/35 °C	350	3,1	100-230	6:40	120	A+	20075562
NexAqua 120 Plus	- 7/35 °C	350	3,1	100-230	6:40	120	A+	20075565

- Performance values refer to the following conditions: (1) Compliance with EN 16147: room air temperature 15 °C with 74% humidity, DHW from 10 °C to 55 °C
- (2) Value refers to heat pump operation without additional electrical resistances (3) M load profile

DHW air-water heat pump

NexPro 300 Plus







• Highest efficiency energy efficiency class A+

Description	H mm	ø mm	Net weight kg
NexPro 300 Plus	1870	660	122
NexPro 300 S Plus	1870	660	137
NexPro 300 CS Plus	1870	660	155

NexPro 300 Plus is the Riello solution dedicated to domestic hot water production in residential applications.

The unit consists of a heat pump and a tank with 300 I capacity. The heat pump, placed directly on the upper part of the tank, uses the thermal energy of the air to heat the water contained in the tank.

The air is sucked by a centrifugal fan that allows the heat pump to operate in recirculation or through pipes up to 10 m length with a DN 160 diameter. The energy recovered is then transferred to water by an external exchanger located around the external surface of the tank, thus avoiding maintenance costs.

The high efficiency of NexPro 300 Plus derives from a refrigeration circuit in R134A, a high efficiency compressor, an electronic expansion valve and a bypass valve for hot gases to allow the operation up to −5 °C.

The tank is provided with a double enameled coating (DIN 4753) and a 1,5 kW electrical resistance as standard supply. The resistance accomplishes the four main functions: additional heating, frost protection, emergency heating and anti-legionella protection.

The whole system is managed and adjusted by an "intelligent" control device, to allow the best operation of each component.

- DHW production up to a temperature of 60 °C
- High efficiency coefficient
- Additional electrical resistance of 1,5 kW as standard
- Centrifugal fan with high available pressure for air duct systems
- Double enameled DHW tank (DIN 4753)
- Solar integration through RSS pump station
- Operation range -5 °C/+32 °C
- Corrosion protection with magnesium anode and enamelled tank
- Highest efficiency energy efficiency class A+

RIELLO PRODUCT CATALOGUE

TECHNICAL DATA

Description	Average heating capacity 50 °C (1) W	Efficiency coefficient (1) COP	Power absorption average (1) W	Recovery time (1) h:m	Air flow rate m³/h	Volume liters	Energy efficiency class (2)	Code
DHW								
NexPro 300 Plus	1950	2,92	488	7:22	450	300	A+	20125639
DHW + SOLAR SYSTEM								
NexPro 300 S Plus	1950	2,92	488	7:22	450	295	A+	20125640
DHW + BOILER + SOLAR SYSTEM								
NexPro 300 CS Plus	1950	2,92	488	7:22	450	290	A+	20125642

Performance values refer to the following conditions:
(1) Compliance with EN 16147: room air temperature 15 °C with 71% humidity, DHW from 15 °C to 54 °C
(2) Load profile

ACCESSORIES

Description	Code
RSS MRS	20116166

LOW NOX INSTANTANEOUS - GAS



	INDOOR		OUTDOOR	
CONVENTIONAL FLUE		ACQUAFUN ² LN ACQUAFUN ² 11 (19,4 kW-11 I/min)* ACQUAFUN ² 14 (24,4 kW-14 I/min)*		
CONVENTI		page 140		
	T. gov.	RIELLO MINI LN	± c/Da	RIELLO MINI LN
		RIELLO MINI 11 LN (19,9 kW-11 I/min)* RIELLO MINI 13 LN (22,5 kW-13 I/min)* RIELLO MINI 17 LN (27,6 kW-17 I/min)*		RIELLO MINI 11 LN (19,9 kW-11 I/min)* RIELLO MINI 13 LN (22,5 kW-13 I/min)* RIELLO MINI 17 LN (27,6 kW-17 I/min)*
	11			
ROOM-SEALED		page 141		page 141
ΨO			·····	RIELLO MINI EVO EXT LN
RO			Free	RIELLO MINI 11 EVO EXT LN (19,9 kW-11 l/min)* RIELLO MINI 11 EVO EXT LN (22,5 kW-13 l/min)* RIELLO MINI 17 EVO EXT LN (27,6 kW-17 l/min)*
			** (t)	page 142

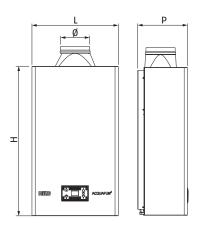
^{*} DHW production with ΔT = 25 °C

COMPLEMENTARY



Conventional flue low NOx instantaneous gas water heater

Acquafun² LN







- Natural gas and LPG
- Conventional flue
- Automatic battery-powered ignition
- Reduced N0x emissions

Description	H mm	L mm	P mm	Ø mm	Net weight kg
ACQUAFUN ² 11 LN	675	350	230	110	12
ACQUAFUN ² 14 LN	675	400	230	130	12

Acquafun2 LN is the open chamber water heater that is quick and easy to install without electrical connections because the power supply comes from a battery. It is available in two models: 11 and 14 litres. Water heater with low NOx emissions

- Instantaneous gas water heater for indoor installation
- User interface with backlit display, intuitive control keys and battery replacement LED
- Auto-adaptive system with thermostatic device
- Automatic ignition using the battery; 2 batteries supplied (1.5 Volt size D)
- The continuous flame modulation allows the selected temperature to remain constant when the water pressure ad output varies optimising the combination at the mechanical and thermostatic mixers
- Good flame stability
- Temperature probe on the water outlet
- Thanks to its particularly compact dimensions it can be installed in confined areas of the home

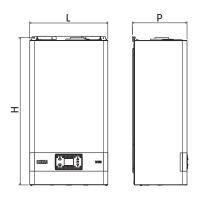
TECHNICAL DATA

Description	Useful output furnace kW	DHW flow rate I/min.	Fuel	Energy efficiency class	Code
VERSION WITH ROOM-SEALED WITH NATURAL DRAFT - AUTOMA	ATIC BATTERY IGNITION				
ACQUAFUN ² 11 LN	19,4-22,0	11,0	NG	А	20149827
ACQUAFUN ² 11 LN	18,3-21,0	11,0	LPG	А	20149831
ACQUAFUN ² 14 LN	24,4-28,0	14,0	NG	А	20149833
ACQUAFUN ² 14 LN	24,7-28,0	14,0	LPG	А	20149834

Room sealed low N0x instantaneous gas water heater

RIELLO MINI LN









- Natural gas and LPG
- Room-sealed
- Electronic ignition
- Reduced N0x emissions

Description	H mm	L mm	P mm	Net weight kg
RIELLO MINI 11 LN	642	340	237	19
RIELLO MINI 13 LN	642	340	237	19
RIELLO MINI 17 LN	640	400	246	21

Riello Mini is a small boiler intended specifically to generate domestic hot water. It is available in models with 11, 13 and 17 litres per minute. Water heater with low NOx emissions <56 mg/kWh.

- Instantaneous gas water heater for indoor installation
- New electronics and icon interface with backlit display and four keys for carrying out adjustments
- Broad flame modulation that provides excellent stability of the domestic hot water delivery temperature, even with minimum draw-off
- Assembly template and power cable supplied.

TECHNICAL DATA

Description	Useful output furnace kW	DHW flow rate I/min.	Fuel	Energy efficiency class	Notes	Code
VERSION WITH FORCED DRAFT CONVENTIONAL FLUE -	- ELECTRONIC IGNITI	ON				
RIELLO MINI 11 LN	19,9-22,2	11,0	NG	Α	(1)(2)	20143047
RIELLO MINI 11 LN	19,9-22,2	11,0	LPG	А	(1)(2)	20143048
RIELLO MINI 13 LN	22,5-25,0	13,0	NG	А	(1)(2)	20143049
RIELLO MINI 13 LN	22,5-25,0	13,0	LPG	Α	(1)(2)	20143050
RIELLO MINI 17 LN	27,6-30,0	17,0	NG	А	(1)(2)	20143051
RIELLO MINI 17 LN	27,6-30,0	17,0	LPG	А	(1)(2)	20143052

For low temperature installation (down to -10 °C), the anti-freeze resistors kit is available (code 20148036)

The water heater can be installed also outdoors in a partially protected place, where it is not exposed directly to the elements. For these installations we recommend using anti-freeze systems that can adequately protect the appliance from the risk of freezing. Contact the pre-sales service for clarification or support.

ACCESSORIES

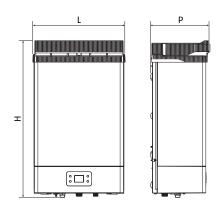
Description	Code
ELECTRICAL ACCESSORIES	
Anti-freeze resistors kit	20148036
HYDRAULIC ACCESSORIES	
Water connection with tap	4047624



Outdoor room sealed low NOx instantaneous gas water heater

RIELLO MINI EVO EXT LN









- Gas-tight chamber
- Electronic ignition
- Type A2 outdoor installation
- Low N0x emissions

Description	H mm	L mm	P mm	Net weight kg
RIELLO MINI 11 EVO EXT LN	699	408	260	21
RIELLO MINI 13 EVO EXT LN	699	408	260	21
RIELLO MINI 17 EVO EXT LN	699	408	260	21

Riello Mini Evo Ext is a small boiler intended specifically to produce domestic hot water. It is available in models with 11, 13 and 17 litres per minute, for type A2 outdoor installations. Water heater with low NOx emissions <56 mg/kWh.

- Instantaneous gas water heater for outdoor installation
- New electronics and icon interface with backlit display and four keys for carrying out adjustments
- Broad flame modulation that provides excellent stability of the domestic hot water delivery temperature, even with minimum draw-off
- Anti-freeze resistors as standard to provide operation with outdoor temperatures as low as -10 °C on 11 and 13 l/min versions and -7 °C on the 17 I/min version
- Assembly template and power cable supplied.

TECHNICAL DATA

Description	Useful output furnace kW	DHW flow rate I/min.	Fuel	Energy efficiency class	Code
VERSION WITH FORCED DRAUGHT-ELECTRONIC IGNITION GAS-TIGHT	CHAMBER				
RIELLO MINI 11 EVO EXT LN	19,9-22,2	11,0	NG	A	20144208
RIELLO MINI 13 EVO EXT LN	22,5-25,8	13,0	NG	A	20144210
RIELLO MINI 17 EVO EXT LN	27,6-30,0	17,0	NG	А	20144234

ACCESSORIES

Description	Code
COMBUSTION ACCESSORIES	
LPG conversion kit (MINI 11 EVO EXT LN)	20155581
LPG conversion kit (MINI 13 EVO EXT LN)	20155583
LPG conversion kit (MINI 17 EVO EXT LN)	20157837
HYDRAULIC ACCESSORIES	
Water connection with tap	4047624

HEAT PUMPS

FLUE OPTION SYSTEMS



2021 EDITION

TWIN FLUE GAS EXHAUST SYSTEM Ø80 mm MADE OF METAL FOR WATER HEATER (ONLY FOR RIELLO MINI LN)

Drawing	Description	Material	Notes	Code
	Twin system without flue gas analysis outlet	Met	(1)	1220329
6.6 8	Twin system connection kit	Met	(1)(3)	20162668
	Twin system connection kit	Met	(1)(4)	20162669
	Bend 45° Ø80 with gasket	Met	(1)	20162295
	Bend 90° with gasket	Met	(1)	1220079
	Extension 100 cm with gasket	Met	(1)	1220269
	Extension 50 cm with gasket	Met	(1)	1220149
	Extension 195 cm with gasket	Met	(1)	1220229
	Type B22 flue gas exhaust kit for open air installation	Met	(1)	20162455
	Air suction terminal	Met	(1)	1220109
	Flue gas exhaust terminal	Met	(1)	1220119
_	Spacer ring/support for Ø80 pipes (4 pieces)			20137532
	Horizontal condensation collection kit	Met		1220039
	Vertical condensation collection kit	Met		1220049
	Terminal for Ø80 mm pipes	Met	(1)	20162443
	Bend 90° Ø80 mm with inspection	Met	(1)	20162297

⁽¹⁾ P1 pressure level according to EN 1443
(2) H1 pressure level according to EN 1443
(3) For Mini 11-13 LN versions
(4) For Mini 17 LN version
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght

COAXIAL FLUE GAS EXHAUST SYSTEM Ø60/100 mm MADE OF PP/METAL FOR WATER HEATER (ONLY FOR RIELLO MINI LN)

Drawing	Description	Material	Notes	Code
<u>#</u>	Vertical discharge kit	Met/Met	(1)	20163422
	Coaxial discharge terminal kit	Met/Met	(1)	20163409
	Telescopic coaxial discharge terminal kit (from 430 to 735 mm)	Met/Met	(1)	20163412
8	Coaxial extension (75 cm)	Met/Met	(1)	20163392
8	Double coaxial extension (147 cm)	Met/Met	(1)	20163394
	Coaxial bend 90°	Met/Met	(1)	20163334
	Coaxial bend 45°	Met/Met	(1)	20163330
Д	Tile for flat roof	Nylon		20135579
	Universal lead tile	Nylon		20132050
	Vertical coaxial condensation collection kit	Met/Met		20163403
	Horizontal coaxial condensation collection kit	Met/Met		20163400
	Clamps kit H 45 mm with gasket Ø100 mm (4 pieces)			20163427
_ -	Spacer ring/support for Ø100 pipes (10 pieces)			20135584
	Telescopic manifold 60-100 mm (from 165 to 220 mm)	Met/Met	(1)	20163396
	Combustion analysis sockets kit			20163430
	Bend 90° Ø60 −100 mm with inspection	Met/Met	(1)	20163390
60	Bend adaptor kit Ø60-100 mm (for replacing Mini 11 and 13 with rear flue gas exhaust)	Met/Met	(1)	20122792

(1) P1 pressure level according to EN 1443
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght



HEAT PUMPS

SOLAR THERMAL AND CYLINDER *

SOLAR SYSTEMS	149
SOLAR COLLECTORS	159
SOLAR DHW AND STORAGE CYLINDERS	169
COMPLEMENTARY ITEMS	191
SOLAR THERMAL ACCESSORIES	199

SOLAR SYSTEMS



SYSTEMS FOR DHW PRODUCTION

FORCED CIRCULATION

2 FITTINGS

RPS 25/4 SYSTEM



200 liters 300 liters 430 liters 550 liters 800 liters 1000 liters

page 154



FLAT PLATE SOLAR COLLECTOR

CSAL 25 RN SYSTEM

200 liters

page 154

NATURAL CIRCULATION

4 FITTINGS

CSNA 20 RS SYSTEM



150 liters 200 liters 220 liters 300 liters

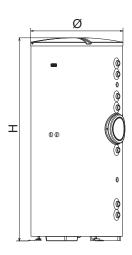
page 156

TERMINAL UNITS

Systems for DHW production - Forced circulation

RPS 25/4 System







• Domestic hot water production

Complete and integrated system for the production of domestic hot water, dedicated to household customers. It consists of all the elements necessary for the construction of the solar system and is designed for a simple and safe installation.

- The system consists of: High-efficiency RPS 25/4 solar collectors, thanks to the selective absorber TiNOx Energy Al.
- The RSS MRS hydraulic unit is complete with a modulating circulator, safety devices, load valves, non-return valve, delivery and return thermometers, pressure gauge and EVOSOL control unit for solar system management.
- RBS 2S heater, in dual coil steel, internally glazed to ensure hygiene and facilitate cleaning of limescale deposits; with excellent aesthetic finishes (in embossed ABS) and energy performance.
- Expansion reservoir, designed to withstand high temperatures.
- Antifreeze, non-toxic, biodegradable and biocompatible fluid.
- 3/4" thermostatic mixer to optimize the system.
- 5-year warranty on both collectors and heater.
- Wide selection of bracket kits to meet all installation needs.

For more details on heater, solar panel and hydraulic unit, refer to the dedicated product pages.

TECHNICAL DATA

Description	Solar c	ollectors	Glycol	Expansion	Number		Solar c	ylinder		Notes	Code
	Number	Gross area m²	quantity kg	vessel liters	of people	Capacity liters	H mm	ø mm	Energy efficiency class		
RPS 25/4 200	1	2,3	10	18	2-3	208	1338	604	В	(1)	20134809
RPS 25/4 300	2	4,6	10	18	4-5	301	1838	604	В	(1)	20134810
RPS 25/4 430	3	6,9	15	24	6-7	442	1644	755	В	(1)	20131990
RPS 25/4 550	4	9,2	20	35	8-9	551	1988	755	В	(1)	20131991
RPS 25/4 800	5	11,5	20	50	10-11	731	1846	1000	В	(2)	20131992
RPS 25/4 1000	6	13,8	20	50	12-13	883	2171	1000	В	(2)	20131993

Components provided in a single pallet.

All solar systems include: solar collectors, bivalent solar tank with RSS hydraulic group with integrated EVOSOL solar regulator, glycol, expansion tank and thermostatic

Heater supplied with insulation disassembled.

HEAT PUMPS

ACCESSORIES FOR VERTICAL INSTALLATION

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe		20132143
Kit of two fittings to tighten terminals	(2)	20094627
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and		4383254
return, solar probe cable and suitable insulation for solar applications) Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and		
return, solar probe cable and suitable insulation for solar applications)		4383255
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //		20104603
Brackets kit for 2 collectors in //		20104604
Brackets kit for 3 collectors in //		20104605
Brackets kit for 4 collectors in //		20104606
Brackets kit for 5 collectors in //		20104610
Brackets kit for 6 collectors in //		20104611
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof		20104616
Brackets kit for 2 collectors at 30° for flat roof		20104618
Brackets kit for 3 collectors at 30° for flat roof		20104619
Brackets kit for 4 collectors at 30° for flat roof		20104621
Brackets kit for 5 collectors at 30° for flat roof		20104622
Brackets kit for 6 collectors at 30° for flat roof		20104623
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof		20104624
Brackets kit for 2 collectors at 45° for flat roof		20104625
Brackets kit for 3 collectors at 45° for flat roof		20104626
Brackets kit for 4 collectors at 45° for flat roof		20104627
Brackets kit for 5 collectors at 45° for flat roof		20104628
Brackets kit for 6 collectors at 45° for flat roof		20104629
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Indertile brackets kit for 1 collector		20104630
Indertile brackets kit for 2 collectors		20104632
Indertile brackets kit for 3 collectors		20104634
Indertile brackets kit for 4 collectors		20104635
Indertile brackets kit for 5 collectors		20104636
Undertile brackets kit for 6 collectors		20104637
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector		20104638
Indertile adjustable brackets kit for 2 collectors		20104640
Indertile adjustable brackets kit for 3 collectors		20104642
Jndertile adjustable brackets kit for 4 collectors		20104643
Indertile adjustable brackets kit for 5 collectors		20104644
Indertile adjustable brackets kit for 6 collectors		20104645
INSET INSTALLATION FOR VENTILATED ROOFS (MINIMUM 20° SLOPE)		
nset kit for 1 collector		20145347
nset kit for 2 collectors		20145351
nset kit for 3 collectors		20148401
Inset kit for 4 collectors		20148404
Inset kit for 5 collectors		20149352
nset kit for 6 collectors		20149353

⁽¹⁾ Optional component, to be installed at the highest point in the solar loop.
(2) Use one for each row of installed RPS 25/4 collectors.
Other available accessories at page 200.

ACCESSORIES FOR HORIZONTAL INSTALLATION

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Welding fittings kit		20132221
Fittings kit for stainless steel hose		20132222
Kit of two fittings to tighten terminals	(2)	20094627
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
HORIZONTAL INSTALLATION IN PARALLEL ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //	(3)	20104698
Brackets kit for 2 collectors in //	(3)	20104699
Brackets kit for 3 collectors in //	(3)	20104701
Brackets kit for 4 collectors in //	(3)	20104704
Brackets kit for 5 collectors in //	(3)	20104705
Brackets kit for 6 collectors in //	(3)	20104708
HORIZONTAL INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof	(3)	20104711
Brackets kit for 2 collectors at 30° for flat roof	(3)	20104713
Brackets kit for 3 collectors at 30° for flat roof	(3)	20104718
Brackets kit for 4 collectors at 30° for flat roof	(3)	20104721
Brackets kit for 5 collectors at 30° for flat roof	(3)	20104722
Brackets kit for 6 collectors at 30° for flat roof	(3)	20104727
HORIZONTAL INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof	(3)	20104730
Brackets kit for 2 collectors at 45° for flat roof	(3)	20104732
Brackets kit for 3 collectors at 45° for flat roof	(3)	20104734
Brackets kit for 4 collectors at 45° for flat roof	(3)	20104737
Brackets kit for 5 collectors at 45° for flat roof	(3)	20104738
Brackets kit for 6 collectors at 45° for flat roof	(3)	20104150
HORIZONTAL INSTALLATION IN PARALLEL ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector	(3)	20104741
Undertile brackets kit for 2 collectors	(3)	20104742
Undertile brackets kit for 3 collectors	(3)	20104743
Undertile brackets kit for 4 collectors	(3)	20104745
Undertile brackets kit for 5 collectors	(3)	20104746
Undertile brackets kit for 6 collectors	(3)	20104748
HORIZONTAL INSTALLATION IN PARALLEL ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector	(3)	20104749
Undertile adjustable brackets kit for 2 collectors	(3)	20104750
Undertile adjustable brackets kit for 3 collectors	(3)	20104761
Undertile adjustable brackets kit for 4 collectors	(3)	20104762
Undertile adjustable brackets kit for 5 collectors	(3)	20104765
Undertile adjustable brackets kit for 6 collectors	(3)	20104768

⁽¹⁾ Optional component, to be installed at the highest point in the solar loop.
(2) To be used for possible integration of the bracket kits. See note (3).
(3) Brackets kit complete with:

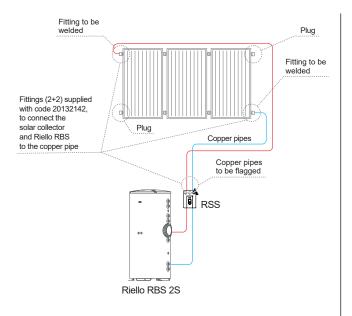
- "male" terminal fittings suitable for installations with delivery and return on the upper side of the row. For different installations, use the code 20094627 to complete;

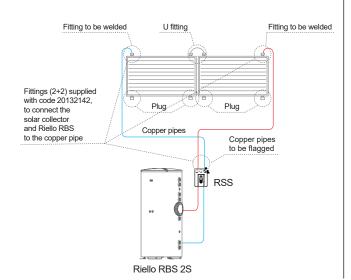
- flexible connection fittings between the manifolds.

Other available accessories at page 200.

SOLAR SYSTEMS CONNECTION DIAGRAMS

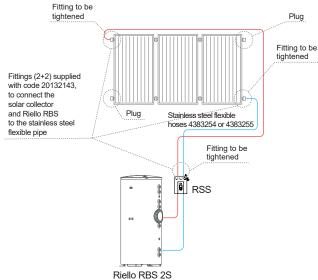
DN22 copper pipes connections

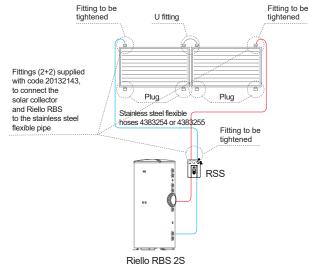




NOTES: stainless steel pipe recommended for up to 4 collectors.

DN16 stainless steel pipes connections





COMPLEMENTARY

Systems for DHW production - Forced circulation

CSAL 25 RN System





• Domestic hot water production

Complete system for the production of domestic hot water, designed for all domestic utilities.

It consists of all necessary elements to build a solar system and is designed for a simple, fast and safe installation. The system consists of:

- High efficiency solar collector CSAL 25 RS thanks to the selective absorber TiNOx Energy Al.
- RSS MRS pump station equipped with differential controller EVOSOL to control the solar system; the solar station has to be mounted on wall.
- Double coil Solar cylinder RBS 2S, characterized by excellent refinements (ABS embossed), high energy efficiency (Energy efficiency class B), provided with an internal glazed enamel treatment (vitrification) to ensure hygiene and to facilitate the cleaning of limestone deposits.
- Expansion vessel designed to resist high temperatures.
- Non-toxic, biodegradable and biocompatible frost-protection liquid.
- 3/4" thermostatic mixing valve, to optimize the system.
- Wide range of bracket kits to meet all installation requirements.

For additional information about cylinder and panel, please consult the specific product pages.

TECHNICAL DATA

Description	Sol	ar collect	tors	Glycol quantity							Notes	Code
	Number	Gross area m²	Absorber area m²	kg	vessel liters	of people	Capacity liters	H mm	ø mm	Energy efficiency class		
CSAL 25 R 200 N REG	1	2,43	2,15	10	18	2 - 3	208	1338	604	В	(1)	20128083
CSAL 25 R 300 N REG	2	4,86	4,30	10	18	4 - 5	301	1838	604	В	(1)	20128084

All the solar systems are complete with: solar collectors CSAL 25 RS, double-coil solar cylinder RBS 2S, RSS MRS pump station (with differential controller EVOSOL embedded), glycol, expansion vessel and thermostatic mixing valve.

(1) Components provided in a single pallet.

ACCESSORIES

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe		20132143
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //		20104603
Brackets kit for 2 collectors in //		20104604
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof		20104616
Brackets kit for 2 collectors at 30° for flat roof		20104618
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof		20104624
Brackets kit for 2 collectors at 45° for flat roof		20104625
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector		20104630
Undertile brackets kit for 2 collectors		20104632
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector		20104638
Undertile adjustable brackets kit for 2 collectors		20104640

⁽¹⁾ Optional component, to be installed at the highest point in the solar loop.

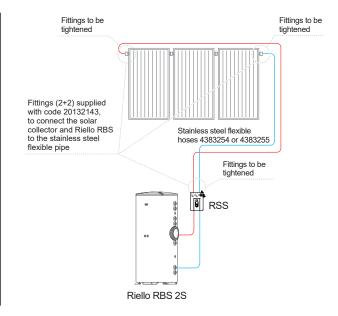
SOLAR SYSTEMS CONNECTION DIAGRAMS

DN22 copper pipes connections

Fitting to be welded Fittings (2+2) supplied with code 20132142, to connect the solar collector and Riello RBS to the copper pipe Copper pipes to be welded RSS Riello RBS 2S

NOTES: stainless steel tube recommended up to 4 collectors.

DN16 stainless steel pipes connections

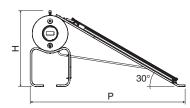


Systems for DHW production - Natural circulation

CSNA 20 RS System









- Ready-to-install solar system for domestic hot water production
- Solar Keymark according to EN 12976

Description	Н	L	Р	Net weight
-	mm	mm	mm	kg
CSNA 20 RS 150/1 0°	720	1290	2570	94
CSNA 20 RS 200/1 0°	720	1290	2570	122
CSNA 20 RS 220/2 0°	720	2400	2570	143
CSNA 20 RS 300/2 0°	720	2400	2570	193
CSNA 20 RS 300/3 0°	720	3500	2570	200
CSNA 20 RS 150/1 30°	1135	1290	2315	112
CSNA 20 RS 200/1 30°	1135	1290	2315	136
CSNA 20 RS 220/2 30°	1135	2400	2315	162
CSNA 20 RS 300/2 30°	1135	2400	2315	198
CSNA 20 RS 300/3 30°	1135	3500	2315	236

Systems designed for the production of domestic hot water (up to 5 people), even in climatic zones with non optimal weather conditions. They consist of preassembled components and do not require pumps or electronic control devices, thus ensuring a simple and fast installation. The package includes:

- High efficiency solar collector CSAL 20 RS, well insulated, provided with aluminum absorber treated with selective deposition.
- Double chamber enamelled cylinder, with polyurethane insulation and magnesium anode.
- Fixing kits for the installation of the system: in parallel to the roof or inclined at an angle of 30° on flat surfaces.
- Non-toxic, biodegradable and biocompatible frost-protection liquid.
- Single-phase supplementary electrical resistance (to be used as frost protection too) available as an accessory. The system is provided with Solar Keymark certification according to UNI EN 12976 and is equipped with solar panels provided with solar keymark certification according to UNI EN 12975 and 9806.

TECHNICAL DATA

Description	Solar c	Solar collectors		Number of	Capacity	Notes	Code
	Number	Gross area m²	kg	people	liters		
CSNA 20 RS 150/1 0°	1	1,91	2,5	2-3	153	(1)	20099761
CSNA 20 RS 200/1 0°	1	1,91	2,5	2-3	202	(1)	20157521
CSNA 20 RS 220/2 0°	2	3,82	5	3-4	223	(1)	20099764
CSNA 20 RS 300/2 0°	2	3,82	5	4-5	278	(1)	20099766
CSNA 20 RS 300/3 0°	3	5,73	7,5	4-5	278	(1)	20099767
CSNA 20 RS 150/1 30°	1	1,91	2,5	2-3	153	(2)	20087393
CSNA 20 RS 200/1 30°	1	1,91	2,5	2-3	202	(2)	20157732
CSNA 20 RS 220/2 30°	2	3,82	5	3-4	223	(2)	20087671
CSNA 20 RS 300/2 30°	2	3,82	5	4-5	278	(2)	20087672
CSNA 20 RS 300/3 30°	3	5,73	7,5	4-5	278	(2)	20087673

- Equipped with brackets for sloping roof
- Equipped with brackets for flat roof, tilt 30°

ACCESSORIES

Description	Code
1" ¼ - 1,5 kW electrical resistance kit	20006605
1" ¼ - 3,0 kW single-phase electrical resistance kit	20094253
3/4" thermostatic mixing valve kit	20020778
2,5 kg glycol kit	20006441
5,0 kg glycol kit	4383085

Other available accessories at page 200.

SOLAR COLLECTORS

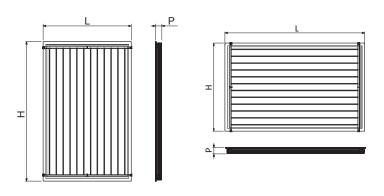


		VERTICAL				HORIZONTAL	
			2 FITTINGS		4 FITTINGS		4 FITTINGS
	n²		CSAL 25 RS		RPS 25/4		RPS 25/4
	SURFACE 2,30 m ²		Packages: 1 pc 2 - 3 - 5 pcs	1	Packages: 1 pc 2 - 5 pcs		Packages: 1 pc 2 - 5 pcs
FLAT PLATE	SUF		page 163		page 160		page 160
FLAT	n²			Timum.	CSAL 20 RS		
	SURFACE 1,91 m ²				Packages: 1 pc 2 - 3 - 7 pcs		
	S				page 165		
	П²	<i>mmmm</i>	CSV 25 R				
	SURFACE 2,77 m²		Packages: 1 pc 5 pcs				
VACUUM TUBES	SURF		page 167				
VCUU	m²		CSV 35 R				
1 /\text{\tint{\text{\text{\text{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\text{\text{\text{\text{\text{\tint{\text{\tint{\tint{\text{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\text{\text{\text{\tint{\text{\tint{\text{\tint{\text{\text{\text{\tint{\text{\tint{\tint{\tint{\text{\text{\tint{\text{\tint{\tint{\tint{\text{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\tint{\ti}\tint{\text{\tint{\text{\tint{\text{\tinit{\text{\tint{\text{\tin\tint{\tint{\tint{\tint{\tint{\tint{\tinit{\text{\tinit{\text{\tinit{\tiin}\tinit{\tiin}\tinit{\tiin}\tinit{\tiin}\tinit{\tiit{\tiin}\tiint{\tiint{\tiin}\tiit{\tiin}\tiin}\tiin}\tiin}\tiin}\tiin}\tiin}\tiin}\tiin}\tiin}\ti	SURFACE 3,91 m ²		Packages: 1 pc 5 pcs				
	SUR		page 167				

Solar collectors - Forced circulation

RPS 25/4







- Flat plate solar collectors both for vertical and horizontal installation (2,3 m²)
- Aluminium frame
- Aluminium absorber with high selective coating (TiN0x Energy AI)
- 4 fittings
- Protection film as standard

Description	L mm	H mm	P mm	Net weight kg
RPS 25/4	1195	2004	85	44
2 collectors RPS 25/4	1195	2004	85	88
5 collectors RPS 25/4	1195	2004	85	220

The solar collector RPS 25/4 can be used both for vertical and horizontal installations.

It is equipped with an aluminum absorber plate with high selective finishing in TiNOx Energy Al that allows 95% energy absorption on the surface and reduce its emission to 4%. On the plate are welded harp-shaped pipes through which the heat-transfer fluid runs. The high transparency sun glass guarantees high transmissivity.

Along with the rock wool insulation, that is 40 mm thickness, guarantees high efficiency even in case of bad weather conditions. The solar collector is provided with 4 x 1" floating fittings that ease the connection of collectors and the maintenance operations. It is possible to connect in series up to 6 panels in case of horizontal installations and up to 10 panels in case of vertical installations. A film is provided as standard to protect the collector from overheating before the system starts working.

A wide range of accessories and fixing systems is available to ensure maximum installation flexibility.

The solar collector complies with EN 12975, ISO 9806 and is Solar Keymark certified.

5 year warranty.

TECHNICAL DATA

Description	Solar o	Solar collectors		Absorber data			Notes	Code
	Gross area m²	Absorber area m²	ŋ 0	a1 W/m²k	a2 W/m²k²	- temperature °C		
RPS 25/4	2,30	2,14	0,802	4,28	0,0064	197	(1)	20127137
2 collectors RPS 25/4	4,60	4,30	0,802	4,28	0,0064	197	(2)	20140510
5 collectors RPS 25/4	11,50	10,75	0,802	4,28	0,0064	197	(2)	20140511

 $\eta 0$ = optical efficiency.

a1, a2 = heat loss coefficients. (1) One single collector in on

One single collector in one package

Collectors supplied in pallet of 2 or 5 pcs

HEAT PUMPS

ACCESSORIES FOR VERTICAL INSTALLATION

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe		20132143
Kit of two fittings to tighten terminals		20094627
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow and		4383254
return, solar probe cable and suitable insulation for solar applications)		4303234
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //		20104603
Brackets kit for 2 collectors in //		20104604
Brackets kit for 3 collectors in //		20104605
Brackets kit for 4 collectors in //		20104606
Brackets kit for 5 collectors in //		20104610
Brackets kit for 6 collectors in //		20104611
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof		20104616
rackets kit for 2 collectors at 30° for flat roof		20104618
Brackets kit for 3 collectors at 30° for flat roof		20104619
Brackets kit for 4 collectors at 30° for flat roof		20104621
Brackets kit for 5 collectors at 30° for flat roof		20104622
Brackets kit for 6 collectors at 30° for flat roof		20104623
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof		20104624
rackets kit for 2 collectors at 45° for flat roof		20104625
rackets kit for 3 collectors at 45° for flat roof		20104626
rackets kit for 4 collectors at 45° for flat roof		20104627
Brackets kit for 5 collectors at 45° for flat roof		20104628
Brackets kit for 6 collectors at 45° for flat roof		20104629
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Indertile brackets kit for 1 collector		20104630
Indertile brackets kit for 2 collectors		20104632
Indertile brackets kit for 3 collectors		20104634
Indertile brackets kit for 4 collectors		20104635
Indertile brackets kit for 5 collectors		20104636
Indertile brackets kit for 6 collectors		20104637
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Indertile adjustable brackets kit for 1 collector		20104638
Indertile adjustable brackets kit for 2 collectors		20104640
Indertile adjustable brackets kit for 3 collectors		20104642
Indertile adjustable brackets kit for 4 collectors		20104643
Indertile adjustable brackets kit for 5 collectors		20104644
Indertile adjustable brackets kit for 6 collectors		20104645
INSET INSTALLATION FOR VENTILATED ROOFS (MINIMUM 20° SLOPE)		20104043
nset kit for 1 collector		20145347
nset kit for 2 collectors		
nset kit for 3 collectors	\vdash	20145351
	-	20148401
nset kit for 4 collectors	-	20148404
nset kit for 5 collectors	-	20149352
nset kit for 6 collectors		20149353

⁽¹⁾ Optional component, to be installed at the highest point in the solar loop Other available accessories at page 200.

ACCESSORIES FOR HORIZONTAL INSTALLATION

Fittings kit to be welded 20132221 Fittings kit for stainless steel pipe (2) 20094627 Fittings kit for stainless steel pipe kit (916 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) Flexible stainless steel pipe kit (916 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) Flexible stainless steel pipe kit (916 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) Flexible stainless steel pipe kit (916 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) Flexible stainless steel pipe kit (916 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) Flexible stainless steel pipe kit (916 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) Flexible stainless steel pipe kit (916 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulations) Flexible stainless steel pipe kit (916 of 92 m (contains: stainless steel wavy double-pipe for flow and return, solar pipe for flow and suitable insulations) Flexible stainless steel pipe kit (916 of 92 m (contains: stainless steel wavy double-pipe for flow and suitable insulations) Flexible stainless steel pipe kit (916 of 92 m (contains: stainless steel wavy double-pipe for flow and sulatible insulations) Flexibles tite for 1 collectors in (3) 2010479 Flexible stainless steel pipe kit (916 of 91 m (substitute)) Flexibles tite for 1 collectors at 30 of 91 m (substitute) (3) 2010471 Flexible stainless steel pipe kit (916 of 910 m (substitute) (3) 20104730 Flexible stainless stee	Description	Notes	Code
Fittings kit for stainless steel pipe	Manual solar air vent kit	(1)	20026577
Kit of two fittings to tighten terminals (2) 20094627 Flexible stainless steel pipe kit \$65 of 15 m (contains; stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) Flexible stainless steel pipe kit \$66 of 20 m (contains; stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) INSTALLATION ON PITCHED ROOF WITH STUD SCREW Brackets kit for 1 collectors in // Brackets kit for 2 collectors in // Brackets kit for 3 collectors in // Brackets kit for 5 collectors in // Brackets kit for 5 collectors in // Brackets kit for 6 collectors in // Brackets kit for 6 collectors in // Brackets kit for 6 collectors in // Brackets kit for 1 collector at 30° for flat roof Brackets kit for 1 collector at 30° for flat roof Brackets kit for 1 collectors at 30° for flat roof Brackets kit for 3 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat r	Fittings kit to be welded		20132221
Flexible stainless steel pipe kit Øl of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) Flexible stainless steel pipe kit Øl of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) Flexible stainless steel pipe kit Øl of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) Flexible stainless steel pipe kit Øl of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) Flexible stainless steel pipe kit Øl of 20 m (contains: stainless steel wavy double-pipe for flow and deturn of the pipe for flow and stainless steel pipe for flow and stainless steel pipe kit Øl of 02 m (contains) Flexible stainless steel pipe kit Øl of 02 m (contains: stainless steel wavy double-pipe for flow and stainless steel pipe for flow f	Fittings kit for stainless steel pipe		20132222
return, solar probe cable and suitable insulation for solar applications)	Kit of two fittings to tighten terminals	(2)	20094627
return, solar probe cable and suitable insulation for solar applications) INSTALLATION ON PITCHED ROOF WITH STUD SCREW Brackets kit for 1 collectors in // Brackets kit for 1 collectors in // Brackets kit for 2 collectors in // Brackets kit for 5 collectors in // Brackets kit for 5 collectors in // Brackets kit for 5 collectors in // Brackets kit for 6 collectors in // Brackets kit for 1 collector at 30° for flat roof Brackets kit for 1 collector at 30° for flat roof Brackets kit for 2 collectors at 30° for flat roof Brackets kit for 3 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 2 collectors at 45° for flat roof Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors B	Flexible stainless steel pipe kit \emptyset 16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Brackets kit for 1 collectors in // Brackets kit for 2 collectors in // Brackets kit for 3 collectors in // Brackets kit for 4 collectors in // Brackets kit for 5 collectors in // Brackets kit for 6 collectors in // Brackets kit for 5 collectors in // Brackets kit for 6 collectors in // Brackets kit for 1 collector at 30° for flat roof Brackets kit for 1 collector at 30° for flat roof Brackets kit for 2 collectors at 30° for flat roof Brackets kit for 2 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 1 collectors at 30° for flat roof Brackets kit for 1 collectors at 45° for flat roof Brackets kit for 1 collectors at 45° for flat roof Brackets kit for 1 collectors at 45° for flat roof Brackets kit for 2 collectors at 45° for flat roof Brackets kit for 2 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors Bra	Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
Brackets kit for 2 collectors in // Brackets kit for 3 collectors in // Brackets kit for 3 collectors in // Brackets kit for 5 collectors in // Brackets kit for 5 collectors in // Brackets kit for 5 collectors in // Brackets kit for 6 collectors in // Brackets kit for 1 collector at 30° for flat roof Brackets kit for 2 collectors at 30° for flat roof Brackets kit for 2 collectors at 30° for flat roof Brackets kit for 2 collectors at 30° for flat roof Brackets kit for 4 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 7 collectors at 30° for flat roof Brackets kit for 1 collectors at 45° for flat roof Brackets kit for 1 collectors at 45° for flat roof Brackets kit for 1 collectors at 45° for flat roof Brackets kit for 1 collectors at 45° for flat roof Brackets kit for 1 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors Brackets kit for 7 collector Brackets kit for 8 collectors Brackets kit for 9 collectors Bracke	INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 3 collectors in // Brackets kit for 4 collectors in // Brackets kit for 6 collectors in // Brackets kit for 1 collector at 30° for flat roof Brackets kit for 1 collector at 30° for flat roof Brackets kit for 2 collectors at 30° for flat roof Brackets kit for 3 collectors at 30° for flat roof Brackets kit for 3 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors Brackets kit for 7 collectors Brackets kit for 7 collectors Brackets kit for 7 collectors Brackets kit for 6 collectors Brackets kit fo	Brackets kit for 1 collector in //	(3)	20104698
Brackets kit for 4 collectors in // (3) 20104704 Brackets kit for 5 collectors in // (3) 20104705 Brackets kit for 6 collectors in // (3) 20104708 INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW ************************************	Brackets kit for 2 collectors in //	(3)	20104699
Brackets kit for 5 collectors in // Brackets kit for 6 collectors in // Brackets kit for 6 collectors in // Brackets kit for 6 collector at 30° for flat roof Brackets kit for 1 collector at 30° for flat roof Brackets kit for 2 collectors at 30° for flat roof Brackets kit for 2 collectors at 30° for flat roof Brackets kit for 2 collectors at 30° for flat roof Brackets kit for 4 collectors at 30° for flat roof Brackets kit for 4 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 2 collectors at 45° for flat roof Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors Brackets k	Brackets kit for 3 collectors in //	(3)	20104701
Brackets kit for 6 collectors in // INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW Brackets kit for 1 collector at 30° for flat roof Brackets kit for 2 collectors at 30° for flat roof Brackets kit for 3 collectors at 30° for flat roof Brackets kit for 4 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 2 collectors at 45° for flat roof Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors Brackets kit for 7 collector Brackets kit for 8 collectors Brackets kit for 9 col	Brackets kit for 4 collectors in //	(3)	20104704
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW Brackets kit for 1 collector at 30° for flat roof Brackets kit for 2 collectors at 30° for flat roof (3) 20104713 Brackets kit for 3 collectors at 30° for flat roof (3) 20104718 Brackets kit for 4 collectors at 30° for flat roof (3) 20104718 Brackets kit for 4 collectors at 30° for flat roof (3) 20104722 Brackets kit for 5 collectors at 30° for flat roof (3) 20104722 Brackets kit for 6 collectors at 30° for flat roof (3) 20104727 INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW Brackets kit for 1 collector at 45° for flat roof (3) 20104730 Brackets kit for 1 collectors at 45° for flat roof (3) 20104730 Brackets kit for 2 collectors at 45° for flat roof (3) 20104732 Brackets kit for 3 collectors at 45° for flat roof (3) 20104734 Brackets kit for 5 collectors at 45° for flat roof (3) 20104737 Brackets kit for 6 collectors at 45° for flat roof (3) 20104738 Brackets kit for 6 collectors at 45° for flat roof (3) 20104738 Brackets kit for 6 collectors at 45° for flat roof (3) 20104738 Brackets kit for 6 collectors at 45° for flat roof (3) 20104741 Undertile brackets kit for 1 collector (3) 20104741 Undertile brackets kit for 2 collectors (3) 20104742 Undertile brackets kit for 3 collectors (3) 20104743 Undertile brackets kit for 5 collectors (3) 20104745 Undertile brackets kit for 6 collectors (3) 20104745 Undertile brackets kit for 6 collectors (3) 20104749 Undertile adjustable brackets kit for 1 collector (3) 20104749 Undertile adjustable brackets kit for 3 collectors (3) 20104762 Undertile adjustable brackets kit for 3 collectors (3) 20104762 Undertile adjustable brackets kit for 4 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104765	Brackets kit for 5 collectors in //	(3)	20104705
Brackets kit for 1 collectors at 30° for flat roof Brackets kit for 2 collectors at 30° for flat roof Brackets kit for 3 collectors at 30° for flat roof Brackets kit for 3 collectors at 30° for flat roof Brackets kit for 4 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 2 collectors at 45° for flat roof Brackets kit for 2 collectors at 45° for flat roof Brackets kit for 4 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors Brackets kit for 6 collectors Brackets kit for 6 collectors Brackets kit for 1 collector Brackets kit for 1 collectors Brackets kit for 2 collectors Brackets kit for 5 collectors Brackets kit for 6 collectors Brackets kit for 7 collectors Brackets kit for 8 collectors Brackets kit for 8 collectors Brackets kit for 9 collectors Brac	Brackets kit for 6 collectors in //	(3)	20104708
Brackets kit for 2 collectors at 30° for flat roof (3) 20104713 Brackets kit for 3 collectors at 30° for flat roof (3) 20104718 Brackets kit for 4 collectors at 30° for flat roof (3) 20104721 Brackets kit for 5 collectors at 30° for flat roof (3) 20104722 Brackets kit for 6 collectors at 30° for flat roof (3) 20104727 INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW Brackets kit for 1 collector at 45° for flat roof (3) 20104730 Brackets kit for 2 collectors at 45° for flat roof (3) 20104732 Brackets kit for 3 collectors at 45° for flat roof (3) 20104732 Brackets kit for 3 collectors at 45° for flat roof (3) 20104734 Brackets kit for 5 collectors at 45° for flat roof (3) 20104734 Brackets kit for 5 collectors at 45° for flat roof (3) 20104737 Brackets kit for 6 collectors at 45° for flat roof (3) 20104738 Brackets kit for 6 collectors at 45° for flat roof (3) 20104738 Brackets kit for 6 collectors at 45° for flat roof (3) 20104741 Undertile brackets kit for 1 collector (3) 20104741 Undertile brackets kit for 2 collectors (3) 20104742 Undertile brackets kit for 3 collectors (3) 20104743 Undertile brackets kit for 5 collectors (3) 20104745 Undertile brackets kit for 6 collectors (3) 20104745 Undertile brackets kit for 6 collectors (3) 20104746 Undertile brackets kit for 6 collectors (3) 20104748 PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS Undertile adjustable brackets kit for 1 collector (3) 20104748 PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS Undertile adjustable brackets kit for 1 collectors (3) 20104746 Undertile adjustable brackets kit for 1 collectors (3) 20104762 Undertile adjustable brackets kit for 3 collectors (3) 20104762 Undertile adjustable brackets kit for 4 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104762	INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 3 collectors at 30° for flat roof Brackets kit for 4 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 2 collectors at 45° for flat roof Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors Brackets kit for 1 collector Brackets kit for 1 collectors Brackets kit for 2 collectors Brackets kit for 3 collectors Brackets kit for 4 collectors Brackets kit for 5 collectors Brackets kit for 5 collectors Brackets kit for 6 collectors Brackets kit for	Brackets kit for 1 collector at 30° for flat roof	(3)	20104711
Brackets kit for 4 collectors at 30° for flat roof Brackets kit for 5 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 6 collectors at 30° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 1 collector at 45° for flat roof Brackets kit for 2 collectors at 45° for flat roof Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 4 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors Brackets kit for 1 collector Brackets kit for 1 collector Brackets kit for 2 collectors Brackets kit for 3 collectors Brackets kit for 3 collectors Brackets kit for 4 collectors Brackets kit for 5 collectors Brackets kit for 5 collectors Brackets kit for 6	Brackets kit for 2 collectors at 30° for flat roof	(3)	20104713
Brackets kit for 5 collectors at 30° for flat roof (3) 20104722 Brackets kit for 6 collectors at 30° for flat roof (3) 20104727 INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW Brackets kit for 1 collector at 45° for flat roof (3) 20104730 Brackets kit for 2 collectors at 45° for flat roof (3) 20104732 Brackets kit for 3 collectors at 45° for flat roof (3) 20104734 Brackets kit for 4 collectors at 45° for flat roof (3) 20104734 Brackets kit for 5 collectors at 45° for flat roof (3) 20104737 Brackets kit for 5 collectors at 45° for flat roof (3) 20104738 Brackets kit for 6 collectors at 45° for flat roof (3) 20104738 Brackets kit for 6 collectors at 45° for flat roof (3) 20104738 Brackets kit for 6 collectors at 45° for flat roof (3) 20104738 Brackets kit for 6 collectors at 45° for flat roof (3) 20104738 Undertile brackets kit for 1 collector (3) 20104741 Undertile brackets kit for 2 collectors (3) 20104742 Undertile brackets kit for 3 collectors (3) 20104743 Undertile brackets kit for 4 collectors (3) 20104745 Undertile brackets kit for 6 collectors (3) 20104746 Undertile brackets kit for 6 collectors (3) 20104746 Undertile adjustable brackets kit for 1 collector (3) 20104749 Undertile adjustable brackets kit for 3 collectors (3) 20104760 Undertile adjustable brackets kit for 4 collectors (3) 20104760 Undertile adjustable brackets kit for 5 collectors (3) 20104760 Undertile adjustable brackets kit for 5 collectors (3) 20104760 Undertile adjustable brackets kit for 5 collectors (3) 20104760 Undertile adjustable brackets kit for 5 collectors (3) 20104760 Undertile adjustable brackets kit for 5 collectors (3) 20104760 Undertile adjustable brackets kit for 5 collectors (3) 20104765	Brackets kit for 3 collectors at 30° for flat roof	(3)	20104718
Brackets kit for 6 collectors at 30° for flat roof INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW Brackets kit for 1 collector at 45° for flat roof Brackets kit for 2 collectors at 45° for flat roof Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 4 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 1 collector Brackets kit for 1 collector Brackets kit for 2 collectors Brackets kit for 2 collectors Brackets kit for 3 collectors Brackets kit for 3 collectors Brackets kit for 4 collectors Brackets kit for 5 collectors Brackets kit for 5 collectors Brackets kit for 6 collectors Brackets kit for 6 collectors Brackets kit for 6 collectors Brackets kit for 7 collectors Brackets kit for 6 collectors Brackets ki	Brackets kit for 4 collectors at 30° for flat roof	(3)	20104721
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW Brackets kit for 1 collector at 45° for flat roof (3) 20104730 Brackets kit for 2 collectors at 45° for flat roof (3) 20104732 Brackets kit for 3 collectors at 45° for flat roof (3) 20104734 Brackets kit for 4 collectors at 45° for flat roof (3) 20104737 Brackets kit for 4 collectors at 45° for flat roof (3) 20104737 Brackets kit for 5 collectors at 45° for flat roof (3) 20104738 Brackets kit for 6 collectors at 45° for flat roof (3) 20104738 Brackets kit for 6 collectors at 45° for flat roof (3) 20104738 Brackets kit for 1 collector (3) 20104740 Undertile brackets kit for 1 collector (3) 20104741 Undertile brackets kit for 2 collectors (3) 20104742 Undertile brackets kit for 3 collectors (3) 20104743 Undertile brackets kit for 4 collectors (3) 20104745 Undertile brackets kit for 6 collectors (3) 20104746 Undertile brackets kit for 6 collectors (3) 20104748 PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS Undertile brackets kit for 6 collectors (3) 20104748 PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS Undertile adjustable brackets kit for 1 collector (3) 20104749 Undertile adjustable brackets kit for 2 collectors (3) 20104760 Undertile adjustable brackets kit for 3 collectors (3) 20104761 Undertile adjustable brackets kit for 4 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104765	Brackets kit for 5 collectors at 30° for flat roof	(3)	20104722
Brackets kit for 1 collector at 45° for flat roof Brackets kit for 2 collectors at 45° for flat roof Brackets kit for 2 collectors at 45° for flat roof Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 4 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors Undertile brackets kit for 1 collector Brackets kit for 2 collectors Brackets kit for 3 collectors Brackets kit for 4 collectors Brackets kit for 5 collectors Brackets kit for 6 collectors Brackets	Brackets kit for 6 collectors at 30° for flat roof	(3)	20104727
Brackets kit for 2 collectors at 45° for flat roof Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 4 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors with Undertile Brackets Undertile brackets kit for 1 collector Undertile brackets kit for 2 collectors Undertile brackets kit for 3 collectors Undertile brackets kit for 4 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 6 collectors Undertile brackets kit for 6 collectors Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 co	INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 3 collectors at 45° for flat roof Brackets kit for 4 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 1 collector Undertile brackets kit for 1 collector Undertile brackets kit for 3 collectors Undertile brackets kit for 3 collectors Undertile brackets kit for 4 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 6 collectors Undertile brackets kit for 6 collectors Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104749 Undertile adjustable brackets kit for 4 collectors (3) 20104760 Undertile adjustable brackets kit for 5 collectors (3) 20104760 Undertile adjustable brackets kit for 5 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104765	Brackets kit for 1 collector at 45° for flat roof	(3)	20104730
Brackets kit for 4 collectors at 45° for flat roof Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS Undertile brackets kit for 1 collector Undertile brackets kit for 2 collectors Undertile brackets kit for 3 collectors Undertile brackets kit for 4 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 6 collectors Undertile brackets kit for 6 collectors Undertile brackets kit for 6 collectors Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104765 Undertile adjustable brackets kit for 5 collectors (3) 20104765	Brackets kit for 2 collectors at 45° for flat roof	(3)	20104732
Brackets kit for 5 collectors at 45° for flat roof Brackets kit for 6 collectors at 45° for flat roof PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS Undertile brackets kit for 1 collector Undertile brackets kit for 2 collectors Undertile brackets kit for 3 collectors Undertile brackets kit for 4 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 6 collectors Undertile brackets kit for 6 collectors Undertile brackets kit for 6 collectors Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors (3) 20104749 Undertile adjustable brackets kit for 4 collectors (3) 20104760 Undertile adjustable brackets kit for 5 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104765	Brackets kit for 3 collectors at 45° for flat roof	(3)	20104734
Brackets kit for 6 collectors at 45° for flat roof PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS Undertile brackets kit for 1 collector Undertile brackets kit for 2 collectors Undertile brackets kit for 3 collectors Undertile brackets kit for 3 collectors Undertile brackets kit for 4 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 6 collectors Undertile brackets kit for 6 collectors Undertile brackets kit for 6 collectors Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104749 Undertile adjustable brackets kit for 5 collectors (3) 20104760 Undertile adjustable brackets kit for 5 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104765	Brackets kit for 4 collectors at 45° for flat roof	(3)	20104737
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS Undertile brackets kit for 1 collector Undertile brackets kit for 2 collectors Undertile brackets kit for 3 collectors Undertile brackets kit for 4 collectors Undertile brackets kit for 4 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 6 collectors Undertile brackets kit for 6 collectors Undertile brackets kit for 6 collectors PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104761 Undertile adjustable brackets kit for 5 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104765	Brackets kit for 5 collectors at 45° for flat roof	(3)	20104738
Undertile brackets kit for 1 collectors Undertile brackets kit for 2 collectors Undertile brackets kit for 3 collectors Undertile brackets kit for 3 collectors Undertile brackets kit for 4 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 6 collectors Undertile brackets kit for 6 collectors Undertile brackets kit for 6 collectors PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104761 Undertile adjustable brackets kit for 5 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104765	Brackets kit for 6 collectors at 45° for flat roof	(3)	20104150
Undertile brackets kit for 2 collectors Undertile brackets kit for 3 collectors Undertile brackets kit for 4 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 6 collectors Undertile brackets kit for 6 collectors PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104765 Undertile adjustable brackets kit for 5 collectors (3) 20104765	PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 3 collectors Undertile brackets kit for 4 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 6 collectors PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104769 Undertile adjustable brackets kit for 5 collectors (3) 20104761	Undertile brackets kit for 1 collector	(3)	20104741
Undertile brackets kit for 4 collectors Undertile brackets kit for 5 collectors Undertile brackets kit for 6 collectors PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104749 Undertile adjustable brackets kit for 5 collectors (3) 20104761 Undertile adjustable brackets kit for 5 collectors (3) 20104762	Undertile brackets kit for 2 collectors	(3)	20104742
Undertile brackets kit for 5 collectors Undertile brackets kit for 6 collectors PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104750 Undertile adjustable brackets kit for 5 collectors (3) 20104761 Undertile adjustable brackets kit for 5 collectors (3) 20104762	Undertile brackets kit for 3 collectors	(3)	20104743
Undertile brackets kit for 6 collectors PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104761 Undertile adjustable brackets kit for 5 collectors (3) 20104762	Undertile brackets kit for 4 collectors	(3)	20104745
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104761 Undertile adjustable brackets kit for 5 collectors (3) 20104762	Undertile brackets kit for 5 collectors	(3)	20104746
Undertile adjustable brackets kit for 1 collector Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104765	Undertile brackets kit for 6 collectors	(3)	20104748
Undertile adjustable brackets kit for 2 collectors Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104765	PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 3 collectors Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104762 Undertile adjustable brackets kit for 5 collectors (3) 20104765	Undertile adjustable brackets kit for 1 collector	(3)	20104749
Undertile adjustable brackets kit for 4 collectors Undertile adjustable brackets kit for 5 collectors (3) 20104762 20104765	Undertile adjustable brackets kit for 2 collectors	(3)	20104750
Undertile adjustable brackets kit for 5 collectors (3) 20104765	Undertile adjustable brackets kit for 3 collectors	(3)	20104761
	Undertile adjustable brackets kit for 4 collectors	(3)	20104762
Undertile adjustable brackets kit for 6 collectors (3) 20104768	Undertile adjustable brackets kit for 5 collectors	(3)	20104765
	Undertile adjustable brackets kit for 6 collectors	(3)	20104768

- (1) Optional component, to be installed at the highest point in the solar loop.
 (2) To use eventually to integrate the brackets kits (see note (3)).
 (3) The brackets kit include:

 "male" terminal fittings, as required in installation with flow/return on the upper side (as shown in the manual). In case of a different installation, use code 20094627;

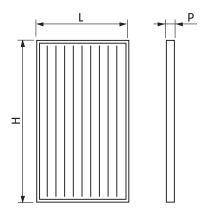
 flexible connections between collectors.

 Other available accessories at page 200.

Solar collectors - Forced circulation

CSAL 25 RS







- Flat plate solar collectors for vertical installation (2,5 m²)
- Aluminium frame
- Copper harp-shaped exchanger
- Aluminium absorber with high selective coating (TiNOx Energy AI)
- · Protection film as standard

Description	L mm	H mm	P mm	Net weight kg
CSAL 25 RS	2003	1144	85	40
2 collectors CSAL 25 RS	2003	1144	85	80
3 collectors CSAL 25 RS	2003	1144	85	120
5 collectors CSAL 25 RS	2003	1144	85	200

Solar collector CSAL 25 RS is provided with an alluminium absorber plate with high selective coating made of TiNOx Energy AI, wich allows an energy absorption of 95% from the sun's rays on the surface and reduces its emission to 4%. The absorber plate is ultrasonically welded to 12 copper harp-shaped pipes trough wich the heat-transfer fluid runs.

The tempered solar glass, wich is 3.2 mm thickness, along with the rock wool insulation, wich is 40 mm thickness on the bottom side, ensure high efficiency even in case of bad weather conditions.

The solar collector has been designed with two 1" fittings to make the connection in series of collectors easier (up to a max of 6)

and to ensure low head losses (the heat-trasfer liquid flows trough the collectors in parallel) and high efficiency. Two of the four connections need to be closed by brass screw plugs.

A film is provided as standard to protect the collector from overheating before the system starts working.

The solar collector complies with the EN 12975 directive and is Solar Keymark certified.

A wide range of accessories and fixing elements is available to meet all installation requirements.

TECHNICAL DATA

Description	Solar c	ollectors	Absorber data		Maximum	Notes	Code	
	Gross area m²	Absorber area m²	ŋ 0	a1 W/m²k	a2 W/m²k²	temperature °C		
CSAL 25 RS	2,3	2,15	0,787	4,10	0,0084	197	(1)	20094516
2 collectors CSAL 25 RS	4,6	4,30	0,787	4,10	0,0084	197	(2)	20104587
3 collectors CSAL 25 RS	6,9	6,45	0,787	4,10	0,0084	197	(3)	20104588
5 collectors CSAL 25 RS	11,5	10,75	0,787	4,10	0,0084	197	(4)	20104592

- One single collector in one package.
- Collectors supplied in pallet of 2 pcs.
- Collectors supplied in pallet of 3 pcs.
- Collectors supplied in pallet of 5 pcs.

ACCESSORIES

RIELLO

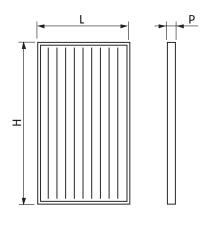
Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe		20132143
Flexible stainless steel pipe kit \emptyset 16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
Replacement kit for CSAL 25 R and CSL 25 R		20108732
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //		20104603
Brackets kit for 2 collectors in //		20104604
Brackets kit for 3 collectors in //		20104605
Brackets kit for 4 collectors in //		20104606
Brackets kit for 5 collectors in //		20104610
Brackets kit for 6 collectors in //		20104611
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof		20104616
Brackets kit for 2 collectors at 30° for flat roof		20104618
Brackets kit for 3 collectors at 30° for flat roof		20104619
Brackets kit for 4 collectors at 30° for flat roof		20104621
Brackets kit for 5 collectors at 30° for flat roof		20104622
Brackets kit for 6 collectors at 30° for flat roof		20104623
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof		20104624
Brackets kit for 2 collectors at 45° for flat roof		20104625
Brackets kit for 3 collectors at 45° for flat roof		20104626
Brackets kit for 4 collectors at 45° for flat roof		20104627
Brackets kit for 5 collectors at 45° for flat roof		20104628
Brackets kit for 6 collectors at 45° for flat roof		20104629
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector		20104630
Undertile brackets kit for 2 collectors		20104632
Undertile brackets kit for 3 collectors		20104634
Undertile brackets kit for 4 collectors		20104635
Undertile brackets kit for 5 collectors		20104636
Undertile brackets kit for 6 collectors		20104637
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector		20104638
Undertile adjustable brackets kit for 2 collectors		20104640
Undertile adjustable brackets kit for 3 collectors		20104642
Undertile adjustable brackets kit for 4 collectors		20104643
Undertile adjustable brackets kit for 5 collectors		20104644
Undertile adjustable brackets kit for 6 collectors		20104645

⁽¹⁾ Optional component, to be installed at the highest point in the solar loop. Other available accessories at page 200.

Solar collectors - Forced circulation

CSAL 20 RS







- Flat plate solar collectors for vertical installation (2 m²)
- Aluminium frame
- Copper harp-shaped exchanger
- · Aluminium absorber with high selective coating (TiN0x Energy AI)
- Protection film as standard

Description	L mm	H mm	P mm	Net weight kg
CSAL 20 RS	1818	1048	70	30
2 collectors CSAL 20 RS	1818	1048	70	60
3 collectors CSAL 20 RS	1818	1048	70	90
7 collectors CSAL 20 RS	1818	1048	70	210

Solar collector CSAL 20 RS is provided with an alluminium absorber plate with high selective coating made of TiNOx Energy AI, wich allows an energy absorption of 95% from the sun's rays on the surface and reduces its emission to 4%. The absorber plate is ultrasonically welded to 10 copper harp-shaped pipes trough wich the heat-transfer fluid runs.

The tempered solar glass, wich is 3.2 mm thickness, along with the rock wool insulation, wich is 30 mm thickness on the bottom side, ensure high efficiency even in case of bad weather conditions.

The solar collector has been designed with four 1" fittings to make the connection in series of collectors easier (up to a max of 6) and to ensure low head losses (the heat-trasfer liquid flows trough the collectors in parallel) and high efficiency.

Two of the four connections need to be closed by brass screw plugs.

A film is provided as standard to protect the collector from overheating before the system starts working.

The solar collector complies with the EN 12975 directive and is Solar Keymark certified.

A wide range of accessories and fixing elements is available to meet all installation requirements.

TECHNICAL DATA

Description	Solar o	Solar collectors		Absorber data			Notes	Code
	Gross area m²	Absorber area m²	η0	a1 W/m²k	a2 W/m²k²	temperature °C		
CSAL 20 RS	1,91	1,77	0,781	4,98	0,0005	192	(1)	20094521
2 collectors CSAL 20 RS	3,82	3,54	0,781	4,98	0,0005	192	(2)	20104593
3 collectors CSAL 20 RS	5,73	5,31	0,781	4,98	0,0005	192	(3)	20104595
7 collectors CSAL 20 RS	13,37	12,39	0,781	4,98	0,0005	192	(4)	20104596

- One single collector in one package.
- Collectors supplied in pallet of 2 pcs. Collectors supplied in pallet of 3 pcs.
- Collectors supplied in pallet of 7 pcs.

ACCESSORIES

RIELLO

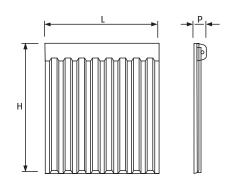
Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe		20132143
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
Replacement kit for CSAL 20 R and CSL 20 R		20108733
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //		20104652
Brackets kit for 2 collectors in //		20104654
Brackets kit for 3 collectors in //		20104656
Brackets kit for 4 collectors in //		20104659
Brackets kit for 5 collectors in //		20104660
Brackets kit for 6 collectors in //		20104662
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof		20104664
Brackets kit for 2 collectors at 30° for flat roof		20104666
Brackets kit for 3 collectors at 30° for flat roof		20104667
Brackets kit for 4 collectors at 30° for flat roof		20104673
Brackets kit for 5 collectors at 30° for flat roof		20104675
Brackets kit for 6 collectors at 30° for flat roof		20104676
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof		20104677
Brackets kit for 2 collectors at 45° for flat roof		20104679
Brackets kit for 3 collectors at 45° for flat roof		20104680
Brackets kit for 4 collectors at 45° for flat roof		20104682
Brackets kit for 5 collectors at 45° for flat roof		20104683
Brackets kit for 6 collectors at 45° for flat roof		20104684
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector		20104685
Undertile brackets kit for 2 collectors		20104686
Undertile brackets kit for 3 collectors		20104687
Undertile brackets kit for 4 collectors		20104688
Undertile brackets kit for 5 collectors		20104690
Undertile brackets kit for 6 collectors		20104691
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTDTABLE BRACKETS		
Indertile adjustable brackets kit for 1 collector		20104692
Indertile adjustable brackets kit for 2 collectors		20104693
Undertile adjustable brackets kit for 3 collectors		20104694
Undertile adjustable brackets kit for 4 collectors		20104695
Undertile adjustable brackets kit for 5 collectors		20104696
Undertile adjustable brackets kit for 6 collectors		20104697

⁽¹⁾ Optional component, to be installed at the highest point in the solar loop. Other available accessories at page 200.

Solar collectors - Forced circulation

CSV R







- Vacuum tube solar collectors for vertical installation (2,77 m² for 14 tubes and 3,91 m² for 20 tubes)
- U-shaped copper exchanger
- Double-wall vacuum glass tubes (Sydney type)

Description	L mm	H mm	P mm	Net weight kg
Collector CSV 25 R	1600	1730	145	52
5 collectors CSV 25 R	8000	1730	145	260
Collector CSV 35 R	2260	1730	145	74
5 collectors CSV 35 R	11300	1730	145	370

Solar collectors CSV 25 R and CSV 35 R have respectively 14 and 20 vacuum double-walled glass Sydney tubes, containing a U-shaped copper pipe, which is mechanically fixed to an aluminium circumferential absorber, whose external surface is provided with the selective absorbing coat.

Copper pipes are connected in parallel and the heat-transfer liquid runs through them going downwards and then rising back again while absorbing heat from the direct solar irradiation reflected by a CPC mirror (Compound Parabolic Concentrator).

The double-walled glass tube contains a vacuum thermal insulation called "termos", ensuring high performances even in the event of sudden changes between the average operating temperature of the heat-transfer liquid and the ambient temperature, which are typical of those areas with very cold weather conditions or industrial applications.

The solar collector is provided with hydraulic fittings to be tightened on Ø18 pipes; it is possible to connect up to 6 collectors in series. Glass tubes and CPC reflecting mirror are easy to replace and do not require to empty the solar circuit.

The solar collector CSV R complies with the EN12975 directive and is Solar Keymark certified.

A wide range of accessories and fixing elements is available to meet all installation requirements.

TECHNICAL DATA

Description	Solar o	ollectors		Absorber data	1	Maximum		Code
		Absorber area m²	ŋ 0	a1 W/m²k	a2 W/m²k²	temperature °C		
Collector CSV 25 R	2,77	2,69	0,700	1,15	0,011	268	(1)	20023353
5 collectors CSV 25 R	13,85	13,45	0,700	1,15	0,011	268	(2)	20028583
Collector CSV 35 R	3,91	3,84	0,700	1,15	0,011	268	(1)	20023416
5 collectors CSV 35 R	19,55	19,20	0,700	1,15	0,011	268	(2)	20028584

- (1) One single solar collector in one package.
- (2) Pallet of 5 pcs of solar collectors

ACCESSORIES

RIELLO

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be tightened to connect the CSV R solar collectors with copper pipes and for the connection between CSV R solar collectors	.,	20027281
Fittings kit to be tightened to connect the CSV R solar collectors with flexible stainless-steel pipes (not to be used between solar collectors)		20027289
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
20 kg premixed glycol for CSV R (heat-transfer fluid ready to use, suitable for vacuum pipes collectors, frost protection up to -28 °C)		4383118
20 kg glycol-free heat-transfer liquid (long-lasting and non-toxic)		20094030
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Fixing kit in // for 1 collector CSV 25 R		20028595
Fixing kit in // for 2 collectors CSV 25 R		20028596
Fixing kit in // for 3 collectors CSV 25 R		20028597
Fixing kit in // for 4 collectors CSV 25 R		20028598
Fixing kit in // for 5 collectors CSV 25 R		20028600
Fixing kit in // for 6 collectors CSV 25 R		20028601
Fixing kit in // for 1 collector CSV 35 R		20031614
Fixing kit in // for 2 collectors CSV 35 R		20031615
Fixing kit in // for 3 collectors CSV 35 R		20031616
Fixing kit in // for 4 collectors CSV 35 R		20031617
Fixing kit in // for 5 collectors CSV 35 R		20031618
Fixing kit in // for 6 collectors CSV 35 R		20031619
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Fixing kit at 45° for 1 collector CSV 25 R		20028588
Fixing kit at 45° for 2 collectors CSV 25 R		20028589
Fixing kit at 45° for 3 collectors CSV 25 R		20028591
Fixing kit at 45° for 4 collectors CSV 25 R		20028592
Fixing kit at 45° for 5 collectors CSV 25 R		20028593
Fixing kit at 45° for 6 collectors CSV 25 R		20028594
Fixing kit at 45° for 1 collector CSV 35 R		20031620
Fixing kit at 45° for 2 collectors CSV 35 R		20031621
Fixing kit at 45° for 3 collectors CSV 35 R		20031622
Fixing kit at 45° for 4 collectors CSV 35 R		20031623
Fixing kit at 45° for 5 collectors CSV 35 R		20031624
Fixing kit at 45° for 6 collectors CSV 35 R		20031625

⁽¹⁾ Optional component, to be installed at the highest point in the solar loop. NOTE: It is necessary to order the glycol and the suitable fittings. Other available accessories at page 200.

2021 EDITION 168

SOLAR DHW AND STORAGE CYLINDERS



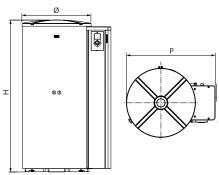
HEAT -EXCHANGERS (COILS)

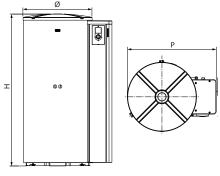
	o coil	1 COILS	2 COILS	3 COILS	FLANGES*
		RBC 1S 150-200-300 430-550-800 1000 liters	RIELLO RBS 2S Ready-i 200-300-430 550 liters		7200/3F HV PLUS 800-1000-1500 2000-3000 liters
DHW SOLAR CYLINDER		7200 HP 300-500 800 liters	RBS 25 200-300-430-550 800-1000 liters		
MHQ		7200 V PRIME 200-300-430 550-800 1000 liters	7200/2 HV PLUS 1500-2000 liters page 175		
COMBINED STORAGE TANK		7200 KOMBI PLUS 550-800 1000 liters		7200 KOMBISOLAR ³⁵ 430-550-750 1000 liters	
PUFFER		7000/S 1000-1500 liters page 187			7000/F* 2000-3000 5000 liters
HOT/COLD PUFFER	7000 ACI PLUS 60-120-200-300 400-500-800 1000-1500 2000 liters				

^{*} Flanges for the insertion of heat-exchangers (coils).

Double-coil solar cylinders

Riello RBS 2S Ready-i







- Double-coil solar cylinder
- Domestic hot water production
- Equipped with pump station and differential controller
- Erp Ready Energy efficiency class B

Description	H mm	P mm	ø (*) mm	IT (**) mm	Net weight kg
RBS 200 2S Ready-i	1338	789	604	50	115
RBS 300 2S Ready-i CLASS A	1838	789	604	50	140
RBS 300 2S Ready-i	1838	789	604	50	140
RBS 430 2S Ready-i	1644	940	755	50	160
RBS 550 2S Ready-i	1988	940	755	50	200

- Dimensions with insulation

Steel double-coil solar cylinders of high energy efficiency (all models are class B), with embossed ABS finish. The thick insulation is obtained by direct foaming method and the internal glazed enamel treatment (vitrification, according to DIN 4753) ensures absolute hygiene and make cleaning easier. The cylinder and the elliptic coils have been carefully designed to reach the best performances in terms of heat exchange, recovery time and stratification.

The column contains all the solar accessories, differential controller, in line hydraulic fittings and the inspection flange, placed between the two coils in order to facilitate cleaning and allow to use an additional electric resistance; all components are assembled, wired and tested. It is possible to install 2 cylinders of the same capacity in parallel in order to increase the volume and the exchange surface (RBS 2S Ready-i + RBS 2S + installation kit in parallel).

Specific transport handles are available as accessories; they have been studied to allow easy access through a 800 mm door.

TECHNICAL GENERAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Code
RBS 200 2S Ready-i	208	99	10	62	В	20119541
RBS 300 2S Ready-i CLASS A	301	99	10	50	А	20119547
RBS 300 2S Ready-i	301	99	10	69	В	20119542
RBS 430 2S Ready-i	442	99	10	60	В	20119543
RBS 550 2S Ready-i	551	99	10	68	В	20119544

UPPER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production I/h	Coil power input kW	Max operation pressure bar	Notes
RBS 200 2S Ready-i	3,5	0,7	400	16,1	10	(1)
RBS 300 2S Ready-i CLASS A	4,0	0,8	572	23,0	10	(1)
RBS 300 2S Ready-i	4,0	0,8	572	23,0	10	(1)
RBS 430 2S Ready-i	5,0	1,0	774	31,4	10	(1)
RBS 550 2S Ready-i	5,0	1,0	774	31,4	10	(1)

⁽¹⁾ According to DIN 4708 with $\Delta T = 20$ °C (80/60 °C) on exchanger.

LOWER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	Max operation pressure bar
RBS 200 2S Ready-i	3,5	0,7	10
RBS 300 2S Ready-i CLASS A	5,0	1,0	10
RBS 300 2S Ready-i	5,0	1,0	10
RBS 430 2S Ready-i	7,0	1,4	10
RBS 550 2S Ready-i	8,0	1,8	10

ACCESSORIES

Description	Code
Electronic anode kit	20123853
Curve kit for electronic anode	20123851
Handles kit (for RBS 200-300 models)	20123854
Handles kit (for RBS 430-550 models)	20123855
Recirculation kit	20123849
Integration kit with circulator (for 200 model)	20123847
Integration kit with circulator (for RBS 300-430-550 models)	20123846
Integration kit without circulator	20123848
Additional temperature probe kit for solar collector	20125097
Additional temperature probe kit for cylinder	20123856
Single-phase electrical resistance 1,5 kW	20119911
Single-phase electrical resistance 2,2 kW	20119912
Single-phase electrical resistance 3,0 kW	20119913
Three-phase electrical resistance 3,8 kW	20119914

WATER-HEATERS

PARALLEL INSTALLATION

RIELLO



Configuration	H mm	L mm	P mm
2x200 2S	1338	789	1218
2x300 2S	1838	789	1218
2x430 2S	1644	940	1520
2X550 2S	1988	940	1520

PARALLEL INSTALLATION ACCESSORIES

Description	Code
2 cylinders connection kit (models 200–300 liters)	20120542
2 cylinders connection kit (models 430–550 liters)	20120543

Connection kit can be completed with recirculation kit and integration kit without circulator (see Riello RBS "S Ready-i accessories). For electronic anodes utilization you can refer to the specific accessories of cylinders Riello RBS 2S Ready-i and Riello RBS 2S. For details regarding to the Riello RBS 2S Ready-i and RBS 2S consult the related pages.

Double-coil solar cylinders

RBS 2S



	L	. Ø	
*	-[
T		•	
			0
			@ @
	Į	<u> </u>	111



- Double-coil solar cylinder
- Domestic hot water production
- Erp Ready Energy efficiency class B

Description	H mm	ø (*) mm	IT (**) mm	Net weight kg
RBS 200 2S	1338	604	50	86
RBS 300 2S	1838	604	50	108
RBS 430 2S	1644	755	50	131
RBS 550 2S	1988	755	50	171
RBS 800 2S	1846	1000	100	222
RBS 1000 2S	2171	1000	100	245

- Dimensions with insulation

Steel double coil solar cylinders of high energy efficiency (all models are class B) and internal glazed enamel treatment (vitrification, according to DIN 4753) to ensure maximum hygiene and facilitate cleaning of limestone deposits. The RBS cylinders, with embossed ABS finish, are provided with a thick insulation obtained by direct foaming method for models up to 550 liters and made of removable shells for models 800 and 1000 (to be assembled).

The cylinder and the elliptic coils have been carefully designed to reach the best performance in terms of heat exchange, recovery time and stratification. The hydraulic connections are arranged on a single row, as well as the inspection flange between the two coils, in order to facilitate cleaning and to insert an additional electric resistance.

Through a specific kit, RBS 2S can operate in parallel with one RBS 2S Ready-i of the same capacity up to 550 liters (RBS 2S Ready-i + RBS 2S + installation kit in parallel). Specific transport handles are available as accessories; they have been studied to allow easy access through a 800 mm door.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
RBS 200 2S	208	99	10	62	В		20116675
RBS 300 2S	301	99	10	69	В		20116335
RBS 430 2S	442	99	10	60	В		20117339
RBS 550 2S	551	99	10	68	В		20116587
RBS 800 2S	731	99	7	94	В	(1)	20132268
RBS 1000 2S	883	99	7	101	В	(1)	20132269

Insulation to be assembled.

WATER-HEATERS

UPPER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production I/h	Coil power input kW	Max operation pressure bar	Notes
RBS 200 2S	3,5	0,7	400	16,1	10	(1)
RBS 300 2S	4,0	0,8	572	23,0	10	(1)
RBS 430 2S	5,0	1,0	774	31,4	10	(1)
RBS 550 2S	5,0	1,0	774	31,4	10	(1)
RBS 800 2S	8,0	1,6	1240	50,0	7	(1)
RBS 1000 2S	8,0	1,6	1240	50,0	7	(1)

⁽¹⁾ According to DIN 4708 with $\Delta T = 20$ °C (80/60 °C) on exchanger.

LOWER COIL HEAT EXCHANGER TECHNICAL DATA

	Description	Water content liters	Exchange surface m²	Max operation pressure bar
RBS 200 2S		3,5	0,7	10
RBS 300 2S		5,0	1,0	10
RBS 430 2S		7,0	1,4	10
RBS 550 2S		9,0	1,8	10
RBS 800 2S		11,5	2,3	7
RBS 1000 2S		13,5	2,7	7

ACCESSORIES

Description	Code
Electric anode with plug	20055206
Curve for electronic anode kit	20123851
Thermometer kit	20123850
Single-phase electrical resistance 1,5 kW (for 200-550 liters models)	20119911
Single-phase electrical resistance 2,2 kW (for 200-550 liters models)	20119912
Single-phase electrical resistance 3,0 kW (for 200-550 liters models)	20119913
Three-phase electrical resistance 3,8 kW (for 200-550 liters models)	20119914
Single-phase electrical resistance 1,5 kW (for 800-1000 liters models)	20131666
Single-phase electrical resistance 2,2 kW (for 800-1000 liters models)	20131667
Single-phase electrical resistance 3,0 kW (for 800-1000 liters models)	20131669
Three-phase electrical resistance 3,8 kW (for 800-1000 liters models)	20131670

NOTE: for installation in parallel please consult the "RBS 2S Ready-i" page.

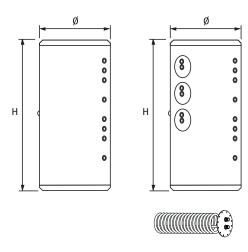
Flanged and double-coil DHW cylinders

7200/3F HV PLUS 7200/2 HV PLUS





- Domestic hot water Production
- Heat exchanger coil kit for 7200/3F to be ordered separately according to the capacity



Description	H (*) mm	ø (*) mm	IT (**) mm	Net weight kg
7200/2 - 1500 HV PLUS	2185	1200	100	324
7200/2 - 2000 HV PLUS	2470	1300	100	544
7200/3F - 800 HV PLUS	1875	990	100	168
7200/3F - 1000 HV PLUS	2105	990	100	188
7200/3F - 1500 HV PLUS	2185	1200	100	303
7200/3F - 2000 HV PLUS	2470	1300	100	321
7200/3F - 3000 HV PLUS	2730	1450	100	543

Dimensions with insulation

(*) Dimensions with in: (**) Insulation thikness

Vertical steel double-coil solar cylinders, with internal double-layer enamel (according to DIN 4753) bacteriologically inert to ensure the absolute hygiene of water, to avoid limestone deposits and make cleaning easier.

The outer coating made of hard plastic provides a better aesthetic and a high solidity of the product, without compromising the installation in terms of ease of use and flexibility.

The cylinders, are already provided with CFC-free polyurethane hard and soft removable insulation (thickness of 100 mm) to make the installation easier; insulation supplied separately for the 2000-liters model. The care taken to study the geometry of solar cylinder and coils provides the best stratification, heat exchange and recovery time.

Easy maintenance thanks to the lateral flange for inspection, anticorrosion anodic protection. It is possible to use additional electrical resistance.

TECHNICAL DATA

Description	Cylinder capacity	Maximum temperature	Maximum pressure	Thermal losses W	Energy efficiency class	Notes	Code
	liters	°C	bar		≋		
7200/2 - 1500 HV PLUS	1390	99	8	162	С		20136237
7200/2 - 2000 HV PLUS	1950	99	8	186	С		20136239
7200/3F - 800 HV PLUS	749	99	10	130	С	(1)	20136273
7200/3F - 1000 HV PLUS	855	99	10	142	С	(1)	20136274
7200/3F - 1500 HV PLUS	1430	99	8	162	С	(1)	20136275
7200/3F - 2000 HV PLUS	1990	99	8	186	С	(1)	20136277
7200/3F - 3000 HV PLUS	2959	99	8	_	_	(1)	20052788

(1) Flanged solar cylinder supplied without coils, to be ordered separately NOTE: flanged solar cylinder supplied without coils, to be ordered separately.

UPPER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production I/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7200/2 - 1500 HV PLUS	10,4	1,8	1200	47	110	10	(1)
7200/2 - 2000 HV PLUS	16,9	2,8	1800	73	110	10	(1)

⁽¹⁾ According to DIN 4708 with ΔT =20 °C (80/60 °C) on exchanger

LOWER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production I/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7200/2 - 1500 HV PLUS	19,4	3,4	2200	88	110	10	(1)
7200/2 - 2000 HV PLUS	28,1	4,5	2900	120	110	10	(1)

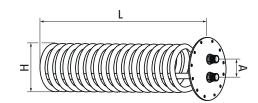
According to DIN 4708 with ΔT =20 °C (80/60 °C) on exchanger

ACCESSORIES

Description	Notes	Code
Three-phase electrical resistence 3,8 kW of 1" ½		20020707
Tin coated copper coil kit 2,63 m² - 1,74 l - 10 bar	(1)	20055205
Tin coated copper coil kit 4,54 m² - 3,56 l - 10 bar	(1)	4383089
Tin coated copper coil kit 6,34 m² - 5,10 l - 10 bar	(1)(2)	4383087
Electric anode with plug		20055206

HEAT EXCHANGER COIL

Description	L	Н	Α	Net weight
	mm	mm	mm	kg
Tin coated copper coil kit 2,63 m ²	580	DN200	80	14,9
Tin coated copper coil kit 4,54 m²	750	DN200	80	22,6
Tin coated copper coil kit 6,34 m ²	980	DN200	80	29,0



TECHNICAL DATA

Description	Water exchanger surface m ²	Absorbed power (*) kW	Necessary capacity heat exchanger (*) m³/h	DHW output (*) m³/h	Pressure loss mbar	Maximum operating pressure of coil bar	Pipe diameter mm	Pipe's number	Water capacity I
Tin coated copper coil kit 2,63 m ²	2,63	53	2,3	1,3	748	10	18x1	1	1,74
Tin coated copper coil kit 4,54 m ²	4,54	91	3,9	2,2	720	10	18x1	2	3,56
Tin coated copper coil kit 6,34 m ²	6,34	127	5,5	3,1	2017	10	18x1	2	5,10

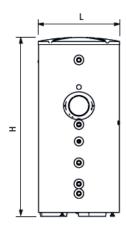
According to DIN 4708, to get domestic hot water with ΔT 35 °C (10/45 °C) and ΔT 20 °C (80/60 °C) on the heat-exchanger, please observe the values showed in the datasheet concerning absorbed power and necessary capacity heat-exchanger.

 ⁽¹⁾ Only for 7200/3F HV PLUS.
 (2) Not suitable for 7200/3F 800 HV Plus and 7200/3F 1000 HV Plus.
 Pump stations and differential controller are available at page 192. Other available accessories at page 200.



Single coil DHW cylinders

RBC 1S





- Steel single coil vertical cylinders
- Domestic hot water production

Description	H (*) mm	Ø (*) mm	IT (**) mm	Net weight (*) kg
RBC 150 1S	1088	604	52	62
RBC 200 1S	1338	604	52	78
RBC 300 1S	1838	604	52	103
RBC 430 1S	1644	755	52	131
RBC 550 1S	1988	755	52	157
RBC 800 1S	1835	974	92	203
RBC 1000 1S	2155	974	92	225

- (*) Dimensions and we (**) Insulation thikness Dimensions and weight with insulation

Steel single coil cylinders characterized by internal glazed enamel treatment (vitrification, according to DIN 4753) to ensure maximum hygiene and facilitate cleaning of limestone deposits.

The RBC range includes 7 models from 150 to 1000 liters (Erp Ready – Energy efficiency class B) and thanks to the geometry of the tank and the elliptic section of the exchanger, it is possible to reach the best performance in terms of heat exchange (minimal thermal losses) and recovery time.

The hydraulic connections and the inspection flange are arranged on a single row in order to facilitate cleaning and to insert an additional electric resistance (optional).

Moreover the cylinders are suitable for specific transport handles available as accessories in order to allow an easy handling.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses (*) W	Energy efficiency class	Notes	Code
RBC 150 1S	162	99	10	55	В		20124167
RBC 200 1S	207	99	10	58	В		20124168
RBC 300 1S	305	99	10	68	В		20124169
RBC 430 1S	445	99	10	73	В		20124170
RBC 550 1S	555	99	10	84	В		20124171
RBC 800 1S	735	99	7	95	В	(1)	20132270
RBC 1000 1S	890	99	7	103	В	(1)	20132271

- According to EN 12897:2006, Δt = 45 °C (outdoor temperature 20 °C, storage temperature 65 °C).
- Insulation to be assembled.

2021 EDITION

WATER-HEATERS

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production I/h	Coil power input kW	Max operation pressure bar	Notes
RBC 150 1S	4,25	0,85	660	27	10	(1)
RBC 200 1S	6,90	1,38	950	39	10	(1)
RBC 300 1S	8,50	1,70	1185	49	10	(1)
RBC 430 1S	10,00	2,00	1380	56	10	(1)
RBC 550 1S	19,30	2,30	1645	66	10	(1)
RBC 800 1S	21,00	2,50	1728	69	7	(1)
RBC 1000 1S	24,40	2,90	1860	75	7	(1)

⁽¹⁾ According to DIN 4708 with ΔT =20 °C (80/60 °C) on exchanger.

ACCESSORIES

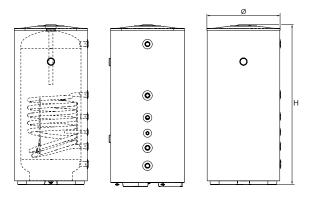
RIELLO

Description	Code
Thermometer kit	20123850
Electronic anode with plug	20055206
Curve for electronic anode kit	20123851
Single-phase electrical resistance 1,5 kW (for 200-550 liters models)	20119911
Single-phase electrical resistance 2,2 kW (for 200-550 liters models)	20119912
Single-phase electrical resistance 3,0 kW (for 200-550 liters models)	20119913
Three-phase electrical resistance 3,8 kW (for 200-550 liters models)	20119914
Single-phase electrical resistance 1,5 kW (for 800-1000 liters models)	20131666
Single-phase electrical resistance 2,2 kW (for 800-1000 liters models)	20131667
Single-phase electrical resistance 3,0 kW (for 800-1000 liters models)	20131669
Three-phase electrical resistance 3,8 kW (for 800-1000 liters models)	20131670

One-coil DHW cylinders

7200 V PRIME







- Vertical double-layer enamelled steel cylinders
- One-coil cylinder for domestic hot water production

Description	H (*) mm	Ø (*) mm	IT (**) mm	Net weight (*) kg
7200.200 V PRIME	1330	605	50	68
7200.300 V PRIME	1830	605	50	91
7200.430 V PRIME	1630	755	50	121
7200.550 V PRIME	1980	755	50	142
7200.800 V PRIME	1835	1000	100	182
7200.1000 V PRIME	2165	1000	100	207

- (*) Dimensions and wei (**) Insulation thickness Dimensions and weight with insulation

Vertical storage DHW cylinders made in steel, protected by a inner enamel coating (according to DIN 4753), which is smooth, antiadherent and bacteriologically inert to ensure the absolute hygiene of the DHW and to avoid any possible limestone deposits and make cleaning easier. The care taken to study the geometry of the tank and the coil (with a large exchange surface) provides the best performance in terms of stratification, heat exchange and recovery time.

The efficient CFC-free polyurethane insulation, made through a direct foaming method for the models up to 550-liters and provided with excellent finishes and a hard removable insulation for the 800 and 1000 liters models, permits the reduction of heat losses to the minimum and enhances as a consequence efficiency.

- Anticorrosion anodic protection
- Analog pressure gauge standard supplied
- An electrical control board to manage the domestic hot water temperature is available as an accessory.

itechnical data

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Code
7200.200 V PRIME	210	99	10	58	В	20096892
7200.300 V PRIME	304	99	10	68	В	20096894
7200.430 V PRIME	444	99	10	73	В	20096895
7200.550 V PRIME	556	99	10	84	В	20096897
7200.800 V PRIME	735	99	7	93	В	20096899
7200.1000 V PRIME	890	99	7	98	В	20096900

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production (*) I/h	Coil power input kW	Max operation pressure bar	Notes
7200.200 V PRIME	4,8	0,78	590	590	10	(1)
7200.300 V PRIME	6,9	1,13	831	831	10	(1)
7200.430 V PRIME	9,8	1,49	1260	1260	10	(1)
7200.550 V PRIME	9,8	1,49	1260	1260	10	(1)
7200.800 V PRIME	16,3	2,47	1700	1700	10	(1)
7200.1000 V PRIME	16,3	2,47	1700	1700	10	(1)

ACCESSORIES

RIELLO

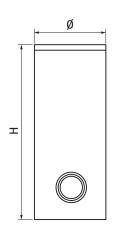
Destination	Notes	Code
Electric control panel for storage cylinders	(1)	4030011
Electronic anode with plug		20055206

(1) Suitable for models up to 500 liters.

 ⁽¹⁾ According to DIN 4708 with ΔT=35 °C (80/45 °C) on exchanger
 (*) Hot water production data with primary circuit inlet temperature at of 80 °C and ΔT=35 °C on the secondary circuit.

DHW solar cylinder

7200 HP







- Cylinder for heat pump
- Domestic hot water production

Description	H (*) mm	ø (*) mm	IT (**) mm	Net weight (*) kg
7200 300 HP	1615	600	50	119
7200 500 HP	1690	750	50	166
7200 800 HP	1875	990	100	217

- (*) Dimensions and weight with insulation (**) Insulation thikness

DHW steel cylinders for vertical installation, protected by inner enamel and equipped with a coil (with a large exchange surface) for a suitable combination with a heat pump and with a flange in the bottom part to allow the insertion of an exchanger (optional) for the combination with the solar thermal. Specifically designed for the application in systems with heat pumps, they allow a high heat transfer thanks to the wide exchange surface.

They are complete with sockets, a magnesium anode and with a 1"1/2 connection for the insertion of an electrical resistance (optional). The insulation is made of rigid polyurethane for the sizes 300 and 500 and soft polyurethane for size 800.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
7200 300 HP	263	99	6	85	С	(1)	4383500
7200 500 HP	470	99	6	112	С	(2)	4383501
7200 800 HP	702	99	6	130	С		20136293

- To combine with heat-pump Family ES and NHX. To combine with heat-pump Family ES and NHX.

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production I/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7200 300 HP	23,0	4	500	19	110	10	(1)
7200 500 HP	51,5	6	800	31	110	10	(1)
7200 800 HP	60,0	7	900	38	110	10	(1)

(1) According to DIN 4708 with ΔT =10 °C (60/50 °C) on exchanger.

ACCESSORIES

RIELLO

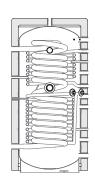
Description	Code
Single-phase electrical resistance 1,5 kW of 1" ½	4383270
Three-phase electrical resistence 3,8 kW of 1" ½	20020707
0,8 m² solar heat exchanger (for HP 300 model)	4383504
1,2 m² solar heat exchanger (for HP 500-800 models)	4383505
Electronic anode with plug	20055206

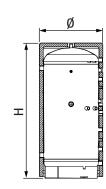
Other available accessories at page 200.

Combined solar storage tanks

7200 KombiSolar²⁵









- Combined storage tank
- Instantaneous production of domestic hot water and heating supplement

Description	H (*) mm	ø (*) mm	IT (**) mm	Net weight (*) kg
7200 KOMBISOLAR 430 2S	1635	755	50	155
7200 KOMBISOLAR 550 2S	1985	755	50	177
7200 KOMBISOLAR 750 2S	1845	1000	100	218
7200 KOMBISOLAR 1000 2S	2170	1000	100	248

- (*) Dimensions and weight with insulation
- (**) Insulation thiknes

7200 KombiSolar²⁵ is a combi storage tank designed for the instantaneous production of domestic hot water and the heating supplement. It contains three coils: one at the bottom for the solar circuit, one at the top for the heating circuit and one in stainless steel for the production of domestic hot water.

The rapid-exchange corrugated coil in stainless steel AISI 316L, for the production of domestic hot water (bacteriologically inert), ensures the absolute hygiene of water, while preventing bacteria from reproducing and limestone deposits from occurring, together with providing a fast, efficient and comfortable domestic hot water production.

The storage tank is specifically designed to enhance flexibility in installation through the synergetic and organic combination of thermal solar systems, traditional or biomass generators (also with open vessel) and heat pumps.

The presence of an integrated diffusion tube permits a high stratification of temperature along the solar tank height.

The CFC-free polyurethane insulation reduces heat losses and, as a consequence, enhances efficiency; the hard insulation makes the installation easier.

It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
7200 KOMBISOLAR 430 2S	430	99	3	78	В		20088789
7200 KOMBISOLAR 550 2S	550	99	3	85	В		20088790
7200 KOMBISOLAR 750 2S	750	99	5	93	В	(1)(2)	20145329
7200 KOMBISOLAR 1000 2S	1000	99	5	98	В	(1)	20145332

- (1) Supplied with insulation removed.
- (2) Progressively available when the corresponding previous model runs out.

RIELLO

COIL HEAT EXCHANGER FOR SANITARY APPLICATION TECHNICAL DATA

Description	Water content liters	Exchange surface m²	Max operation temperature °C	Max operation pressure bar
7200 KOMBISOLAR 430 2S	23,6	4,5	99	6
7200 KOMBISOLAR 550 2S	23,6	4,5	99	6
7200 KOMBISOLAR 750 2S	30,4	5,8	99	6
7200 KOMBISOLAR 1000 2S	30,4	5,8	99	6

COIL HEAT EXCHANGER FOR PRIMARY CIRCUIT TECHNICAL DATA

Description	Water content liters	Exchange surface m²	Max operation pressure bar
7200 KOMBISOLAR 430 2S	11,0	1,80	10
7200 KOMBISOLAR 550 2S	12,8	2,10	10
7200 KOMBISOLAR 750 2S	17,4	2,90	10
7200 KOMBISOLAR 1000 2S	19,8	3,34	10

ACCESSORIES

Description	Code
Single-phase electrical resistance 1,5 kW of 1" ½	4383270
Single-phase electrical resistance 2,2 kW of 1" ½	4383271
Single-phase electrical resistance 3,0 kW of 1" ½	4383272
Three-phase electrical resistence 3,8 kW of 1" ½	20020707
18L rectangular expansion vessel kit (including: mounting template for vertical solar cylinder and F-F 3/4" connection pipe, 110 mm)	20005831
Flexible pipe kit to connect the solar expansion vessel (F-F ¾", 800 mm, not insulated)	20011797
Electronic anode with plug	20055206

Other available accessories at page 200.

RIELLO

Combined solar storage tanks

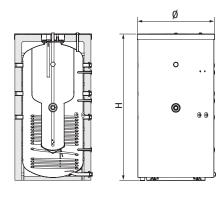
7200 Kombi Plus



PRODUCT CATALOGUE



- Combined storage tank
- Production of domestic hot water and heating supplement



Description	H mm	Ø (*) mm	IT (**) mm	Net weight kg
7200.550 Kombi Plus	2055	755	50	192
7200.800 Kombi Plus	1870	990	100	210
7200.1000 Kombi Plus	2196	990	100	265

- (*) Dimensions with insulation
- (**) Insulation thikness

7200 Kombi Plus is a combi storage tank (tank-in-tank technology) designed for the production of domestic hot water and the heating supplement. The completely enamelled internal tank (bacteriologically inert) is suitable to contain domestic hot water as it ensures the absolute hygiene of the water, while avoiding limestone deposits and making cleanliness easier.

The storage tank is specifically designed to enhance flexibility of installation through the synergetic and organic integration with thermal solar systems, heat generators and heat pumps.

The exchange surfaces and the geometry of tank provide the best performance in terms of stratification, heat exchange, recovery time and domestic hot water production (up to 2700 liters/hour).

The CFC-free polyurethane insulation reduces heat losses and, as a consequence, enhances efficiency; the hard insulation makes the installation easier. Anticorrosion anodic protection.

Easy maintenance thanks to the lateral flange for inspection. It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder capacity liters	DHW capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Code
7200.550 Kombi Plus	388	160	99	3	95	С	20090256
7200.800 Kombi Plus	560	240	99	3	123	С	20008653
7200.1000 Kombi Plus	695	285	99	3	143	С	20011721

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production I/h	Notes
7200.550 Kombi Plus	12,8	2,10	660	(1)
7200.800 Kombi Plus	16,0	2,80	800	(2)
7200.1000 Kombi Plus	19,0	3,16	1000	(2)

- (1) According to DIN 4708 with ΔT =35 °C (80/45 °C) on exchanger.
- (2) According to DIN 4708 with ΔT =20 °C (80/60 °C) on exchanger.

ACCESSORIES

RIELLO

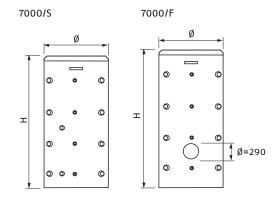
Description	Code
Single-phase electrical resistance 1,5 kW of 1" ½	4383270
Single-phase electrical resistance 2,2 kW of 1" ½	4383271
Single-phase electrical resistance 3,0 kW of 1" ½	4383272
Three-phase electrical resistence 3,8 kW of 1" ½	20020707
18L rectangular expansion vessel kit (including: mounting template for vertical solar cylinder and F-F 3/4" connection pipe, 110mm)	20005831
Flexible pipe kit to connect the solar expansion vessel (F-F ¾", 800mm, not insulated)	20011797
Electronic anode with plug	20055206

Other available accessories at page 200.

Puffers

7000 Puffer







• Inertial storage for heating supplement

Description	H (*) mm	ø (*) mm	IT (**) mm	Net weight (*) kg
7000.1000/S	2115	990		172
7000.1500/S	2090	1200		239
7000.2000/F	2470	1300	_	330
7000.3000/F	2700	1450	-	415
7000.5000/F	2830	1800	_	570

- Dimensions and weight with insulation
- Insulation thikness

Storage tanks 7000 Puffer can be easily integrated into solar systems and are designed for heating supplement (not for DHW production or storage). The care taken to study the geometry of the tank (also provided with inner diaphragm) and coil (only for IS models) provides the best performance in terms of stratification, heat exchange and recovery time.

The connection at various heights permits the use of different heat generators and avoids affecting stratification.

The CFC-free polyurethane insulation reduces heat losses and, as a consequence, enhances efficiency; the hard insulation makes the installation easier (/F models).

The use of the flange (only for /F models) makes maintenance easier and allows to connect an additional exchanger.

It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder	Maximum	Maximum	Thermal	Energy efficiency	Notes	Code
	capacity	temperature	pressure	losses	class		
	liters	°C	bar	W	(≋		
INERTIAL PUFFER WITH SOLAR EXC	HANGER COIL	<u> </u>	<u>I</u>	<u>I</u>			
7000.1000/S	920	99	3	143	С	(1)(2)	20136260
7000.1500/S	1410	99	3	167	С	(1)(2)	20136261
INERTIAL PUFFER WITH 1 FLANGE							
7000.2000/F	2010	99	3	190	С	(2)(3)	20136256
7000.3000/F	2959	99	3	-	-	(3)	4383411
7000.5000/F	5055	99	3	_	_	(3)	4383412

- With ΔT =35 °C, primary temperature of 80° C and exchange flow rate 4m3/h (1000/S), 5m³/h (1500/S). Supplied with assembled insulation.
- (*) (1) (2) (3)
- New code available from October 2017. Supplied with separated insulation.

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production I/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7000.1000/S	14,6	2,6	2900	68	110	6	(1)
7000.1500/S	21,6	3,8	4200	99	100	6	(1)

⁽¹⁾ According to DIN 4708 with ΔT =20 °C (80/60 °C) on exchanger.

ACCESSORIES

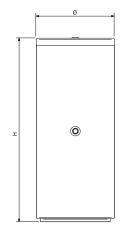
RIELLO

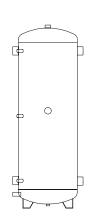
Description	Notes	Code
4,54 m² - tin plated copper coil kit with flange coupling for models/F (coil exchanger power 91 kW)	(1)	4383089
6,34 m² - tin plated copper coil kit with flange coupling for models/F (coil exchanger power 127 kW)	(1)	4383087
Electronic anode with plug		20055206

⁽¹⁾ To use only with 7000.2000/F, 7000.3000/F and 7000.5000/F models. Other available accessories at page 200.

Puffers

7000 ACI Plus







Inertial storage

Description	H(*) mm	Ø(*) mm	Weight (empty) kg
7000 ACI 60 PLUS	935	400	25
7000 ACI 120 PLUS	1095	500	35
7000 ACI 200 PLUS	1395	550	45
7000 ACI 300 PLUS	1560	600	55
7000 ACI 400 PLUS	1540	700	95
7000 ACI 500 PLUS	1840	700	95
7000 ACI 800 PLUS	1800	990	115
7000 ACI 1000 PLUS	2050	990	170
7000 ACI 1500 PLUS	2165	1200	185
7000 ACI 2000 PLUS	2480	1300	305

Dimensions with insulation.

Storage tanks 7000 ACI Plus can be easily integrated both into traditional systems (heat generators) and into systems using renewable sources (chillers, heat pumps). Therefore it is necessary to cope with the lack of time balance between demand and supply of energy with the help of suitable storage systems.

This product, which is supplied in a single package, is provided with a closed-cell insulation made of CFC-and-HCFC-free polyurethane and is suitable for heating/cooling systems as it provides particularly excellent performances in terms of low heat losses (according to UNI TS 11300).

The care taken to study the geometry of the tank provides the best stratification, heat exchange and recovery time.

New hydraulic connections, having a larger diameter, allow the reduction of head losses when operating with reduced ΔT ; their positioning at various heights permits the use of different heat generators at the same time without affecting stratification. Ease of use is ensured by reduced weights and dimensions.

It is possible to use additional electrical resistances.

WATER-HEATERS

TECHNICAL DATA

RIELLO

Description	Cylinder capacity liters	Thermal losses W	Maximum temperature °C	Maximum pressure bar	Energy efficiency class <u>≅</u>	Code
7000 ACI 60 PLUS	57	34	99	6	В	20090056
7000 ACI 120 PLUS	123	50	99	6	В	20082450
7000 ACI 200 PLUS	203	68	99	6	С	20028093
7000 ACI 300 PLUS	277	82	99	6	С	20028094
7000 ACI 400 PLUS	390	105	99	6	С	20028095
7000 ACI 500 PLUS	473	129	99	6	С	20028096
7000 ACI 800 PLUS	732	131	99	6	С	20137619
7000 ACI 1000 PLUS	855	139	99	6	С	20137620
7000 ACI 1500 PLUS	1420	168	99	6	С	20137622
7000 ACI 2000 PLUS	2013	190	99	6	С	20137624

ACCESSORIES

Description	Notes	Code
Single-phase electrical resistance 1,5 kW of 1" ½	(1)	4383270
Single-phase electrical resistance 2,2 kW of 1" 1/2	(1)	4383271
Single-phase electrical resistance 3,0 kW of 1" ½	(1)	4383272
Three-phase electrical resistence 3,8 kW of 1" ½	(1)	20020707
Electronic anode with plug		20055206

(1) Not compatible with 7000 ACI 60 Plus Other available accessories at page 200.

;;;

HEAT PUMPS

Pump stations and differential controllers

RSS & EVOSOL





- Pump station RSS
- Differential controller EVOSOL

Description	H mm	L mm	P mm	Net weight kg
RSS MRS	418	313	185	5,0
RSS MR	418	313	185	4,7
RSS R	364	228	183	4,1
RSS MR 14 MT	290	390	250	0,8
EVOSOL	170	106	52	0,3

EVOSOL is a solar regulation able to manage 9 kinds of plant layouts and meet all different domestic and professional requirements. EVOSOL is able to manage a modulating solar circulator with constant ΔT regulation between solar collector and cylinder, thus allowing the operation of the system even in case of low radiation.

The user-friendly menu and the display allow to control easily the available functions and the selected layout. The frontal access to components eases the electrical wiring; the wide range of accessories allows to customize any system.

RSS is a solar pump station available in four versions: flow and return with differential controller EVOSOL assembled on the system (MRS), flow and return (MR) and only return (R).

The pump stations RSS MRS and MR are provided with circulator pump with PWM controlling, safety devices, filling taps, non-return valve, flow and return temperature gauge. RSS R is provided with circulator pump both for ON-OFF and PWM controlling, safety devices, filling taps, flow regulator and flow meter, non-return valve and temperature gauge.

TECHNICAL DATA

Description	Connection and ball valve	Net area connectable collectors m²	Notes	Code
RSS MRS	Flow/Return	55	(1)	20116166
RSS MR	Flow/Return	55	(2)	20116167
RSS R	Only return	20	(3)	20116168
RSS MR 14 MT	Flow/Return	30	(2)(4)	20156553

- Equipped with differential controller EVOSOL.
- Suitable only for PWM controlling.
- Suitable for PWM or ON-OFF controlling.
 Equipped with modulating circulator pump with PWM controlling (a wall mount solar controller has to be installed separately).

TECHNICAL DATA

Description	Relay standard output nr.	Probe inputs nr.	Supplied probe nr.	Configured schemes nr.	Code
EVOSOL	2	4	1x collector + 2x cylinders	9	20120499

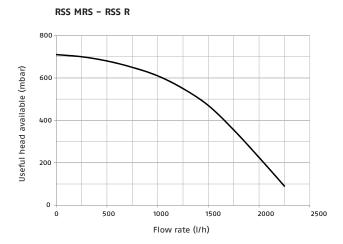
ACCESSORIES

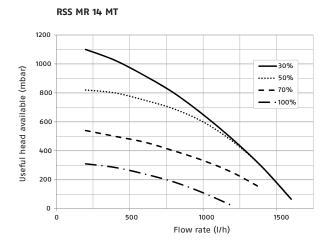
Description	Notes	Code
Electronic anode	(1)	20123853
Electronic anode with plug	(2)	20055206
Immersion temperature probe in Platinum Pt1000, cable 2,5 m PUR (-10/+80 °C) for tanks or return pipe (FRP6 Pt1000)		4383196
Contact temperature probe with platinum gauge Pt1000, olflex cable 2,5 m ($-10/+80$ °C) for tanks or return pipe (FRP21 Pt1000)		4383197
Well temperature probe for high temperature in Platinum Pt1000 PTFE cable 1,5 m $(-50/+230 ^{\circ}\text{C})$ for vacuum collectors (FKP6/H Pt1000)		4383199
Probes protection kit against overvoltage (SP1)		4383415
Additional temperature probe kit for solar collector		20125097
Additional temperature probe kit for cylinder		20123856
Hydraulic connections for RSS MR 14MT		20158203

Suitable for pump station with differential controller (MRS type). Suitable for pump station without differential controller (R and MR type).

USEFUL HEAD AVAILABLE

Solar delivery and return station. Values referred to a mix of water and 30% glycol.





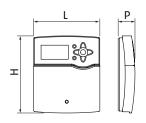
SYSTEM COMPLEMENTARY



Solar differential controller

Sun Pro







• Solar controller Sun Pro

Description	H mm	L mm	P mm
SUN 5 PRO 5 RS	227	156	62
SUN 14 PRO 14 RS	260	216	64

SUN PRO is a solar controller able to meet all different domestic and professional requirements, able to manage several system schemes. The design is simple and stylish and suits all environments.

The menu is user-friendly, the display allows the user to easily control the functions and the selected scheme.

Easy access to the electrical wiring from the front side.

Wide range of accessories to customize any system.

TECHNICAL DATA

Description	Relay standard output nr.	Probe inputs nr.	Supplied probe (*) (for flat collector) nr.	Configured schemes nr.	Code
SUN 5 PRO 5 RS	5	9	2x collector + 3x cylinders	7 (+variants)	20099595
SUN 14 PRO 14 RS	14	12	2x collector + 4x cylinders	9 (+variants)	20099607

(*) Specific probes for flat collectors

ACCESSORIES

Description	Notes	Code
Electronic anode to be wired with differential controller	(1)	20123853
Electronic anode with plug	(2)	20055206
Immersion temperature probe in Platinum Pt1000, cable 2,5 m PUR (-10/+80 °C) for tanks or return pipe (FRP6 Pt1000)		4383196
Contact temperature probe with platinum gauge Pt1000, olflex cable 2,5 m (-10/+80 °C) for tanks or return pipe (FRP21 Pt1000)		4383197
Well temperature probe for high temperature in Platinum Pt1000 PTFE cable 1,5 m $(-50/+230 ^{\circ}\text{C})$ for vacuum collectors (FKP6/H Pt1000)		4383199
Probes protection kit against overvoltage (SP1)		4383415
RIELLO CALOR V40 15 flow meter (1 impulse every 10 liters), 3/4" male connection (Tmax 110 °C)		4383416

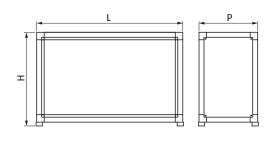
Suitable for pump station with differential controller (MRS type). Suitable for pump station without differential controller (R and MR type).

RIELLO

Complementary items

Riello SC Sun Riello SC Acs







- Solar heat exchange units
- DHW heat exchange units
- High efficiency pump

Description	H mm	L mm	P mm	Net weight kg
SC SUN 50	610	450	260	25
SC SUN 120	835	475	226	34
SC SUN 120 ACS	835	475	226	34
SC SUN 300	900	1000	500	150
SC ACS 25	600	400	250	17
SC ACS 35	600	400	250	18
SC ACS 40	600	400	250	18
SC ACS 80	835	475	226	30
SC ACS 160	900	1000	500	158
SC ACS 225	900	1000	500	176

Riello offers complete and ready-to-install solutions when using puffer storage tanks, while optimizing stratification: heat exchange units both on the solar and the DHW sides.

Riello SC Sun is the solar heat exchanger designed for puffer storage tanks. Its components are sized and managed to transfer the heat with maximum efficiency. The range offers three sizes: up to 50, 120 and 300 m2 of exposed area.

There is also a heat-exchanger that produces directly istantaneous DHW; it can work up to 120 m2 of exposed area. Riello SC ACS is the heat exchanger for the instantaneous production of domestic hot water. It is designed to be connected with puffer storage tanks and ensures maximum hygiene of the treated water. The range offers five sizes: 25, 40, 80, 160 and 225 l/min.

TECHNICAL DATA

Description	Exchanged power (*) kW	Max primary output I/h	Temperature Primary min-max °C	Exchange surface m²	Max pressure primary/ secondary bar	NoteS	Code
HEAT EXCHANGER FOR SOLAR CIRCUIT							
SC SUN 50	32	1.500	2/110	0,9	6/3	(D)	20156326
SC SUN 120	52	2.400	2/110	3,0	6/6	(D)	20156327
SC SUN 300	129	6.000	2-110	MISSING	10/10		20156330
DHW HEAT EXCHANGER		*			`		
SC SUN 120 ACS	52	2.400	2/110	3,0	6/6	(D)	20156330

- (*) Referred to ΔT =20 °C and 30% glicol.
- D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.

WATER-HEATERS

TECHNICAL DATA

RIELLO

Description	DHW production I/min	Min DHW production output I/min	DHW temperature set °C	Max primary delivery output I/h	Plate exchange surface m ²	Max. operating pressure bar	Notes	Code	
FOR TECHNICAL WATER-DOMESTIC WATER HEAT EXCHANGE									
SC ACS 25	18	2,5	4055	1.200	0,9	6	(D)	20156322	
SC ACS 35 NEW	27	2,5	4055	1.700	1,8	6	(D)	20156324	
SC ACS 40	35	2,0	3090	1.850	1,8	6	(1)	20156325	
SC ACS 80 NEW	64	5,0	3090	3.600	3,0	6	(D)(1)	20182669	
SC ACS 160	115	5,0	3090	8.000	-	6/8 (**)	(D)(1)	20176021	

- DHW production at 45 °C, with water inlet at 10 °C and storage tank temperature at 55 °C.

 Max primary/secondary pressure.

 Availability of the material at our warehouse: 25 working days from the date of the order's validation.

 Heat exchange module that can be assembled in cascade with the appropriate accessories (see accessories).

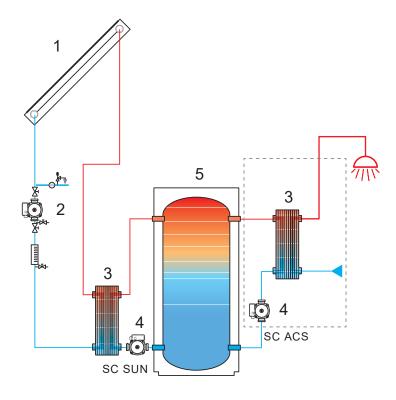
ACCESSORIES

Description	Notes	Code
Thermostatic sanitary recirculation kit (for SC ACS 25–35)	(D)	20083502
Electronic DHW recirculation kit (for SC ACS 40)		20182673
2 modules cascade connection kit (for SC ACS 40)	(1)	20182674
3 modules cascade connection kit (for SC ACS 40)	(D)(1)	20182675
Recirculation kit (for SC ACS 80)	(D)	20182676
2 modules cascade connection kit (for SC ACS 80)	(D)(2)	20182677
3 modules cascade connection kit (for SC ACS 80)	(D)(2)	20182678

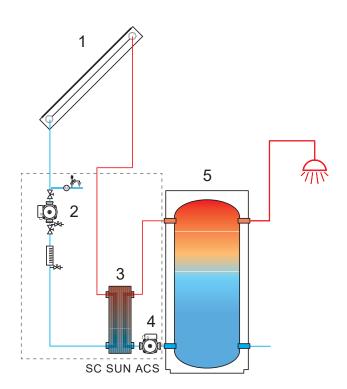
- (D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.
 (1) Specific accessories for cascade mounting of SC ACS 40 (recirculation pump kit included).
 (2) Specific accessories for cascade mounting of the SC ACS 80 (recirculation circulator kit included).
 Other available accessories at page 200.

HEAT PUMPS

PRINCIPLE EXEMPLARY SCHEME



- 1. 2.
- Riello solar collector High efficiency solar circulator Plate heat-exchanger High efficiency circulator 7000 Puffer
- 3.



- Riello solar collector High efficiency solar circulator 1. 2. 3. 4. 5.
- Plate heat-exchanger
- High efficiency circulator 7200/3F HV PLUS



SOLAR THERMAL ACCESSORIES



2021 EDITION 199



SOLAR THERMAL ACCESSORIES

Description	Notes	Code
FITTINGS AND STAINLESS STEEL PIPES		
2 straight fittings kit to be tightened to connect the solar collectors with DN18 copper pipes		20027281
2-fittings kit to be tightened (90°) to connect the solar collectors with DN18 copper pipes		20055236
Kit of two fittings to tighten terminals	(2)	20094627
2-fittings kit for the connection between DN18 copper pipe and hydraulic group		20132219
2 straight fittings kit to connect the solar collectors with stainless steel pipes (copper pipe DN18/ stainless steel pipe DN16)		20027289
2-fittings kit for the connection between copper pipe and hydraulic group (copper pipe DN18/ stainless steel pipe DN16)		20132220
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe	(1)	20132143
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(2)	4383254
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(2)	4383255
FLOW RATE REGULATORS		
Flow rate regulator 12 (DN20; 2–12 I/min; kvs=2,2 m³/h)		20011536
Flow rate regulator 20 (DN20, 8-20 l/min, kvs=5 m³/h)		20011538
Manual solar air vent kit		20026577
GLYCOL		
5 kg propylene glycol kit (concentrated heat-transfer liquid, with corrosion inhibitors, for flat-plate collectors)		4383085
10 kg propylene glycol kit (concentrated heat-transfer liquid, with corrosion inhibitors, for flat-plate collectors)		4383059
20 kg pre-mixed glycol for CSV R (ready-to-use heat transfer liquid, suitable for vacuum collectors, frost-protection up to -28 °C)		4383118
20 kg glycol-free heat-transfer liquid (long-lasting and non-toxic)		20094030
EXPANSION VESSELS		
18L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383052
24L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383053
35L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383054
50L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383256
100L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383257
150L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383258
300L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383259
OTHER ACCESSORIES		
³¼" thermostatic mixing valve kit		20020778
Thermoregulation DIFFER-ASS SUN1 N		20039694

⁽¹⁾ Fittings kit to be ordered with the stainless steel flexible pipe. (2) Stainless steel flexible pipe, insulated, without fittings.

2021 EDITION 200



HEAT PUMPS

CENTRALIZED HEATING	6
WALL-HUNG MODULAR SYSTEM	206
WALL-HUNG MODULAR STSTEM	200
FLOOR-STANDING MODULAR SYSTEM	222
FLOOR-STANDING BOILERS	253
STEEL JET BURNER BOILERS GAS/OIL	277
CAST IRON JET BURNER BOILERS GAS/OIL	315
CONTROL PANELS AND THERMOREGULATIONS	323
FLUE OPTIONS SYSTEM	329

WALL-HANG/FLOOR-STANDING CONDENSATION MODULES

6

	GAS INDOOR		GAS OUTDOOR	
WALL-HUNG THERMAL MODULES STAINLESS STEEL		CONDEXA PRO (34,4-1098,0 kW)**		CONDEXA PRO* (34,4-1098,0 kW)**
WAL		page 206		page 206
FLOOR-STANDING THERMAL MODULES STAINLESS STEEL		STEEL PRO POWER (111,4-1290,0 kW)** page 222		STEEL PRO POWER* (111,4-1290,0 kW)** page 222
FLOOR-STANDING THERMAL MODULES ALUMINUM		ALU PRO POWER (112,1-585,0 kW)** page 236		

- Provided with kit for outdoor installation. The output data are referred to the min-max (80°/60 °C) of cascade applications.

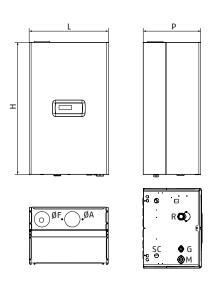
Indoor wall-hung gas condensing modules

Condexa Pro





- In conformity with Directive 2009/125/EC
- · Condensing thermal modules for indoor use (for outdoors with optional kit)
- Possible cascade up to 1120 kW
- · Modular design to ensure an easy and fast installation
- Low polluting emissions, Class 6 (DIN EN 15502)



M-FLOW G 1" 1/2 G-GAS G 1' R-RETURN G 1" 1/2 SC-CONDENSATE DISCHARGE Ø24 mm ØA-AIR (onz)

Description	H mm	L mm	P mm	ø mm	Net weight kg
CONDEXA PRO 35 P	1000	600	435	80	58
CONDEXA PRO 50 P	1000	600	435	80	58
CONDEXA PRO 57 P	1000	600	435	80	64
CONDEXA PRO 70 P	1000	600	435	80	64
CONDEXA PRO 90	1000	600	435	110	69
CONDEXA PRO 100	1000	600	435	110	69
CONDEXA PRO 115	1170	600	435	110	84
CONDEXA PRO 135	1170	600	435	110	90

The Condexa Pro System is the new Riello high performance wall-hung condensing modular system that can cover a vast range of applications, and which can be installed indoors or outdoors, with an open or sealed combustion chamber, with a single boiler or in cascade up to 1120 kW.

The range consists of 8 models with thermal modules from 35 to 131 kW.

Each thermal module has a new heat exchanger, with patented structures, composed of two smooth concentric stainless steel pipes, having respectively an internal pentagonal section and a circular outside section, designed to maximise the heat exchange surface and provide maximum resistance to corrosion.

The primary circuit pump with modulating adjustment allows you top operate with a settable consent Dt, thereby reducing the system's steady state times and maximising the condensation. The standard electronics includes climatic regulation, management of the cascade of the modules, with integrated master/slave functions, the automatic switching between summer/winter and the possibility of managing a direct zone and a DHW storage cylinder.

The electronics also provides the possibility of the remote management using the 0-10V input or with the Modbus protocol. Included as standard are: boiler discharge tap, LPG conversion kit and wall support.

Completing the system are accessories specifically designed for modular and cascade applications, with the possibility of working with various hydraulic management logics, namely thermal modules with circulators or no shut-off.

With specific accessories it is also possible to manage the distribution of the secondary circuit, up to 16 mixed zones. The optimal management of the combustion and the high modulation ratios, up to 1 to 50 for the version with 10 thermal modules, provide high levels of efficiency and low levels of polluting emissions (Class 6 UNI EN 15502).

- Continuity of service is guaranteed by system modularity: even in the event of fault of a module, overall operation shall not be compromised
- The anti-freeze and anti-seizing functions ensure it operates in all weather conditions
- A wide range of accessories is available to ensure the installation is simple, fast and complete with cascade
 - Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description		Output kV	V		Efficiency		Energy	Language	Code
	Useful 80°/60° max	Useful 50°/30° max	Furnace min-max	Useful Pn (80°/60°) %	Useful Pn (50°/30°) %	Useful 30% Pn (50°/30°) %	efficiency class		
CONDEXA PRO 35 P	34,4	38,0	9,0-34,9	98,4	108,7	109,5	А	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115221 20150683 20151700 20151724 20151751 20151822
CONDEXA PRO 50 P	44,2	48,8	9,0-45,0	98,3	108,6	109,2	А	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115222 20150684 20151704 20151725 20151753 20151823
CONDEXA PRO 57 P	55,7	61,9	14,0-57,0	98,3	108,6	109,2	А	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115223 20150685 20151706 20151726 20151754 20151824
CONDEXA PRO 70 P	67,0	73,9	14,0-68,0	97,9	108,1	108,8	А	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115224 20150686 20151707 20151727 20151756 20151825
CONDEXA PRO 90	88,3	97,4	19,4-90,0	98,0	108,3	108,9	-	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115225 20150687 20151709 20151728 20151759 20151826
CONDEXA PRO 100	95,3	105,1	19,4-97,0	97,9	108,2	108,8	-	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115226 20150688 20151721 20151730 20151762 20151827
CONDEXA PRO 115	109,8	121,1	22,4-112,0	98,3	108,6	108,8	-	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115228 20150689 20151722 20151731 20151767 20151828
CONDEXA PRO 135	129,0	142,1	26,2-131,0	97,9	108,3	108,9	-	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115229 20150690 20151723 20151732 20151768 20151829

RIELLO

STAND ALONE BOILER CONFIGURATION GUIDE AND ACCESSORIES SELECTION



- 1. STAND ALONE BOILER CONFIGURATION
- 2. ACCESSORIES TO COMPLETE THE SYSTEM
- 3. OPTIONAL ACCESSORIES
- 3.1 Shunt pumps
- 3.2 Additional safety devices
- 3.3 Hydraulic separator or plate heat exchanger
- 3.4 Secondary circuit management
- 3.5 Indoor/outdoor installation
- 3.6 Sealed chamber conversion kit
- 3.7 Flue system
- 3.8 Treatment systems for condensate neutralization

1. STAND ALONE BOILER CONFIGURATION

Powers obtainable with stand alone installation

Model	CONDEXA PRO							
	35 P	50 P	57 P	70 P	90	100	115	135
Thermal flow kW	34,9	45	57	68	90	97	112	131

2. ACCESSORIES TO COMPLETE THE SYSTEM

Description	Notes	Code
External probe		20132778
Condensate drain kit for stand alone boiler	(1)	20133102

⁽¹⁾ Only for models 57-135.

3. OPTIONAL ACCESSORIES

3.1 Shunt pumps (only for 90÷135 kW)

Description	Notes	Code
Injection pump kit (90÷115 kW)	(1)(2)	20125034
Injection pump kit with high residual head (115 kW) and low residual head (135 kW)	(1)(3)	20125035
Injection pump kit with high residual head (135 kW)	(1)(4)	20125040

- On the models Condexa Pro 35 P 50 P 57 P 70 P the shunt pump is already onboard.
- This shunt pump, that can be fitted within the boiler, offers a high residual head on Condexa Pro 90 100 and with these boilers it can be combined with the (optional) plate heat exchanger; if used with Condexa Pro 115, it can be combined with the (optional) hydraulic separator but not with the plate heat exchanger.
- If combined with Condexa Pro 135, this shunt pump can be fitted within the boiler and offers a very low residual head (10 mbar); It has to be used ONLY in case of combination with horizontal hydraulic separator code: 20131897.
- This shunt pump cannot be fitted within the boiler, it has to be installed under the gas fired boiler.

3.2 Additional safety devices

Description	Notes	Code
SA installation kit for stand-alone boiler	(1)(2)	20142219
Manifold kit with safety devices for stand alone boiler	(3)	20131898
Safety valve 5.4 bar ØG.¾'' FF	(4)	20143981
Kit with connection pipe to hydraulic separator for stand alone boiler	(4)	20131899

- This kit is necessary for the stand-alone installation. It contains: Connection Pipe kit (1x code 20131899), Hydraulic Separator kit for stand alone boiler (1x code (1) 20131897), Condensate drain syphone (1x code 20133102), Safety valve 5,4 bar (1x code 20143981) and 2 Ball Valves
- Condensate drain syphone (code 20133102) is not included in the boilers (except for CONDEXA PRO 35 P and 50 P). Includes all the safety devices, including safety valve and VIC
- To be used in Italy only with model 35.

3.3 Hydraulic separator or plate heat exchanger

Description	Notes	Code
Horizontal hydraulic separator kit for stand alone boiler		20131897
Frame kit for front cascades	(1)	20131663
2/3 way valve kit	(2)	20125037
Plate heat exchanger kit for stand alone boiler (35-50 kW)	(3)	20132368
Plate heat exchanger kit for stand alone boiler (57-70 kW)	(3)	20132369
Plate heat exchanger kit for stand alone boiler (90-100 kW)	(3)	20132370
Plate heat exchanger kit for stand alone boiler (115 kW)	(3)	20132371
Plate heat exchanger kit for stand alone boiler (135 kW)	(3)	20132372
Delivery/return line fittings kit for direct installation (35–135 kW)		20136823
Expansion tank kit for stand alone boiler (35–50 kW)		20139239
Cover for plate heat exchanger		20145587
Cover for safety kit/hydraulic separator unit for stand alone boiler		20133224

- The frame is necessary in the case of installation with plate heat exchanger; if the frame kit is not fixed to the wall, the kit code 20131664 must also be purchased.
- The two-way valve kit combined with the plate heat exchanger kit codes for stand alone boiler (except code 20132368) allows the direct production of DHW.
- To be installed mandatory with code 20131663.

3.4 Secondary circuit management

Description	Notes	Code
Immersion probe	(1)	1220599
3-way valve kit for domestic hot water production (35-50 kW)		20136713
Electronic kit for managing additional direct or mixed zone	(2)	20130811

- Utilized for the management of secondary/tank circuit.
- The maximum number of kits that can be installed is 16
- NOTE: for adjusting the ambient temperature use Riello thermostats and chronothermostats on page 411.

3.5 Outdoor installation

Description	Code
IPX5D kit for outdoor installation (35÷70 kW)	20132365
IPX5D kit for outdoor installation (90÷135 kW)	20128135

3.6 Sealed chamber conversion kit (C type)

Description	Code
Conversion kit C type (35÷70 kW)	20131665
Conversion kit C type (90÷135 kW)	20131668

3.7 Flue system

Description	Notes	Code
Spacer kit for fixing to wall	(1)	20131270

Kit required for rear wall concentric discharge

NOTE: for each type check the maximum equivalent lengths by consulting the technical data sheet and/or contacting the pre-sales service. For the flue gas system, refer to page 329.

3.8 Treatment systems for condensate neutralization

Description	Notes	Code
Condensate neutralizer HN2 (up to 270 kW)	(1)	4031811
Condensate neutralizer N2 (up to 450 kW)		4031810

Equipped with extraction pumps.

RIELLO

BOILERS CASCADE CONFIGURATION GUIDE AND ACCESSORIES SELECTION



- 1. BOILERS CASCADE CONFIGURATION
- SELECTION OF THE LAYOUT FRONT OR BACK-TO-BACK
- 3. ACCESSORIES TO COMPLETE THE SYSTEM
- 4. ACCESSORIES
- 4.1 Support frame
- 4.2 Shunt pumps
- 4.3 Connection pipes
- 4.4 Water collectors (delivery/return) -gas-con-
- 4.5 Additional safety devices
- 4.6 Hydraulic separator or plate heat exchanger
- 4.7 Secondary circuit management
- 4.8 Sealed chamber conversion kit
- 4.9 Flue gas exhaust systems
- 4.10 Treatment systems for condensate neutralization

1. BOILERS CASCADE CONFIGURATION

Powers obtainable with cascade system installation

Model	CONDEXA PRO							
	35 P	50 P	57 P	70 P	90	100	115	135
Nr. boilers		TOTAL POWER						
2	70	90	114	136	180	194	224	262
3	105	135	171	204	270	291	336	393
4	140	180	228	272	360	388	448	524
5	175	225	285	340	450	485	560	655
6	209	270	342	408	540	582	672	786
7	244	315	399	476	630	679	784	917
8	279	360	456	544	720	776	896	1048
9	314	405	513	612	810	873	1008	ND
10	349	450	570	680	900	970	1120	ND

Key to lay-out

ND

Solution that provides the least number of boilers

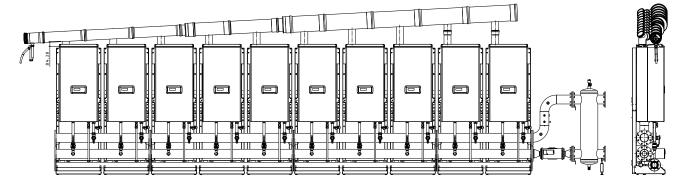
A solution that provides, with the same power, a greater number of boilers and therefore a greater modulation ratio Solution that provides, with the same power mdi, the maximum modulation ratio

Solution not available

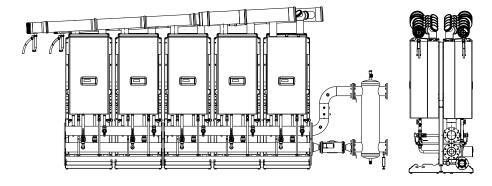
RIELLO

2. SELECTION OF THE LAYOUT FRONT OR BACK-TO-BACK, In relation to the space available

FRONT configuration



BACK-TO-BACK configuration



3. ACCESSORIES TO COMPLETE THE SYSTEM

Description	Language	Notes	Code
Condensate drain kit for cascade boiler		(1)	20131267
External probe		(2)	20132778
Primary probe	IT/EN	(2)(3)	20175714
Set of manuals for the CONDEXA PRO CASCADE	FR/NL/DE		20150950
Set of manuals for the CONDEXA PRO CASCADE	ES/PT		20151280
Set of manuals for the CONDEXA PRO CASCADE	RU/UA		20151282
Set of manuals for the CONDEXA PRO CASCADE	PL/HU/RO		20151281
Set of manuals for the CONDEXA PRO CASCADE	SK/CZ/GR/SI/CR		20151949

- To be ordered for each boiler of the cascade system (q.ty = no. boilers)
 One probe for each system in cascade, to be connected to the master boiler
 It must be associated mandatorly with the appropriate "Set of manuals for the CONDEXA PRO CASCADE".

4. ACCESSORIES

RIELLO

4.1 Support frame

Description	Code
Frame kit for front cascades	20131663
Frame conversion kit for B2B cascades	20131664

	FRONT	BACK-TO-BACK	
No. boilers	20131663 Q.ty frame	20131663 Q.ty frame	20131664 Q.ty conversion kit
2	2	1	1
3	3	2	2
4	4	2	2
5	5	3	3
6	6	3	3
7	7	4	4
8	8	4	4
9	9	5	5
10	10	5	5

4.2 Shunt pumps for single boiler (only for 90÷135 kW)

Description	Notes	Code
Injection pump kit (90÷115 kW)		20125034
Injection pump kit with high residual head (115 kW) and low residual head (135 kW)		20125035
Injection pump kit with high residual head (135 kW)		20125040

- To be ordered for each boiler of the cascade system (q.ty = no. boilers); pump to be installed inside the boiler. To be ordered for each boiler of the cascade system (q.ty = no. boilers); pump to be installed outside the boiler.

4.3 Connection pipes

Description	Notes	Code
FRONT CONFIGURATION	·	
Pipes without shut-off (35÷135 kW)	(1)	20130658
Pipes with shut-off (35÷135 kW)	(1)	20131124
Pipes without shut-off (135 kW) (external pump)	(2)	20131121
Pipes with shut-off (135 kW) (external pump)	(2)	20131125
BACK-TO-BACK CONFIGURATION		
Pipes without shut-off (35÷135 kW)	(3)	20130658
Pipes with shut-off (35÷135 kW)	(3)	20131124
Pipes without shut-off (135 kW) (external pump)	(4)	20131121
Pipes with shut-off (135 kW) (external pump)	(4)	20131125
Pipes without shut-off (35÷135 kW) (B2B)	(5)	20131787
Pipes with shut-off (35÷135 kW) (B2B)	(5)	20131791
Pipes without shut-off (135 kW) (external pump) (B2B)		20131788
Pipes with shut-off (135 kW) (external pump) (B2B)		20131792

- To be ordered for each boiler of the cascade system (q.ty = no. boilers) with pump or valve installed inside the boiler. To be ordered for each boiler of the cascade system (q.ty = no. boilers) with pump or valve installed outside the boiler. To be ordered for each boiler on collectors side with pump or valve installed inside the boiler. To be ordered for each boiler on collectors side with pump or valve installed outside the boiler. To be ordered for each boiler on the side opposite the collectors with pump or valve installed inside the boiler. To be ordered for each boiler on the side opposite the collectors with pump or valve installed outside the boiler. (2) (3) (4) (5) (6)

4.4 Water collectors (delivery/return) - gas - condensate

Description	Notes	Code
3" collectors kit for cascades for 1 boiler	(1)	20133220
3" collectors kit for cascades for 2 boilers	(2)	20130220
3" collectors kit for cascades for 3 boilers	(2)	20130221
5" collectors kit for cascades for 2 boilers	(3)	20130222
5" collectors kit for cascades for 3 boilers	(3)	20130223
3" closing plugs kit		20070903
3" through-flanges kit		20082190
5" closing plugs kit		20070907
5" through-flanges kit		20082191
Cover with insulation for cascade collectors/pipes		20132377

To be used for the BACK TO BACK configuration with 2 boilers; includes 3" flanged deliver/return collectors DN80, 2" threaded gas collector, condensate drain collector. (1)

To be used with a maximum output of up to 485 kW. Includes 3" flanged deliver/return collectors DN80, 2" threaded gas collector, condensate drain collector. To be used with a maximum output of over 485 kW. Includes 5" flanged deliver/return collectors DN125, 3" threaded gas collector DN80, condensate drain (2) (3)

WATER-HEATERS



TABLE OF COMBINATION OF BOILER CASCADE COLLECTORS

Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	35	45	57	68	90	97	112	131
No. boilers			TOTAL CA	ASCADE OUTPUT/D	IAMETER H ₂ O COL	LECTORS		
2	70/3"	90/3"	114/3"	136/3"	180/3"	194/3"	224/3"	262/3"
3	105/3"	135/3"	171/3"	204/3"	270/3"	291/3"	336/3"	393/3"
4	140/3"	180/3"	228/3"	272/3"	360/3"	388/3"	448/3"	524/5"
5	175/3"	225/3"	285/3"	340/3"	450/3"	485/3"	560/5"	655/5"
6	209/3"	270/3"	342/3"	408/3"	540/5"	582/5"	672/5"	786/5"
7	244/3"	315/3"	399/3"	476/3"	630/5"	679/5"	784/5"	917/5"
8	279/3"	360/3"	456/3"	544/5"	720/5"	776/5"	896/5"	1048/5"
9	314/3"	405/3"	513/5"	612/5"	810/5"	873/5"	1008/5"	-
10	349/3"	450/3"	570/5"	680/5"	970/5"	970/5"	1120/5"	-

TABLE OF COMBINATION OF COLLECTOR CODES IN RELATION TO THE NUMBER OF BOILERS IN CASCADE, IN A FRONT CONFIGURATION

Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	35	45	57	68	90	97	112	131
No. boilers			SELECTION O	F COLLECTOR CODE	ES FOR FRONT CON	IFIGURATION		
2	1 x 20130220							
3	1 x 20130221							
4	2 x 20130220	2 x 20130222						
5	1 x 20130220 1 x 20130221	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223					
6	2 x 20130221	2 x 20130221	2 x 20130221	2 x 20130221	2 x 20130223	2 x 20130223	2 x 20130223	2 x 20130223
7	2 x 20130220 1 x 20130221	2 x 20130222 1 x 20130223						
8	1 x 20130220 2 x 20130221	1 x 20130220 2 x 20130221	1 x 20130220 2 x 20130221	1 x 20130222 2 x 20130223				
9	3 x 20130221	3 x 20130221	3 x 20130223	-				
10	2 x 20130220 2 x 20130221	2 x 20130220 2 x 20130221	2 x 20130222 2 x 20130223	-				

TABLE OF COMBINATION OF COLLECTOR CODES IN RELATION TO THE NUMBER OF BOILERS IN CASCADE, IN A BACK TO BACK CONFIGURATION

Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	35	45	57	68	90	97	112	131
No. boilers			Selection of H20	collector codes	for BACK TO BACI	Configurations		
2	1 x 20133220	1 x 20133220						
3	1 x 20130220	1 x 20130220						
4	1 x 20130220	1 x 20130222						
5	1 x 20130221	1 x 20130223	1 x 20130223					
6	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130223	1 x 20130223	1 x 20130223	1 x 20130223
7	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130222	2 x 20130222	2 x 20130222	2 x 20130222
8	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130222	2 x 20130222	2 x 20130222	2 x 20130222	2 x 20130222
9	1 x 20130220 1 x 20130221	1 x 20130220 1 x 20130221	1 x 20130222 1 x 20130223	-				
10	1 x 20130220 1 x 20130221	1 x 20130220 1 x 20130221	1 x 20130222 1 x 20130223	-				

4.5 Additional safety devices

Description	Notes	Code
Manifold kit for 3" safety devices housing		20070910
Manifold kit for 5" safety devices housing		20070912
Safety devices kit	(1)	20071190
Safety valve up to 460 kW (5,4 bar ØG.¾" F)		20023104
Safety valve up to 580 kW (5,4 bar ØG.1" F)		20023106
Fuel shut-off valve kit (VIC) - ØG.1"	(2)(6)	20009486
Fuel shut-off valve kit (VIC) - ØG.1" 1/2	(3)(6)	20009482
Fuel shut-off valve kit (VIC) - ØG.2"	(4)(6)	20009483
Fuel shut-off valve kit (VIC) - ØG.3"	(5)(6)	20061640

Does not include safety valve and VIC.

- (1) (2) (3) (4) (5) (6) Recommended up to a maximum output of 131 kW, calculated taking into consideration the gas supply pressure = 20 mbar. Recommended up to a maximum output of 230 kW, calculated taking into consideration the gas supply pressure = 20 mbar. Recommended up to a maximum output of 580 kW, calculated taking into consideration the gas supply pressure = 20 mbar. Recommended up to a maximum output of 1150 kW, calculated taking into consideration the gas supply pressure = 20 mbar. Intervention temperature 97 °C - Capillary length 5 m.

NOTE: to calculate the maximum admissible output of the VIC, with supply pressures other than 20 mbar, contact the pre-sales service.

TABLE FOR SELECTING THE SAFETY VALVES

Total cascade heat output (kW)	0-460		581-920	921-1160	
(No.) Diameter	1 x ³ / ₄ "	1 x 1"	2 x ³/₄"	2 x 1"	
safety valve	1 x cod. 20023104	1 x cod. 20023106	2 x cod. 20023104	2 x cod. 20023106	

4.6 Hydraulic separator or plate heat exchanger

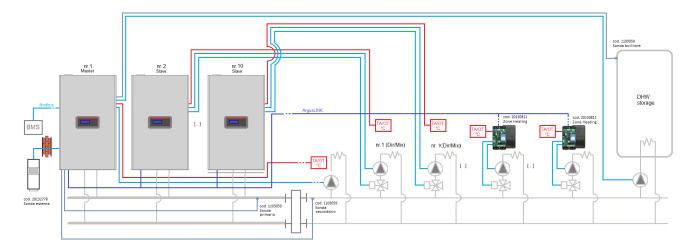
Description	Notes	Code
Hydraulic separator kit 5"-up to 485 kW	(1)	20009467
Hydraulic separator kit 10"-up to 580 kW	(2)	20069073
Hydraulic separator kit 10"-up to 1120 kW	(3)	20069074
Fittings kit for plate heat exchanger (DN80 collectors side 3"/DN50 plate heat exchanger side)		20132373
Fittings kit for plate heat exchanger (DN125 collectors side 5"/DN65 plate heat exchanger side)		20132375
Fittings kit for plate heat exchanger (DN125 collectors side 5"/DN100 plate heat exchanger side)		20132376

- To be used with a maximum output of up to 485 kW in combination with 3" collectors. To be used with a maximum output of over 485 and up to 580 kW in combination with 5" collectors. To be used with a maximum output of over 580 kW and up to 1120 kW in combination with 5" collectors.

4.7 Secondary circuit management

Description	Notes	Code
Immersion probe	(1)	1220599
Electronic kit for managing additional direct or mixed zone (max 16)	(2)	20130811

NOTE: for adjusting the ambient temperature use Riello thermostats and chronothermostats.



4.8 Sealed chamber conversion kit

Description	Code
Conversion kit C type (35÷70 kW)	20131665
Conversion kit C type (90÷135 kW)	20131668

Utilized for the management of secondary/tank circuit.

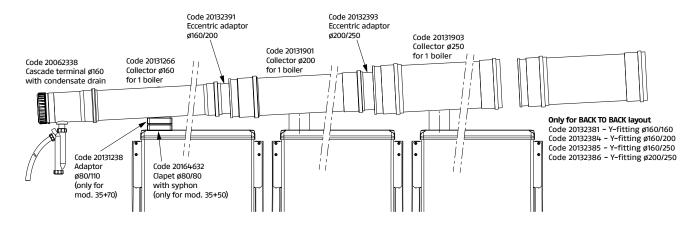
Kit required whenever the number of the heating zones, direct or mixed, is higher than the number of slave boilers.

HEAT PUMPS

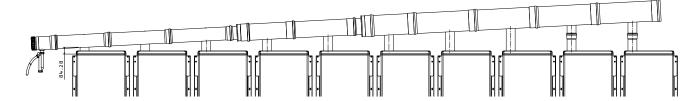
4.9 Flue gas exhaust systems

Description	Notes	Code
Adaptor Ø80/110	(1)	20131238
Clapet Ø80/80 with syphon	(2)	20164632
Cascade terminal Ø160 with condensate drain		20062338
Collector Ø160 for 1 boiler		20131266
Eccentric adaptor Ø160/200		20132391
Collector Ø200 for 1 boiler		20131901
Eccentric adaptor Ø200/250		20132393
Collector Ø250 for 1 boiler		20131903
Y-fitting Ø160/160		20132381
Y-fitting Ø160/200		20132384
Y-fitting Ø160/250		20132385
Y-fitting Ø200/250		20132386

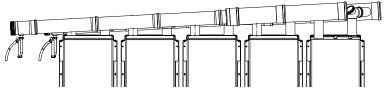
- Mandatory only for models 35-70. Mandatory only for models 35-50.



FRONT configuration - max 10 boilers



BACK-TO-BACK configuration - max 5 + 5 boilers



 ${\tt NOTE: the\ BACK\ TO\ BACK\ configuration\ has\ separate\ lines\ for\ each\ row\ of\ boilers,\ collectors\ side\ and\ the\ opposite\ side.}$

TABLE FOR SELECTING THE FLUE GASES COLLECTORS DIAMETERS IN RELATION TO THE NUMBER OF BOILERS ON EACH COLLECTOR

Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	35	45	57	68	90	97	112	131
No. boilers				FLUE GASES/A	IR DIAMETERS			
1 ^a	Ø160	Ø160	Ø160	Ø160	Ø160	Ø160	Ø160	Ø160
2ª	160	160	160	160	160	160	160	160
3ª	160	160	160	160	160	160	160	160
Цa	160	160	160	160	160	160	160	200
5ª	160	160	160	160	200	200	200	200
6ª	160	160	160	160	200	200	200	250
7ª	160	160	160	200	200	200	250	250
8ª	160	160	200	200	250	250	250	250
9ª	160	160	200	200	250	250	250	-
10ª	160	200	200	200	250	250	250	-

TABLE FOR SELECTING THE FLUE GASES COLLECTORS CODES IN RELATION TO THE NUMBER OF BOILERS IN FRONT CONFIGURATION

Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	35	45	57	68	90	97	112	131
No. boilers		SEL	ECTION OF FLUE	GASES COLLECTOR	CODES FOR FRO	NT CONFIGURATION	ONS	
2	2 x 20164632 2 x 20131238 1 x 20062338 2 x 20131266	2 x 20164632 2 x 20131238 1 x 20062338 2 x 20131266	2 x 20131238 1 x 20062338 2 x 20131266	2 x 20131238 1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266
3	3 x 20164632 3 x 20131238 1 x 20062338 3 x 20131266	3 x 20164632 3 x 20131238 1 x 20062338 3 x 20131266	3 x 20131238 1 x 20062338 3 x 20131266	3 x 20131238 1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266
4	4 x 20164632 4 x 20131238 1 x 20062338 4 x 20131266	4 x 20164632 4 x 20131238 1 x 20062338 4 x 20131266	4 x 20131238 1 x 20062338 4 x 20131266	4 x 20131238 1 x 20062338 4 x 20131266	1 x 20062338 4 x 20131266	1 x 20062338 4 x 20131266	1 x 20062338 4 x 20131266	1 x 20062338 3 x 20131266 1 x 20132391 1 x 20131901
5	5 x 20164632 5 x 20131238 1 x 20062338 5 x 20131266	5 x 20164632 5 x 20131238 1 x 20062338 5 x 20131266	5 x 20131238 1 x 20062338 5 x 20131266	5 x 20131238 1 x 20062338 5 x 20131266	1 x 20062338 4 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901
6	6 x 20164632 6 x 20131238 1 x 20062338 6 x 20131266	6 x 20164632 6 x 20131238 1 x 20062338 6 x 20131266	6 x 20131238 1 x 20062338 6 x 20131266	6 x 20131238 1 x 20062338 6 x 20131266	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 1 x 20131903
7	7 x 20164632 7 x 20131238 1 x 20062338 7 x 20131266	7 x 20164632 7 x 20131238 1 x 20062338 7 x 20131266	7 x 20131238 1 x 20062338 7 x 20131266	7 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 1 x 20131903	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 2 x 20131903
8	8 x 20164632 8 x 20131238 1 x 20062338 8 x 20131266	8 x 20164632 8 x 20131238 1 x 20062338 8 x 20131266	8 x 20131238 1 x 20062338 7 x 20131266 1 x 20132391 1 x 20131901	8 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 1 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 1 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 2 x 20131903	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 3 x 20131903
9	9 x 20164632 9 x 20131238 1 x 20062338 9 x 20131266	9 x 20164632 9 x 20131238 1 x 20062338 9 x 20131266	9 x 20131238 1 x 20062338 7 x 20131266 1 x 20132391 2 x 20131901	9 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 3 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 2 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 2 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 3 x 20131903	nd
10	10 x 20164632 10 x 20131238 1 x 20062338 10 x 20131266	10 x 20164632 10 x 20131238 1 x 20062338 8 x 20131266 1 x 20132391 1 x 20131901	10 x 20131238 1 x 20062338 7 x 20131266 1 x 20132391 3 x 20131901	10 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 4 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 3 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 3 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 4 x 20131903	nd

NOTE: in the case of a channelled suction line and gas-tight combustion (type C) double the amounts indicated in the table.

TABLE FOR SELECTING THE FLUE GASES COLLECTORS CODES IN RELATION TO THE NUMBER OF BOILERS IN BACK TO BACK CONFIGURATION

Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	35	45	57	68	90	97	112	131
No. boilers		SELECT	ON OF FLUE GAS	ES COLLECTOR CO	DES FOR BACK TO	BACK CONFIGUR	RATIONS	
2	2 x 20164632 2 x 20131238 2 x 20062338 2 x 20131266 1 x 20132381	2 x 20164632 2 x 20131238 2 x 20062338 2 x 20131266 1 x 20132381	2 x 20131238 2 x 20062338 2 x 20131266 1 x 20132381	2 x 20131238 2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381
3	3 x 20164632 3 x 20131238 2 x 20062338 3 x 20131266 1 x 20132381	3 x 20164632 3 x 20131238 2 x 20062338 3 x 20131266 1 x 20132381	3 x 20131238 2 x 20062338 3 x 20131266 1 x 20132381	3 x 20131238 2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381
4	4 x 20164632 4 x 20131238 2 x 20062338 4 x 20131266 1 x 20132381	4 x 20164632 4 x 20131238 2 x 20062338 4 x 20131266 1 x 20132381	4 x 20131238 2 x 20062338 4 x 20131266 1 x 20132381	4 x 20131238 2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132384
5	5 x 20164632 5 x 20131238 2 x 20062338 5 x 20131266 1 x 20132381	5 x 20164632 5 x 20131238 2 x 20062338 5 x 20131266 1 x 20132381	5 x 20131238 2 x 20062338 5 x 20131266 1 x 20132381	5 x 20131238 2 x 20062338 5 x 20131266 1 x 20132381	2 x 20062338 5 x 20131266 1 x 20132384			
6	6 x 20164632 6 x 20131238 2 x 20062338 6 x 20131266 1 x 20132381	6 x 20164632 6 x 20131238 2 x 20062338 6 x 20131266 1 x 20132381	6 x 20131238 2 x 20062338 6 x 20131266 1 x 20132381	6 x 20131238 2 x 20062338 6 x 20131266 1 x 20132381	2 x 20062338 6 x 20131266 1 x 20132384	2 x 20062338 6 x 20131266 1 x 20132384	2 x 20062338 6 x 20131266 1 x 20132384	2 x 20062338 6 x 20131266 1 x 20132385
7	7 x 20164632 7 x 20131238 2 x 20062338 7 x 20131266 1 x 20132381	7 x 20164632 7 x 20131238 2 x 20062338 7 x 20131266 1 x 20132381	7 x 20131238 2 x 20062338 7 x 20131266 1 x 20132381	7 x 20131238 2 x 20062338 7 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 1 x 20132385	2 x 20062338 5 x 20131266 2 x 20132391 2 x 20131901 1 x 20132386
8	8 x 20164632 8 x 20131238 2 x 20062338 8 x 20131266 1 x 20132381	8 x 20164632 8 x 20131238 2 x 20062338 8 x 20131266 1 x 20132381	8 x 20131238 2 x 20062338 8 x 20131266 1 x 20132384	8 x 20131238 2 x 20062338 8 x 20131266 1 x 20132384	2 x 20062338 8 x 20131266 1 x 20132385	2 x 20062338 8 x 20131266 1 x 20132385	2 x 20062338 8 x 20131266 1 x 20132385	2 x 20062338 6 x 20131266 2 x 20132391 2 x 20131901 1 x 20132386
9	9 x 20164632 9 x 20131238 2 x 20062338 9 x 20131266 1 x 20132381	9 x 20164632 9 x 20131238 2 x 20062338 9 x 20131266 1 x 20132381	9 x 20131238 2 x 20062338 9 x 20131266 1 x 20132384	9 x 20131238 2 x 20062338 9 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 7 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 7 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	nd
10	10 x 20164632 10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132381	10 x 20164632 10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132384	10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132384	10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132384	2 x 20062338 8 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 8 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 8 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	nd

NOTE: in the case of a channelled suction line and gas-tight combustion (type C) double the amounts indicated in the table.

4.10 Treatment systems for condensate neutralization

Description	Notes	Code
Condensate neutralizer HN2 (up to 270 kW)	(1)	4031811
Condensate neutralizer N2 (up to 450 kW)		4031810
Condensate neutralizer N3 (450÷1500 kW)		4031812
Condensate neutralizer HN3 (270÷750 kW)	(1)(D)	4031813

1) Equipped with extraction pumps.

D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.

HIGH TEMPERATURE MACHTING

RIELLO

	Description		Plate heat exchangers							
			ΔT _{m1} =1	0 °C		ΔT _{m1} =7,	,2 °C			
			80 °C	70 °C		85 °C	75 °C			
			€00 °C	<50 °C		65 °C	€0 °C			
r. of generators in cascade application	Model	Useful power kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code		
иррисасіон	Condexa Pro 2x 35 P	70	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 25 (25A) N	DN50	2014041		
	Condexa Pro 2x 50 P	100	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 31 (31A) N	DN50	201404		
	Condexa Pro 2x 57 P	114	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 35 (35A) N	DN50	201404		
	Condexa Pro 2x 70 P	136	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 39 (39A) N	DN50	201404		
2	Condexa Pro 2x 90	180	SP 35 - DN50 31 (31A) N	DN50	20140411	SP 35 - DN50 49 (49A) N	DN50	201404		
	Condexa Pro 2x 100	194	SP 35 - DN50 35 (35A) N	DN50	20140412	SP 35 - DN50 57 (57A) N	DN50	201404		
	Condexa Pro 2x 115	224	SP 35 - DN50 39 (39A) N	DN50	20140413	SP 35 - DN50 65 (65A) N	DN50	201404		
	Condexa Pro 2x 135	262	SP 35 - DN50 45 (45A) N	DN50	20140414	SP 35 - DN50 75 (75A) N	DN50	201404		
	Condexa Pro 3x 35 P	105	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 31 (31A) N	DN50	201404		
	Condexa Pro 3x 50 P	150	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 31 (31A) N	DN50	201404		
	Condexa Pro 3x 57 P	171	SP 35 - DN50 31 (31A) N	DN50	20140410	SP 35 - DN50 49 (49A) N	DN50	201404		
	Condexa Pro 3x 70 P	204	SP 35 - DN50 35 (35A) N	DN50	20140411	1 1	DN50	201404		
3			· · · · · · · · · · · · · · · · · · ·			SP 35 - DN50 57 (57A) N				
	Condexa Pro 3x 90	270	SP 35 - DN50 45 (45A) N	DN50	20140414	SP 35 - DN50 75 (75A) N	DN50	201404		
	Condexa Pro 3x 100	291	SP 35 - DN50 49 (49A) N	DN50	20140415	SP 35 - DN50 81 (81A) N	DN50	201404		
	Condexa Pro 3x 115	336	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	201404		
	Condexa Pro 3x 135	393	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	201404		
	Condexa Pro 4x 35 P	140	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 39 (39A) N	DN50	201404		
	Condexa Pro 4x 50 P	200	SP 35 - DN50 31 (31A) N	DN50	20140411	SP 35 - DN50 49 (49A) N	DN50	201404		
	Condexa Pro 4x 57 P	228	SP 35 - DN50 39 (39A) N	DN50	20140413	SP 35 - DN50 65 (65A) N	DN50	201404		
4	Condexa Pro 4x 70 P	272	SP 35 - DN50 45 (45A) N	DN50	20140414	SP 35 - DN50 75 (75A) N	DN50	201404		
	Condexa Pro 4x 90	360	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	201404		
	Condexa Pro 4x 100	388	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	201404		
	Condexa Pro 4x 115	448	SP 35 - DN50 75 (75A) N	DN50	20140419	SP 35 - DN50 121 (121A) N	DN50	201404		
	Condexa Pro 4x 135	524	SP 40 - DN65 59 (59A) N	DN65	20014231	SP 40 - DN65 99 (99A) N	DN65	201404		
	Condexa Pro 5x 35 P	175	SP 35 - DN50 31 (31A) N	DN50	20140411	SP 35 - DN50 49 (49A) N	DN50	201404		
	Condexa Pro 5x 50 P	250	SP 35 - DN50 39 (39A) N	DN50	20140413	SP 35 - DN50 65 (65A) N	DN50	201404		
	Condexa Pro 5x 57 P	285	SP 35 - DN50 49 (49A) N	DN50	20140415	SP 35 - DN50 75 (75A) N	DN50	201404		
5	Condexa Pro 5x 70 P	340	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	201404		
•	Condexa Pro 5x 90	450	SP 35 - DN50 75 (75A) N	DN50	20140419	SP 35 - DN50 121 (121A) N	DN50	201404		
	Condexa Pro 5x 100	485	SP 35 - DN50 81 (81A) N	DN50	20140420	SP 35 - DN50 121 (121A) N	DN50	201404		
	Condexa Pro 5x 115	560	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 99 (99A) N	DN65	201404		
	Condexa Pro 5x 135	655	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 121 (121A) N	DN65	201404		
	Condexa Pro 6x 35 P	209	SP 35 - DN50 35 (35A) N	DN50	20140412	SP 35 - DN50 57 (57A) N	DN50	201404		
	Condexa Pro 6x 50 P	300	SP 35 - DN50 45 (45A) N	DN50	20140414	SP 35 - DN50 75 (75A) N	DN50	201404		
	Condexa Pro 6x 57 P	342	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	201404		
	Condexa Pro 6x 70 P	408	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	201404		
6	Condexa Pro 6x 90	540	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 99 (99A) N	DN65	201404		
	Condexa Pro 6x 100	582	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 111 (111A) N	DN65	201404		
	Condexa Pro 6x 115	672	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 121 (121A) N	DN65	201404		
	Condexa Pro 6x 135	786	SP 40 - DN65 93 (93A) N	DN65	20140427	SP 40 - DN65 145 (145A) N	DN65	201404		
	Condexa Pro 7x 35 P	244	SP 35 - DN50 45 (45A) N	DN50	20140414	SP 35 - DN50 65 (65A) N	DN50	201404		
	Condexa Pro 7x 50 P	350	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	201404		
	Condexa Pro 7x 57 P	399	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	201404		
	Condexa Pro 7x 70 P	476	SP 35 - DN50 81 (81A) N	DN50	20140420	SP 35 - DN50 121 (121A) N	DN50	201404		
7	Condexa Pro 7x 90	630	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 111 (111A) N	DN65	201404		
	Condexa Pro 7x 100	679	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 121 (121A) N	DN65	201404		
	Condexa Pro 7x 115	784	SP 40 - DN65 93 (93A) N	DN65	20140427	SP 40 - DN65 145 (145A) N	DN65	201404		
	Condexa Pro 7x 135	917	SP 60 - DN100 51 (51A) N	DN100	20140435	SP 60 - DN100 73 (73A) N	DN100	2014043		



	Description				Plate heat	t exchangers		ı	
			ΔT _{mI} =1	0 °C		ΔT _{ml} =7	,2 °C		
			80 °C	70 °C		85 °C 75 °C			
			00 °C	50 °C		<65 °C	60 °C		
Nr. of generators in cascade application	Model	Useful power kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code	
	Condexa Pro 8x 35 P	279	SP 35 - DN50 49 (49A) N	DN50	20140415	SP 35 - DN50 75 (75A) N	DN50	20140419	
	Condexa Pro 8x 50 P	400	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421	
	Condexa Pro 8x 57 P	456	SP 35 - DN50 75 (75A) N	DN50	20140419	SP 35 - DN50 121 (121A) N	DN50	20140424	
8	Condexa Pro 8x 70 P	544	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 99 (99A) N	DN65	20140428	
8	Condexa Pro 8x 90	720	SP 40 - DN65 93 (93A) N	DN65	20140427	SP 40 - DN65 145 (145A) N	DN65	20140433	
	Condexa Pro 8x 100	776	SP 40 - DN65 93 (93A) N	DN65	20140427	SP 40 - DN65 145 (145A) N	DN65	20140433	
	Condexa Pro 8x 115	896	SP 60 - DN100 59 (59A) N	DN100	20140437	SP 60 - DN100 73 (73A) N	DN100	20140439	
	Condexa Pro 8x 135	1048	SP 60 - DN100 59 (59A) N	DN100	20140437	SP 60 - DN100 85 (85A) N	DN100	20140440	
	Condexa Pro 9x 35 P	314	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421	
	Condexa Pro 9x 50 P	450	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	20140423	
	Condexa Pro 9x 57 P	513	SP 40 - DN65 59 (59A) N	DN65	20014231	SP 40 - DN65 99 (99A) N	DN65	20140428	
9	Condexa Pro 9x 70 P	612	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 111 (111A) N	DN65	20140429	
	Condexa Pro 9x 90	810	SP 60 - DN100 51 (51A) N	DN100	20140435	SP 60 - DN100 65 (65A) N	DN100	20140438	
	Condexa Pro 9x 100	873	SP 60 - DN100 51 (51A) N	DN100	20140435	SP 60 - DN100 73 (73A) N	DN100	20140439	
	Condexa Pro 9x 115	1008	SP 60 - DN100 65 (65A) N	DN100	20140438	SP 60 - DN100 85 (85A) N	DN100	20140440	
	Condexa Pro 10x 35 P	349	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421	
	Condexa Pro 10x 50 P	500	SP 35 - DN50 75 (75A) N	DN50	20140419	SP 35 - DN50 121 (121A) N	DN50	20140424	
	Condexa Pro 10x 57 P	570	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 111 (111A) N	DN65	20140429	
10	Condexa Pro 10x 70 P	680	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 121 (121A) N	DN65	20140432	
	Condexa Pro 10x 90	900	SP 60 - DN100 51 (51A) N	DN100	20140435	SP 60 - DN100 73 (73A) N	DN100	20140439	
	Condexa Pro 10x 100	970	SP 60 - DN100 59 (59A) N	DN100	20140437	SP 60 - DN100 77 (77A) N	DN100	20083248	
	Condexa Pro 10x 115	1120	SP 60 - DN100 73 (73A) N	DN100	20140439	SP 60 - DN100 97 (97A) N	DN100	20083249	

WATER-HEATERS

RIELLO

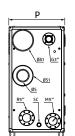
Floor-standing gas condensing units for indoor use

Steel Pro Power









M = FLOW

SC = CONDENSATE DISCHARGE



- In conformity with Directive 2009/125/EC
- Condensing modular thermal units for indoor applications (outdoor with optional kit) composed of painted technical cabinet, thermal modules from 57 kW up to 131 kW and system accessories
- Low polluting emissions, class 6 (UNI EN 15502)

Description	H mm	L mm	P mm	ØA mm	ØA1 mm	ØS mm	ØS1 mm	Net weight kg
STEEL PRO POWER 114-2	1800	900	890	160	_	160	-	270
STEEL PRO POWER 140-2	1800	900	890	160	_	160	-	270
STEEL PRO POWER 180-2	1800	900	890	160	_	160	-	280
STEEL PRO POWER 230-2	1800	900	890	160	_	160	-	300
STEEL PRO POWER 270-2	1800	900	890	-	300	160	300	350
STEEL PRO POWER 300-3	1800	1700	890	160	_	160	-	450
STEEL PRO POWER 345-3	1800	1700	890	160	_	160	-	490
STEEL PRO POWER 405-3	1800	1700	890	-	300	160	300	540
STEEL PRO POWER 460-4	1800	1700	890	160	_	160	-	560
STEEL PRO POWER 540-4	1800	1700	890	-	300	160	300	600

Steel Pro Power is the new Riello modular condensing system, specially designed and developed to achieve very high energy efficiency values, minimizing the space occupied.

The system, ready for a simple and quick installation, consists of technical cabinets designed according to the principles of modularity, consisting of an anodised aluminium frame assembly and painted panels.

The standard product is suitable for open chamber indoor installation and it can be transformed into sealed or outdoor installation version with the fitting of specific accessory kits. The cabinets are equipped with 2, 3 or 4 heating elements from 57 up to 131 kW, for a total heat input from 114 up to 524 kW and are available in the versions that associate to each thermal module low consumption circulators ("P" models) or 2-way valves ("V" models); the standard supply also includes electronic control, hydraulic supply and return, gas, fumes and condensate discharge manifolds.

The heat exchangers, with patented geometries, consist of two smooth concentric stainless steel pipes, having the pentagonal section of the inside and the circular section outside of the chamber; they have been specially designed to maximize the exchange surface, offering maximum corrosion resistance and minimum load losses. These features allow you to work with high ΔT , reducing the time of system start-up.

The models with 131 kW exchanger (270-405-540) are designed for side-by-side cascade installation, up to a maximum of 10 units and a power of 1310 kW in total. The control electronics, compatible with the MOD-BUS protocol, allow the climatic regulation with cascade management of the thermal modules, automatic summer/winter switching, possibility of remote management via 0..10V input and alarm output signal.



The control system manages the heat distribution on the secondary circuit, controlling: one direct zone, one or more mixed zones (from 1 to 3 depending on the model) and the cylinder circuit.

Through special accessories there is also the possibility to manage additional mixed zones (up to max 16).

Optimal combustion management and high modulation ratios (up to 1:50) allow high efficiency and low pollutant emissions (Class 6 according to UNI EN 15502). The continuity of service is ensured by the system modularity: even in the event of a module failure, the overall operation is not compromised. The accessories designed to guarantee a simple, rapid and complete installation of the thermal power plant are also available. Maximum operating pressure 6 bar.

TECHNICAL DATA

Description		Power [kW]			Efficiency %		Notes	Language	Code
	Useful 80°/60° max	Useful 50°/30° max	Furnace min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)			
INDOOR UNITS - MODULATING P	UMP VERSI	ON							
STEEL PRO POWER 114-2 P	111,4	123,8	13,7-114	97,7	108,6	109,4	(1)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138572 20162048 20162091 20162140 20162171 20162191
STEEL PRO POWER 140-2 P	134,0	147,8	13,7-136	98,5	108,1	109,3	(1)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138573 20162051 20162092 20162141 20162172 20162192
STEEL PRO POWER 180-2 P	176,6	194,8	19,4-180	98,1	108,3	108,9	(1)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138574 20162052 20162093 20162143 20162173 20162193
STEEL PRO POWER 230-2 P	219,6	242,2	22,4-223,2	98,4	108,6	108,9	(1)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138575 20162060 20162094 20162144 20162174 20162194
STEEL PRO POWER 270-2 P	258,0	284,2	26,3-262	98,5	108,3	109,4	(1)(4)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138576 20162063 20162095 20162145 20162175 20162195
STEEL PRO POWER 300-3 P	285,9	315,3	19,4-291	98,2	108,2	108,9	(2)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138577 20162064 20162097 20162146 20162176 20162196
STEEL PRO POWER 345-3 P	329,4	363,6	22,4-334,8	98,4	108,6	108,9	(2)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138578 20162065 20162098 20162148 20162177 20162197
STEEL PRO POWER 405-3 P	387,0	426,3	26,3-393	98,5	108,3	109,4	(2)(4)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138579 20162066 20162101 20162151 20162178 20162198
STEEL PRO POWER 460-4 P	439,2	484,4	22,4-446,4	98,4	108,6	108,9	(3)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138580 20162074 20162103 20162152 20162179 20162199

COMPLEMENTARY

Description	Power [kW]				Efficiency %			Language	Code
	Useful 80°/60° max	Useful 50°/30° max	Furnace min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)			
INDOOR UNITS - MODULATING PUMP VERSION									
STEEL PRO POWER 540-4 P	516,0	568,4	26,3-524	98,5	108,3	109,4	(3)(4)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138581 20162077 20162104 20162153 20162180 20162200

- Availability of the material at our warehouse: 25 working days from the date of the order's validation.
- Model with 2 thermal elements. Model with 3 thermal elements.

- (1) (2) (3) (4) Model with 4 thermal elements.

 Models that can be used for cascade systems.

SYSTEM CONFIGURATION GUIDE AND ACCESSORIES SELECTION



- **BOILER CONFIGURATION**
- 2. SEALED COMBUSTION TRANSFORMATION KIT (TYPE C)
- 3. HYDRAULIC INTERCEPTION OF THERMAL **MODULES**
- MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES
- HYDRAULIC SEPARATORS/PLATE HEAT **EXCHANGERS**
- 6. AUXILIARY ACCESSORIES FOR TECHNICAL BOX
- **AUXILIARY ACCESSORIES FOR OUTDOOR** INSTALLATION
- 8. SECONDARY CIRCUIT MANAGEMENT ACCESSORIES
- TREATMENT SYSTEMS FOR CONDENSATE **NEUTRALIZATION**

1. BOILER CONFIGURATION

Choice of the type of installation:

A - Stand alone

B - Cascade

A - STAND ALONE HEAT INPUT

Description		STEEL PRO POWER									
	114-2	140-2	180-2	230-2	270-2	300-3	345-3	405-3	460-4	540-4	
Rated heat input kW	114	136	180	224	262	291	336	393	448	524	

B - CASCADE SYSTEM HEAT INPUT

Description	Heat input kW	STEEL PRO POWER 270-2 P/270-2 V	STEEL PRO POWER 540-4 P/540-4 V	
			N. of units	
STEEL PRO POWER SYSTEM 675	655	1	1	-
STEEL PRO POWER SYSTEM 810	786	1	-	1
STEEL PRO POWER SYSTEM 945	917	-	1	1
STEEL PRO POWER SYSTEM 1080	1048	-	-	2
STEEL PRO POWER SYSTEM 1215	1179	1	1	1
STEEL PRO POWER SYSTEM 1350	1310	1	-	2

2. SEALED COMBUSTION TRANSFORMATION KIT (TYPE C)

Description	Code
Ø50/80 mm air adapter	20145144
Air hose kit for fan/collector connection Ø160 mm	20145141
Air hose kit for fan/manifold connection Ø300 mm	20145137
Air manifold for Ø160 mm models – for models with 2 thermal modules	20145185
Air manifold for Ø160 mm models – for models with ¾ thermal modules	20145186
Air manifold for Ø300 mm models – for models with 2 thermal modules	20145187
Air manifold for Ø300 mm models – for models with ¾ thermal modules	20145189

MATCHING TABLE OF SEALED TRANSFORMATION KIT CODES IN RELATION TO THE UNIT MODEL

Description			Kit	code/Quan	tity		
	20145144	20145141	20145137	20145185	20145186	20145187	20145189
STEEL PRO POWER 114-2	2x ●	2x●		1x ●			
STEEL PRO POWER 140-2	2x ●	2x ●		1x ●			
STEEL PRO POWER 180-2		2x•		1x ●			
STEEL PRO POWER 230-2		2x•		1x ●			
STEEL PRO POWER 270-2			2x ●			1x ●	
STEEL PRO POWER 300-3		3x ●			1x ●		
STEEL PRO POWER 345-3		3x ●			1x ●		
STEEL PRO POWER 405-3			3x ●				1x ●
STEEL PRO POWER 460-4		4x●			1x ●		
STEEL PRO POWER 540-4			4x ●				1x ●
STEEL PRO POWER SYSTEM 675			5x●			1x ●	1x ●
STEEL PRO POWER SYSTEM 810			бх●			1x ●	1x ●
STEEL PRO POWER SYSTEM 945			7x ●				2x ●
STEEL PRO POWER SYSTEM 1080			8x•				2x●
STEEL PRO POWER SYSTEM 1215			9x ●			1x ●	2x●
STEEL PRO POWER SYSTEM 1350			10x●			1x ●	2x●

3. HYDRAULIC INTERCEPTION OF THERMAL MODULES

Description	Notes	Code
2-way valve kit for hydraulic interception kit	(1)	20145169

⁽¹⁾ To be ordered in number equal to the number of modules in the system.

4. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES

Description	Notes	Code
Junction kit for cascade (Fume Ø300 - Air Ø300 - Condensation Ø50)		20157593
Junction kit for cascade with spacer (150 mm)	(1)	20145237
Safety kit	(2)	20071190
Safety valve up to 460 kW (5.4 bar ØG.¾," F)		20023104
Safety valve up to 580 kW (5.4 bar ØG.1" F)		20023106
Fuel shut-off valve kit (VIC) - ØG.1"	(3)(4)	20009486
Fuel shut-off valve kit (VIC) - ØG.1" 1/2	(4)(5)	20009482
Fuel shut-off valve kit (VIC) - ØG.2"	(4)(6)	20009483
Fuel shut-off valve kit (VIC) - ØG.3"	(4)(7)	20061640
Flanged reduction kit 3"/2" (DN80/DN50)		20145184
Flanged 2" DN50 PN6/threaded ØG.2" adapter kit for VIC valve		20094187
Flanged 3" DN80 PN6/flanged ØG.3" DN80 PN16 adapter kit for VIC valve		20161191
2 "- 1" gas adapter for VIC valve		20147994
2 "- 1" ½ gas adapter for VIC valve		20147990
Adapter kit for VIC valve flanged from DN80 to threaded ØG.2 "		20146852
Flanged reduction kit 5"/3" (DN125/DN80)		20145183
3" closing plugs kit	(8)	20070903
5" closing plugs kit	(8)	20070907
Flange kit 3"		20082190
Flange kit 5"		20082191
Extension kit 3"	(9)(11)	20167872
Extension kit 5"	(10)(11)	20167873
Hydraulic flow manifold 3"		20145172
Hydraulic flow manifold 5"		20145177
Hydraulic return manifold 3"		20145181
Hydraulic return manifold 5"		20145182

- (D) (1) (2) (3) (4) (5) (6) (7) (8) (9)

- Availability of the material at our warehouse: 25 working days from the date of the order's validation. Includes connections H₂0 5" Gas 3" Fumes Ø300 Condensation Ø50.

 It does not include a safety valve and VIC.

 Recommended up to a maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar.

 Operating temperature at 97 ° C Capillary tube 5 m.

 Recommended up to maximum power of 230 kW, calculated considering gas supply pressure = 20 mbar.

 Recommended up to a maximum power of 580 kW, calculated considering gas supply pressure = 20 mbar.

 Recommended up to maximum power of 1310 kW, calculated considering gas supply pressure = 20 mbar.

 Kit to close the unused side.

- To be installed in case of remote primary / secondary circuit interface with or without technical cabinet up to 485 kW.
- (10) To be installed in case of remote primary / secondary circuit interface with or without technical cabinet up to 1310 kW.
 (11) On the delivery pipe there are specific sleeves for housing safety kit devices.

NOTE: to calculate the maximum permissible power of the VICs, with different pressure supply from 20 mbar, contact the pre-sales service.

5. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS

Description	Notes	Code
3" hydraulic separator (up to 485 kW)		20145255
5" hydraulic separator (up to 1310 kW)		20145260
Left technical box with hydraulic separator (up to 485 kW)	(1)	20145252
Left technical box with hydraulic separator (up to 1310 kW)	(D)(1)	20145254
Right technical box with hydraulic separator (up to 485 kW)	(1)	20145247
Right technical box with hydraulic separator (up to 1310 kW)	(D)(1)	20145250
Connection kit for plate heat exchanger DN80/DN50		20146827
Connection kit for plate heat exchanger DN125/DN65		20146828
Connection kit for plate heat exchanger DN125/DN100		20146829
Left technical box for plate heat exchanger (up to 485 kW)		20146833
Left technical box for plate heat exchanger (up to 800 kW)	(D)	20146835
Left technical box for plate heat exchanger (up to 1310 kW)	(D)	20146836
Right technical box for plate heat exchanger (up to 485 kW)		20146830
Right technical box for plate heat exchanger (up to 800 kW)	(D)	20146831
Right technical box for plate heat exchanger (up to 1310 kW)	(D)	20146832
Right/left technical box or 3" extension kit (270/485 kW)	(D)(2)(3)	20158562
Right/left technical box or 5" extension kit (580/1310 kW)	(D)(2)(3)	20158564

- (D) (1) (2) (3) Availability of the material at our warehouse: 25 working days from the date of the order's validation. Contain the hydraulic separator within them.

 Pompa di tipo singolo o gemellare..

 They do not contain the circulator inside them.

MATCHING TABLE OF SAFETY DEVICES IN RELATION TO THE UNIT MODEL

Description	Safety kit		fety Ives					VIC valve	25				
	- 1110			TORY ACC	SSORIES			ACCE:	SORIES TO	BE SELEC		DING TO	
		ar				<u>.</u>		With	out techn		With technical box		
	Safety kit	Safety valve up to 460 kW (5.4 bar ØG.¾" F)	Safety valve up to 580 kW (5.4 bar ØG.1" F)	Fuel shut-off valve kit (VIC) - ØG.1"	Fuel shut-off valve kit (VIC) – ØG.1" ½	Fuel shut-off valve kit (VIC) - ØG.2"	Fuel shut-off valve kit (VIC) - ØG.3"	3"/2" flanged reduction kit	Flanged 2" DN50 PN6/ threaded ØG.2" adapter kit	Flanged 3" DN80 PN6/flanged ØG.3" DN80 PN16 adapter kit	3"/2" flanged reduction kit (DN80/DN50)	Flanged DN80/threaded ØG.2" adapter kit	
	20071190	20023104	20023106	20009486	20009482	20009483	20061640	20145184	20094187	20161191	20145184	20146852	
STEEL PRO POWER 114-2	1x ●	1x ●		1x •					1x ●				
STEEL PRO POWER 140-2	1x ●	1x ●			1x ●				1x ●				
STEEL PRO POWER 180-2	1x ●	1x ●			1x ●				1x ●				
STEEL PRO POWER 230-2	1x ●	1x ●			1x ●				1x ●				
STEEL PRO POWER 270-2	1x ●	1x ●				1x ●		1x ●	1x ●		1x ●		
STEEL PRO POWER 300-3	1x ●	1x ●				1x ●			1x ●				
STEEL PRO POWER 345-3	1x ●	1x ●				1x ●			1x ●				
STEEL PRO POWER 405-3	1x ●	1x ●				1x ●		1x ●	1x ●		1x ●		
STEEL PRO POWER 460-4	1x ●	1x ●				1x ●			1x ●				
STEEL PRO POWER 540-4	1x ●		1x ●			1x ●		1x ●	1x ●			1x ●	
STEEL PRO POWER SYSTEM 675	1x ●	2x ●					1x ●			1x ●			
STEEL PRO POWER SYSTEM 810	1x ●	2x ●					1x ●			1x ●			
STEEL PRO POWER SYSTEM 945	1x ●	2x ●					1x ●			1x ●			
STEEL PRO POWER SYSTEM 1080	1x ●	3x ●					1x ●			1x ●			
STEEL PRO POWER SYSTEM 1215	1x ●	3x ●					1x ●			1x ●			
STEEL PRO POWER SYSTEM 1350	1x ●	3x ●					1x ●			1x •			

MATCHING TABLE OF FLANGE, HYDRAULIC REDUCTION CODES IN RELATION TO THE UNIT MODEL

Description	Flanged reduction kit 5"/3" (DN125/DN80)	3" closing plugs kit	5" closing plugs kit	5" closing plugs kit	5" through-flanges kit
	20145183	20070903	20082190	20070907	20082191
STEEL PRO POWER 114-2		1x ●		2x•	
STEEL PRO POWER 140-2		1x ●		2x•	
STEEL PRO POWER 180-2		1x ●		2x•	
STEEL PRO POWER 230-2		1x ●		2x•	
STEEL PRO POWER 270-2	2x ●(*)		1x ●	2x•	
STEEL PRO POWER 300-3		1x ●		2x•	
STEEL PRO POWER 345-3		1x ●		2x•	
STEEL PRO POWER 405-3	2x ●(*)		1x ●	2x•	
STEEL PRO POWER 460-4		1x ●		2x•	
STEEL PRO POWER 540-4			1x ●		2x ●
STEEL PRO POWER SYSTEM 675			1x ●		2x ●
STEEL PRO POWER SYSTEM 810			1x ●		2x ●
STEEL PRO POWER SYSTEM 945			1x ●		2x •
STEEL PRO POWER SYSTEM 1080			1x ●		2x ●
STEEL PRO POWER SYSTEM 1215			1x ●		2x•
STEEL PRO POWER SYSTEM 1350			1x ●		2x ●

^(*) Accessories necessary for the hydraulic connection to technical box.

EXTENSION KIT SELECTION TABLE

Description	With/without	technical box		With tech	inical box	
	Extension kit 3"	Extension kit 5"	Right/left technical box or 3" extension kit	Right/left technical box or 5" extension kit	2 "- 1" 1/2 gas adapter for VIC valve	2 "- 1" gas adapter for VIC valve
	20167872	20167873	20158562	20158564	20147990	20147994
STEEL PRO POWER 114-2	•		•		•	
STEEL PRO POWER 140-2	•		•			•
STEEL PRO POWER 180-2	•		•			•
STEEL PRO POWER 230-2	•		•			•
STEEL PRO POWER 270-2	•		•			
STEEL PRO POWER 300-3	•		•			
STEEL PRO POWER 345-3	•		•			
STEEL PRO POWER 405-3	•		•			
STEEL PRO POWER 460-4	•		•			
STEEL PRO POWER 540-4		•		•		
STEEL PRO POWER SYSTEM 675		•		•		
STEEL PRO POWER SYSTEM 810		•		•		
STEEL PRO POWER SYSTEM 945		•		•		
STEEL PRO POWER SYSTEM 1080		•		•		
STEEL PRO POWER SYSTEM 1215		•		•		
STEEL PRO POWER SYSTEM 1350		•		•		

TECHNICAL CABINET SELECTION TABLE FOR EXTENSION KIT HOUSING

Description	2 "- 1" gas adapter for VIC valve	2 "- 1" ½ gas adapter for VIC valve	Right/left technical box or 3" extension kit	Right/left technical box or 5" extension kit
	20147994	20147990	20158562	20158564
STEEL PRO POWER 114-2	•		•	
STEEL PRO POWER 140-2		•	•	
STEEL PRO POWER 180-2		•	•	
STEEL PRO POWER 230-2		•	•	
STEEL PRO POWER 270-2			•	
STEEL PRO POWER 300-3			•	
STEEL PRO POWER 345-3			•	
STEEL PRO POWER 405-3			•	
STEEL PRO POWER 460-4			•	
STEEL PRO POWER 540-4				•
STEEL PRO POWER SYSTEM 675				•
STEEL PRO POWER SYSTEM 810				•
STEEL PRO POWER SYSTEM 945				•
STEEL PRO POWER SYSTEM 1080				•
STEEL PRO POWER SYSTEM 1215				•
STEEL PRO POWER SYSTEM 1350				•

MATCHING TABLE OF HYDRAULIC SEPARATOR AND ACCESSORIES IN RELATION TO THE UNIT MODEL

Description		Wi	thout te	chnical l	оох		,	Nith tech	nnical bo	х
				ght side Ilation				side lation		t side Ilation
	3" connections up to 485 kW	5" connections up to 1310 kW	3" hydraulic flow manifold	5" hydraulic flow manifold	3" hydraulic return manifold	5" hydraulic return manifold	Left technical box for hydraulic separator up to 485 kW	Left technical box for hydraulic separator up to 1310 kW	Right technical box for hydraulic separator up to 485 kW	Right technical box for hydraulic separator up to 1310 kW
	20145255	20145260	20145172	20145177	20145181	20145182	20145252	20145254	20145247	20145250
STEEL PRO POWER 114-2	•		•		•		•		•	
STEEL PRO POWER 140-2	•		•		•		•		•	
STEEL PRO POWER 180-2	•		•		•		•		•	
STEEL PRO POWER 230-2	•		•		•		•		•	
STEEL PRO POWER 270-2	•		•		•		•		•	
STEEL PRO POWER 300-3	•		•		•		•		•	
STEEL PRO POWER 345-3	•		•		•		•		•	
STEEL PRO POWER 405-3	•		•		•		•		•	
STEEL PRO POWER 460-4	•		•		•		•		•	
STEEL PRO POWER 540-4		•		•		•		•		•
STEEL PRO POWER SYSTEM 675		•		•		•		•		•
STEEL PRO POWER SYSTEM 810		•		•		•		•		•
STEEL PRO POWER SYSTEM 945		•		•		•		•		•
STEEL PRO POWER SYSTEM 1080		•		•		•		•		•
STEEL PRO POWER SYSTEM 1215		•		•		•		•		•
STEEL PRO POWER SYSTEM 1350		•		•		•		•		•

PLATE HEAT EXCHANGER COMBINATIONS FOR FOR BOILER OPERATION WITH PRIMARY (ΔT = 10 °C average between primary and secondary)

Description		ı			1	Plate h	eat ex	change	r ∆TmI	= 10 °(-				_
80°C 70°C 50°C	SP 35 - DN50 25 (25A) N	SP 35 - DN50 31 (31A) N	SP 35 - DN50 39 (39A) N	SP 35 - DN50 45 (45A) N	SP 35 - DN50 49 (49A) N	SP 35 - DN50 57 (57A) N	SP 35 - DN50 65 (65A) N	SP 35 - DN50 75 (75A) N	SP 40 - DN65 59 (59A) N	SP 40 - DN65 75 (75A) N	SP 40 - DN65 93 (93A) N	SP 60 - DN100 51 (51A) N	SP 60 - DN100 59 (59A) N	SP 60 - DN100 65 (65A) N	SP 60 - DN100 73 (73A) N
	20140410	20140411	20140413	20140414	20140415	20140416	20140418	20140419	20014231	20140426	20140427	20140435	20140437	20140438	20140439
STEEL PRO POWER 114-2	•														
STEEL PRO POWER 140-2	•														
STEEL PRO POWER 180-2		•													
STEEL PRO POWER 230-2			•												
STEEL PRO POWER 270-2				•											
STEEL PRO POWER 300-3					•										
STEEL PRO POWER 345-3						•									
STEEL PRO POWER 405-3							•								
STEEL PRO POWER 460-4								•							
STEEL PRO POWER 540-4									•						
STEEL PRO POWER SYSTEM 675										•					
STEEL PRO POWER SYSTEM 810											•				
STEEL PRO POWER SYSTEM 945												•			
STEEL PRO POWER SYSTEM 1080													•		
STEEL PRO POWER SYSTEM 1215														•	
STEEL PRO POWER SYSTEM 1350															•

NOTE: once the exchanger has been selected it is necessary to associate the accessories shown in the "Hydraulic accessories selection table for heat exchanger installation".

PLATE HEAT EXCHANGER COMBINATIONS FOR FOR BOILER OPERATION WITH PRIMARY (AT = 7.2 °C AVERAGE BETWEEN PRIMARY AND SECONDARY)

Description						Plate h	neat ex	change	r ∆Tml :	= 7.2 °C					
85°C 75°C 60°C	SP 35 - DN5035 (35A) N	SP 35 - DN50 39 (39A) N	SP 35 - DN50 49 (49A) N	SP 35 - DN50 65 (65A) N	SP 35 - DN50 75 (75A) N	SP 35 - DN50 81 (81A) N	SP 35 - DN50 93 (93A) N	SP 35 - DN50 105 (105A) N	SP 35 - DN50 121 (121A) N	SP 40 - DN65 99 (99A) N	SP 40 - DN65 121 (121A) N	SP 40 - DN65 145 (145A) N	SP 60 - DN100 73 (73A) N	SP 60 - DN100 85 (85A) N	SP 60 - DN100 97 (97A) N
	20140412	20140413	20140415	20140418	20140419	20140420	20140421	20140423	20140424	20140428	20140432	20140433	20140439	20140440	20083249
STEEL PRO POWER 114-2	•														
STEEL PRO POWER 140-2		•													
STEEL PRO POWER 180-2			•												
STEEL PRO POWER 230-2				•											
STEEL PRO POWER 270-2					•										
STEEL PRO POWER 300-3						•									
STEEL PRO POWER 345-3							•								
STEEL PRO POWER 405-3								•							
STEEL PRO POWER 460-4									•						
STEEL PRO POWER 540-4										•					
STEEL PRO POWER SYSTEM 675											•				
STEEL PRO POWER SYSTEM 810												•			
STEEL PRO POWER SYSTEM 945													•		
STEEL PRO POWER SYSTEM 1080														•	
STEEL PRO POWER SYSTEM 1215															•
STEEL PRO POWER SYSTEM 1350															•

NOTE: once the exchanger has been selected, it is necessary to associate the accessories shown in the "Hydraulic accessories selection table for heat exchanger installation".

MATCHING TABLE OF HYDRAULIC ACCESSORIES FOR HEAT EXCHANGER INSTALLATION IN RELATION TO THE UNIT MODEL

Description	Withou	ıt techni	cal box			With tech	nical box	<	
				Left si	de insta	lation	Right	ide insta	Illation
	Connection kit for plate heat exchanger DN80 (Ø3")/DN50	Connection kit for plate heat exchanger DN125 (Ø5")/DN65	Connection kit for plate heat exchanger DN125 (Ø5")/DN100	Left technical box for plate heat exchanger up to 485 kW	Left technical box for plate heat exchanger up to 800 kW	Left technical box for plate heat exchanger up to 1310 kW	Right technical box for plate heat exchanger up to 485 kW	Right technical box for plate heat exchanger up to 800 kW	Right technical box for plate heat exchanger up to 1310 kW
	20146827	20146828	20146829	20146833	20146835	20146836	20146830	20146831	20146832
STEEL PRO POWER 114-2	•			•			•		
STEEL PRO POWER 140-2	•			•			•		
STEEL PRO POWER 180-2	•			•			•		
STEEL PRO POWER 230-2	•			•			•		
STEEL PRO POWER 270-2	•			•			•		
STEEL PRO POWER 300-3	•			•			•		
STEEL PRO POWER 345-3	•			•			•		
STEEL PRO POWER 405-3	•			•			•		
STEEL PRO POWER 460-4	•			•			•		
STEEL PRO POWER 540-4		•			•			•	
STEEL PRO POWER SYSTEM 675		•			•			•	
STEEL PRO POWER SYSTEM 810		•			•			•	
STEEL PRO POWER SYSTEM 945			•			•			•
STEEL PRO POWER SYSTEM 1080			•			•			•
STEEL PRO POWER SYSTEM 1215			•			•			•
STEEL PRO POWER SYSTEM 1350			•			•			•

6. AUXILIARY ACCESSORIES FOR TECHNICAL BOX

Description	Notes	Code
Air/flue manifold technical box Ø160 mm L = 900 mm	(1)	20147030
Air/flue manifold technical box Ø300 mm L = 900 mm	(1)	20147028
Air/flue manifold technical box Ø160 mm L = 1800 mm	(1)	20157595
Air/flue manifold technical box Ø300 mm L = 1800 mm	(1)	20157598
"S" flue manifold technical box Ø300 mm L = 1800 mm (SP60-DN100)	(1)	20157599
Bands for crane lifting handling		20146844
Handling wheels	(2)	20146845
Internal light emergency and service kit		20146846

To be used as indicated in the tables below. To be used during installation.

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

OPEN CHAMBER BOILER CONFIGURATION

Selection table	Exhaust flue side	Technical box side
Table A	Right	Right
Table A	Left	Left
Collectors not necessary	Left	Right
Collectors not necessary	Right	Left

ROOM SEALED BOILER CONFIGURATION

Selection table	Exhaust flue side	Air suction side	Technical box side	
Table A	Right	Right	Right	
able A	Left	Left	Left	
	Left	Right	Right	
Table D	Left	Right	Left	
Table B	Right	Left	Right	
	Right	Left	Left	
Callactors not naccessive	Left	Left	Right	
Collectors not necessary	Right	Right	Left	

LEFT SIDE CONFIGURATION

Technical box for hydraulic separator



Technical box for plate heat exchanger



RIGHT SIDE CONFIGURATION

Technical box for hydraulic separator



Technical box for plate heat exchanger



TABLE A

Code and number of the air/fume manifold		nical box (only "V"			fo	Technio r hydrauli		itor				ical box exchang	er	
Chamber type	Open c	hamber	Room	sealed	0pen c	hamber	Room	sealed	0р	en chan	ber	R	oom sea	led
	20147030	20147028	20147030	20147028	20147030	20147028	20147030	20147028	20157595	20157598	20157599	20157595	20157598	20157599
STEEL PRO POWER 114-2	1x ●		2x●		1x ●		2x •		1x ●			2x●		
STEEL PRO POWER 140-2	1x •		2x•		1x ●		2x •		1x ●			2x●		
STEEL PRO POWER 180-2	1x ●		2x●		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER 230-2	1x ●		2x•		1x ●		2x •		1x ●			2x●		
STEEL PRO POWER 270-2 (*)	1x ●				1x ●				1x ●					
STEEL PRO POWER 300-3	1x ●		2x●		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER 345-3	1x ●		2x●		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER 405-3 (*)	1x ●				1x ●				1x ●					
STEEL PRO POWER 460-4	1x ●		2x●		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER 540-4		1x ●		2x●		1x ●		2x●		1x ●			2x ●	
STEEL PRO POWER SYSTEM 675		1x ●		2x •		1x •		2x●		1x ●			2x •	
STEEL PRO POWER SYSTEM 810		1x •		2x •		1x •		2x●		1x ●			2x●	
STEEL PRO POWER SYSTEM 945		1x •		2x •		1x ●		2x●			1x •			(**)
STEEL PRO POWER SYSTEM 1080		1x •		2x •		1x ●		2x●			1x •			(**)
STEEL PRO POWER SYSTEM 1215		1x •		2x •		1x •		2x●			1x ●			(**)
STEEL PRO POWER SYSTEM 1350		1x ●		2x •		1x •		2x●			1x ●			(**)

TABLE B

Code and number of the air/fume manifold		nical box (only "V"			Tech	nical box sepa		raulic		Technic	al box fo	r heat ex	change	r
Chamber type	0pen c	hamber	Room	sealed	0pen c	hamber	Room	sealed	0р	en cham	ber	Ro	om sea	led
	20147030	20147028	20147030	20147028	20147030	20147028	20147030	20147028	20157595	20157598	20157599	20157595	20157598	20157599
STEEL PRO POWER 114-2	1x •		1x •		1x •		1x ●		1x •			1x ●		
STEEL PRO POWER 140-2	1x •		1x •		1x •		1x •		1x •			1x ●		
STEEL PRO POWER 180-2	1x •		1x ●		1x ●		1x ●		1x •			1x ●		
STEEL PRO POWER 230-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 270-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 300-3	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 345-3	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 405-3	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 460-4	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 540-4		1x ●		1x ●		1x ●		1x •		1x ●			1x ●	
STEEL PRO POWER SYSTEM 675		1x ●		1x ●		1x ●		1x •		1x ●			1x ●	
STEEL PRO POWER SYSTEM 810		1x ●		1x ●		1x •		1x •		1x ●			1x ●	
STEEL PRO POWER SYSTEM 945		1x ●		1x ●		1x ●		1x •			1x ●			1x ●
STEEL PRO POWER SYSTEM 1080		1x ●		1x ●		1x ●		1x •			1x ●			1x ●
STEEL PRO POWER SYSTEM 1215		1x •		1x ●		1x •		1x •			1x ●			1x ●
STEEL PRO POWER SYSTEM 1350		1x ●		1x ●		1x ●		1x ●			1x ●			1x ●

NOTE: to be used only if the fume outlet side is the same as the hydraulic outlet side.

(*) Flue discharge/ air intake on the technical box side not available in case of sealed chamber, the air intake is mandatory on the boiler side.

(**) In case of a technical box with plate heat exchanger and sealed installation, the air intake must take place on the boiler side and not on the technical box side.

In this case also for the pump technical box, if present, is necessary to adopt only one code 20147028.

WATER-HEATERS

7. AUXILIARY ACCESSORIES FOR OUTDOOR INSTALLATION

Description	Code
Kit IPX5D upper coverage for outdoor installation L = 900 mm	20146841
Kit IPX5D upper coverage for outdoor installation L = 1800 mm	20146842
Kit IPX5D display coverage	20146843
Outdoor insulation kit for 3" blind flanges	20146953
Outdoor insulation kit for 5" blind flanges	20146954

 $\ensuremath{\mathsf{NOTE}}\xspace$ to be used only in the case of outdoor installation.

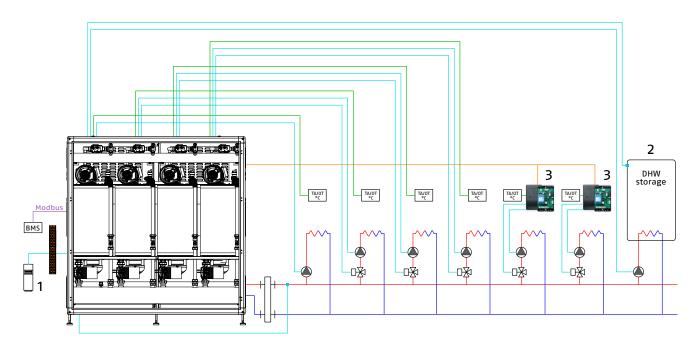
MATCHING TABLE OF BOX + DISPLAY COVERS SELECTION TABLE FOR OUTDOOR INSTALLATION

Description	Con		on with t Iraulic se			Con	figuration for plate	on with t e heat ex		
	20146841	20146842	20146843	20146953	20146954	20146841	20146842	20146843	20146953	20146954
STEEL PRO POWER 114-2 P	2x ●		1x ●	1x •		1x ●	1x ●	1x ●	1x ●	
STEEL PRO POWER 140-2 P	2x ●		1x ●	1x •		1x ●	1x ●	1x ●	1x ●	
STEEL PRO POWER 180-2 P	2x ●		1x ●	1x •		1x ●	1x ●	1x ●	1x ●	
STEEL PRO POWER 230-2 P	2x ●		1x ●	1x •		1x ●	1x ●	1x ●	1x ●	
STEEL PRO POWER 270-2 P	2x ●		1x ●		1x ●	1x ●	1x ●	1x ●		1x ●
STEEL PRO POWER 300-3 P	1x ●	1x ●	1x ●	1x •			2x •	1x ●	1x ●	
STEEL PRO POWER 345-3 P	1x ●	1x ●	1x •	1x •			2x •	1x ●	1x ●	
STEEL PRO POWER 405-3 P	1x ●	1x ●	1x ●		1x ●		2x •	1x ●		1x ●
STEEL PRO POWER 460-4 P	1x ●	1x ●	1x ●	1x •			2x •	1x ●	1x ●	
STEEL PRO POWER 540-4 P	1x ●	1x ●	1x •		1x •		2x •	1x •		1x •
STEEL PRO POWER SYSTEM 675	2x ●	1x ●	2x •		1x •	1x •	2x •	2x •		1x •
STEEL PRO POWER SYSTEM 810	2x ●	1x ●	2x ●		1x ●	1x ●	2x •	2x •		1x ●
STEEL PRO POWER SYSTEM 945	1x ●	2x •	2x •		1x ●		3x ●	2x ●		1x ●
STEEL PRO POWER SYSTEM 1080	1x ●	2x •	2x •		1x ●		3x ●	2x •		1x •
STEEL PRO POWER SYSTEM 1215	2x ●	2x ●	3x ●		1x ●	1x ●	3x ●	3x ●		1x ●
STEEL PRO POWER SYSTEM 1350	2x ●	2x •	3x ●		1x ●	1x ●	3x ●	3x ●		1x ●

8. SECONDARY CIRCUIT MANAGEMENT ACCESSORIES

Description	Notes	Code
External probe		20132778
Immersion probe	(1)	1220599
Electronic management kit for single direct or additional mixed zone (max 16)		20130811

Utilized for the management of secondary/tank circuit.



- 1. External probe
- 2. Cylinder probe
- 3. Electronic management kit for single direct or additional mixed zone

9. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION

Description	Notes	Code
Condensate neutralizer N2 (up to 450 kW)		4031810
Condensate neutralizer N3 (450÷1500 kW)	(D)	4031812
Condensate neutralizer HN2 (up to 270 kW)	(1)	4031811
Condensate neutralizer HN3 (270÷750 kW)	(D)(1)	4031813

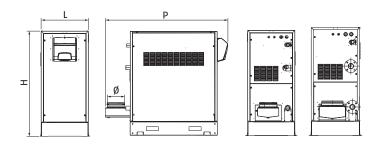
- Availability of the material at our warehouse: 30 working days from the date of the order's validation. Equipped with condensate pump.

RIELLO PRODUCT CATALOGUE

Modular condensing floor-standing boilers for indoor installation

Alu Pro Power





- In conformity with Directive 2009/125/EC
- Modular floor-standing condensing boilers, featuring a heat-exchanger made of a special aluminium and silicon alloy with a wide modulation range (up to 1:40) and extremely reduced dimensions

Description	Н	L	P	Ø	Flow/Return	Gas	Weight (empty)
	mm	mm	mm	mm	connection	connection	kg
ALU 115 PRO POWER	1534,5	690	1264	150	2" G	1" ½ G	240
ALU 150 PRO POWER	1534,5	690	1264	150	2" G	1" ½ G	240
ALU 225 PRO POWER	1534,5	690	1264	200	2" G	1" ½ G	310
ALU 300 PRO POWER	1534,5	690	1654	250	2" G	1" ½ G	395
ALU 349 PRO POWER	1534,5	690	1654	250	2" G	1" ½ G	470
ALU 375 PRO POWER	1534,5	690	1654	250	2" G	1" ½ G	470
ALU 450 PRO POWER	1534,5	690	2103	300	DN65 PN10	1" ½ G	565
ALU 525 PRO POWER	1534,5	690	2103	300	DN65 PN10	1" ½ G	640
ALU 600 PRO POWER	1534,5	690	2298	300	DN65 PN10	1" ½ G	735

The heat-generator is composed by a cascade of independent 75-kW thermal modules, managed in cascade sequence, ensuring the best adaptation to the heat request and maximum reliability and peace of mind.

Continuous pre-mix burner in stainless steel ensures efficient, noiseless and high-efficiency combustion with low polluting emissions allowing to achieve Class 5 NOx (according to UNI EN 297). It is provided with thermoregulation suitable for the control of a modulating pump for the primary ring circuit.

The RIELLOtech regulation can control up to 8 boilers in a cascade application.

- Type of Appliance B23, B23P
- Low head losses
- Wide range of accessories for an easy, fast, flexible and complete installation
- Compact dimensions, reduced weight and the basement make the transport and the placement easier
- Maximum operating pressure: 6 bar.

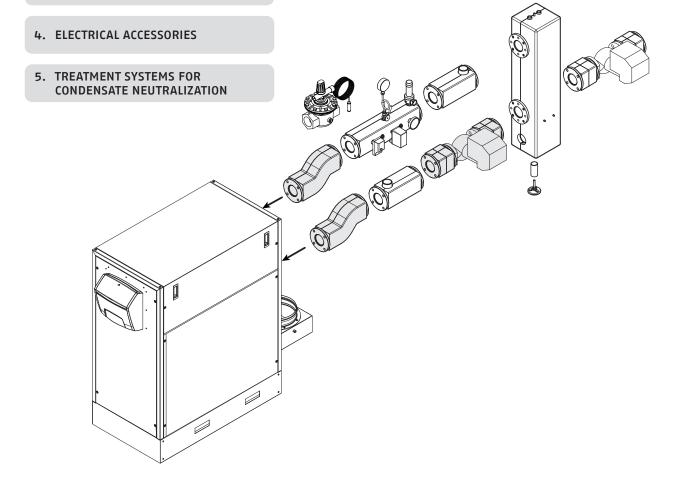
HEAT PUMPS

TECHNICAL DATA

Description	0utput 80°/60° max kW	Output 50°/30° max kW	Input min-max kW	Efficiency Pn (80°/60°) %	Efficiency Pn (50°/30°) %	Efficiency 30% Pn (50°/30°) %	Code
ALU 115 PRO POWER	112,1	119,6	15 - 115	97,5	104,0	108,0	20021781
ALU 150 PRO POWER	146,3	156,0	15 - 150	97,5	104,0	108,0	20020843
ALU 225 PRO POWER	219,4	234,0	15 - 225	97,8	104,0	108,0	20020844
ALU 300 PRO POWER	293,0	312,0	15 - 300	98,0	104,0	108,0	20020845
ALU 349 PRO POWER	340,3	363,0	15 - 349	98,3	104,0	108,0	20029287
ALU 375 PRO POWER	365,6	390,0	15 - 375	98,3	104,0	108,0	20020846
ALU 450 PRO POWER	438,8	468,0	15 - 450	98,3	104,0	108,0	20020847
ALU 525 PRO POWER	511,9	546,0	15 - 525	98,3	104,0	108,0	20020848
ALU 600 PRO POWER	585,0	624,0	15 - 600	98,3	104,0	108,0	20020849

SYSTEM CONFIGURATION GUIDE AND ACCESSORIES SELECTION

- 1. BOILER CONFIGURATION
- 2. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES
- 3. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS



1. BOILER CONFIGURATION

Choice of the type of installation: A – Stand alone B – Cascade

RIELLO

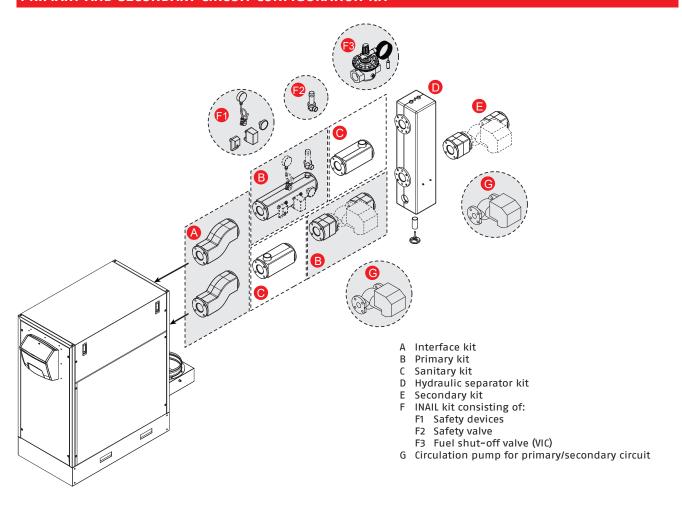
A - STAND ALONE HEAT INPUT

Description	ALU 115 PRO	ALU 150 PRO	ALU 225 PRO	ALU 300 PRO	ALU 349 PRO	ALU 375 PRO	ALU 450 PRO	ALU 525 PRO	ALU 600 PRO
	POWER								
Rated heat input kW	115,0	150,0	225,0	300,0	349,0	375,0	450,0	525,0	600,0

B - CASCADE SYSTEM HEAT INPUT

Description	ALU 115 PRO POWER	ALU 150 PRO POWER	ALU 225 PRO POWER	ALU 300 PRO POWER	ALU 349 PRO POWER	ALU 375 PRO POWER	ALU 450 PRO POWER	ALU 525 PRO POWER	ALU 600 PRO POWER			
Boiler heat output kW	115	150	225	300	349	375	450	525	600			
No. boilers		TOTAL POWER										
2	230	300	450	600	698	750	900	1050	1200			
3	345	450	675	900	1047	1125	1350	1575	1800			
4	460	600	900	1200	1396	1500	1800	2100	2400			
5	575	750	1125	1500	1745	1875	2250	2625	3000			
6	690	900	1350	1800	2094	2250	2700	3150	3600			
7	805	1050	1575	2100	2443	2625	3150	3675	4200			
8	920	1200	1800	2400	2792	3000	3600	4200	4800			

PRIMARY AND SECONDARY CIRCUIT CONFIGURATION KIT



2. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES

Description	Notes	Code
Interface primary circuit kit up to 375 kW	(1)	20021753
Interface primary circuit kit up to 600 kW	(1)	20021752
Primary kit up to 300 kW	(2)	20021751
Primary kit up to 600 kW	(2)	20021750
Safety kit	(3)	4030091
Safety valve up to 460 kW (5.4 bar ØG.¾" F)	(4)	20023104
Safety valve up to 580 kW (5.4 bar ØG.1" F)	(4)	20023106
Fuel shut-off valve kit (VIC) - ØG.1"	(5)(9)	20009486
Fuel shut-off valve kit (VIC) - ØG.1" ½	(5)(10)	20009482
Fuel shut-off valve kit (VIC) - ØG.2"	(5)(11)	20009483
Fuel shut-off valve kit (VIC) - ØG.3"	(5)(12)	20061640
Domestic water connection kit	(6)	20022521
Secondary kit up to 300 kW	(7)	20021756
Secondary kit up to 600 kW	(7)	20021755
VegA RMDA pump 40-80	(8)	20045845
VegA RMDA pump 65–90	(8)	20045849
Comunication module	(8)	20045865

Refer to the paragraph "PRIMARY AND SECONDARY CIRCUIT CONFIGURATION KIT", specifically:

PRODUCT CATALOGUE

- Accessory type A. Accessory type B.
- Accessory type F1. To be completed with safety valve (F2) and VIC fuel shut-off valve (F3). Accessory type F2.
- Accessory type F3. Tripping temperature at 97 °C Capillary length 5 m.
- Accessory type C.
- Accessory type E.
- (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)
- Accessory type G.
 Recommended up to maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar.
- Recommended up to a maximum power of 230 kW, calculated considering gas supply pressure = 20 mbar. Recommended up to a maximum power of 580 kW, calculated considering gas supply pressure = 20 mbar.
- Recommended up to maximum power of 1310 kW, calculated considering gas supply pressure = 20 mbar.

3. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS

Description	Notes	Code
Hydraulic separator (up to 300 kW)	(1)	20009385
Hydraulic separator (up to 600 kW)	(1)	20009431
SP 20-DN32 49 (49A) N	(2)(3)	20014240
SP 35-DN50 31 (31A) N	(2)(3)	20140411
SP 35-DN50 45 (45A) N	(2)(3)	20140414
SP 35-DN50 57 (57A) N	(2)(3)	20140416
SP 35-DN50 75 (75A) N	(2)(3)	20140419
SP 40-DN65 93 (93A) N	(2)(3)	20140427
SP 40-DN65 111 (111A) N	(2)(3)	20140429
SP 40-DN65 121 (121A) N	(2)(3)	20140432

Refer to the paragraph "PRIMARY AND SECONDARY CIRCUIT CONFIGURATION KIT", specifically:

Accessory type D.

Plate heat exchangers for physical separation of primary and secondary circuits. To be used as an alternative to the hydraulic separator. For accessories for Riello HEATgate plate heat exchangers refer to section "HEAT-EXCHANGERS" on page 415.

MATCHING TABLE FOR PRIMARY CIRCUIT MANAGMENT (A-B-C)

Description		primary it kit	Prima	ary kit	Prima	ry circuit	pumps	DHW connection kit
			MANDA	TORY ACCE	SSORIES			OPTIONAL
	Interface primary circuit kit up to 375 kW	Interface primary circuit kit up to 600 kW	Primary kit up to 300 kW	Primary kit up to 600 kW	VegA RMDA pump 40-80	VegA RMDA pump 65-90	Comunication module	Domestic water connection kit
	20021753	20021752	20021751	20021750	20045845	20045849	20045865	20022521
ALU 115 PRO POWER	1x ●		1x ●		1x ●		1x ●	1x ●
ALU 150 PRO POWER	1x ●		1x ●		1x ●		1x ●	1x ●
ALU 225 PRO POWER	1x ●		1x ●		1x ●		1x ●	1x ●
ALU 300 PRO POWER	1x ●		1x ●		1x ●		1x ●	1x ●
ALU 349 PRO POWER	1x ●			1x ●		1x ●	1x ●	1x ●
ALU 375 PRO POWER	1x ●			1x ●		1x ●	1x ●	1x ●
ALU 450 PRO POWER		1x ●		1x ●		1x ●	1x ●	1x ●
ALU 525 PRO POWER		1x ●		1x ●		1x ●	1x ●	1x ●
ALU 600 PRO POWER		1x ●		1x ●		1x ●	1x ●	1x ●

MATCHING TABLE OF SAFETY DEVICES (F)

Description	Safety kit	Safety	valves		Fuel shut	off valve	
	Safety kit	Safety valve up to 460 kW (5.4 bar ØG.¾" F)	Safety valve up to 580 kW (5.4 bar ØG.1" F)	Fuel shut-off valve kit (VIC) - ØG.1"	Fuel shut-off valve kit (VIC) - ØG.1" 1/2	Fuel shut-off valve kit (VIC) - ØG.2"	Fuel shut-off valve kit (VIC) - ØG.3"
	4030091	20023104	20023106	20009486	20009482	20009483	20061640
ALU 115 PRO POWER	1x ●	1x ●		1x ●			
ALU 150 PRO POWER	1x ●	1x ●			1x ●		
ALU 225 PRO POWER	1x ●	1x ●			1x ●		
ALU 300 PRO POWER	1x ●	1x ●				1x ●	
ALU 349 PRO POWER	1x ●	1x ●				1x ●	
ALU 375 PRO POWER	1x ●	1x ●				1x ●	
ALU 450 PRO POWER	1x ●	1x ●				1x ●	
ALU 525 PRO POWER	1x ●		1x ●			1x ●	
ALU 600 PRO POWER	1x ●	2x ●					1x ●

MATCHING TABLE OF HYDRAULIC SEPARATOR (D)

Description		raulic rators
	Hydraulic separator (up to 300 kM)	Hydraulic separator (up to 600 kW) kW
	20009385	20009431
ALU 115 PRO POWER	1x ●	1x ●
ALU 150 PRO POWER	1x ●	1x ●
ALU 225 PRO POWER	1x ●	1x ●
ALU 300 PRO POWER	1x ●	1x ●
ALU 349 PRO POWER	1x ●	1x ●
ALU 375 PRO POWER	1x ●	1x ●
ALU 450 PRO POWER	1x ●	1x ●
ALU 525 PRO POWER	1x ●	
ALU 600 PRO POWER	1x ●	

PLATE HEAT EXCHANGER COMBINATIONS FOR FOR BOILER OPERATION WITH PRIMARY ΔT = 15 °C

Description		Δ		te heat ary/sed		nger y = 10 °	c	
			80	°C		55°C		
	SP 35-DN50 25 (25A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 45 (45A) N	SP 35-DN50 57 (57A) N	SP 35-DN50 75 (75A) N	SP 40-DN65 93 (93A) N	SP 40-DN65 111 (111A) N	SP 40-DN65 121 (121A) N
	20140410	20140411	20140414	20140416	20140419	20140427	20140429	20140432
ALU 115 PRO POWER	•							
ALU 150 PRO POWER		•						
ALU 225 PRO POWER			•					
ALU 300 PRO POWER				•				
ALU 349 PRO POWER					•			
ALU 375 PRO POWER					•			
ALU 450 PRO POWER						•		
ALU 525 PRO POWER							•	
ALU 600 PRO POWER								•

WATER-HEATERS

PLATE HEAT EXCHANGER COMBINATIONS FOR FOR BOILER OPERATION WITH PRIMARY $\Delta T = 20$ °C

Description		Δ		e heat ary/sec		nger y = 10 °	'C	
			80	°C → 0°C		50°C		
	SP20-DN32 49 (49A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 45 (45A) N	SP 35-DN50 57 (57A) N	SP 35-DN50 75 (75A) N	SP 40-DN65 93 (93A) N	SP 40-DN65 111 (111A) N	SP 40-DN65 121 (121A) N
	20014240	20140411	20140414	20140416	20140419	20140427	20140429	20140432
ALU 115 PRO POWER	•							
ALU 150 PRO POWER		•						
ALU 225 PRO POWER			•					
ALU 300 PRO POWER				•				
ALU 349 PRO POWER					•			
ALU 375 PRO POWER					•			
ALU 450 PRO POWER						•		
ALU 525 PRO POWER							•	
ALU 600 PRO POWER								•

MATCHING TABLE FOR SECONDARY CIRCUIT MANAGEMENT (E)

Description	Seco	ndary cir	cuit		ary circuit mps
U 115 PRO POWER	Secondary kit up to 300 kW	Secondary kit up to 600 kW	Vega RMDA pump 40-80	Vega RMDA pump 65-90	Comunication module
	20021756	20021755	20045845	20045849	20045865
ALU 115 PRO POWER	1x ●		1x ●		1x ●
ALU 150 PRO POWER	1x ●		1x ●		1x ●
ALU 225 PRO POWER	1x ●		1x ●		1x •
ALU 300 PRO POWER	1x ●		1x ●		1x ●
ALU 349 PRO POWER		1x ●		1x ●	1x ●
ALU 375 PRO POWER		1x •		1x ●	1x •
ALU 450 PRO POWER		1x ●		1x ●	1x ●
ALU 525 PRO POWER		1x ●		1x ●	1x ●
ALU 600 PRO POWER		1x ●		1x ●	1x ●

4. ELECTRICAL ACCESSORIES

PRODUCT CATALOGUE

Description	Notes	Code
RIELLOtech CLIMA COMFORT		4031069
CLIMA COMFORT		20010903
CLIMA DISPLAY		20010906
RC3 remote control kit		20155028
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	(1)	20021674
NTC solar collector immersion probe ($10k\Omega$)	(2)	4031913
NTC immersion probe (10kΩ) – 5 metres	(3)	20010068
NTC 0-ring probe (10k Ω)	(4)	20168680
NTC DHW-tank probe (10k Ω) - 5 metres	(5)	20010103

- Includes wiring and communication kit.
 Solar system probe.
 Primary probe (separator).
 Mixed zone probe.
 Storage tank probe.

- (1) (2) (3) (4) (5)

5. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION

Description	Notes	Code
N2 neutralisation kit (up to 450 kW)		4031810
HN2 neutralisation kit (up to 270 kW)	(D)	4031811
N3 neutraliser kit (from 450 to 1500 kW)		4031812
HN3 neutraliser kit (from 270 to 750 kW)	(D)(1)	4031813

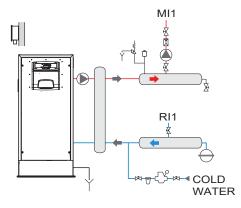
- Availability of the material at our warehouse: 30 working days from the date of the order's validation.
- Equipped with extraction pumps.

POSSIBLE SYSTEM COMPOSITIONS

DIRECT SYSTEM BASE CONFIGURATION 1

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865

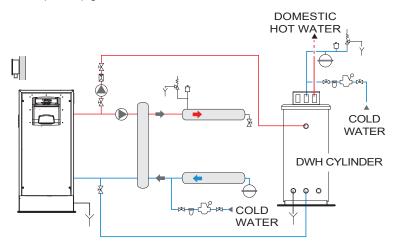
- Refer to table "A STAND ALONE HEAT INPUT".
- Refer to the matching tables on the previous pages.



DHW BASE CONFIGURATION WITH HEATER UPSTREAM OF THE HYDRAULIC COMPENSATOR

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
Domestic water connection kit	1	20022521
Sanitary kit (300÷600 kW)	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
NTC DHW-tank probe ($10k\Omega$) - 5 metres	1	20010103

Refer to table "A - STAND ALONE HEAT INPUT". Refer to the matching tables on the previous pages.

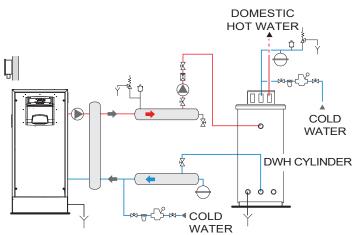


DHW BASE CONFIGURATION WITH HEATER DOWNSTREAM OF THE HYDRAULIC COMPENSATOR

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
Sanitary kit (300÷600 kW)	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103

Refer to table "A - STAND ALONE HEAT INPUT".

Refer to the matching tables on the previous pages.

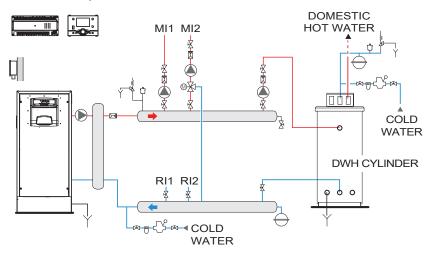


CONTROL PANEL SOLUTION

CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
CLIMA COMFORT	1	20010903
CLIMA DISPLAY (*)	1	20010906
NTC 0-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10k Ω) – 5 metres	1	20010103
NTC immersion probe (10k Ω) – 5 metres	1	20010068

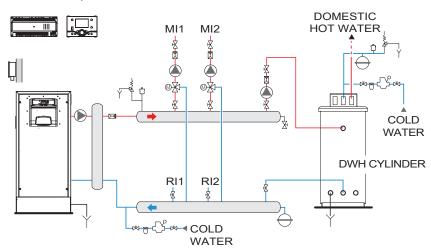
- Refer to table "A STAND ALONE HEAT INPUT".
- Refer to the matching tables on the previous pages.
 To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.



CONFIGURATION OF 2 MIXED SYSTEMS + DHW

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
CLIMA COMFORT	1	20010903
CLIMA DISPLAY (*)	1	20010906
NTC 0-ring probe ($10k\Omega$)	2	20168680
NTC DHW-tank probe ($10k\Omega$) - 5 metres	1	20010103
NTC immersion probe (10kΩ) – 5 metres	1	20010068

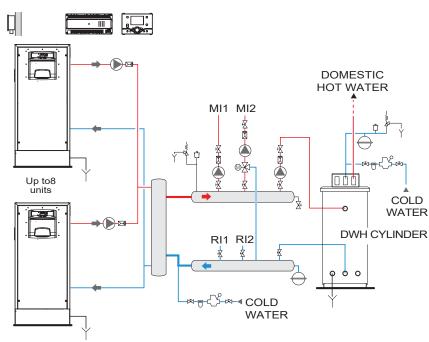
- Refer to table "A STAND ALONE HEAT INPUT". Refer to the matching tables on the previous pages. To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.



CASCADE CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW (maximum 8 generators)

Description	Quantity	Code
ALU PRO POWER 115÷600	1÷8	(1)
Interface primary circuit kit (375÷600 kW)	1÷8	(2)
Primary kit (300÷600 kW)	1÷8	(2)
Safety kit	1÷8	4030091
Safety valve (460÷580 kW)	1÷8	(2)
Fuel shut-off valve kit (1"÷3")	1÷8	(2)
VegA RMDA pump (40-80/65-90)	1÷8	(2)
Comunication module	1÷8	20045865
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
CLIMA COMFORT	1	20010903
CLIMA DISPLAY (*)	1	20010906
NTC immersion probe (10kΩ) – 5 metres	1	20010068
NTC 0-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10k Ω) – 5 metres	1	20010103

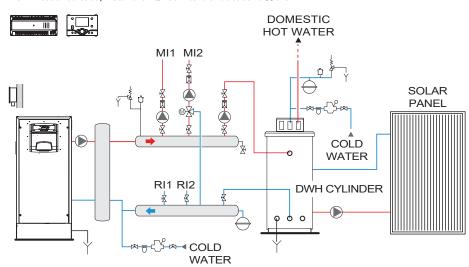
- Refer to table "B CASCADE SYSTEM HEAT INPUT".
- Refer to the matching tables on the previous pages.
 To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.



CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW WITH SOLAR PANEL

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
CLIMA COMFORT	1	20010903
CLIMA DISPLAY (*)	1	20010906
NTC 0-ring probe (10k Ω)	1	20168680
NTC DHW-tank probe ($10k\Omega$) - 5 metres	1	20010103
NTC immersion probe (10kΩ) – 5 metres	1	20010068
NTC solar collector immersion probe (10kΩ)	1	4031913

- Refer to table "A STAND ALONE HEAT INPUT". Refer to the matching tables on the previous pages. To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.

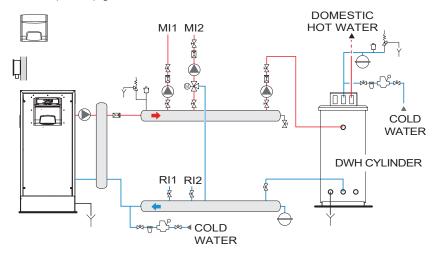


WALL MOUNTED SOLUTION

CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC 0-ring probe (10k Ω)	1	20168680
NTC DHW-tank probe (10k Ω) - 5 metres	1	20010103
NTC immersion probe (10kΩ) – 5 metres	1	20010068

- Refer to table "A STAND ALONE HEAT INPUT". Refer to the matching tables on the previous pages.

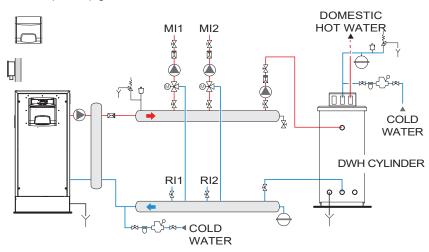


TERMINAL UNITS

CONFIGURATION OF 2 MIXED SYSTEMS + DHW

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC 0-ring probe (10kΩ)	2	20168680
NTC DHW-tank probe (10k Ω) - 5 metres	1	20010103
NTC immersion probe (10kΩ) – 5 metres	1	20010068

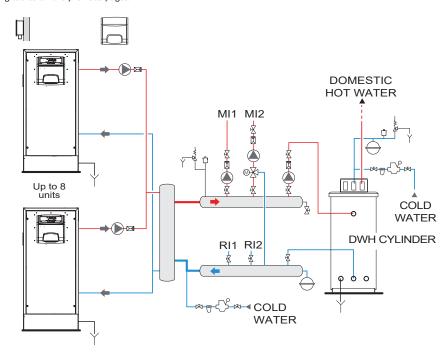
- Refer to table "A STAND ALONE HEAT INPUT". Refer to the matching tables on the previous pages.



CASCADE CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW (maximum 8 generators)

Description	Quantity	Code
ALU PRO POWER 115÷600	1÷8	(1)
Interface primary circuit kit (375÷600 kW)	1÷8	(2)
Primary kit (300÷600 kW)	1÷8	(2)
Safety kit	1÷8	4030091
Safety valve (460÷580 kW)	1÷8	(2)
Fuel shut-off valve kit (1"÷3")	1÷8	(2)
VegA RMDA pump (40-80/65-90)	1÷8	(2)
Comunication module	1÷8	20045865
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC immersion probe (10k Ω) – 5 metres	1	20010068
NTC 0-ring probe ($10k\Omega$)	1	20168680
NTC DHW-tank probe ($10k\Omega$) - 5 metres	1	20010103

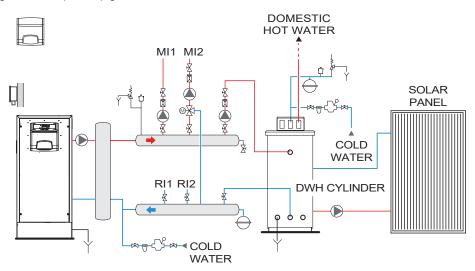
Refer to table "B - CASCADE SYSTEM HEAT INPUT". Refer to the matching tables on the previous pages.



CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW WITH SOLAR PANEL

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC 0-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103
NTC immersion probe (10kΩ) – 5 metres	1	20010068
NTC solar collector immersion probe (10kΩ)	1	4031913

Refer to table "A - STAND ALONE HEAT INPUT". Refer to the matching tables on the previous pages.



FLOOR-STANDING BOILERS



GAS



TAU UNIT

TAU UNIT 35 (3,4-34,1 KW)
TAU UNIT 50 (4,9-48,7 KW)
TAU UNIT 70 (6,7-68,6 KW)
TAU UNIT 100 (9,7-97,5 KW)
TAU UNIT 115 (11,2-111,7 KW)
TAU UNIT 140 (13,9-138,9 KW)
TAU UNIT 190 (18,6-185,8 KW)

page 254



TAU N

TAU 115 N (80÷112,1 kW)
TAU 150 N (108,2÷146,3 kW)
TAU 210 N (147,5÷205,2 kW)
TAU 270 N (207,3 ÷265,1 kW)
TAU 350 N (266,5÷344,1 kW)
TAU 450 N (345,2÷442,4 kW)
TAU 600 N (443,5÷589,8 kW)
TAU 1000 N (788÷983 kW)
TAU 1150 N (984÷1129,3 kW)
TAU 1250 N (984÷1129,7 kW)
TAU 1450 N (1230÷1425 kW)
TAU 1750 N (1426÷1718,5 kW)
TAU 1750 N (1426÷1718,5 kW)
TAU 2000 N (2063÷2553,2 kW)
TAU 3000 N (2063÷2553,2 kW)
TAU 3000 N (2055÷2946,0 kW)

NEW

page 262



ONLY HEATING

TAU N PREMIX

TAU 115 N PREMIX (80÷112,1 kW)
TAU 150 N PREMIX (108,2÷146,3 kW)
TAU 210 N PREMIX (147,5÷205,2 kW)
TAU 270 N PREMIX (207,3÷265,1 kW)
TAU 270 N PREMIX (207,3÷265,1 kW)
TAU 350 N PREMIX (266,5÷344,1 kW)
TAU 350 N PREMIX (348,2;444,2 kW)
TAU 450 N PREMIX (348,2;444,2 kW)
TAU 600 N PREMIX (443,5÷589,8 kW)
TAU 800 N PREMIX (591÷786,4 kW)
TAU 1150 N PREMIX (984÷1129,3 kW)
TAU 1150 N PREMIX (984÷1129,3 kW)
TAU 1450 N PREMIX (1230÷1425 kW)
TAU 1450 N PREMIX (1230÷1425 kW)
TAU 150 N PREMIX (1230÷1425 kW)
TAU 1200 N PREMIX (1230÷1425 kW)
TAU 2100 N PREMIX (1250÷255,2 kW)
TAU 3000 N PREMIX (2055÷2946,0 kW)
TAU 3000 N PREMIX (2055÷2946,0 kW)

page 270

NEW



INSIEME EVO COND
INSIEME EVO COND 45 LN

INSIEME EVO COND 45 LN INSIEME EVO COND 55 LN INSIEME EVO COND 70 LN

NEW

page 272



TAU N OIL PRO

TAU 115 N OIL PRO (78,1-112,24 KW)
TAU 150 N OIL PRO (108,3-146,4 KW)
TAU 210 N OIL PRO (108,3-146,4 KW)
TAU 270 N OIL PRO (206,6-264,33 KW)
TAU 350 N OIL PRO (266,1-343,7 KW)
TAU 450 N OIL PRO (344,7-441,9 KW)
TAU 600 N OIL PRO (442,9-589,2 KW)
TAU 800 N OIL PRO (590,2-785,6 KW)
TAU 1000 N OIL PRO (786,6-982 KW)

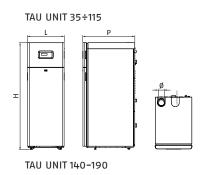
NEW

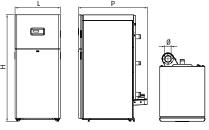
page 274

2021 EDITION

Floor standing gas condensing boilers

Tau Unit





Description	H mm	L mm	P mm	ø mm	Net weight kg
TAU UNIT 35	1365	600	760	80	135
TAU UNIT 50	1550	600	890	80	155
TAU UNIT 70	1550	600	890	80	165
TAU UNIT 100	1810	600	870	110	245
TAU UNIT 115	1810	600	870	110	245
TAU UNIT 140	1880	800	1250	110	420
TAU UNIT 190	1880	800	1250	160	450



- In conformity with Regulation (EU) 2016/426
- · Gas condensing boilers with a high water content titanium stabilised stainless steel body (AISI 316 "Ti" + AISI 444) and a low pollutant emission (Class 6 according to UNI EN 15502) modulating premix burner

The high water content body has a vertical smoke pipe, and has two return lines to provide the best possible operation in condensing mode. The water stratifies at a high temperature at the top of the body, while the cold water accumulates at the bottom where the condensation occurs.

The boiler board, which has an easy-to-use interface, allows you to optimise the combustion, manage a remote storage cylinder for the production of domestic hot water and the supply temperature in climatic mode. The basic electronics includes include climatic regulation, management of the cascade of the modules, with integrated master/slave functions, the automatic switching between summer/winter and the possibility of managing a direct zone and a DHW storage cylinder.

The electronics also provides the possibility of the remote management using the 0-10V input or with the Modbus protocol.

With specific accessories it is also possible to manage the distribution of the secondary circuit, up to 16 mixed zones.

The optimal combustion management and the high modulation ratio of 1:10 (for models 35-115), provide a high performance and low polluting emissions (NOx in Class 6 according to UNI EN 15502). All models include the external probe. The range can operate with both methane gas and LPG (with the relative accessory).

- High quality and precision finishings
- 1:10 modulation ratio (up to model 115)
- Easy to maintain because all the internal components are fully accessible
- Smaller overall dimensions
- Maximum operating pressure: 5 bar.

TECHNICAL DATA

Description		Output kW		-	Jseful efficiend	у	Energy efficiency	Code
	Useful max 80°/60°	Useful max 50°/30°	Heat output furnace min-max	Pn max (80°/60°) %	Pn max (50°/30°) %	Reduced load 30% of Pn (30 °C)	class	
TAU UNIT 35	34,0	37,0	3,5-34,8	97,7	106,3	107,7	А	20145133
TAU UNIT 50	48,5	54,5	4,9-49,0	97,1	109,2	108,9	А	20144105
TAU UNIT 70	68,0	76,5	6,9-69,9	97,3	109,4	108,5	Α	20144106
TAU UNIT 100	97,5	106,5	10,0-100,0	97,5	109,2	108,6	-	20144107
TAU UNIT 115	112,0	125,4	11,5-115,0	97,4	109,0	108,8	-	20144108
TAU UNIT 140	136,9	152,0	28,0-140,0	97,8	108,6	108,8	-	20145135
TAU UNIT 190	185,8	205,2	38,0-190,0	97,8	108,0	108,4	_	20145136

ACCESSORIES

Description	Notes	Code
SAFETY ACCESSORIES		
Safety devices kit	(1)	20180519
Pressure gauge and safety valve set 4 bar	(2)	20181010
Pressure gauge and safety valve set 4,5 bar	(3)	20181867
Reduction fitting 2" - 1" ½	(4)	20182680
Reduction fitting 2"½ - 1"½	(5)	20154992
uel shut-off valve kit (VIC) - ØG.1"	(6)	20009486
uel shut-off valve kit (VIC) - ØG.1" ½	(7)	20009482
N15 flowmeter		20149998
DN20 flowmeter		20149996
N25 flowmeter		20146343
N32 flowmeter		20146345
HYDRAULIC ACCESSORIES		
expansion vessel (only for TAU UNIT 35)		20154816
irculation pump (only for TAU UNIT 35)		20154812
ondensate neutralizer HN2 (up to 270 kW)	(8)	4031811
ondensate neutralizer N2 (up to 450 kW)		4031810
ondensate neutralizer N3 (450÷1500 kW)		4031812
ondensate neutralizer HN3 (270÷750 kW)	(8)(D)	4031813
LPG TRANSFORMATION KIT		
PG transformation kit (TAU UNIT 35)		20145150
PG transformation kit (TAU UNIT 50)		20144699
PG transformation kit (TAU UNIT 70)		20144700
PG transformation kit (TAU UNIT 100)		20144703
PG transformation kit (TAU UNIT 115)		20144704
CASCADE CONFIGURATION, SECONDARY CIRCUIT AND ELECTRONIC ACCESSORIES		
xternal probe		20132778
lectronic kit for managing additional direct or mixed zone (max 16)	(9)	20130811
mmersion probe	(10)(11)	1220599
SEALED ROOM TRANSFORMATION KIT (TYPE C)		
ype C conversion kit (TAU UNIT 35–50)	(12)	20144759
ype C conversion kit (TAU UNIT 70)	(12)	20144760
ype C conversion kit (TAU UNIT 100–115)	(12)	20144761
ype C conversion kit (TAU UNIT 140–190)	(12)	20145154
FLUE DISCHARGE SYSTEM		
onversion kit for back flue discharge (TAU UNIT 35)	(13)	20160064
onversion kit for back flue discharge (TAU UNIT 50–70)	(13)	20147234
onversion kit for back flue discharge (TAU UNIT 100–115)	(13)	20147235
PRIMARY CIRCUIT PUMPS FOR PLATE HEAT EXCHANGERS	(2)	
Primary circuit pump UPM3 FLEX AS 15-70 130 H6	(14)	20147597
Primary circuit pump UPML 32–105/180	(14)	20125034
Primary circuit pump UPM GEO 25-85/130	(14)	20147604

SOLAR THERMAL

TERMINAL UNITS

Description	Notes	Code
Primary circuit pump STRATOS PARA 30/1–12	(14)	20125040
Primary circuit VegA RMDA pump 32–70	(14)(15)	20061669
Primary circuit VegA RMDA pump 40-80	(14)(15)	20045845
Communication module VegA RMDA 40-80		20045865

PRODUCT CATALOGUE

- Availability of the material at our warehouse: 30 working days from the date of the order's validation.
- Includes stub pipe with safety kit, excluding: safety valve set + pressure gauge, fuel shut-off valves and flow meter set (to be ordered separately). To be provided for Tau Unit 50-70 models

- (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)
- To be provided for Tau Unit 100÷190 models
 To be provided for Tau Unit 100÷190 models
 To be provided in case of safety kit installation for Tau Unit 100 and 115 models.
 To be provided in case of safety kit installation for Tau Unit 140 and 190 models.
 Recommended up to maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar.
 Recommended up to maximum power of 230 kW, calculated considering gas supply pressure = 20 mbar.
 Recurrence with extraction purpose.
- Equipped with extraction pumps.

 For ambient temperature adjustment, use Riello thermostats and timed thermostats.

 Used for secondary and heater management.

 Used as primary probe for cascade system management.
- (11)
- Accessories for split discharge, for concentric discharge, to complete the installation, for the flue gas system, refer to page 329.

 For each type, check the maximum equivalent lengths by referring to the technical data sheet and/or by contacting the pre-sales service. For the flue gas system, refer to page 329.
 (14) To be paired with HEATgate plate heat exchangers, depending on the operating conditions (primary/secondary ΔΤ°).
 (15) To be paired with the Communication module accessory.

NOTE: Tau Unit 140 and 190 do not require the accessory kit for LPG conversion.

COMBINATIONS SAFETY KIT ACCESSORIES

Description	Safety basic kit	Hydrau	lic fitting		alve and e gauge		hut-off Ive						Flow	meter					
				٥															
			7	-					ΔT =	20°C			ΔT =	15°C					
	20180519 Safety devices kit	20182680 Reduction fitting 2" - 1" 1/3	20154992 Reduction fitting 2"1/2 - 1"1/2	20181867 4,5 bar pressure gauge and	Pressure gauge and safety valve set 4 bar	20009486 Gas shutting valve (VIC) - ØG.1"	20009482 Fuel shut-off valve kit (VIC) · ØG.1" 1/2	20149998 DN15 flowmeter	20149996 DN20 flowmeter	20146343 DN25 flowmeter	20146345 DN32 flowmeter	20149998 DN15 flowmeter	20149996 DN20 flowmeter	20146343 DN25 flowmeter	20146345 DN32 flowmeter	20149998 DN15 flowmeter	20149996 DN20 flowmeter	20146343 DN25 flowmeter	20146345 DN32 flowmeter
	2018	201	201	201	201	200	200	201	201	201	201	201	201	201	201	201	201	201	201
TAU UNIT 50	•			•		•		•					•				•		
TAU UNIT 70	•			•		•			•				•					•	
TAU UNIT 100	•	•			•	•			•					•					•
TAU UNIT 115	•	•			•	•				•				•					•
TAU UNIT 140	•		•		•		•			•				•					•
TAU UNIT 190	•		•		•		•				•				•				•

COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS, FOR BOILER OPERATION WITH PRIMARY ΔT = 10°C

Description			Pump								Plate	heat	excha	ngers					
							∆T pri	mary/	secon	dary	= 10°C			∆T prii	mary/	secon	dary :	= 7,2°(2
							80°C 70°C 85°C 78°C 78°C 78°C 68°C												
	UPM3 FLEX AS 15-70 130 H6	UPML 32-105/180	STRATOS PARA 30/1-12	VegA RMDA 32-70 (*)	VegA RMDA 40-80 (*)	SP20-DN32 21 (21A) N	SP 20-DN32 29(29A) N	SP 20-DN32 41 (41A) N	SP 35-DN50 25 (25A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 35 (35A) N	SP 35-DN50 45 (45A) N	SP 20-DN32 21 (21A) N	SP 20-DN32 29 (29A) N	SP 20-DN32 41 (41A) N	SP 35-DN50 25 (25A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 35 (35A) N	SP 35-DN50 45 (45A) N
	20147597	20125034	20125040	20061669	20045845	20016742	20014216	20014217	20140410	20140411	20140412	20140414	20016742	20014216	20014217	20140410	20140411	20140412	20140414
TAU UNIT 35	•					•							•						
TAU UNIT 50		•					•							•					
TAU UNIT 70			•					•							•				
TAU UNIT 100			•						•							•			
TAU UNIT 115			•							•							•		
TAU UNIT 140				•							•							•	
TAU UNIT 190					•							•							•

^(*) To be combined with the "Communication module" code 20045865.

COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS, FOR BOILER OPERATION WITH PRIMARY ΔT = 15°C

	Description		Pι	mp						Plate	heat	excha	ngers				
						ΔΤ	prima	ry/se	conda	ry = 1	0°C	ΔT primary/secondary = 7,2°0					
				80°C 70°C							70°C 75°C						
		UPM3 FLEX AS	15-70 130 H6 UPM GE0 25-85/130	UPML 32-105/180	STRATOS PARA 30/1-12	SP 20-DN32 21 (21A) N	SP 20-DN32 29 (29A) N	SP 20-DN32 41 (41A) N	SP 20-DN32 49 (49A) N	SP 35-DN50 25 (25A) N	SP 35-DN50 35 (35A) N	SP 20-DN32 21 (21A) N	SP 20-DN32 29 (29A) N	SP 20-DN32 41 (41A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 39 (39A) N	
		20147597	20147604	20125034	20125040	20016742	20014216	20014217	20014240	20140410	20140412	20016742	20014216	20014217	20140411	20140413	20140416
TAU UNIT 35		•				•						•					
TAU UNIT 50		•				•							•				
TAU UNIT 70			•				•							•			
TAU UNIT 100				•				•							•		
TAU UNIT 115					•				•						•		
TAU UNIT 140	<u> </u>				•					•						•	
TAU UNIT 190					•						•						•

COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS, FOR BOILER OPERATION WITH PRIMARY ΔT = 20°C

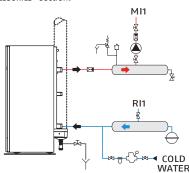
Description		Pu	mp						Pla	te he	at exc	hange	ers				
					ΔT primary/secondary = 10°C							∆T prii	mary/	secon	dary =	= 7,2°(
		80°C 70°C							85°C 75°C 60°C								
	UPM3 FLEX AS 15-70 130 H6	UPM GE0 25-85/130	UPML 32-105/180	STRATOS PARA 30/1-12	SP 20-DN32 21 (21A) N	SP 20-DN32 29 (29A) N	SP 20-DN32 41 (41A) N	SP 20-DN32 49 (49A) N	SP 35-DN50 25 (25A) N	SP 35-DN50 35 (35A) N	SP 20-DN32 29 (29A) N	SP 20-DN32 41 (41A) N	SP 20-DN32 49 (49A) N	SP 35-DN50 31 (31A) N	SP 35-DN50 35 (35A) N	SP 35-DN50 39 (39A) N	SP 35-DN50 57 (57A) N
	20147597	20147604	20125034	20125040	20016742	20014216	20014217	20014240	20140410	20140412	20014216	20014217	20014240	20140411	20140412	20140413	20140416
TAU UNIT 35	•				•						•						
TAU UNIT 50	•					•						•					
TAU UNIT 70	•					•							•				
TAU UNIT 100		•					•							•			
TAU UNIT 115			•					•							•		
TAU UNIT 140				•					•							•	
TAU UNIT 190				•						•							•

POSSIBLE SYSTEM COMPOSITIONS

STANDARD CONFIGURATION 1 DIRECT SYSTEM

Description	Quantity	Code
TAU UNIT 35÷190	1	(1)
External probe	1	20132778
Manifold kit with INAIL safety devices (only for 50–190 model)	1	20145155
Fuel shut-off valve kit (VIC) - ØG.1" (only for 50-190 model)	1	20009486
Flowmeter (only for 50-190 model)	1	(2)

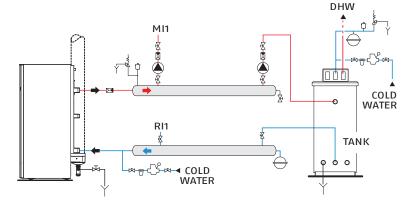
Refer to the "Technical data" table. Refer to the "Flowmeter selection" table in the "ACCESSORIES" section.



CONFIGURATION 1 DIRECT + DHW SYSTEM

Description	Quantity	Code
TAU UNIT 35÷190	1	(1)
External probe	1	20132778
Immersion probe	1	1220599
Manifold kit with INAIL safety devices (only for 50–190 model)	1	20145155
Fuel shut-off valve kit (VIC) - ØG.1" (only for 50-190 model)	1	20009486
Flowmeter (only for 50–190 model)	1	(2)

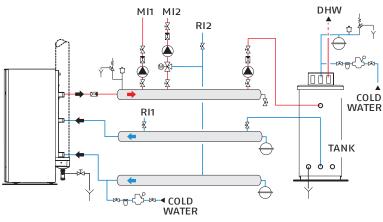
- Refer to the "Technical data" table. Refer to the "Flowmeter selection" table in the "ACCESSORIES" section.



CONFIGURATION 1 DIRECT SYSTEM + 1 MIXED + DHW SYSTEM

Description	Quantity	Code
TAU UNIT 35÷190	1	(1)
External probe	1	20132778
Manifold kit with INAIL safety devices (only for 50–190 model)	1	20145155
Fuel shut-off valve kit (VIC) - ØG.1" (only for 50-190 model)	1	20009486
Immersion probe	1	1220599
Electronic kit for managing additional direct or mixed zone (max 16)	1	20130811
Flowmeter (only for 50–190 model)	1	(2)

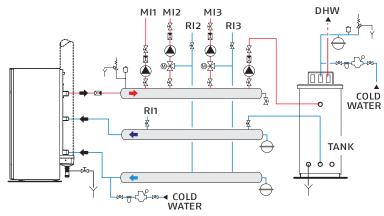
- Refer to the "Technical data" table. Refer to the "Flowmeter selection" table in the "ACCESSORIES" section.



CONFIGURATION 1 DIRECT SYSTEM + 2 MIXED + DHW SYSTEMS

Description	Quantity	Code
TAU UNIT 35÷190	1	(1)
External probe	1	20132778
Manifold kit with INAIL safety devices (only for 50–190 model)	1	20145155
Fuel shut-off valve kit (VIC) - ØG.1" (only for 50-190 model)	1	20009486
Immersion probe	1	1220599
Electronic kit for managing additional direct or mixed zone (max 16)	2	20130811
Flowmeter (only for 50-190 model)	1	(2)

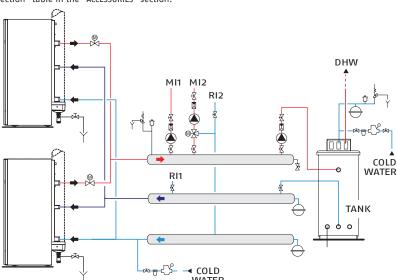
- Refer to the "Technical data" table. Refer to the "Flowmeter selection" table in the "ACCESSORIES" section.



CASCADE CONFIGURATION 1 DIRECT SYSTEM + 1 MIXED + DHW SYSTEM (maximum 16 generators)

Description	Quantity	Code
TAU UNIT 35÷190	2	(1)
External probe	1	20132778
Manifold kit with INAIL safety devices (only for 50–190 model)	2	20145155
Fuel shut-off valve kit (VIC) - ØG.1" (only for 50-190 model)	2	20009486
Immersion probe	2	1220599
Electronic kit for managing additional direct or mixed zone (max 16)	1	20130811
Flowmeter (1 for each boiler; only for 50–190 model)	2	(2)

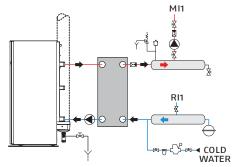
- Refer to the "Technical data" table. Refer to the "Flowmeter selection" table in the "ACCESSORIES" section.



STANDARD CONFIGURATION 1 DIRECT SYSTEM WITH PLATE HEAT EXCHANGER

Description	Quantity	Code
TAU UNIT 35÷190	1	(1)
External probe	1	20132778
Manifold kit with INAIL safety devices (only for 50-190 model)	1	20145155
Fuel shut-off valve kit (VIC) - ØG.1" (only for 50-190 model)	1	20009486
Pump	1	(2)
Plate heat exchanger	1	(2)
Electronic kit for managing additional direct or mixed zone (max 16)	1	20130811
Flowmeter (only for 50-190 model)	1	(3)

- Refer to the "Technical data" table. Refer to the "Matching pumps and plate-type exchangers" table. Refer to the "Flowmeter selection" table in the "ACCESSORIES" section.



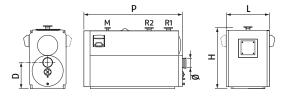
SYSTEM COMPLEMENTARY

RIELLO

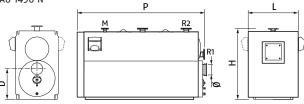
Condensing three flue gas passes stainless steel jet burners boilers

Tau N

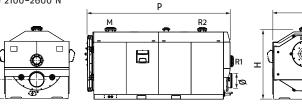
TAU 115÷1250 N















- In conformity with Directive 2009/125/EC
- Condensing boilers made of stainless steel with three flue gas passes, with a high water content, suitable for the operation with gas jet burners

Description	Н	L	Р	D	ø	М	R1	R2	Net weight
	mm	mm	mm	mm	mm	DN	DN	DN	kg
TAU 115 N	1315	740	1455	505	160	65	65	50	545
TAU 150 N	1315	740	1455	505	200	65	65	50	545
TAU 210 N	1315	740	1455	505	200	65	65	50	580
TAU 270 N	1450	850	1630	545	250	65	65	50	737
TAU 350 N	1450	850	1830	545	250	80	80	65	823
TAU 450 N	1630	900	2035	645	300	100	100	80	1185
TAU 600 N	1630	900	2235	645	300	100	100	80	1370
TAU 800 N	1910	1060	2560	680	350	125	125	80	2010
TAU 1000 N	1910	1060	2810	680	350	125	125	80	2245
TAU 1150 N	2030	1180	3010	720	400	150	150	100	2730
TAU 1250 N	2030	1180	3010	720	400	150	150	100	2730
TAU 1450 N	2180	1225	3175	805	450	150	150	100	3280
TAU 1750 N	1945	1750	3620	521	400	200	200	150	4265
TAU 2100 N	1945	1750	4020	521	400	200	200	150	4750
TAU 2600 N	2128	1850	4425	552	450	200	200	150	5550
TAU 3000 N	2170	1950	4640	600	450	200	200	150	6750

- Low temperature return system. High temperature return system.

TAU N is a condensing floor standing boiler, with high water content for heating room installation; suitable for heating and domestic

hot water production in combination with a proper water tank . Three-pass boiler, in which all the components in contact with the flue gas smokes are in titanium-stabilized stainless steel, designed on the principle of heat stratification: the combustion chamber at the top and the tube bundle at the bottom (smooth pipes with removable turbulators), allow to optimize heat exchange and energy efficiency, so as to obtain high efficiency, thanks to the condensation technique. The generator has been designed with a structure capable of containing thermal expansions; particular attention has been paid to the thermal insulation of the boiler body, the painted steel panels and the door, with the use of high density glass wool mats.

Some models are also available in a modular version. The models up to 1450 kW are developed with a vertical structure with overlapping planes, to facilitate handling and make easier the introduction into the heating room.

The new 1750÷3000 models are developed on a "square" structure with a single planking, to maintain the high water content and, at the same time, guarantee maximum efficiency.

To make easier the inspections, maintenance and cleaning of the internal parts, the front door and the closing of the smoke chamber can be fully opened.

- Reduced average temperature of the body and quick start-up time
- Several solutions thanks to the combination with RIELLOtech control panels
- Built-in drain condensate
- Maximum operating pressure 6 bar.

TECHNICAL DATA

PRODUCT CATALOGUE

Description		Output kW			Jseful efficienc	у	Back-pressure	Notes	Code
	Useful max 80°/60°	Useful max 40°/30°	Furnace heat output	Pn max (80°/60°) %	Pn max (40°/30°) %	Reduced load 30% of Pn (30 °C)	in combustion chamber mbar		
TAU 115 N	112,1	123,1	115	97,5	107	108	2,2		20120144
TAU 150 N	146,3	159,7	150	97,5	106,5	108,5	2,0		4031860.0
TAU 210 N	205,2	223,6	210	97,7	106,5	109,3	2,7		4031861.0
TAU 270 N	265,1	290,2	270	98,2	107,5	109,2	3,2		4031862.0
TAU 350 N	344,1	375,2	349	98,3	107,5	108,5	4,6		4031863.0
TAU 450 N	442,4	481,5	450	98,3	107	108,5	5,0		4031864.0
TAU 600 N	589,8	642	600	98,3	107	108,5	5,5		4031865.0
TAU 800 N	786,4	860	800	98,3	107	108,5	5,7	(D)(T)	4031866.0
TAU 1000 N	983	1070	1000	98,3	107	108,5	6,3	(D)(T)	4031867.0
TAU 1150 N	1129,3	1230,5	1150	98,3	107	108,5	6,6	(D)(T)	20136528
TAU 1250 N	1229,7	1337,5	1250	98,3	107	108,5	6,8	(D)(T)	4031868.0
TAU 1450 N	1425,6	1551,5	1450	98,3	107	108,5	7,4	(D)(T)	4031869.0
TAU 1750 N	1718,5	1881,2	1750	98,3	107,5	108,7	8,4	(D)(T)	20162157
TAU 2100 N	2062,2	2258,7	2100	98,3	107,5	108,7	9,6	(D)(T)	20162158
TAU 2600 N	2553,2	2796,5	2600	98,3	107,5	108,7	11,5	(D)(T)	20162159
TAU 3000 N	2946,0	3226,8	3000	98,3	107,5	108,7	11,6	(D)(T)	20162160

Availability of the material at our warehouse: 25 working days from the date of the order's validation.

Maximum operating pressure 6 bar.

ACCESSORIES

Description	Notes	Code
HYDRAULIC ACCESSORIES		
N2 neutralisation kit up to 450 kW		4031810
N3 neutraliser kit from 450 to 1500 kW		4031812
HN2 neutralisation kit up to 270 kW	(1)	4031811
HN3 neutraliser kit from 280 to 750 kW	(1)(D)	4031813
MECHANICAL ACCESSORIES		
Burner flange		4031196
Burner flange		20178775
Burner flange		20163867

Equipped with extraction pumps.

CONTROL PANELS

Description	Installation	Code
RIELLOtech CLIMA COMFORT	Vertical	4031069

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 323.

Product not subject to standard transport rates. For transport enhancement contact the Order Management Office.

⁽D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure								Gas	bur	ner								Bur	ner	Con	
	chamber						Υ	ellov	v fla	me ((Stan	dard	d)						IIai	ige	рат	leis
	(mbar)			1	wo	stage	е						Мо	dula [.]	ting							
												М	echa	anica	al ca	m						
										-												
		5,0 • 5,5 • 5,5 5,7 5,7 6,3 6,3 6,6 6,6 6,6 6,6 6,6 6,6 6,6 6,6	RS 100 TC	RS 130 TC	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 250/M MZ TC	RS 190 TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 190/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit	
		3784702	3785102	3785302	3785502	20068351	20068361	3788410	3785813	3781622	3789610	3789710	3789810	20052616	3787623	3788411	20068351	20068361	20178757	20178775	4031069	20013035
TALLATON	5,0	•																			•	
TAU 450 N	5,0									•											•	•
	5,5		•																		•	
TAU 600 N	5,5										•										•	•
	5,7			•																	•	
TAU 800 N	5,7											•									•	•
	6,3			•																	•	
TAU 1000 N	6,3											•									•	•
	6,6				•														•		•	
TAU 1150 N	6,6												•						•		•	•
	6,8				•														•		•	
TAU 1250 N	6,8												•						•		•	•
	7,4								•											•	•	
TAU 1450 N	7,4														•					•	•	•
	8,4								•												•	
TAU 1750 N	8,4													•							•	•
	9,6							•													•	_
TAU 2100 N	9,6															•					•	•
	11,5					•															•	
TAU 2600 N	11,5																•		П		•	•
	11,6						•														•	
TAU 3000 N	11,6																	•	П		•	•

Description	Back-pressure		_								_		_	_	Gas	bu	rnei	r		_	_	_											ne			Bu		ontro	
	in combustion chamber												ВІ	ue 1	flan	ne (Low	/ NO	x)												а	cce	SSO	ry		tla	nge	р	anels
	(mbar)														Мос	lula	ting	3																					
				- 1	1ech	nan	ica	l ca	m		_								Ele	ctr	_	c ca		tual.				m de m		_									
											_								ĺ			02 0	con	troi		0		ntro				1.		_	4			_	_
		BS3/M	RS 120/M BLU TC	RS 160/M BLU TC	RS 25/M BLU TC	RS 35/M BLU TC	RS 68/M BLU TC	RS 55/M BLU TC	RS 200/M BLU TL	RS 310/M BLU FS1	RS 410/M BLU FS1	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 25/E BLU	RS 35/E BLU	RS 68/E BLU	RS 55/E BLU	RS 310/E BLU FS1	RS 410/E BLU FS1	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 200/E 02 BLU TL	RS 310/E 02 BLU TC	RS 410/E 02 BLU TL	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	RS 200/EV 02 BLU TL	RS 310/EV 02 BLU TC	RS 410/EV 02 BLU TC	Oxygen Control Kit	variable speed drive 5,0 kw	Variable speed drive 5,5 KW	Variable speed drive 7,5 kW	Variable speed drive 11 kW	Burner flange	Burner flange	Burner flange	Kiellotech Clima Comfort 3-point modulation kit
		3762350 B	3897606 R	3788006 R		3910610 R		Ŧ	-	20068219 R	20068270 R	3897632 R	_	3899810 R	3910710 R	3910810 R	-			_	20165996 R	Н	20166368 R		20158157 R	7				\neg	_	7	\top	_	m	\neg	\dashv	ightharpoons	4031069 R
TAU 115 N	2,2	•						.,			.,							.,	.,	.,		.,	.,	.,	.,	.,	.,	-		-		+	1	+		7		_	• •
TAU 150 N	2,0	•																														T	T	T	T			-	• •
TAIL 242 "	2,7				•																	П		П					7	\top	\dagger	T	\top	\top			\top	-	• •
TAU 210 N	2,7														•																	_		T					• •
TAIL 270 N	3,2				•																																	•	• •
TAU 270 N	3,2														•																								• •
TAU 350 N	4,6					•																												\perp				•	•
	4,6															•																		\perp				•	• •
TAU 450 N	5,0							•																										\perp		•		•	• •
	5,0																	•														_		_	4	•		•	• •
TAU 600 N	5,5						•																					4		4	4	_		\perp	_	•	4	•	• •
	5,5			L			L										•											4		4	4	4	4	\perp	+	•	4	-	• •
	5,7		•	L	L		L																				_	4		4	4	4	4	\perp	+	•	4	-	• •
TAU 800 N	5,7											•																4		4	4	1	_	\perp	+	•	+	+	• •
	5,7		_	L			_	_													•							_	_	-	•	_	_	+	+	•	4	+	• •
	5,7		_	L	_		_	_							_											•		_	_	_	• '		4	+	-	•	4	-	• •
	6,3		•		H		H					_				H											_	+	4	+	+	+	+	+	+	•	+	+	• •
TAU 1000 N	6,3	H	H	H	H		H	H	H			•			H						_						-	+	_	+	•	+	+	+	4	•	+	+	• •
	6,3			H	H		H	H													•					•	-	+	-	-	•	+	+	+	+	+	+	+	-
	6,3				H		H															Н				•	-	+	-	+	-	_	+	+	+	+	•	+	• •
	6,6			•	H		H	H					•									Н				-	-	+	-	+	+	+	+	+	+	-	•	+	•
TAU 1150 N	6,6	H		H	H		\vdash	H					_			H						•		Н		-	-	+	+	+	•	+	+	+	+	-	•	-	•
	6,6	H		H	\vdash		\vdash	H								H						Ť		Н		-	•	+	+	\rightarrow	•	+	•	+	+	-	•	-	•
	6,6		-	•			\vdash								-							Н					-	+	-	+	+	+	+	+	+	-	•	-	•
	6,8			-	\vdash		\vdash						•									Н		Н				+		+	+	+	+	+	+	-	•	+	• •
TAU 1250 N	6,8		H	Н			Н						_									•					-	+		+	•	+	+	+	+	-	•	+	• •
	6,8																					Н					•	+		+	•	١,	•	+	+	+	•	-	• •
	7,4			•																		Н						+		+	+	+	+	+	+		•	-	• •
	7,4			H	Н		Н	H					•									Н						+	\exists	+	+	$^{+}$	+	+	+	+	•	1	• •
TAU 1450 N	7,4																					•						\forall		\top	•	t	†	$^{+}$	1		•	1	• •
	7,4																										•	\forall		\forall	•	١,	•	$^{+}$	1		•	1	• •
	8,4								•																							†		\top	7			(• •
	8,4													•																		T		\top	7			-	• •
TAU 1750 N	8,4																						•								•	T		T	T		-	• •	• •
	8,4																					П		П				•	\exists		•	\top	1	•			-	• •	• •
	9,6									•						П						П		П					\exists	\top	\dagger	\dagger	\top	\top	1		1	• •	• •
	9,6																		•			П							\exists		\top	\top	\top	\top			-	• •	• •
TAU 2100 N	9,6																					П		•					\exists		•	\top	\top	\top			-	• •	• •
	9,6																					П		П					•	\top	•	\top	1	•			1	• •	• •
TAIL 2000 P	11,5										•					П															1	\top	1	1				1	• •
TAU 2600 N	11,5																			•													\top	\top		\neg	\top	٦,	• •

Description	Back-pressure													(Gas	bui	rne	r															ırne				urne			trol
	in combustion chamber	Г											Βlι	ue f	flan	ne (Low	/ NC)x)													acc	esso	ory		tla	ang	е	par	iels
	(mbar)													- 1	4od	lula	ting	g																						
		L		Μ	1ech	nan	ical	caı	m										Ele	ctr	oni	с са	m																	
											-											02 0	ont	trol		0		ntr vert		-										
		50 BS3/M	06 RS 120/M BLU TC	06 RS 160/M BLU TC	10 RS 25/M BLU TC	10 RS 35/M BLU TC	06 RS 68/M BLU TC	484 RS 55/M BLU TC	11 RS 200/M BLU TL	219 RS 310/M BLU FS1	270 RS 410/M BLU FS1	32 RS 120/E BLU	32 RS 160/E BLU	110 RS 200/E BLU	0 RS 25/E BLU	10 RS 35/E BLU	32 RS 68/E BLU	-	217 RS 310/E BLU FS1	279 RS 410/E BLU FS1	996 RS 120/E 02 BLU TC	535 RS 160/E 02 BLU TL	368 RS 200/E 02 BLU TL		_	943 RS 120/EV 02 BLU TC	956 RS 160/EV 02 BLU TC	SS.	\neg	\neg	Oxygen Control kit	Variable speed drive	Variable speed drive	074 Variable speed drive 7,5 kW			Н	367 Burner flange	89 Riellotech Clima Comfort	3-point modulation kit
		3762350	3897606	3788006	3910510	3910610	3897406	20038484	3899711	20068219	20068270	3897632	3788032	3899810	3910710	3910810	3897432	20038491	20068217	20068279	20165996	20164535	20166368	20166002	20158157	20154943	20158956	20156077	20166004	20174935	20045187	20163064	20163071	20163074	20163093	4031196	20178775	20163867	4031069	20013035
TAIL 2600 N	11,5																								•						•								•	•
TAU 2600 N	11,5																													•	•				•		П		•	•
	11,6										•																								П	П	П		•	•
TAU 2000 N	11,6																			•														П		П	П		•	•
TAU 3000 N	11,6																								•						•						П		•	•
	11,6																													•	•		\exists		•		П		•	•

RECOMMENDED COMBINATIONS WITH BURNERS - EXTRA EU COUNTRIES

Description	Back-pressure in combustion										Gas	bur	ner											ner nge		trol nels
	chamber								Υ	ellov	v fla	me (Stan	dard	1)								IIIa	iige	pai	1613
	(mbar)				1	Two s	stage	e								Мос	dulat	ting								
		_													М	echa	nica	al ca	m							
		_										-													-	
		RS 44 MZ TC	RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS5D	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 250/M MZ TC	RS 190 TC	RS 34/M MZ TC	RS 44/M MZ TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 190/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		3789110	3784702	3785102	3785302	3785502	3762016	20068351	20068361	3788410	3785813	3788710	3788810	3781622	3789610	3789710	3789810	20052616	3787623	3788411	20068351	20068361	20178757	20178775	4031069	20013035
TAIL 270 N	3,2						•																		•	
TAU 270 N	3,2											•													•	•
TAU 350 N	4,6	•																							•	
	4,6												•												•	•
TAU 450 N	5,0		•																						•	
	5,0													•											•	•
TAU 600 N	5,5			•																					•	
	5,5														•										•	•
TAU 800 N	5,7				•																				•	
	5,7															•									•	•
TAU 1000 N	6,3				•																				•	
	6,3															•									•	•
TAU 1150 N	6,6					•																	•		•	
	6,6																•						•		•	•
TAU 1250 N	6,8					•																	•		•	
	6,8	_															•						•		•	•
TAU 1450 N	7,4										•													•	•	
	7,4																		•					•	•	•
TAU 1750 N	8,4										•														•	
	8,4																	•							•	•
TAU 2100 N	9,6									•															•	
	9,6																			•					•	•
TAU 2600 N	11,5							•																	•	
	11,5																				•				•	•
TAU 3000 N	11,6								•																•	
	11,6																					•			•	•

Description	Back-pressure in combustion																ırne																ırne				Bur			Con	
	chamber (mbar)	L											ВІ				(Lov		0x)											_	•		اددد	- · y			.iul	.66		Pui	13
	(IIIDai)				10 C	han	ica	l ca	m						Moc	lub	atin	g	FI		oni									-											
				- 1	ieci	III	iica	· ca			-										_		cont	trol		0	₂ CO	ntr	ol +	-											
																											Inv	ert	er			<	>	>	г						
		BS3/M	RS 25/M BLU TC	RS 35/M BLU TC	RS 55/M BLU TC	RS 68/M BLU TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 200/M BLU TL	RS 310/M BLU FS1	RS 410/M BLU FS1	RS 25/E BLU	RS 35/E BLU	RS 55/E BLU	RS 68/E BLU	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 310/E BLU FS1	RS 410/E BLU FS1	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 200/E 02 BLU TL	RS 310/E 02 BLU TC	RS 410/E 02 BLU TL	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	RS 200/EV 02 BLU TL	RS 310/EV 02 BLU TC	RS 410/EV 02 BLU TC	Oxygen Control kit	Variable speed drive 3,0 kW	Variable speed drive 5,5 kW	Variable speed drive 7,5 kW	Variable speed drive 11 kW	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		3762350	3910510	3910610	20038484		Т	3788006	3899711	20068219	20068270	3910710	3910810	20038491	3897432		\top	3899810	20068261	20068294	20165996	20164535	20166368	۵.		20154943	20158956				_	_			20163093	4031196	20178757	20178775	20163867	4031069	20013035
TAU 115 N	2,2	•																																\Box			L			•	•
TAU 150 N	2,0	•														L																		Ш		Ш	L			•	•
TAU 210 N	2,7		•								L		L		L						Ц		Ш						_		_	_		\perp			L			•	•
	2,7											•																		_	_	_		\Box		Ш	L			•	•
TAU 270 N	3,2		•														-												4	_	4	_	_	\perp		Ш	L			•	•
	3,2					-	-	-				•					-													_	_	_	_	=			L			•	•
TAU 350 N	4,6			•	-	-	-									H	+	H			H						_		+	-	-	-	_	-	\vdash	H	H			•	•
	4,6							H					•			H	+				H					-	-	-	+	-	-	\dashv	-	-	H		H			•	•
TAU 450 N	5,0				•									•		H						_				-		-	+	-	-	\dashv	-	-		•	H			•	•
	5,0					•	H	H	-		H		H	•		H	+				H	_	Н				-	-	+	-	-	-	-	-	H	•	H			•	•
TAU 600 N	5,5					-		H			H				•	H	+				H		Н				\dashv	-	+	+	\dashv	\dashv	-		H	•	H			•	•
	5,7					-	•		-		-				Ť	H	+				Н	_	Н				-	-	+	+	-	-	-	-		•	-			•	•
	5,7				H		Ť	H	H							•	+	H			Н		Н		\dashv		\dashv	-	+	\dashv	+	\dashv	\dashv	\neg	Н	•	H			•	•
TAU 800 N	5,7															Ť	+			_	•					-	+	-	+	+	•	\dashv	\dashv	\neg	Н	•				•	•
	5,7															H				_	Ť					•	+	+	+	+	-	•	\dashv	\neg	Н	•				•	•
	6,3						•	H			-					H	+				Н					1			+	+	+	\dashv	\dashv	\dashv	H	•				•	•
	6,3															•				_	Н								+	\dashv	\dashv	\dashv	\neg	\neg	Н	•				•	•
TAU 1000 N	6,3															H	+				•		Н				\exists	_	\dashv	1	•	\dashv	\neg	\exists	Н	•				•	•
	6,3															H	+				Н		Н			•	\exists	_	\dashv	1	•	•	\neg	\exists	Н	•				•	•
	6,6							•								H	+				Н		Н				\exists	_	\dashv	7	\dashv	\dashv	\neg	\neg	Н	Н		•		•	•
	6,6					H	H	H			Н		Н		H	H	•				Н		Н						\forall		\dashv	\dashv	\dashv	\exists	г	Н	H	•		•	•
TAU 1150 N	6,6															t					Н	•							\top	1	•	\neg	\neg		Т	П		•		•	•
	6,6															H					Н						•		\top	1	•	\exists	•		Т	П		•		•	•
	6,8							•								T	\vdash				П		П						\top			\exists	\dashv		г	П	\vdash	•		•	•
	6,8																•				П		П		\Box				\top		\neg			\neg	Г	П	Т	•		•	•
TAU 1250 N	6,8																				П	•	П		\exists				\top		•			\neg	г	П		•		•	•
	6,8			Г				T			Г		Г		Г	Г					П		П				•				•	\forall	•		П	П		•	Г	•	•
-	7,4							•													П		П						\top						П	П		•		•	•
TAIL 1/2 EO N	7,4																•																			П		•		•	•
TAU 1450 N	7,4																					•									•				П	П		•		•	•
	7,4																										•				•		•					•		•	•
	8,4								•																															•	•
TAU 1750 N	8,4										Ĺ		Ĺ		Ĺ			•																			Ĺ			•	•
IAU II JU N	8,4										Ĺ		Ĺ		Ĺ	Ĺ							•								•						L	Ĺ		•	•
	8,4										L		L		L	L					Ш							•			•			•						•	•
	9,6									•											Ш																L		•	•	•
TAU 2100 N	9,6																		•		Ш																		•	•	•
2100 N	9,6										L		L		L	L					Ш			•							•								•	•	•
	9,6										L		L		L	L					Ш								•		•			•					•	•	•
TAU 2600 N	11,5										•										Ш																			•	•
	11,5	L																		•																				•	•

268 2021 EDITION

Description	Back-pressure in combustion													(Gas	bu	rne	r															urn					ner		Con	
	chamber												ВІ	ue 1	flan	ne (Lov	/ NC)x)													acc	ess	огу			flar	ıge		pan	eis
	(mbar)													1	Мос	lula	ting	g																							
				٨	1ecl	han	ical	caı	m										Ele	ctr	oni	с са	am			_															
											-											02 (con	trol		0	-	ntr ert	ol + er												
		350 BS3/M	1510 RS 25/M BLU TC	1610 RS 35/M BLU TC	4.		3897606 RS 120/M BLU TC	3788006 RS 160/M BLU TC	9711 RS 200/M BLU TL	20068219 RS 310/M BLU FS1	20068270 RS 410/M BLU FS1	710 RS 25/E BLU	1810 RS 35/E BLU	20038491 RS 55/E BLU	7432 RS 68/E BLU	7632 RS 120/E BLU	3788032 RS 160/E BLU	3899810 RS 200/E BLU	20068261 RS 310/E BLU FS1	20068294 RS 410/E BLU FS1	20165996 RS 120/E 02 BLU TC	20164535 RS 160/E 02 BLU TL	20166368 RS 200/E 02 BLU TL	20166002 RS 310/E 02 BLU TC	20158157 RS 410/E 02 BLU TL	20154943 RS 120/EV 02 BLU TC	20158956 RS 160/EV 02 BLU TC	20156077 RS 200/EV 02 BLU TL	_		20045187 Oxygen Control kit	20163064 Variable speed drive 3,0 kW	20163071 Variable speed drive 5,5 kW	20163074 Variable speed drive 7,5 kW	20163093 Variable speed drive 11 kW	Н	20178757 Burner flange	20178775 Burner flange	20163867 Burner flange	069 Riellotech Clima Comfort	20013035 3-point modulation kit
		3762350	3910510	3910610	2003	3897	3897	3788	3899711	2006	2006	3910710	3910810	2003	3897432	3897632	3788	389	2006	2006	2016	2016	2016	2016	2015	2015	2015	2015	2016	2017	2007	2016	2016	2016	2016	4031196	2017	2017	2016	4031069	2001
TAU 2600 N	11,5																								•						•									•	•
IAU 2000 N	11,5																													•	•				•					•	•
	11,6										•																													•	•
TAIL 2000 N	11,6																			•																				•	•
TAU 3000 N	11,6																								•						•									•	•
	11,6																													•	•				•				П	•	•

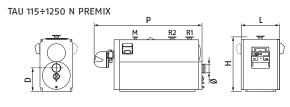
RIELLO PRODUCT CATALOGUE

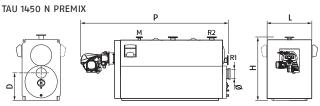
Condensing three flue gas passes stainless steel jet burners boilers

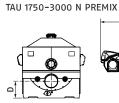
Tau N Premix

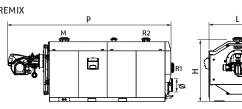
NEW

Tau N combined with RX premixed gas burners















- In conformity with Directive 2009/125/EC
- Condensing boilers made of stainless steel with three flue gas passes, with a high water
- Low emissions RX premix gas burner Đu8226
- RIELLOtech Clima Comfort electronic control panel

Description	H mm	L mm	P mm	D mm	ø mm	M DN	R1 DN	R2 DN	Net weight kg
TAU 115 N PREMIX	1315	740	1960	505	160	65	65	50	582
TAU 150 N PREMIX	1315	740	1960	505	200	65	65	50	582
TAU 210 N PREMIX	1315	740	1960	505	200	65	65	50	617
TAU 270 N PREMIX	1450	850	2140	545	250	65	65	50	774
TAU 270 N PREMIX LPG	1450	850	2140	545	250	65	65	50	774
TAU 350 N PREMIX	1450	850	2380	545	250	80	80	65	865
TAU 450 N PREMIX	1630	900	2590	645	300	100	100	80	1233
TAU 600 N PREMIX	1630	900	2760	645	300	100	100	80	1426
TAU 800 N PREMIX	1910	1060	3080	680	350	125	125	80	2107
TAU 1000 N PREMIX	1910	1060	3330	680	350	125	125	80	2342
TAU 1150 N PREMIX	2030	1180	3900	720	400	150	150	100	2880
TAU 1250 N PREMIX	2030	1180	3900	720	400	150	150	100	2880
TAU 1450 N PREMIX	2180	1225	4060	805	450	150	150	100	3430
TAU 1750 N PREMIX	1945	1750	4800	521	400	200	200	150	4466
TAU 2100 N PREMIX	1945	1750	5200	521	400	200	200	150	4961
TAU 2600 N PREMIX	2128	1850	5610	552	450	200	200	150	5776
TAU 3000 N PREMIX	2170	1950	5820	600	450	200	200	150	6976

- Delivery. Low temperature return system.
- High temperature return system.

PRODUCT CATALOGUE

TAU N Premix is equipped with modulating burners with total premixing combustion, which guarantee very low emissions in atmosphere and a wide turndown ratio.

The burner is equipped with gas valves with proportional opening with pneumatic control; the gas is dosed in operation of the air introduced to the combustion head which is cylindrical radiating type. The mixing of air with gas takes place inside the burner fan (the fan is variable speed) allowing correct operation too in the presence of low gas supply pressures.

The premixed flame is characterized by a compact geometry, and a low noise level, which translates into a limited sound emission to the chimney, with obvious comfort acoustic advantages.

The modulation of the flame allows to adapt the delivery temperature according to the external temperature in order to optimize the efficiency. The flame ignition is guaranteed by an intermittent pilot flame device.

- Low polluting emissions
- Easy maintenance for total accessibility to internal components avoiding to disassemble the burner
- Equipped with the RIELLOtech Clima Comfort electronic control panel to manage cascades of boilers, complex solar systems, integration of multiple types of heat generators, two mixed zones, one direct and the production of domestic hot water
- Equipped with burner plate for premix burners
- Maximum working pressure: 6 bar.

TECHNICAL DATA

Description		Output kW		ι	Jseful efficien	су	Notes	Code
	Useful max 80°/60°	Useful max 40°/30°	Furnace heat output	Pn max (80°/60°)%	Pn max (40°/30°)%	Reduced load 30% di Pn (30°)		
TAU 115 N PREMIX	112,1	123,1	115	97,5	107,0	108,0	(B)(D)	20120146
TAU 150 N PREMIX	146,3	159,7	150	97,5	106,5	108,5	(B)(D)	20031981
TAU 210 N PREMIX	205,2	223,6	210	97,7	106,5	109,3	(B)(D)	20031987
TAU 270 N PREMIX	265,1	290,2	270	98,2	107,5	109,2	(C)(D)	20105079
TAU 270 N PREMIX GPL	265,1	290,2	270	98,2	107,5	109,2	(A)(D)	20105081
TAU 350 N PREMIX	344,1	375,2	349	98,3	107,5	108,5	(B)(D)	20105082
TAU 450 N PREMIX	442,4	481,5	450	98,3	107,0	108,5	(B)(D)	20105083
TAU 600 N PREMIX	589,8	642,0	600	98,3	107,0	108,5	(B)(D)	20105085
TAU 800 N PREMIX	786,4	860,0	800	98,3	107,0	108,5	(B)(D)(T)	20105086
TAU 1000 N PREMIX	983,0	1070,0	1000	98,3	107,0	108,5	(B)(D)(T)	20105089
TAU 1150 N PREMIX	1129,3	1230,5	1150	98,3	107,0	108,5	(B)(D)(T)	20166024
TAU 1250 N PREMIX	1229,7	1337,5	1250	98,3	107,0	108,5	(B)(D)(T)	20166025
TAU 1450 N PREMIX	1425,6	1551,5	1450	98,3	107,0	108,5	(B)(D)(T)	20166026
TAU 1750 N PREMIX	1718,5	1881,2	1750	98,3	107,5	108,7	(B)(D)(T)	20166039
TAU 2100 N PREMIX	2062,2	2258,7	2100	98,3	107,5	108,7	(B)(D)(T)	20166027
TAU 2600 N PREMIX	2553,2	2796,5	2600	98,3	107,5	108,7	(B)(D)(T)	20166030
TAU 3000 N PREMIX	2946,0	3226,8	3000	98,3	107,5	108,7	(B)(D)(T)	20166041

- (A) (B) (C) (D) LPG.
- Natural gas-LPG.
- Natural gas.
- Availability of the material at our warehouse: 25 working days from the date of the order's validation.
- Product not subject to standard transport rates. For transport enhancement contact the Order Management Office.

Maximum operating pressure 6 bar. NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 323.

ACCESSORIES

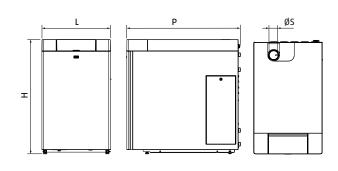
Description	Notes	Code
HYDRAULIC ACCESSORIES		
N2 neutralisation kit (up to 450 kW)		4031810
N3 neutraliser kit (450÷1500 kW)		4031812
HN2 neutralisation kit (up to 270 kW)	(1)	4031811
HN3 neutraliser kit (280÷750 kW)	(1)(D)	4031813

- Equipped with extraction pumps.
- Availability of the material at our warehouse: 30 working days from the date of the order's validation.

Steel floor-standing oil condensing boilers

Insieme Evo Cond







- In conformity with Directive 2009/125/EC
- · Steel boilers with oil burner for heating and for the production of domestic hot water
- Low NOx version class 3 according to EN 267

Description	H mm	L mm	P mm	ØA (*) mm	ØS mm	Net weight kg
Insieme EVO COND 45 LN	1138	600	1155	110	110	195
Insieme EVO COND 55 LN	1138	600	1155	110	110	198
Insieme EVO COND 70 LN	1138	600	1155	110	110	202

^(*) Type C transformation kit as optional.

Oil condensing thermal group equipped with single stage burner for heat outputs up to 45 kW, dual stage for 55,70 kW models with low pollutant emissions.

The stainless steel boiler body has an horizontal layout, coated with insulating and sound absorbing material. Insieme EVO COND is available with open chamber configuration as standard, convertible as sealed chamber with specifics accessory kits. Are available "only heating" versions or combined for the domestic hot water production with storage tank.

All the models are equipped a new electronic panel with backlight graphical display with five buttons and LEDs for the operating status displaying.

The control system provides the climatic regulation, the management of up to 3 zones distribution with specific accessory kits, the management of the sanitary hot water.

The electronics also provides the possibility of the remote management by means of the 0-10 V input, or with the Modbus protocol.

- Low sound emissions
- Flexible and cheapness installation. All the accessories for the operation and the safety are included in the furniture
- Simple maintainability: combustion chamber, flue manifold, control panel and hydraulic connextions are easily accessible
- Low pollutant emissions (class 3 according to EN 267 with Nox emissions≤100mg/kWh)
- Maximum working pressure: 3 bar
- Complete with flexible oil hoses

Insieme EVO COND 20÷35 V LN: thermal groups for the room heating with integrated 3 way valve for the connection with an external tank (optional)

Insieme EVO COND 25-35 B/130 LN: thermal group for the combined heating and domestic hot water production by means of an integrated 130 liters storage tank

Insieme EVO COND 45÷70 LN: thermal groups for the room heating.

TECHNICAL DATA

Description	Outp	ut kW	Rendi	mento	Energy effi	ciency class	Code
	Useful (80/60 °C) max	Furnace min-max	Pn (80/60 °C) %	Useful 30% Pn (30°C) %	•	رج	
LOW NOX VERSION - HEATING ONLY							
Insieme EVO COND 45 LN	43,7	45	97,2	104,8	А	-	20145977
Insieme EVO COND 55 LN	53,3	40÷55	96,9	104,9	А	-	20145978
Insieme EVO COND 70 LN	67,7	55÷70	96,8	104,8	Α	-	20145979

NOTE: for models with $P \le 35$ kW (20, 25, 35 kW), go to the "FLOOR-STANDING BOILERS" section on page 272.

ACCESSORIES

Description	Notes	Code
SECONDARY CIRCUIT MANAGEMENT		
External probe		1220559
Domestic hot water probe		1220599
1st direct/mixed zone management		20132795
2 nd /3 rd direct/mixed zone management		20132796
SEALED TRANSFORMATION (TYPE C)		
Ø110 mm type C transformation		20163285
SAFETY DEVICES		
Fuel shut-off valve kit (VIC) - ØG.1"		20009486
Pressure gauge- safety valve kit (2,5 bar)	(1)	20181008
Safety devices kit	(2)(3)	20180519
Safety kit adapter	(3)	20165826
FUEL FILTER		
Oil filter		20132792
FLUE DISCHARGE		
Ø110 - Ø110/160 mm adapter		20160472
HYDRAULIC ACCESSORIES		
DN70 hydraulic separator		4047314
CONDENSATE NEUTRALIZER		
DNO 1 neutralization kit		20182660
HN0 1.6 neutralization kit	(4)	20182664

- To be combined with code 20180519.
- It contains: pressure switch, minimum pressure switch and thermometer. For 45–55–70 kW models.
- (1) (2) (3) (4)
- Equipped with extraction pump.

RICLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
NO.O CO	RiCLOUD	(2)	20117399
958	Wi-Fi box		20111885
MAN TO THE PROPERTY OF THE PRO	RF-wireless boiler receiver		20117359

- Specific functions available only connecting Riello boilers in OTBus communication. Possibility of connection with other generic boilers and other devices in ON Vith Wi-Fi box included for the connection to the home ADSL Wi-Fi Internet modem.
- For cable connection to the boiler. Compatible for radio frequency connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL modem).

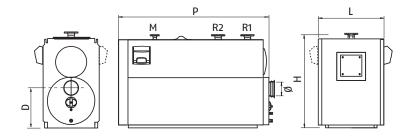
TERMINAL UNITS

RIELLO

Condensing three flue gas passes oil and gas steel boilers

Tau N Oil Pro





- In conformity with Directive 2009/125/EC
- Condensing boilers made of stainless steel with three flue gas passes, with high water content, suitable for the operation with oil and gas jet
- Suitable for the operation with oil for heating according to UNI 6579 (sulphur content < 1000 ppm)

Description	H mm	L mm	P mm	D mm	M Ø-DN	R1 low temp. Ø-DN	R2 high temp. Ø-DN	ø mm	Net weight kg
TAU 115 N OIL PRO	1315	740	1455	505	65	65	50	160	530
TAU 150 N OIL PRO	1315	740	1455	505	65	65	50	200	560
TAU 210 N OIL PRO	1315	740	1455	505	65	65	50	200	580
TAU 270 N OIL PRO	1450	850	1630	545	65	65	50	250	737
TAU 350 N OIL PRO	1450	850	1830	545	80	80	65	250	823
TAU 450 N OIL PRO	1630	900	2035	645	300	100	100	80	1185
TAU 600 N OIL PRO	1630	900	2235	645	300	100	100	80	1370
TAU 800 N OIL PRO	1910	1060	2560	680	350	125	125	80	2010
TAU 1000 N OIL PRO	1910	1060	2810	680	350	125	125	80	2245

The boiler has been designed to operate with heating standard oil, with sulphur content < 1000 ppm, thanks to the construction made of stainless steel AISI 316Ti and AISI 904 L. The boiler is based on the principle of heat stratification: in the upper part there is high temperature water, while in the lower part, where condensing take place, remains a large quantity of cold water in order to ensure the condensation.

The generator structure has been studied to contain thermal expansion.

Particular care was given to ensure thermal insulation of the boiler body, casing and door by using high-density mineral wool and ceramic fibre. The control panel should be ordered separately.

- Low polluting emissions
- Reduced average temperature of the body and quick start-up time
- Several solutions thanks to the combination with Riellotech control panels
- Built-in condensate drain
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description		Output kW		Wo	orking efficie	псу	Back pressure in the chamber	Notes	Code
	Useful max 80°/60°	Useful max 40°/30°	Furnace thermal output	with max nominal output (80°/60°) %	with max nominal output (40°/30°) %	Red. load 30% of max nominal output (30°)	mbar		
TAU 115 N OIL PRO	112,2	120,6	115	97,6	104,9	104,8	2,2	(D)	20124420
TAU 150 N OIL PRO	146,4	157,4	150	97,6	104,8	104,7	2,0	(D)	20124421
TAU 210 N OIL PRO	205,2	220,1	210	97,7	104,7	104,6	2,7	(1)(D)	20124423
TAU 270 N OIL PRO	264,3	282,7	270	97,9	104,5	104,4	3,2	(1)(D)	20124424
TAU 350 N OIL PRO	343,7	365,8	350	98,2	104,5	104,1	4,6	(1)(D)	20124425
TAU 450 N OIL PRO	441,9	470,3	450	98,2	104,5	104,1	5,0	(1)(D)	20180060
TAU 600 N OIL PRO	589,2	627,0	600	98,2	104,5	104,1	5,5	(1)(D)	20180061
TAU 800 N OIL PRO	785,6	836,0	800	98,2	104,5	104,1	5,7	(1)(D)	20164743
TAU 1000 N OIL PRO	982,0	1045,0	1000	98,2	104,5	104,1	6,3	(1)(D)	20164757

⁽¹⁾ The product can benefit from tax deductions for energy redevelopment if combined with a Modulating type burner (see recommended combinations table).
(D) Availability of the material at our warehouse: 30 working days from the order receipt date.

ACCESSORIES

Description	Notes	Code
HYDRAULIC ACCESSORIES		
Neutralizer kit DNO 2 (up to 300 kW)		20182661
Neutralizer kit DNO 3 (up to 1000 kW)		20182663
Neutralizer kit HNO 1.6 (up to 200 kW)	(1)	20182664
Neutralizer kit HNO 3 (up to 1000 kW)	(1)(2)(D)	20182665
MECHANICAL ACCESSORIES		
Burner flange		4031196

Equipped with extraction pumps.

CONTROL PANELS

Description	Installation	Boiler model	Code
RIELLOtech CLIMA COMFORT	Verticale	TAU N 115-350 OIL	4031069

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 323.

Contact pre-sales service. On request.

Availability of the material at our warehouse: 30 working days from the order receipt date.

RECOMMENDED COMBINATIONS WITH BURNERS

For combination with GAS BURNER use correspondence tables provided for similar models of the TAU N range on page 262.

Description	Back-pressure in combustion			0il bu	rner				Dual fue burner			ntrol nels
	chamber (mbar)	Yellow flame (Standard)			Blue	lame	(Low	NOx)				
		Modulating		Two	stage		1	Modul	ating			
		Mechanical cam		,	-		Ме	chani	cal cam			
		RL 100/M TL	BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	RLS 120/M MX TL	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		20166484	20015696	20027479	20027481	20027567	20169338	20169330	20147788	4031196	4031069	20013035
TAU 115 N OIL PRO	2,2		•								•	
TAU 150 N OIL PRO	2,0		•								•	
TAU 210 N OIL PRO	2,7			•							•	
TAU 270 N OIL PRO	3,2				•						•	
TAU 350 N OIL PRO	4,6						•				•	
	5,0						•				•	
TAU 450 N OIL PRO	5,0							•			•	•
TAU 600 N OIL PRO	5,5							•			•	•
TALL GOO N OU DDO	5,7									•	•	•
TAU 800 N OIL PRO	5,7								•	•	•	
TAU 1000 N OU PPO	6,3	•									•	•
TAU 1000 N OIL PRO	6,3								•	•	•	

STEEL JET BURNER BOILERS GAS/OIL

6

THREE FLUE GAS PASSES



RTS 3S

RTS 3S 90 (85,1 kW)* RTS 3S 115 (108,3 kW)* RTS 3S 166 (157,4 kW)* RTS 3S 217 (207,5 kW)* RTS 3S 255 (244,0 kW)* RTS 3S 349 (334,7 kW)*

RTS 3S 448 (427,8 kW) RTS 3S 511 (488,0 kW) RTS 3S 639 (610,2 kW) RTS 3S 850 (811,8 kW) RTS 3S 1160 (1107,8 kW) RTS 3S 1450 (1384,8 kW)

page 278



JET BURNER BOILERS GAS/OII

STEEL

RTS 2S

RTS 115 2S (125 kW) RTS 150 2S (163 kW) RTS 200 2S (216 kW) RTS 247 2S (264 kW) RTS 319 2S (341 kW)

RTS 410 2S (439 kW) RTS 526 2S (563 kW) RTS 736 2S (787 kW) RTS 850 2S (909 kW) RTS 1012 2S (1082 kW) RTS 1200 2S (1283 kW) RTS 1355 2S (1449 kW) RTS 1500 2S (1609 kW) RTS 1850 2S (1980 kW)

page 286



RTG

RTG 1000 (1165 kW) RTG 1200 (1410 kW) RTG 1500 (1760 kW) RTG 1800 (2040 kW) RTG 2100 (2510 kW) RTG 2600 (3020 kW) RTG 3000 (3520 kW)

RTG 3500 (4090 kW) RTG 4000 (4680 kW) RTG 4300 (5030 kW) RTG 5000 (5830 kW) RTG 6000 (7020 kW) RTG 7500 (8760 kW) RTG 9000 (10560 kW)

page 278

REVERSE FLAME



RTQ 3S

RTQ 91 3S (87,1 kW) RTQ 115 3S (109,7 kW) RTQ 166 3S (158,7 kW) RTQ 217 3S (206,8 kW) RTQ 255 3S (243,3 kW) RTQ 318 3S (303,4 kW) RTQ 349 3S (332,0 kW)

RTQ 448 3S (427,4 kW) RTQ 511 3S (487,5 kW) RTQ 575 3S (548,6 kW) RTQ 639 3S (609,6 kW) RTQ 766 3S (730,8 kW) RTO 896 35 (854.8 kW) RTQ 1100 3S (1049,4 kW) RTQ 1300 3S (1240,2 kW) RTQ 1600 3S (1526,4 kW) RTQ 2100 3S (2003,4 kW) RTQ 2400 3S (2289,6 kW) RTQ 3000 3S (2860,0 kW) RTO 3500 3S (3339 kW) RTQ 4000 3S (3816 kW)

page 298



RTQ 2S

RTQ 50 2S (50,0 kW) RTQ 64 2S (64,0 kW) RTQ 82 2S (82,0 kW) RTQ 105 2S (105,0 kW) RTQ 154 2S (154,4 kW) RTQ 203 2S (202,7 kW) RTQ 235 2S (235,3 kW) RTQ 297 2S (297,0 kW) RTQ 323 2S (322,9 kW) RTQ 357 2S (356,7 kW)

RTQ 418 2S (418,0 kW) RTQ 467 2S (467,0 kW) RTQ 537 2S (537,1 kW) RTO 597 2S (596.8 kW) RTQ 715 2S (715,4 kW) RTO 837 25 (836 9 kW) RTQ 920 2S (920 kW) RTQ 1020 2S (1020 kW) RTQ 1250 2S (1250 kW)

RTQ 1500 2S (1500 kW) RTQ 5000 2S (5000 kW)

page 305



Products in conformity with ErP Directive (EU Regulation Nr. 813/2013) with oil.

NOTE: products in conformity with ErP Directive (EU Regulation Nr. 813/2013) with oil The distinguish between EU and Extra EU Countries is based only on the enforcement of the Ecodesign Regulation. The conformity to any other national Regulation must be confirmed.

SOLAR THERMAL



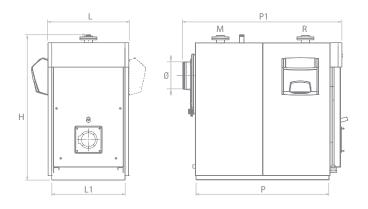


- Oil products are in conformity with Directive 2009/125/EC
- Single-piece steel boilers with three flue gas passes
- The particular geometry of the heat exchanger allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of NOx for low polluting emissions

Three flue gas passes steel jet burner boilers

RTS 3S

Oil products are in conformity with ErP Directive (EU Regulation Nr. 813/2013). Gas products up to 400 kW only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of EU Regulation N. 813/2013.



Description	H mm	L mm	P mm	L1 mm	P1 mm	M Ø	R Ø	ø mm	Net weight kg
RTS 90 3S	1205	660	860	580	1155	2"	2"	180	335
RTS 115 3S	1285	710	1010	640	1330	2"	2"	200	450
RTS 166 3S	1390	760	1180	690	1500	2" 1/2	2" 1/2	250	515
RTS 217 3S	1390	760	1180	690	1500	2" 1/2	2" 1/2	250	535
RTS 255 3S	1524	820	1296	750	1660	2" 1/2	2" 1/2	250	715
RTS 349 3S	1490	820	1596	750	1960	DN80	DN80	250	840
RTS 448 3S	1685	890	1692	790	2085	DN80	DN80	300	1160
RTS 511 3S	1685	890	1692	790	2085	DN80	DN80	300	1160
RTS 639 3S	1820	1000	1965	900	2375	DN100	DN100	350	1500
RTS 850 3S	1920	1047	2236	980	2657	DN125	DN125	350	2075
RTS 1160 3S	2080	1147	2533	1070	2954	DN125	DN125	400	2575
RTS 1450 3S	2222	1237	2754	1160	3173	DN150	DN150	450	3390

Its vertical design and reduced width (narrow range) allows an easy installation even in tiny plant rooms. The flue pipes are equipped with removable stainless steel turbulators, which allow to optimize the efficiency of the heat exchange without increasing head losses. The door features an ambidextrous opening and is provided with a peephole with pressure intake. Casing is made of stove-enamelled sheet. Shell and flue gas zone are easy to reach for maintenance. The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 50 °C)
- Several solutions thanks to the combination with RIELLOtech control panels
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn (80°-60 °C)	Efficiency (30% Pn) %	Notes	Code
RTS 90 3S	85,1	90	94,5	98,5	(1)(2)	20042418
RTS 115 3S	108,3	115	94,2	98,5	(1)(2)	20031973
RTS 166 3S	157,4	166	94,8	98,5	(1)(2)	20031974
RTS 217 3S	207,5	217	95,6	98,5	(1)(2)	20031976
RTS 255 3S	244,0	255	95,7	98,5	(1)(2)	20031977
RTS 349 3S	334,7	349	95,9	98,5	(1)(2)	20031978
RTS 448 3S	427,8	448	95,5	98,5	(3)	20031979
RTS 511 3S	488,0	511	95,5	98,5	(3)	20031980
RTS 639 3S	610,2	639	95,5	98,5	(3)	20042417
RTS 850 3S	811,8	850	95,5	98,5	(3)	20044152
RTS 1160 3S	1107,8	1160	95,5	98,5	(3)	20047381
RTS 1450 3S	1384,8	1450	95,5	98,5	(3)	20047391

- Maximum operating pressure 5 bar for 90 model.

 Maximum operating pressure 6 bar for the other models.

 Minimum temperature of water return (to the boiler): 50 °C.

 (1) Gas products only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.

 (2) Oil product are in conformity with ErP Directive (EU Regulation Nr. 813/2013)

 (3) For orders please contact Sales Department.

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	4031188
Burner flange	4031196
Burner flange	4031197
Burner flange	4031198
Burner flange	20043900
Burner flange	20047680

CONTROL PANELS

Description	Installation	Code	Boiler model
RIELLOtech CLIMA COMFORT	Vertical	4031069	All models
RIELLOtech PRIME	Vertical	20010820	All models
RIELLOtech PRIME ACS	Vertical	20010437	All models

Climate management with RIELLOtech Clima Comfort.
Thermostatic management with RIELLOtech PRIME.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 323.

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion											Ga	s bı	urn											Bur flar			Cor	ntro	pane
	chamber	_	Ye	llov	v fla	me	(St	tan	dar	d)								me (Lov	/ NO	Ox)				IIdi	ige				
	(mbar)		Two	_	age	_				_	_	_		_	lod	ulat	ing													
		_		<u>-</u>		4			Med	cha	nic -	al c	am		_			Ele	ectr	oni 0	c ca		ntrol							
																			c				erter							
																						U	U						omfort	4
		TC	TC	0 TC) TC	o TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 150/M TC	RS 55/M BLU TC	RS 68/M BLU TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 55/E BLU	RS 68/E BLU	RS 120/E BLU	RS 160/E BLU	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit
		RS 50 TC	RS 70 TC	RS 100 TC		-	RS 50	RS 70	RS 10	Н	_	_	RS 68	RS 12(RS 16	RS 55	RS 68	RS 12(7	7	RS 16	RS 12(RS 16	-	_	-	Burn	_	Riello	Two
		3784702	3785102	3785302	3785502	20044636	3781622	3789610	3789710	3789810	20044638	20038484	3897406	3897606	3788006	20038491	3897432	3897632	3788032	20165996	20164535	20154943	20158956	4031197	20043900	20047680	4031196	20010820	4031069	4031067
	2,9	•			Ц														4	_								•		•
RTS 448 3S	2,9				Ц		•			Ш			L		Ш		_	_	4	_	4			Ш	Ш				•	•
	2,9				Ц	4				Ш		•							4	_				Ш			•		•	•
	2,9				Ц											•			4	_							•		•	•
	5,4	•				_													4									•		•
RTS 511 3S	5,4					_	•												4										•	•
	5,4					_						•							4								•		•	•
	5,4					_										•			4								•		•	•
	5,2		•		Ц														4									•		•
RTS 639 3S	5,2				Ц			•											4										•	•
	5,2				Ц								•						4								•		•	•
	5,2				Ц												•		4	_				•					•	•
	6,7			•		Ц																		Ш				•		•
	6,7								•																				•	•
RTS 850 3S	6,7					Ц								•															•	•
11.5 0,0 ,5	6,7																	•											•	•
	6,7																			•									•	•
	6,7																					•							•	•
	3,9				•																				•			•		•
	3,9									•															•				•	•
RTS 1160 3S	3,9													•															•	•
113 1100 33	3,9																	•											•	•
	3,9												L							•									•	•
	3,9																					•							•	•
	4,6					•																						•		•
	4,6										•																		•	•
RTS 1450 3S	4,6														•														•	•
1470 33	4,6																		•										•	•
	4,6													Ĺ							•								•	•
	4,6							Ţ															•						•	

Description	Back-pressure in combustion							Oil	bur	ner								al f		Bur acce	ner ssory	Bui	rner	flai	nge	Со	ntro	l par	ıels
	chamber (mbar)	_	Yello	ow 1	flam	e (S	tano	dard	1)			Blu	ie fl	ame	(Lo	w N	_				,								
	(IIIbai)	1	wo	sta	ge	М	lodu	lati	ng		Tvv	o st	age			Mod	lula	ting											
				-		М	lech ca	anio am	cal			-			Мє	echa	nica	al ca	m										
		RL 50 TC	RL 70 TC	RL 100 TC	RL 130 TC	RL 50/M TC	RL 70/M TC	RL 100/M TC	RL 130/M TC	BG6.1D	BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	RLS 68/M MX TC	RLS 120/M MX TC	RLS 160/M MX TC	RWF 50.2	RWF 50.2	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3474632	3475032	3475232	3475432	20166502	20166463	20166481	20166486	20015693	20015696	20027479	20027481	20027567	20169338	20169330	20147784	20147786	20147789	20082208	20099869	20043900	4031188	4031196	4031198	20010820	4031069	4031067	20013035
RTS 90 3S	1,0						П			•																•		•	
RTS 115 3S	1,4										•															•		•	
RTS 166 3S	1,8											•													•	•		•	
RTS 217 3S	2,7											•													•	•		•	
RTS 255 3S	2,9												•													•		•	
RTS 349 3S	3,6													•									•			•		•	
	2,9	•																								•		•	
	2,9					•																					•		•
RTS 448 3S	2,9													•									•			•		•	
	2,9														•									•			•		•
	2,9																•			•						•		•	
	5,4	•																								•		•	
PTC 544 2C	5,4					•																					•		•
RTS 511 3S	5,4														•									•			•		•
	5,4																•			•						•		•	
-	5,2		•																							•		•	
	5,2						•																				•		•
RTS 639 3S	5,2														•									•			•		•
	5,2																•			•						•		•	
	6,7			•																						•		•	
	6,7							•																			•		•
RTS 850 3S	6,7															•								•			•		•
	6,7																	•		•						•		•	
	3,9				•																	•				•		•	
RTS 1160 3S	3,9							•																			•		•
	3,9																		•		•					•		•	
	4,6				•																	•				•		•	
RTS 1450 3S	4,6								•													•					•		•
	1.6			т	1		1								_	_	_				_		_						1

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 323.

RECOMMENDED COMBINATIONS WITH BURNERS - EXTRA EU COUNTRIES

Description	Back-pressure in combustion								urn								ner nge	Cor	ntro	l par	els
	chamber					/ellc	w fl	am	e (St	tanc	lard)					iige				
	(mbar)			Tw	o sta	age					Мос	dula	ting	g							
					-					Ме	echa	anic	al c	am							
					-			_				-		_							
		RS 34 MZ TC	RS 44 MZ TC	RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS 150 TC	RS 34/M MZ TC	RS 44/M MZ TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 150/M TC	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3789010	3789110	3784702	3785102	3785302	3785502	20044636	3788710	3788810	3781622	3789610	3789710	3789810	20044638	20043900	4031197	20010820	4031069	4031067	20013035
	1,8	•																•		•	
RTS 166 3S	1,8								•										•		•
	2,7	•													Т			•		•	
RTS 217 3S	2,7								•										•		•
	2,9	•																•		•	
RTS 255 3S	2,9								•										•		•
	3,6		•															•		•	
RTS 349 3S	3,6									•									•		•
	2,9			•														•		•	
RTS 448 3S	2,9										•								•		•
	5,4			•														•		•	
RTS 511 3S	5,4										•								•		•
	5,2				•													•		•	
RTS 639 3S	5,2											•							•		•
	6,7					•											•	•		•	
RTS 850 3S	6,7												•						•		•
	3,9						•									•		•		•	
RTS 1160 3S	3,9													•		•			•		•
	4,6							•										•		•	
RTS 1450 3S	4,6														•				•		•

Description	Back-pressure							C	îas	bu	rne	r						_				Вι	ırne	er fl	lang	ge	Cor	ntro	l pan	els
	in combustion chamber						Βlι	ue f	lam	ne (Lov	v N	Ox)																	
	(mbar)	Monostadio	Bistadio									Мо	dul	atir	ng															
		-	-	!	Med	cha	nica	al ca	am						Ele	ctro	onic	car	_											
							-												trol	0₂ co +Inv	ontrol verter								1	
			۵	Ψ	RS 25/M BLU TC	RS 35/M BLU TC	RS 55/M BLU TC	RS 68/M BLU TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 25/E BLU	RS 35/E BLU	RS 45/E BLU	RS 55/E BLU	RS 68/E BLU	RS 120/E BLU	RS 160/E BLU	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit				
		. BS3	6 BS3D	П				\neg		-	П	Т	Т	Н	Н	Н	Н	-					-	Т	П	П	-			_
		3761316	3761716	3762350	3910510	3910610	20038484	3897406	3897606	3788006	3910710	3910810	3897332	20038491	3897432	3897632	3788032	20165996	20164535	20154943	20158956	20043900	20047680	4031196	4031198	4031197	20010820	4031069	4031067	20013035
	1,0	•																									•			
RTS 90 3S	1,0		•																								•		•	
	1,0			•																								•		•
	1,4	•																									•			
RTS 115 3S	1,4		•																								•		•	
	1,4			•																								•		•
	1,8	•																									•			
RTS 166 3S	1,8		•																								•		•	
	1,8			•																								•		•
PTC 247 25	2,7				•																				•			•		•
RTS 217 3S	2,7										•														•			•		•
DTC 255 2C	2,9				•																							•		•
RTS 255 3S	2,9											•																•		•
PTC 24-0 2C	3,6					•																						•		•
RTS 349 3S	3,6											•																•		•
PTC 140 2C	2,9						•																	•				•		•
RTS 448 3S	2,9												•															•		•
DTC 544 DC	5,4						•																	•				•		•
RTS 511 3S	5,4													•										•				•		•
RTS 639 3S	5,2							•																•				•		•
	6,7								•																			•		•
PTC OF O OC	6,7															•												•		•
RTS 850 3S	6,7																	•										•		•
	6,7																			•								•		•
	3,9								•																			•		•
PTC 44.60 TC	3,9															•												•		•
RTS 1160 3S	3,9																	•										•		•
	3,9			П																•								•		•
	4,6			П						•													•					•		•
	4,6			П												П	•								П			•		•
RTS 1450 3S	4,6			П												П	П		•						П			•		•
	4,6			П										П			П				•				П			•		•

	Back-pressure in combustion chamber (mbar)	Ĺ				/ollo	NV F	am) (C+	and)il b	urn	er			DI.	uc f	lam	0 (10	NA NO	Burner accessory		Burner flange				Cor	ntro	l par	els	
		Yellow flame (St													Blue flame (Low NOx																	
	(IIIbai)	Two stage								Modulating Mechanical cam					Two stage				Modulating Mechanical													
		-								Mechanical Calif											m											
																														Comfort	<u>.</u> .,	on kit
		3739450 RG3D	RG4D	RL 50 TC	RL 70 TC	RL 100 TC	RL 130 TC	RL 34 MZ TC	RL 44 MZ TC	RL 50/M TC	RL 70/M TC	RL 100/M TC	20166486 RL 130/M TC	RL 28/M TC	RL 38/M TC	BG6.1D	BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	RWF 50.2	RWF 50.2	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
			3739750		3475032	3475232	3475432	3470210	3470310	20166502	20166463 R	20166481 R		\Box	20166497	20015693		_	20027481	20027567 RI	20169338 RL	20169330 RL	20082208 RV	20099869	20043900	4031188	4031196	4031198	20010820	4031069	4031067	20013035
DTC 00 3C	1,0	•																											•		•	Г
RTS 90 3S	1,0															•													•		•	
RTS 115 3S	1,4	•																											•		•	L
	1,4																•												•		•	Ĺ
RTS 166 3S	1,8		•																										•		•	
	1,8																	•										•	•		•	
RTS 217 3S	2,7							•																				•	•		•	L
	2,7													•														•		•		•
	2,7																	•										•	•		•	
RTS 255 3S	2,9							•																					•		•	
	2,9													•																•		•
	2,9																		•										•		•	L
RTS 349 35 RTS 448 35 RTS 511 35 RTS 639 35 RTS 850 35	3,6								•																				•		•	L
	3,6														•															•		•
	3,6																			•						•			•		•	L
	2,9			•																									•		•	L
	2,9									•																				•		•
	2,9																			•						•			•		•	L
	2,9																				•						•			•		•
	2,9																						•						•		•	
	5,4			•																									•		•	
	5,4									•																				•		•
	5,4																				•						•			•		•
	5,4																						•						•		•	
	5,2				•																								•		•	
	5,2										•																			•		•
	5,2																				•						•			•		•
	5,2							Щ															•					Щ	•		•	
	6,7					•																							•		•	
	6,7							Щ				•																Щ		•		•
	6,7																					•					•			•		•
	6,7																						•						•		•	
RTS 1160 3S	3,9						•	Щ																	•			Щ	•		•	L
	3,9											•																		•		•
	3,9																							•					•		•	
RTS 1450 3S	4,6						•																		•			Ш	•		•	

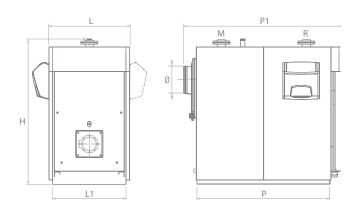
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 323.

Description	Back-pressure			D	ual 1	fuel t	ourne	er				ner		Burn	er fla	ange		Со	ntrol	pan	els
	in combustion chamber (mbar)			ow fl anda			Blu	e fla No	me (0x)	Low	acce	ssory									
	(IIIDai)		Tw	o sta	age			Modu	ılatin	g											
				-			Ме	chan	ical	cam											
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 68/M MX TC	RLS 120/M MX TC	RLS 160/M MX TC	RLS 190/M MZ	RWF 50.2	RWF 50.2	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit				
		20147897	20147803	20147805	20147798	20147799	20147784	20147786	20147789	20159361	20082208	20099869	20043900	20047680	4031188	4031196	4031198	20010820	4031069	4031067	20013035
RTS 166 3S	1,8	•															•	•		•	
RTS 217 3S	2,7	•															•	•		•	
RTS 255 3S	2,9	•																•		•	
RTS 349 3S	3,6		•															•		•	
RTS 448 3S	2,9			•														•		•	
N13 440 53	2,9						•				•							•		•	
RTS 511 3S	5,4				•													•		•	
	5,4						•				•							•		•	
RTS 639 3S	5,2				•													•		•	
	5,2						•				•							•		•	
RTS 850 3S	6,7					•												•		•	
K13 630 33	6,7							•			•							•		•	
RTS 1160 3S	3,9									•	•			•				•		•	
NIS 1100 33	3,9								•			•						•		•	
RTS 1450 3S	4,6									•	•			•				•		•	
113 1430 33	4,6								•			•						•		•	

Three flue gas passes steel jet burner boilers

RTS 2S

Products up to 400 kW only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.





- Single-piece steel boilers with three flue gas passes, that can be matched with jet burners
- The particular geometry of the heat exchange allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of NOx for low polluting emissions

Description	Н	L	Р	L1	P1	М	R	Ø	Net weight
	mm	mm	mm	mm	mm	DN	DN	DN	kg
RTS 115 2S	1205	660	860	580	1155	2"	2"	180	335
RTS 150 2S	1285	710	1010	640	1330	2"	2"	200	450
RTS 200 2S	1390	760	1180	690	1500	2" 1/2	2"1/2	250	515
RTS 247 2S	1390	760	1180	690	1500	2" 1/2	2"1/2	250	535
RTS 319 2S	1524	820	1296	750	1660	2" 1/2	2"1/2	250	715
RTS 410 2S	1490	820	1596	750	1960	DN80	DN80	250	840
RTS 526 2S	1685	890	1692	790	2085	DN80	DN80	300	1160
RTS 736 2S	1830	1000	1965	900	2375	DN100	DN100	350	1500
RTS 850 2S	1830	1000	1965	900	2375	DN100	DN100	350	1500
RTS 1012 2S	1920	1047	2236	980	2657	DN125	DN125	350	2075
RTS 1200 2S	1920	1047	2236	980	2657	DN125	DN125	350	2075
RTS 1355 2S	2080	1147	2533	1070	2954	DN125	DN125	400	2575
RTS 1500 2S	2080	1147	2533	1070	2954	DN125	DN125	400	2575
RTS 1850 2S	2222	1237	2754	1160	3173	DN150	DN150	450	3390

Pressurized steel boilers, that can be matched with any fuel jet burners. Provided with completely wet combustion chamber with free dilation and three passes flue path. The flue pipes are equipped with removable stainless steel turbulators, which allow to optimize the efficiency of the heat exchange without increasing head losses.

The door features an ambidextrous opening and is provided with a peephole with pressure intake.

Casing is made of stove-enamelled sheet. Shell and flue gas zone are easy to reach for maintenance.

The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 50 °C)
- Several solutions thanks to the combination with RIELLOtech control panels
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description	0u	tput kW	Eff	iciency	Back-pressure	Notes	Code
	Useful max 80°/60°"	Furnace heat output	Pn max (80°/60°) %	Reduced load 30% of Pn (30 °C)	in combustion chamber mbar		
RTS 115 2S	125	115	92,2	97,2	1,2		20150418
RTS 150 2S	163	150	92,2	97,2	1,6		20150304
RTS 200 2S	216	200	92,7	97,2	1,8		20150305
RTS 247 2S	264	247	93,5	97,2	3		20150410
RTS 319 2S	341	319	93,5	97,2	2,4		20150412
RTS 410 2S	439	410	93,5	97,2	3,7		20150416
RTS 526 2S	563	526	93,5	97,2	2,2		20150417
RTS 736 2S	787	736	93,5	97,2	4,8		20150419
RTS 850 2S	909	850	93,5	97,2	6,8	(1)	20150434
RTS 1012 2S	1082	1012	93,5	97,2	6,1	(1)	20150420
RTS 1200 2S	1283	1200	93,5	97,2	9,8	(1)	20150435
RTS 1355 2S	1449	1355	93,5	97,2	5,1	(1)	20150432
RTS 1500 2S	1609	1500	93,2	97,2	7	(1)	20150437
RTS 1850 2S	1980	1850	93,5	97,2	7,2	(1)	20150433

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	·
Burner flange	4031188
Burner flange	4031196
Burner flange	4031395
Burner flange	20043900
Burner flange	20047680
Burner flange	20065920
Burner flange	4031186
Burner flange	4031192
Burner flange	4031198
Burner flange	20043899
Burner flange	20184817

CONTROL PANELS

Description	Installation	Code	Boiler model
RIELLOtech CLIMA COMFORT	Vertical	4031069	All models
RIELLOtech PRIME	Vertical	20010820	All models
RIELLOtech PRIME ACS	Vertical	20010437	All models

Gestione climatica con RIELLOtech Clima Comfort. Gestione termostatica con RIELLOtech PRIME.

Maximum operating pressure: 6 bar. (1) For orders please contact Sales Department.

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion			Vell		ila :-	- 10	to :-	de :		ias l	burr	er		D.			. /1 -		O+4)				Bu	rne	r fla	nge		Co	ntro	ıl paı	ıe
	chamber	000					e (S	tan	dard	1)				Mar				(Lo	w N	0x)												
	(mbar)	One stage		IW	o sta	age								MOC	ıuıa	ting																
					-						Mec	han	ical	can	1			El	ectr	onio	са	m								_		_
													,,	u	U														a	a Comfort	e.	
		RS 44/1 MZ TC	RS 100 TC	RS 130 TC	RS 190 TC	RS 44 MZ TC	RS 50 TC	RS 100/M TC	RS 130/M TC	RS 190/M TC	RS 44/M MZ TC	RS 50/M MZ TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 200/M BLU TC	RS 45/M BLU TC	RS 68/M BLU TC	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 45/E BLU	RS 68/E BLU	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	0					
		3788610	3785302	3785502	3785813	3789110	3784702	3789710	3789810	3787623	3788810	3781622	3897606	3788006	3899710	3897306	3897406	3897632	3788032	3899810	3897332	3897432	20043900	20047680	20065920	4031188	4031196	4031395	20010820	4031069	4031067	
	3,70	•																										•	•	L		1
	3,70					•																						•	•	L	•	1
RTS 410 2S	3,70										•																	•		•		
	3,70															•												•		•		
	3,70																				•							•		•		
	2,20						•																					•	•		•	
RTS 526 2S	2,20											•																•		•		
113 320 23	2,20																•										•			•		
	2,20																					•					•			•		
	4,80		•																							•			•		•	I
RTS 739 2S	4,80							•																		•				•		I
(13 739 23	4,80												•														•			•		Τ
	4,80																	•									•			•		T
	6,80		•																							•			•		•	T
TC 050 05	6,80							•																		•				•		T
RTS 850 2S	6,80												•														•			•		
	6,80																	•									•			•		Ť
	6,10		•																				•						•	П	•	Ť
	6,10								•														•							•		Ť
RTS 1012 2S	6,10												•										•							•		t
	6,10																	•		Н			•							•		t
	9,80			•															-	Н			•		H				•	-	•	t
	9,80								•														•							•		t
TS 1200 2S	9,80			-	-				H		-			•				Н	-	Н			H		•	-				•		t
	9,80													-					•						•					•		t
	5,10				•														Ť	Н				H	•				•	Ť	•	t
	5,10				<u> </u>					•															•				Ť	•	Ť	t
RTS 1355 2S			_	-	-		-		-	<u> </u>	-	-		•	_			Н	-	Н				-	•	-	_	-	-	•		+
	5,10													_					•						•	-				•		+
	5,10		-	-			-		-		-	-			_				•	Н					•	-		-	•	Ť	•	+
	7,00				•																				•				•		-	1
TS 1500 2S	7,00									•	-	-		•		-		\vdash	_	\vdash				-	•	-		-	-	•	-	+
	7,00													•					_						-					-		+
	7,00		-	H	_		-		-		-	-			H	-		\vdash	•					_	•		-	-	_	•	_	-
	7,20				•					-														•				-	•	-	•	4
TS 1850 2S	7,20									•					_				_					•						•		+
	7,20														•									•						•		1
	7,20																			•				•						•		J

HOT AIR GENERATORS

Description	Back-pressure			_	_	_		0il I	bur	ner					_		ual	Fue	el bi	urne	r		Burner		Bui	rner	flar	nge		Cor	ntrol	pan	els
	in combustion chamber	١	/ello	ow	flar	ne	(Sta	nda	ard)		Blue	flame N0x)	(Low)	Yello (Sta	w f		е			e flan w N0x		accessory										
	(mbar)	Tv	vo s	tac	76	_		ula	ting	7	Two		ılating	Tw			aru,		Mo		ting	<u> </u>											
			_		_	_			al c	_	stage -		anical	-	-						al can	n											
												Ci	am																_		ť		
		RL 50 TC	RL 100 TC	RL 130 TC	RL 190 TC	RL 38/M TC	RL 50/M TC	RL 100/M TC	RL 130/M TC	RL 190/M TC	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	RLS 50	RLS 70	RLS 100	RLS 190/M MZ	RLS 250/M MZ	RLS 68/M MX TC	RLS 120/M MX TC	RLS 160/M MX TC	RLS 310/M MX	RWF 50.2	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit					
				_	3475613 R	20166497 R	20166502 R	20166481 R	20166486 R	20166490 R	20027567 R	20169338 R	20169330 R	20147805 R	20147798 R	20147799 R	20159361 R	20145372 R	20147784 R	20147786 R	20147789 R	20147806 R	20082208 R	20043900 B	20047680 B	20065920 B	4031188 B	4031196 B	4031395 B	20010820 R	4031069 R	40310 <i>6</i> 7 Tr	20013035
	3,70	•	m	m	m	7	7	7	7	7	- 7	- 7	N	7	7	7	7	7	7	7	- 7	7	7	7	7	7	-1	-7	•	•	7	•	-
	3,70					•																							•		•		•
RTS 410 2S	3,70				П		П		П	П	•																•			•		•	_
	3,70				П				П					•															•	•		•	_
	3,70																		•				•							•		•	_
	2,20	•			П		П		П	Ħ																	П		•	•		•	_
	2,20				П		•		П	Ħ																	П		•		•		•
RTS 526 2S	2,20				П		П		П			•															П	•			•		•
	2,20								П						•												•			•		•	_
	2,20								П										•				•							•		•	_
	4,80		•																								•			•		•	
	4,80							•																			•				•		•
RTS 739 2S	4,80								П				•															•			•		•
	4,80								П						•												•			•		•	_
	4,80																		•				•							•		•	
	6,80		•						П																		•			•		•	_
	6,80							•	П																		•				•		•
RTS 850 2S	6,80								П							•												•		•		•	_
	6,80								П											•			•							•		•	_
	6,10		•						П															•						•		•	_
	6,10							•																•							•		•
RTS 1012 2S	6,10															•								•						•		•	_
	6,10				П				П											•			•							•		•	_
	9,80			•		Т		П	П															•						•		•	_
	9,80				П		П		•															•							•		•
RTS 1200 2S	9,80								П								•						•			•				•		•	
	9,80								П												•		•							•		•	
	5,10			•	П				П															•						•		•	_
	5,10					П			•															•							•		•
RTS 1355 2S	5,10					П			П	П							•						•			•				•		•	_
	5,10					П			П	П											•		•							•		•	_
	7,00	П			•		П		П	П																•				•		•	_
	7,00								П	•																•					•		•
RTS 1500 2S	7,00								П								•						•			•				•		•	_
	7,00								П												•		•							•		•	_
	7,20				•				П																•					•		•	_
	7,20				П				П	•															•						•		•
RTS 1850 2S	7,20				П				П	П								•					•		•					•		•	_
	7,20				П				П	\Box												•	•				П			•		•	_

RECOMMENDED COMBINATIONS WITH BURNERS - EXTRA EU COUNTRIES

Description	Back-pressure							as b										Bui	rner	fla	nge			Cor	ntro	l par	els
	in combustion chamber						ow f		e (St	tanc																	
	(mbar)		ne age		T	wo	stag	e			М	odu	latir	ng													
		-	-				-				Mec	han	ical	can	1												
																								Ф	a Comfort	er it	ion kit
		RS 34/1 MZ TC	RS 44/1 MZ TC	RS 100 TC	RS 130 TC	RS 190 TC	RS 44 MZ TC	RS 50 TC	RS5D	RS 100/M TC	RS 130/M TC	RS 190/M TC	RS 34/M MZ TC	RS 44/M MZ TC	RS 50/M MZ TC	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit							
		3788510	3788610	3785302	3785502	3785813	3789110	3784702	3762016	3789710	3789810	3787623	3788710	3788810	3781622	20043900	20047680	20065920	4031186	4031188	4031192	4031198	4031395	20010820	4031069	4031067	20013035
	3,00	•																				•		•			
RTS 247 2S	3,00								•										•					•		•	
	3,00												•									•			•		•
	2,40	•																			•			•			
RTS 319 2S	2,40						•														•			•		•	
	2,40												•									•			•		•
	3,70		•																				•	•			
RTS 410 2S	3,70						•																•	•		•	
	3,70													•									•		•		•
RTS 526 2S	2,20							•															•	•		•	
N13 520 23	2,20														•								•		•		•
RTS 739 2S	4,80			•																•				•		•	
759 25	4,80									•										•					•		•
RTS 850 2S	6,80			•																•				•		•	
R13 030 23	6,80									•										•					•		•
DTC 4042 2C	6,10			•												•								•		•	
RTS 1012 2S	6,10										•					•									•		•
DTC 4200 2C	9,80				•											•								•		•	
RTS 1200 2S	9,80										•					•									•		•
PTC 40FF OC	5,10					•												•						•		•	
RTS 1355 2S	5,10											•						•							•		•
DTC 1500 3C	7,00					•												•						•		•	
RTS 1500 2S	7,00											•						•							•		•
DTC 10E0 3C	7,20					•											•							•		•	
RTS 1850 2S	7,20											•					•								•		•

	in combustion chamber (mbar)											urn	CI															nge					1110	ı pai	ıels
									Blu	e fl	ame	(Lo	w N	10x)																					
	, ,		ne age	Tv								М	odu	latii	ng																				
		310	-	sta -	-			Me	cha	nica	al ca	am				EI	ectr	oni	с са	m	_														
																																	Comfort		n kit
		BS3	BS4	BS3D	BS4D	BS3/M	BS4/M	RS 120/M BLU TC	RS 160/M BLU TC	RS 200/M BLU TC	RS 25/M BLU TC	RS 35/M BLU TC	RS 45/M BLU TC	RS 68/M BLU TC	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 25/E BLU	RS 35/E BLU	RS 45/E BLU	RS 68/E BLU	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit									
		3761316	3761416	3761716	3761816	3762350	3762450	3897606	3788006	3899710	3910510	3910610	3897306	3897406	3897632	3788032	3899810	3910710	3910810	3897332	3897432	20043899	20043900	20047680	20065920	4031186	4031192	4031196	4031198	4031395	20184817	20010820	4031069	4031067	20013035
	1,20	•																				•										•			<u> </u>
RTS 115 2S	1,20			•																		•									_	•	_	•	Ļ
	1,20		-			•					_											•											•		•
PTC 450 2C	1,60	•		•																											•	•		•	_
RTS 150 2S	1,60		-	•			•																			•					•	•	•	•	•
	-		•				Ť																			•	H	H				•	•		<u> </u>
	1,80		Ť		•			_													Н			_		•					-	•		•	-
RTS 200 2S	1,80				_						•															Ť			•			-	•	-	•
	1,80										Ť							•											•				•		•
	3,00										•																		•				•		•
RTS 247 2S	3,00																	•											•				•		•
	2,40											•															•						•		•
RTS 319 2S	2,40																		•								•						•		•
PTC 140 2C	3,70												•																	•			•		•
RTS 410 2S	3,70																			•										•			•		•
RTS 526 2S	2,20													•														•					•		•
	2,20																				•							•					•		•
RTS 739 2S	4,80							•																				•					•		•
	4,80														•													•					•		•
RTS 850 2S	6,80							•																				•					•		•
	6,80														•													•					•		•
RTS 1012 2S	6,10							•													Щ		•										•		•
	6,10														•								•										•		•
RTS 1200 2S	9,80								•																•								•		•
	9,80								_							•									•		_	_				L	•		•
RTS 1355 2S	5,10								•																•								•		•
	5,10								_							•									•								•		•
RTS 1500 2S	7,00								•							_									•								•		•
	7,00									_						•								•	•								•		•
RTS 1850 2S	7,20	_	-							•							•				Н			•			-	H			-	H	•		•

Description	Back-pressure in combustion							\/-		61		- (6				ırne	er					_		£1-	_	/1	NO.			_	Bu	rne	r fl	ang	ge	_					ntrol inels	
	chamber (mbar)	_	ne :	sta	σe			Ye		_	am stag	_	tan	aar	a)		Mc	- du	lati	inσ	_	_	wo :		_	(Low	NUX) lating															
	(induity				ge						_	3e				М	_	_	ical	_	m	- 14		-		Mech	anical im															
		RG3	RG4S	RG5S	RL 34/1 MZ TC	RG3D	RG4D	RG5D	RL 100 TC	RL 130 TC	RL 190 TC	RL 34 MZ TC	RL 44 MZ TC	RL 50 TC	RL 64 MZ TC	RL 100/M TC	RL 130/M TC	RL 190/M TC	RL 28/M TC	RL 38/M TC	RL 50/M TC	BG7.1D	RL 22 BLU	. 32 BLU	RL 42 BLU	.55/M BLU	RL 85/M BLU	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner	3-point modulation kit										
		3739300 RG	3739650 RG	3739950 RC	П	3739450 RG	3739750 RG	3739850 RG	П	3475432 RI	Т	Т	П	3474632 RL	3470410 RI	-	20166486 RL	20166490 RI	20166492 RI	20166497 RL		20015696 BG	-	20027481 RL	20027567 RL	20169338 RL	20169330 RL	-	_	-	0					_	4031395 Bu	20184817 Bu	20010820 Ri	4031069 Ri	4031067 Tw	20013035 3-
	1,20	•																										•					Ì				Ť		•	Ť		Т
RTS 115 2S	1,20				П	•																						•											•		•	Т
	1,20				П																	•						•											•		•	Г
	1,60	Г	•																																			•	•	Г		Г
RTS 150 2S	1,60				П		•																															•	•		•	Г
	1,60																						•													•			•		•	Г
	1,80			•																												•							•			
RTS 200 2S	1,80							•																								•							•		•	П
K13 200 23	1,80																		•																	•				•		•
	1,80																						•													•			•		•	
	3,00				•																															•			•			
RTS 247 2S	3,00											•																								•			•		•	
	3,00																		•																	•				•		•
	3,00				Ш																			•												•			•		•	
	2,40												•																					•					•		•	
RTS 319 2S	2,40																		•															•						•		•
	2,40				Ш																			•				Ш						•					•		•	
	3,70														•																		•						•		•	L
RTS 410 2S	3,70																			•																	•			•		•
	3,70				Ш																				•			Ш					•						•		•	_
	2,20													•																							•		•		•	L
RTS 526 2S	2,20																				•																•			•		•
	2,20																									•							_		•				L	•		•
	4,80								•			H				_																_	•		-	_			•	L	•	L
RTS 739 2S	4,80				Н				H			H				•																-	•		_	_				•		•
	4,80	L			Н																						•					-	_		•	_				•	_	•
RTS 850 2S	6,80				Н				•							_			L			_	-										•		-	_			•	_	•	Ļ
	6,80				Н			H				H	H			•							H		H			Н	_			-	•	-	-	_				•		•
RTS 1012 2S	6,10	H			Н				•			H				•												Н	•			-	-	-		_			•	•	•	•
	6,10				Н					•						•		_	H			_	-					H	•			-	-		-	_			•	•	•	Ť
RTS 1200 2S	9,80	H		H	Н			H	H	•	H	H	H				•		H	H		H	\vdash		H			Н	•			-	-	+	+	-	H		_	•	-	•
	9,80 5,10				H					•		H					_								H			Н	•			-	+			-			•	ľ	•	Ť
RTS 1355 2S	5,10				H					•		H					•											Н	•			-	+			-			-	•	-	•
					H						•	H					_											Н	_		•	-	-			-			•	ľ	•	Ť
RTS 1500 2S	7,00				H						-	H						•										Н			•	-	-			-			-	•	-	•
	7,00				Н						•	H						_					\vdash					Н		•	-	-	-			-			•	ř	•	Ť
RTS 1850 2S		H			Н				H		-	H	H					•					\vdash		H			Н	_	•		-	+	-	+	-			-	•	-	•
	7,20																	•												•										•		_

Description	Back-pressure						Di	ual fue	Ιbι	ırne	r						_	Bui	ner	flar	nge				ntrol
	in combustion chamber		Yell	ow 1	lam	e (S	standa	rd)		ВІ	ue f	lam	e (Lo	ow N0x	:)									par	nels
	(mbar)		Tvv	o st	age			lating		Tw	o st	age		Modul	lating										
				-				anical im			-			Mecha ca			_								
		3 28	38	2 50	2 70	RLS 100	RLS 190/M MZ	RLS 250/M MZ	2 28	38	2 50	2 20	RLS 100	RLS 190/M MZ	RLS 250/M MZ	Burner flange	Riellotech Prime	Two stage burner management kit							
		20147897 RLS	20147803 RLS	20147805 RLS	20147798 RLS	20147799 RLS	20159361 RLS	20145372 RLS	20147897 RLS	20147803 RLS	20147805 RLS	20147798 RLS	20147799 RLS	20159361 RLS	20145372 RLS	20043900 Bu	20047680 Bu	20065920 Bu	4031188 Bu	4031192 Bu	4031196 Bu	4031198 Bu	4031395 Bu	20010820 Rie	4031067 Tw
RTS 150 2S	1,60	•																			П	•		•	•
KIS 150 25	1,60								•													•		•	•
RTS 200 2S	1,80	•																				•		•	•
K13 200 23	1,80								•													•		•	•
DTC 21.7 2C	3,00	•																				•		•	•
RTS 247 2S	3,00								•												П	•		•	•
DTC 240 25	2,40		•																	•	П			•	•
RTS 319 2S	2,40									•										•	П			•	•
PTC 440 25	3,70			•																	П		•	•	•
RTS 410 2S	3,70										•										П		•	•	•
DTC FOC OC	2,20				•														•					•	•
RTS 526 2S	2,20											•							•		П			•	•
	4,80				•														•		П			•	•
RTS 739 2S	4,80											•							•		П			•	•
PTC OF O OC	6,80					•															•			•	•
RTS 850 2S	6,80												•							П	•			•	•
	6,10					•										•			П	П	П			•	•
RTS 1012 2S	6,10												•			•			П	П	П			•	•
	9,80						•											•	П	П	П			•	•
RTS 1200 2S	9,80													•				•	П	П	П			•	•
	5,10						•											•	П	П	П			•	•
RTS 1355 2S	5,10													•				•			П		П	•	•
	7,00						•											•		П	П		П	•	•
RTS 1500 2S	7,00													•				•		П	П		П	•	•
	7,20							•									•				П			•	•
RTS 1850 2S	7,20														•		•							•	•

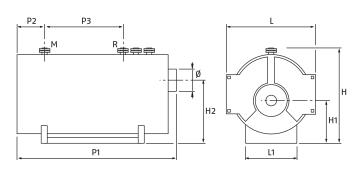
WATER-HEATERS

RIELLO

Three flue gas passes steel jet burner boilers

RTG







- Heating only
- Steel heating body
- Chimney with triple fume path

Description	L	Н	P1	L1	H1	H2	P2	P3	Ø	Net w	eight kg
	mm	mm	5 bar	8bar							
RTG 1000	1580	1930	3240	1100	790	1250	640	1300	400	3320	3720
RTG 1200	1580	1930	3490	1100	790	1250	640	1550	400	3550	3990
RTG 1500	1800	2200	3650	1250	915	1450	720	1400	450	4700	5220
RTG 1800	1800	2200	3900	1250	915	1450	720	1650	450	4950	5500
RTG 2100	1930	2330	4510	1250	960	1530	830	1970	500	5700	6450
RTG 2600	2050	2450	4510	1310	995	1650	830	1970	500	7110	8120
RTG 3000	2050	2460	4960	1310	995	1650	830	2420	500	7650	8750
RTG 3500	2260	2660	5100	1500	1070	1780	860	2450	600	9250	10400
RTG 4000	2260	2660	5550	1500	1070	1780	860	2800	600	10050	11350
RTG 4300	2260	2660	5550	1500	1070	1780	860	2800	600	10200	11500
RTG 5000	2500	2950	6070	1620	1225	1955	922	3000	700	13300	14950
RTG 6000	2500	2950	6570	1620	1225	1955	922	3450	700	14200	5950
RTG 7500	2750	3200	7020	1800	1305	2110	1022	3600	800	19200	19950
RTG 9000	2910	3360	7320	1900	1355	2210	1022	3900	900	23000	23500

Monobloc steel boilers with possibility of using gas or oil burners. They are equipped with pressurized furnace with three actual fume paths, passing flame and horizontal development mounted on steel base. The exterior of the body is equipped with hydraulic connections, rings for lifting rods, handrails and manhole (models from 5000 to 9000).

The particular geometry of the heat exchanger allows reducing the presence of fumes in the high temperature zones, thus reducing the formation of N0x. Front access is ensured by two doors insulated with refractory materials and a containment braid. The fume box is equipped with condensate drain and doors for easy cleaning and maintenance.

The body is thermally insulated with high density stone wool and protected by an aluminium sheet.

These boilers are available in 14 models with useful output from 1,165 to 10,560 kW.

The optional control panel must be ordered separately.

- High point yields and intermediate seasons
- Reduced polluting emissions
- Robust construction
- Can be combined with Riello monobloc burners
- Easy to transport (lifting rings)
- Easy maintenance: front access to the combustion chamber, fume tubes, fume chamber and inside the body
- Easy to assemble: easy coupling and standardised connections
- Installation flexibility: a number of installation solutions is possible by combining Riello burners.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn (80°-60 °C)	Efficiency (30% Pn) %	Code
RTG 1000	1165	1260	92,5	93,0	4031883
RTG 1200	1410	1522	92,7	93,2	4031885
RTG 1500	1760	1902	92,6	93,1	4031401
RTG 1800	2040	2210	92,3	92,9	4031887
RTG 2100	2510	2710	92,6	93,4	4031403
RTG 2600	3020	3260	92,7	93,1	4031405
RTG 3000	3520	3810	92,4	92,8	4031407
RTG 3500	4090	4420	92,5	93,2	4031409
RTG 4000	4680	5050	92,7	93,3	4031411
RTG 4300	5030	5450	92,3	92,8	4031889
RTG 5000	5830	6310	92,4	93,0	4031413
RTG 6000	7020	7590	92,5	93,1	4031415
RTG 7500	8760	9460	92,6	93,2	4031417
RTG 9000	10560	11400	92,6	93,2	4031419

The product codes above refer to 5-bar models. Maximum operating pressure 5 bar (8 bar on request).

CONTROL PANELS

Description	Installation	Code	Boiler model
RIELLOtech CLIMA COMFORT	Vertical	4031069	All models
RIELLOtech PRIME	Vertical	20010820	All models
RIELLOtech PRIME ACS	Vertical	20010437	All models

Climate management with RIELLOtech Clima Comfort.
Thermostatic management with RIELLOtech PRIME.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 323.

RECOMMENDED COMBINATIONS WITH BURNERS

Description	Back-pressure in combustion			/- !!		la:	- 1-	her :	de: '	`				Gas	bu	rner		de:	£1 -		le:	N/C							Cor	ntro	l pan
	chamber (mbar)	Τv		Yello	ow f	lam	e (S	tano	dard)					Мос	dula		lue	flan	ne (Low	NOx	()								
	(age								och:	nic	al c										Flor	rtro	nic	cam					
			-							IME	ecna	inic	di Co	3111									Eie	LITO	IIIC	Cam				ť	
		RS 130 TC	RS 190 TC	RS 190/M TC	RS 250/M MZ TC	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 510/M MZ FS1	RS 610/M MZ FS1	RS 1000/M C01	RS 1200/M C01	RS 160/M BLU TC	RS 200/M BLU TC	RS 310/M BLU FS1	RS 410/M BLU FS1	RS 510/M BLU FS1	RS 610/M BLU FS1	RS 810/M BLU FS1	RS 1000/M BLU	RS 1200/M BLU	RS 160/E BLU	RS 200/E BLU	RS 310/E BLU FS1	RS 410/E BLU FS1	RS 510/E BLU FS1	RS 610/E BLU FS1	RS 810/E BLU FS1	RS 1000/E BLU	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit
		3785502 R	3785813 R			20068351 R	20068361 R	20068027 R	20066706 R	20145938 R	20145936 R	3788006 R	3899710 R	20067964 R	20069841 R	20069845 R	20069847 R	20155846 R	20145840 R	20145867 R	3788032 R	3899810 R	20065783 R	20056927 R	20056930 R	20056932 R	20160126 R	20057514 R	20010820 R	4031069 R	4031067 T
	4,5	•																											•		•
RTG 1000	4,5											•																		•	
	4,5																	Ш			•	L			L	_				•	Ш
	6,6		•		_													Ш					_	_		_		_	•	_	•
RTG 1200	6,6			•														Щ	Щ											•	
	6,6						_					•			_			Ш		Щ		Ш			_					•	Ш
	6,6	_	_				_	_		_	_			_	_			_	_	_	•				_					•	
	5,3	_	•	_	-	_	-		-	_	_	_	_	_	-	-		ш	_	_		_				-	_		•	_	•
RTG 1500	5,3	_		•	-		-	-							-			_	_	_	_		_				_			•	
	5,3							-		H	H		•	-				_	_	_	_		_	_				_		•	-
	5,3	_	_					_	-	-	H	-		-		-	_	_	_	_	_	•	_	_	_	-	_	_	_	•	
	5,6	_	•	_	-	-	-	-	-	_	_	-	-	_	-	-		Ш	_	_	_	_	_			-	_		•	_	•
RTG 1800	5,6			•				-						_				Ш	_		_		_	L				L		•	
	5,6	_			-	_	-		-	_	_	_	_	•	-	-		_	_	_		_	_			-	_		-	•	
	5,6	_	-	-			-	-	-	H	-	-		H	-	-	-	Н	_	_	_	_	•	_	-	-	_	_		•	
DTC 2400	5,6	_	-		•			-		H	H			•			H	Н	_	_	_		-	H			-	H		•	
RTG 2100	5,6	_	-		-		-	-	-	-	-			-	-	-		-	_	_	_		•			-	_			•	
	5,6	_	_	_	-	•	-	-	-	-	-			-	-	-		-	_	_	_	-	Ť		_	-	_			•	
RTG 2600	5,5					-			-	H	H			H	•	-	H	H	_	_	_		-	H		-	-	H		•	
KIG 2000	5,5	_			-		-	-	-	H	-			H	Ť	-		Н	_	_	_		-	•		┈	-	H		•	
	5,5 7,7	_					•			H	H			H				\vdash	_	_				Ť						•	
RTG 3000	7,7	_					H								•			\vdash	_	_							_			•	
															Ť			Н	_	_				•						•	
	7,7 5,4							•										Н	\vdash	Н				Ť						•	H
RTG 3500	5,4	_			-		-	Ė	-							•		Н	-	_	-	Н				-	_			•	\vdash
	5,4																	Н		-	-				•	-	_			•	\vdash
	7,0								•									Н		-						\vdash				•	
RTG 4000	7,0																•		_											•	
	7,0	Н																	_	_						•				•	
	8,2								•							_		_	_											•	
RTG 4300	8,2																	•	_											•	
	8,2																	П									•			•	\Box
	5,6	П								•								П		П		П								•	\Box
RTG 5000	5,6																	•												•	\Box
	5,6																П	П				П					•			•	
	8,4	П			Т					•								П		П		П				Т	П			•	
RTG 6000	8,4																	П	•			П								•	
	8,4																П	П				П						•		•	\Box
	8,1										•							П				П								•	
RTG 7500	8,1																	-	_	•										•	

Description	Back-pressure			0il bı	ırner					Dι	ıal fu	iel bi	ırner	-				Со	ntrol	l pan	els
	in combustion chamber		Yello	ow fla	ame (S	tandar	d)														
	(mbar)	Tw	o sta	age	Modu	ılating	Two stage				٨	1odu	latin	g							
			-			anical	-				Med	chan	ical c	am							
					Ca	am		_										<u> </u>			
		RL 130 TC	RL 190 TC	RL 250 MZ TC	RL 130/M TC	RL 190/M TC	RLS 130	RLS 190/M MZ	RLS 250/M MZ	RLS 160/M MX TC	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	RLS 610/M MX	RLS 800/M MX	RLS 1000/M C13	RLS 1200/M C13	Riellotech Clima Comfort	Riellotech Prime	Two stage burner management kit	3-point modulation kit
		3475432	3475613	3470010	20166486	20166490	20147800	20159361	20145372	20147789	20147806	20147809	20147812	20147813	20147802	20147815	20147814	4031069	20010820	4031067	20013035
	4,5	•																•		•	
RTG 1000	4,5				•														•		•
KIG 1000	4,5						•											•		•	
	4,5									•								•		•	
	6,6	•																•		•	
RTG 1200	6,6				•														•		•
KIG 1200	6,6							•										•		•	
	6,6									•								•		•	
	5,3		•															•		•	
PTG 1500	5,3					•													•		•
RTG 1500	5,3							•										•		•	
	5,3										•							•		•	
	5,6		•															•		•	
RTG 1800	5,6					•													•		•
KIG 1800	5,6								•									•		•	
	5,6										•							•		•	
PTC 2400	5,6			•														•		•	
RTG 2100	5,6										•							•		•	
RTG 2600	5,5											•						•		•	
RTG 3000	7,7												•					•		•	
RTG 3500	5,4												•					•		•	
RTG 4000	7,0													•				•		•	
RTG 4300	8,2													•				•		•	
RTG 5000	5,6														•			•		•	
RTG 6000	8,4															•		•		•	
RTG 7500	8,1																•	•		•	
RTG 9000	8,7																	•		•	

110

RIELLO

Two flue gas passes steel jet burner boilers

RTQ 3S

L1

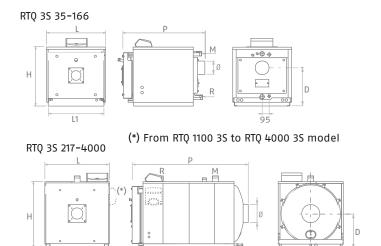
M = flow R = return

Products up to 400 kW only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.





- Single-piece steel boilers
- Provided with completely wet combustion chamber with free dilation and flame-inversion (square range)



Description	H mm	L mm	P mm	L1 mm	D mm	M Ø	R Ø	ø mm	Net weight kg
RTQ 35 3S	605	605	880	560	310	1" 1/4	1" 1/4	139	137
RTQ 55 3S	605	605	1030	560	310	1" 1/4	1" 1/4	139	160
RTQ 70 3S	740	705	970	660	384	1" 1/2	1" 1/2	179	199
RTQ 91 3S	740	705	1120	660	384	1" 1/2	1" 1/2	179	225
RTQ 115 3S	905	805	1230	753	500	G2"	G2"	180	283
RTQ 166 3S	955	853	1405	803	525	G2"	G2"	180	355
RTQ 217 3S	1060	925	1580	875	525	G2"½	G2"½	200	455
RTQ 255 3S	1060	925	1580	875	525	G2"½	G2"½	200	473
RTQ 318 3S	1110	975	1810	925	550	G2"½	G2"½	250	610
RTQ 349 3S	1110	975	1810	925	550	G2"½	G2"½	250	610
RTQ 448 3S	1275	1150	2140	1100	655	DN80	DN80	300	970
RTQ 511 3S	1275	1150	2140	1100	655	DN80	DN80	300	970
RTQ 575 3S	1385	1220	2410	1170	690	DN100	DN100	300	1189
RTQ 639 3S	1385	1220	2410	1170	690	DN100	DN100	300	1189
RTQ 766 3S	1440	1285	2550	1235	715	DN100	DN100	350	1406
RTQ 896 3S	1530	1360	2865	1310	755	DN125	DN125	400	1817
RTQ 1100 3S	1630	1450	3130	1400	820	DN125	DN125	400	2280
RTQ 1300 3S	1725	1535	3155	1485	865	DN125	DN125	450	2780
RTQ 1600 3S	1822	1610	3235	1555	900	DN150	DN150	500	3160
RTQ 2100 3S	1972	1715	3515	1660	1000	DN175	DN175	500	4170
RTQ 2400 3S	1972	1715	3515	1660	1000	DN175	DN175	500	4180
RTQ 2700 3S	2090	1865	3560	1895	1050	DN175	DN175	500	4826
RTQ 3000 3S	2162	1935	3670	1885	1080	DN175	DN175	500	5346
RTQ 3500 3S	2240	2040	4010	1990	1155	DN200	DN200	550	6195
RTQ 4000 3S	2270	2070	4260	2020	1170	DN200	DN200	600	6790



Provided with high-performance stainless steel turbulators ensuring wide exchange surface, in order to optimize the heat exchange and allow a homogeneous thermal load. The front door features an ambidextrous opening and is provided with a highly-insulating mineral-wool double seal. Casing is made of stove-enamelled sheet. The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 55 °C)
- Several solutions thanks to the combination with RIELLOtech control panels.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn (80°-60 °C)	Efficiency 30% Pn (80°-60 °C)	Notes	Code
RTQ 35 3S	33,8	34,8	94,2	95,9	(1)	20025617
RTQ 55 3S	53,2	55,0	93,8	95,5	(1)	20025618
RTQ 70 3S	67,8	69,0	94,2	95,9	(1)	20025619
RTQ 91 3S	87,1	90,0	94,2	95,9	(1)(2)	20024200
RTQ 115 3S	109,7	115,0	95,8	95,1	(1)(2)	4032606.0
RTQ 166 3S	158,7	166,0	95,6	95,6	(1)(2)	4032607.0
RTQ 217 3S	206,8	217,0	95,3	96,3	(1)(2)	4032608.0
RTQ 255 3S	243,3	255,0	95,8	96,5	(1)(2)	4032609.0
RTQ 318 3S	303,4	318,0	95,6	96,5	(1)(2)	4032610.0
RTQ 349 3S	332,0	348,0	95,4	96,7	(1)(2)	4032611.0
RTQ 448 3S	427,4	448,0	95,4	96,7		4032613.0
RTQ 511 3S	487,5	511,0	95,4	96,7		4032614.0
RTQ 575 3S	548,6	575,0	95,4	96,7		4032615.0
RTQ 639 3S	609,6	639,0	95,4	96,7		4032616.0
RTQ 766 3S	730,8	766,0	95,4	96,7		4032617.0
RTQ 896 3S	854,8	896,0	95,4	96,7		20008436
RTQ 1100 3S	1049,4	1100,0	95,4	96,7		20012427
RTQ 1300 3S	1240,2	1300,0	95,4	96,7		20008435
RTQ 1600 3S	1526,4	1600,0	95,4	96,7		20016656
RTQ 2100 3S	2003,4	2100,0	95,4	96,7		20016657
RTQ 2400 3S	2289,6	2400,0	95,4	96,7		20018817
RTQ 2700 3S	2576,0	2700,0	95,4	96,7		20106515
RTQ 3000 3S	2860,0	3000,0	95,4	96,7		20106514
RTQ 3500 3S	3339,0	3500,0	95,4	96,7		20107462
RTQ 4000 3S	3816,0	4000,0	95,4	96,7		20107467

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	4031395
Burner flange	20076596
Burner flange	20076618
Burner flange	4031198
Burner flange	4031391

CONTROL PANELS

Description	Installation	Boiler models	Code
RIELLOtech CLIMA COMFORT	Horizontal	RTQ 3S 90-2400	4031064
RIELLOtech CLIMA COMFORT	Vertical	RTQ 3S 448-4000	4031069
RIELLOtech PRIME	Horizontal / Vertical	All models	20010820
RIELLOtech PRIME ACS	Horizontal / Vertical	All models	20010437

Maximum operating pressure 5 bar for RTQ 35 3S - RTQ 766 3S models.

Maximum operating pressure 6 bar for RTQ 896 3S - RTQ 4000 3S models.

(1) Gas products and oil products (models 35, 55 and 70) are only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N.

Oil products are in conformity with ErP Directive (EU Regulation Nr. 813/2013).

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion								urn							Burner		ont	rol p	ane	ls
	chamber	_					ow f	lam	e (S1							. accessory					
	(mbar)	_	Т	wo :	stag	e		_		М	odu	latii	ng								
										Mec	han	ical	can	n					_		
		RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 190 TC	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 130/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	Extended head	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3789111	3784703	3785103	3785303	3785503	3785813	3781623	3789611	3789711	3789811	3787623	3788411	20068343	20068356	3010443	20010820	4031069	4031064	4031067	20013035
RTQ 448 3S	3,5	•															•			•	
MY 440 33	3,5							•											•		•
RTQ 511 3S	4,2		•														•			•	
	4,2							•											•		•
RTQ 575 3S	3,4			•													•			•	
	3,4								•										•		•
RTQ 639 3S	4,5			•													•			•	
	4,5								•										•		•
RTQ 766 3S	5,3				•												•			•	
	5,3									•									•		•
RTQ 896 3S	6,0				•												•			•	
	6,0									•									•		•
RTQ 1100 3S	3,3					•											•			•	
·	3,3										•								•		•
RTQ 1300 3S	5,3					•											•			•	
	5,3										•								•		•
RTQ 1600 3S	4,7						•									•	•			•	
	4,7											•				•			•		•
RTQ 2100 3S	5,1												•						•		•
RTQ 2400 3S	7,6													•					•		•
RTQ 2700 3S	8,0													•				•			•
RTQ 3000 3S	6,5													•				•			•
RTQ 3500 3S	7,1														•			•			•
RTQ 4000 3S	8,0														•			•			•

Description	Back-pressure in combustion					0il	bur	ner							Dι	ıal f	uel	burr	ner			Burner	B	urne		(ont	rol p	anel
	chamber						Ye	llow	fla	me	(Sta	nda	rd)						Blu (Lo	e fla w N	ame 0x)	accessory	"	ang	e				
	(mbar)		Т	wo	stag	e			Мос	dula	ting	3	1	wo	stag	ge		Мос	lula	ting									
					-			Ме	echa	nic	al c	am			-		Ме	cha	nic	al ca	am								
																											fort	fort	
																											Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit
																		2	J	J		ad	يە	e.	au_	Riellotech Prime	ima	ma	urne t kit
						١,,	IZ TC	卢	닏	ᆮ	≓	崖					RLS 190/M MZ	RLS 250/M MZ	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	Extended head	Burner flange	Burner flange	Burner flange	h Pr	i) U	i) Cl	je bu men
		10	그	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 MZ	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	05	2	00	130	1/061	250/	310/1	110/	510/1	nde	Jer f	ner f	Jer f	otec	otec	otec	stag Iage
		RL 50 TL	RL 70 TL	RL 10	RL 13	RL 19	RL 2	RL 5	RL 70	RL 10	RL 13	RL 19	RLS 50	RLS 70	RLS 100	RLS 130	RLS 1	RLS :	RLS	RLS 1	RLS	Exte	Burr	Burr	Burr	Riell	Riell	Riell	Two
		633	033	233	433	613	010	9204	9249	1849	2849	9231	7805	7798	7799	7800	9361	5372	9082	7809	7812	7869	395	6596	6618	0820	690	490	190
		3474633	3475033	3475233	3475433	3475613	3470010	20166504	20166476	20166484	20166487	20169231	20147805	20147798	20147799	20147800	20159361	20145372	20147806	20147809	20147812	20097869	4031395	20076596	20076618	20010820	4031069	4031064	4031067
	3,5	•	111				111	.,	.,	.,		1,4	-			1,4	.,	.,	.,	-	.,	.,,	7	.,	-	•	7	7	•
RTQ 448 3S	3,5							•															•					•	
	3,5												•									•				•			•
	4,2	•																								•			•
RTQ 511 3S	4,2				L	L		•	L														•					•	
	4,2													•												•			•
	3,4	•										-				-							•			•		_	•
RTQ 575 3S	3,4								•			-		•												•		•	•
	3,4 4,5		•											Ť												•			•
RTQ 639 3S	4,5								•																	Ě		•	
•	4,5													•												•			•
	5,3			•																						•			•
RTQ 766 3S	5,3									•																		•	
	5,3													•												•			•
	6,0			•																						•			•
RTQ 896 3S	6,0									•					_											_		•	
	6,0				•	H						-	H		•	-										•			•
RTQ 1100 3S	3,3	_			•						•															Ť		•	•
1100 33	3,3														•											•			•
	5,3				•																					•			•
RTQ 1300 3S	5,3										•																	•	
	5,3															•										•			•
	4,7					•																				•			•
RTQ 1600 3S	4,7											•																•	
	4,7						_					-				-	•									•			•
DTO 2400 25	5,1						•					•	H			-										•		•	•
RTQ 2100 3S	5,1 5,1	_										Ť						•								•		_	•
	7,6																	Ť								•			•
RTQ 2400 3S	7,6																											•	
	7,6																		•					•		•			•
	8,0																									•			•
RTQ 2700 3S	8,0																										•		
	8,0																		•					•		•			•
	6,5																									•			•
RTQ 3000 3S	6,5	_			_	_			_	_		-	_			-	_		_					_		_	•		
	6,5	_			\vdash	-		_	\vdash	-		-	\vdash		-	-	-		•		H			•		•	-		•
RTQ 3500 3S	7,1	-			-			-	-			-	H			-					H					Ť	•		-
,	7,1																			•					•	•			•
	8,0																									•			•
RTQ 4000 3S	8,0																										•		
	8,0																				•				•	•			•

RECOMMENDED COMBINATIONS WITH BURNERS - EXTRA EU COUNTRIES

Description	Back-pressure in combustion			-		-	Ye	llow	, fla	me			bur rd)	ner	-				Bli	ıe fl	ame	(Lo	w N	0x)	Burner accessory		irner essory		cont	rol p	pane	IS
	chamber (mbar)	_		Tvv	o sta	age					(5 ca		odu	latii	ng				-			_	o sta	_								
	(-			_						_				can	1			-	_		-	_	-0-								
		-										100		lear	Cun	_			-							-		+	L			Т
																													Riellotech Clima Comfort	Riellotech Clima Comfort		١,
																													Son	Con	_	:
									_							=	FS	FS1							pe	ad	ad	Riellotech Prime	ша	ша	Two stage burner	:
		ㄹ	ㄹ						1Z T	4Z T	17 TL	_	ㄹ	ㄹ	읻	MZ	MZ	MZ							he	he	he	٦Pr	G	G	nq a	; -
		RS 34 MZ TL	RS 44 MZ TL	=		RS 100 TL	岸	2	RS 34/M MZ TL	RS 44/M MZ TL	RS 50/M MZ	RS 70/M TL	RS 100/M TL	RS 130/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1							Extended head	Extended head	Extended head	tect	teck	teck	tage	,
		34	4	RS 50 TL	RS 70 TL	100	RS 130 TL	RS 190 TC	34/	4	200	20/	100	130	190	5 25	310	1410		BS2	BS3	BS1D	BS2D	BS3D	ten	rten	rten	ello	ello	ello	NO S	management nic
		87	82	82	82	82	82	82	82	82	82	- R	82	87	82	82	82	82	BS1	B3	BG	B3	B3	- B	<u> </u>	ũ	<u> </u>	~	~	~	≥ 5	
																	Ϋ́	99										0				L
		9011	1116	+703	5103	5303	5503	5813	3711	3811	623	9611	1116	9811	623	3411	189	683	158	258	316	558	658	716	3010443	1007	1000	1082	106	106	1067	0
		3789011	3789111	3784703	3785103	3785303	3785503	3785813	3788711	3788811	3781623	3789611	3789711	3789811	3787623	3788411	20068343	20068356	3761158	3761258	3761316	3761558	3761658	3761716	3010	3001007	3001009	20010820	4031069	4031064	4031067	300000
RTQ 35 3S	0,4																		•									•				I
	0,4																	-		_		•				_		•	-	_	•	H
RTQ 55 3S	0,9																			•						•		•	-	\vdash	_	L
	0,9																						•			•		•		\vdash	•	╀
RTQ 70 3S	0,6	_	-		-	-	-	_	-				H	_			-	-		•	_		H			•		•	-	\vdash	_	\perp
	0,6			-	-	-				-			Н				H	-					•			•	+-	•	-	\vdash	•	+
RTQ 91 3S	2,0	-		-	-	-	-		H				Н	-							•			•			•	•	-	\vdash	•	+
	2,0			-																	•			•			•	•	-	_	•	+
RTQ 115 3S	1,5			-	-	-				-							-				•			•		-	•	•	+	+	•	+
	1,3								H				Н				H				•			•			•	•	\vdash	\vdash	Ť	+
RTQ 166 3S	1,3												Н								Ť			•			•	•		\vdash	•	+
	2,2	•		-									Н										Н	_			+	•	-	+	•	+
RTQ 217 3S	2,2	Ť							•				Н															+	+	•	Ť	•
	2,8	•							Ť				Н										Н					•		Ť	•	Ť
RTQ 255 3S	2,8								•				Н															+	\vdash	•		•
	3,2	•											Н															•			•	+
RTQ 318 3S	3,2									•																				•		•
	3,9		•																									•			•	t
RTQ 349 3S	3,9									•																				•		•
	3,5		•																									•		\top	•	Т
RTQ 448 3S	3,5										•																			•		•
	4,2			•																								•			•	Т
RTQ 511 3S	4,2										•																			•		•
DTO EZE 2C	3,4				•																							•			•	
RTQ 575 3S	3,4											•																		•		•
RTQ 639 3S	4,5				•																							•			•	
KIQ 039 33	4,5											•																		•		•
RTQ 766 3S	5,3					•																						•			•	
	5,3												•																	•		•
RTQ 896 3S	6,0					•																	Ш					•		\perp	•	
	6,0												•																	•		•
RTQ 1100 3S	3,3						•																					•		\perp	•	
-	3,3													•														_	_	•		•
RTQ 1300 3S	5,3						•						Ш															•		_	•	L
	5,3			-										•														٠.	-	•	L.	•
RTQ 1600 3S	4,7							•					Н		-								Н		•	-	-	•	-	-	•	+
TO 240	4,7								_				H		•	_							Н		•	-	-	-	-	•		9
RTQ 2100 3S	5,1			-												•	_						Н			-		-	-	•		1
RTQ 2400 3S	7,6																•						Н			_			-	•		1
RTQ 2700 3S	8,0		-	-	-	-	-	_	_	_			H				•	-			_		Н			-		-	•	\vdash		1
RTQ 3000 3S	6,5	H	-	-	-	-		H	H	H		H	H	H		H	•				H	H	H				-	+	•	\vdash		1
RTQ 3500 3S	7,1			-	-								H					•	-				Н			-		-	•	\vdash	-	Ľ
RTQ 4000 3S	8,0																	•											•			Ŀ

Description	Back-pressure in combustion	F					_			Vell		oil b			da	۱۵۱		_							Ві	ırne	er ac	ces	sory	,		urne ang		Co	ontr	ol p	oanels
	chamber (mbar)	-	0n	e st	age		_			Yell	Two		_	oldf	ıudl	u)		_	- 1	40r	lula	ting		\dashv								_					
	(IIIDai)	-	-	_	иъс		-					_	80					_				al c		-													
		H				$\overline{}$			Т										Inc	CITA		ai c		+													
																																			Riellotech Clima Comfort	Riellotech Clima Comfort	
																																			Con	Con	Two stage burner management kit
																									g 3	7 2	g g	pe	ad	рe	au	au	au	Riellotech Prime	ma	ma	Two stage burner management kit
						MZ TL					<u>-</u>						7	_	_	_	_	닏	긛	ᅵ	he	1 G	he	he	he	he	ang	ang	ang	Pr.	Ē	Ë	nen.
		_				Σ				1	RL 54 M2 IL	<u> </u>		닏	卢	7	RL 250 MZ TC	RL 28/M TL	RL 38/M TL	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	Extended head	Burner flange	Burner flange	Burner flange	teck	teck	tech	tage gen					
		RG1NR	25	RG3	RG5S	RL 34/1	RG2KD	RG3D	RG4D	RG5D	RL 54 M2	RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	. 25(28/	38/	20/	70/	100	130	190	ten	בו בו	tel i	ten	ten	ten	ırne	ırne	ırne	ello	ello	ello	o s ana
		R S	RG2	ž	Σ.	꿉	<u> </u>	ž	~	2 2	2 0	<u> </u>	교	교	Ζ	곱	꿉	꿉	꿉	ᠴ	꿉	교	Ζ	Ζ	<u> </u>	ن د	ŭ	ŭ	ñ	ñ	B	В	Б	쮼	쮼	~	≥ E
																		r2	6	4	9	4	_		.									0		_	
		3736405	750	3739300	3739950	11	3738100	3739450	3739750	3739850	34,70311	3474633	3475033	3475233	3475433	3475613	010	20166495	20166499	20166504	20166476	20166484	20166487	20169231	3000964	6960006	3000969	3001068	3000981	3010426	4031198	4031395	391	20010820	4031069	4031064	4031067
		3736	3737750	3739	3739	3470111	3738	3739	3739	3739	34,70311	17.	3475	3475	3475	3475	3470010	910	910	910	910	910	016	016	000		000	3001	3000	3010	t031	1031	4031391	001	1031	1031	1031
RTQ 35 3S	0,4	•	111	111	111	111	111				11 11	1 111	111	111	111	111	111	14	14	14	14	14	14	14			_	111	111	111	7	7	7	•	7	7	7
4 22 22	0,9		•				Н		+	+	+	+	\vdash	\vdash				Н						+	•	+	+							•	Н		
RTQ 55 3S	0,9				Н	Н	•	\vdash	+	+	+	+	\vdash						Н			Н	\forall	+	+	+				Н				•	Н		•
RTQ 70 3S	0,6					Н	•	\dashv	+	+	+	+	+	\vdash								Н	\forall	+	+	+	+							•	Н		•
	2			•	H	H	H	\dashv	+	+	+	+	+	+	H			Н	H			Н	H	+	١,	,	+	\vdash			Н	Н		•	Н		
RTQ 91 3S	2					Н	Н	•	+	+	+	+	+	\vdash								Н	H	+	-	•	+				Н			•	Н		•
RTQ 115 3S	1,5				Н	H	Н	•	+	+	+	+	+	+	H			Н	Н			H	\forall	+	+	+	+	\vdash			Н	Н		•	H	Н	•
	1,3				•	H	Н	\dashv	+	+	+	+	+		\vdash			H	H			H	+	+	+	+	+	\vdash				Н		•	Н		
RTQ 166 3S	1,3	-			Ė	Н	Н	\dashv	•	+	+	+	+	+				Н	H			Н	H	+	+	+	•	\vdash		H	Н	Н	Н	•	Н	\vdash	•
(100 33	1,3					Н	Н	\dashv	+	+	+	+	+	\vdash				•				H	\dashv	+	+	+	+	\vdash		H	•			_	Н	•	Ť
	2,2				•	Н	Н	\dashv	+	+	+	+	+	\vdash				ŕ				Н	\dashv	+	+	+	+	•					•	•	Н	-	
RTQ 217 3S	2,2				-				+	•	+	+	+	\vdash										+	+	+	+	H	•					•	Н		•
MIQ 211 33	2,2	H					Н		+	+	+	+	╁	╁				•				Н	H	+	+	+	+	H	Ť		_		Ť	_	Н	•	
	2,8	H			•		Н	\vdash	+	+	+	+	+	+				_				Н	H	+	+	+	+	•			_		•	•	Н	Ť	
RTQ 255 3S	2,8				Ť		Н		+	٠,	•	+	+	+									Н	+	+	+	+	Ť		•			Ť	•	Н		•
NIQ 255 55	2,8								+	+	+	+		\vdash				•						+	+	+	+	-		_				_	Н	•	
	3,2	Н				•		\vdash	+	+	+	+	+	+				_				Н	H	+	+	+	+	\vdash			-			•	Н	Ť	
RTQ 318 3S	3,2	H				Ť	Н	\vdash	+	٠,	•	+	+	+				Н				Н	H	+	+	+	+	\vdash		•	_			•	Н	Н	•
110 23	3,2	H		H		Н	Н		+	+	+	+	+	╁	H	H		_	•	H		Н	\vdash	+	+	+	+	\vdash		Ě	-			Ť	Н	•	
	3,9					H	Н	\vdash	+	+	•	+	+	╁	H	H			Ě			H	\vdash	+	+	+	+	\vdash		H	_			•	Н	_	•
RTQ 349 3S	3,9	H					Н		+	+	Ť	+	+	╁		H			•			Н	H	+	+	+	+	\vdash			_			_	Н	•	
	3,5	H				Н	Н	H	+	+	+	•	+	+	H				Ť			Н	H	+	+	+	+	\vdash		Н	-			•	Н	Ť	•
RTQ 448 3S	3,5								+	+	+	Ť	+	\vdash						•				+	+	+	+					•		_	Н	•	
	4,2								+	+	+	•	+							Ė				+	+	+	+					-		•	Н		•
RTQ 511 3S	4,2	H				Н	Н		+	+	+	Ť	+	\vdash				Н		•		Н		+	+	+	+	\vdash		Н		•		Ť	Н	•	-
	3,4						Н	\vdash	+	+	+	•	+	+				Н		H		Н		+	+	+	+	\vdash				•		•	Н		•
RTQ 575 3S	3,4						Н		+	+	+	+	+	+							•			+	+	+	+	\vdash				_		_	Н	•	
	4,5						Н		+	_	+	+	•	+										+	+	+		\vdash						•	Н		•
RTQ 639 3S	4,5				H	Н	Н	H	+	+	+	+	Ť	+	\vdash			Н	H		•	Н	H	+	+	+	+	+		H	Н	Н		ŕ	Н	•	
	5,3					Н	Н	\dashv	+	+	+	+	+	•				Н			Ť	Н	\dashv	+	+	+	+				Н			•	Н	-	•
RTQ 766 3S	5,3					Н	Н	\dashv	+	+	+	+	+	Ť								•	\dashv	+	+	+	+				\vdash			ŕ	Н	•	
	6				Н	Н	Н	\vdash	+	+	+	+	+	•				Н	Н			H	+	+	+	+	+			Н				•	Н	-	•
RTQ 896 3S	6				Н	Н	Н	\dashv	+	+	+	+	+	Ť				Н	Н			•	\dashv	+	+	+	+				Н	Н		ŕ	Н	•	
	3,3				Н	Н	Н	\dashv	+	+	+	+	+	\vdash	•			Н	Н			ŕ	\dashv	+	+	+	+	\vdash		Н	Н	Н		•	Н	_	•
RTQ 1100 3S	3,3				Н	Н	Н	\vdash	+	+	+	+	+		ŕ			Н	Н			Н	•	+	+	+	+			Н	\vdash			H	Н	•	
	5,3						Н	\dashv	+	+	+	+	+	+	•			Н				Н	\dashv	+	+	+	+	-				Н		•	Н		•
RTQ 1300 3S	5,3				Н	Н	Н	\vdash	+	+	+	+	+	\vdash	Ť			Н	Н			Н	•	+	+	+	+			Н				Ĥ	Н	•	
	4,7				H	H	Н	H	+	+	+	+	+	+	\vdash	•		H	H	H		H	H	+	+	+	+	\vdash	H	H	Н			•	Н	-	•
RTQ 1600 3S	4,7				H	H	Н	\dashv	+	+	+	+	+	\vdash	\vdash	Ť		Н	H	H		H	\dashv	•	+	+	+	\vdash		H	\vdash			_	H	•	Ť
	5,1				H	H	Н	\dashv	+	+	+	+	+	+			•	H	H			H	\dashv	+	+	+	+	\vdash		H	\vdash	\vdash		•	H	-	•
RTQ 2100 3S		H	H		H	H	Н	\vdash	+	+	+	+	+	+	\vdash	H	Ť		H	H		Н	\vdash	•	+	+	+	\vdash	\vdash	H	\vdash			_	Н	•	
	5,1						ш																	-												•	

Description	Back-pressure						uel I	burr						urne					ntrol
	in combustion chamber					fla dar					e fla w N		aco	cess	ory	tiar	nge	pa	nels
	(mbar)		T\	wo s			,		Mod		ting								
				_				_			al ca								
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	Extended head	Extended head	Extended head	Burner flange	Burner flange	Riellotech Prime	Two stage burner management kit
		20147897	20147803	20147805	20147798	20147799	20147800	20159361	20145372	20147806	20147809	20147812	20097868	20097869	20097840	20076596	20076618	20010820	4031067
RTQ 217 3S	2,2	•													•			•	•
RTQ 255 3S	2,8	•													•			•	•
RTQ 318 3S	3,2		•										•					•	•
RTQ 349 3S	3,9		•										•		П			•	•
RTQ 448 3S	3,5			•										•				•	•
RTQ 511 3S	4,2				•													•	•
RTQ 575 3S	3,4				•													•	•
RTQ 639 3S	4,5				•													•	•
RTQ 766 3S	5,3				•													•	•
RTQ 896 3S	6,0					•												•	•
RTQ 1100 3S	3,3					•												•	•
RTQ 1300 3S	5,3						•											•	•
RTQ 1600 3S	4,7							•										•	•
RTQ 2100 3S	5,1								•									•	•
RTQ 2400 35	7,6									•						•		•	•
RTQ 2700 3S	8,0									•						•		•	•
RTQ 3000 3S	6,5									•						•		•	•
RTQ 3500 3S	7,1										•						•	•	•
RTQ 4000 3S	8,0											•					•	•	•



Two flue gas passes steel jet burner boilers

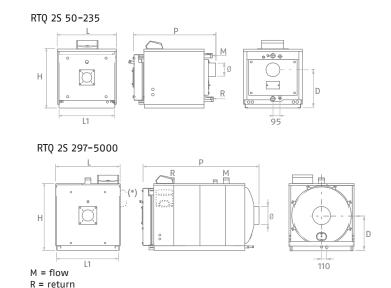
RTQ 2S

Products up to 400 kW only for replacement, till 1^{st} January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.





- Single-piece steel boilers, that can be matched with any fuel jet burners
- Provided with completely wet combustion chamber with free dilation and flame-inversion (square range).



Description	Н	L	L1	Р	D	ø	Net weight
	mm	mm	mm	mm	mm	mm	kg
RTQ 50 2S	605	605	560	885	325	139	127
RTQ 64 2S	605	605	560	1035	325	139	160
RTQ 82 2S	740	705	660	970	384	179	199
RTQ 105 2S	740	705	660	1120	384	179	225
RTQ 154 2S	790	805	753	1220	500	180	288
RTQ 203 2S	840	853	803	1400	525	180	382
RTQ 235 2S	840	853	803	1400	525	180	382
RTQ 297 2S	980	925	875	1550	525	200	458
RTQ 323 2S	980	925	875	1550	525	200	458
RTQ 357 2S	980	925	875	1550	525	200	478
RTQ 418 2S	1030	975	925	1770	550	250	630
RTQ 467 2S	1030	975	925	1770	550	250	630
RTQ 537 2S	1030	975	925	1945	550	250	731
RTQ 597 2S	1030	975	925	1945	550	250	726
RTQ 715 2S	1210	1150	1100	2115	655	300	953
RTQ 837 2S	1210	1150	1100	2210	655	300	1037
RTQ 920 2S	1280	1220	1170	2380	690	300	1237
RTQ 1020 2S	1335	1285	1235	2515	715	450	1530
RTQ 1250 2S	1430	1360	1310	2835	755	400	2257
RTQ 1500 2S	1530	1450	1400	2965	820	400	2570
RTQ 1700 2S	1610	1535	1485	3125	865	450	2841
RTQ 2020 2S	1680	1605	1555	3115	900	450	3340
RTQ 2320 2S	1750	1655	1605	3210	925	450	3725
RTQ 2620 2S	1925	1800	1750	3455	1015	450	4667
RTQ 2920 2S	1995	1865	1815	3560	1050	500	4826
RTQ 3200 2S	1996	1865	1815	3611	1050	500	4905
RTQ 3500 2S	2055	1935	1885	3670	1080	500	5346
RTQ 4000 2S	2140	2040	1990	4004	1155	550	6195
RTQ 4500 2S	2170	2070	2020	4254	1170	600	6790
RTO 5000 2S	2355	2230	2180	4521	1250	650	7965

WATER-HEATERS

RIELLO PRODUCT CATALOGUE

Pressurized steel boilers, that can be matched with any fuel jet burners. Provided with completely wet combustion chamber with free dilation and flame-inversion. Equipped with removable high-efficiency stainless steel turbulators ensuring an optimized heat exchange and a homogeneous thermal load.

The front door features an ambidextrous opening and is provided with a mineral-wool double seal. Casing is made of stoveenamelled sheet.

The control panel should be ordered separately.

- Operation at modulating temperature (minimum allowed return temperature 55 °C)
- Several solutions thanks to the combination with RIELLOtech control boards.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn (80°-60°C)	Efficiency 30% Pn (80°-60 °C)	Code
RTQ 50 2S	50	54,2	92,2	95,1	20136573
RTQ 64 2S	64	69,3	92,3	95,3	20136574
RTQ 82 2S	82	88,8	92,3	95,4	20136575
RTQ 105 2S	105	113,6	92,4	95,7	20136577
RTQ 154 2S	154	166	92,9	91,4	20136578
RTQ 203 2S	203	217	93,4	-	20136579
RTQ 235 2S	235	255	92,3	92,8	20136580
RTQ 297 2S	297	318	93,4	-	20136581
RTQ 323 2S	323	348	92,8	93,3	20136582
RTQ 357 2S	357	384	92,9	93,3	20136583
RTQ 418 2S	418	448	93,3	-	20136584
RTQ 467 2S	467	500	93,4	93,3	20136585
RTQ 537 2S	537	575	93,4	-	20136587
RTQ 597 2S	597	639	93,4	93,3	20136588
RTQ 715 2S	715	766	93,4	-	20136589
RTQ 837 2S	837	896	93,4	93,3	20136590
RTQ 920 2S	920	990	92,9	93	20136592
RTQ 1020 2S	1020	1100	92,7	92,9	20136594
RTQ 1250 2S	1250	1338	93,4	93,3	20136595
RTQ 1500 2S	1500	1606	93,4	93,3	20136598
RTQ 1700 2S	1700	1820	93,4	93,3	20136599
RTQ 2020 2S	2020	2162	93,4	93,3	20136600
RTQ 2320 2S	2320	2485	93,4	93,3	20136601
RTQ 2620 2S	2620	2830	92,5	92,8	20136602
RTQ 2920 2S	2920	3150	92,7	92,9	20136603
RTQ 3200 2S	3200	3450	92,7	92,9	20136605
RTQ 3500 2S	3500	3780	92,7	92,9	20136606
RTQ 4000 2S	4000	4315	92,7	92,9	20136607
RTQ 4500 2S	4500	4854	92,7	92,9	20136608
RTQ 5000 2S	5000	5394	92,7	92,9	20136609

Maximum operating pressure 6 bar for RTQ 2S 50 - 5000 models.

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	20043900
Burner flange	20047680
Burner flange	4031188
Burner flange	4031395
Burner flange	20076596
Burner flange	20076618
Burner flange	20067631
Burner flange	4031196
Burner flange	20043899
Burner flange	4031186
Burner flange	4031192
Burner flange	4031198

CONTROL PANELS

Description	Installation	Boiler models	Code
RIELLOtech CLIMA COMFORT	Horizontal	RTQ 2S 50-2620	4031064
RIELLOtech CLIMA COMFORT	Vertical	RTQ 2S 715-5000	4031069
RIELLOtech PRIME	Horizontal / Vertical	All models	20010820
RIELLOtech PRIME ACS	Horizontal / Vertical	All models	20010437

WATER-HEATERS

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion										burr											В	lurn	er fl	ang	ge		(ont	rol p	oane	ls
	chamber							Yell	ow 1	lam	ie (S	tan																				
	(mbar)	One stage			Tvv	o st	age							Мос	dula	ting	5															
		-				-							Мє	cha	nic	al ca	am															_
		2 TL	1							1Z TL	1Z TL		T.	-	2	MZ TL	MZ FS1	MZ FS1	MZ FS1	MZ FS1	ınge	Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	burner ent kit	3-noint modulation kit						
		RS 44/1 MZ TL	RS 44 MZ	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 150 TL	RS 190 TL	RS 44/M MZ TL	RS 50/M MZ	RS 70/M TL	RS 100/M TL	RS 150/M TL	RS 190/M TL	RS 250/M MZ	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 510/M MZ FS1	RS 610/M MZ FS1	Burner flange	Riellotech Prime	Riellotech	Riellotech	Two stage burner management kit	3-noint m						
		3788611	3789111	3784703	3785103	3785303	3785503	20044637	20030087	3788811	3781623	3789611	3789711	20044639	20052616	3788411	20068343	20068356	20068027	20066706	•				20067631	20010820	4031069	4031064	4031067	20013035		
	2,9	•																						•				•				
RTQ 418 2S	2,9		•																					•				•			•	
	2,9									•														•						•		•
RTQ 467 2S	3,3			•																				•				•			•	
KIŲ 407 23	3,3										•													•						•		•
DTO 527 20	3,0				•																		•					•			•	
RTQ 537 2S	3,0											•											•							•		•
RTQ 597 2S	5,1				•																		•					•			•	
KIŲ 591 23	5,1											•											•							•		•
DT0 74F 2C	4,7				•																		•					•			•	
RTQ 715 2S	4,7												•										•							•		•
RTQ 837 2S	8,1					•																	•					•			•	
NIQ 631 23	8,1												•										•							•		•
RTQ 920 2S	4,6					•																	•					•			•	
	4,6												•										•							•		•
RTQ 1020 2S	4,6					•															•							•			•	
	4,6												•								•									•		•
RTQ 1250 2S	5,8						•														•							•			•	
NIQ 1230 23	5,8													•							•									•		•
RTQ 1500 2S	5,4							•													•							•			•	
	5,4													•							•									•		•
RTQ 1700 2S	7,2								•													•						•			•	
	7,2														•							•								•		•
RTQ 2020 2S	4,8								•																		•	•			•	
	4,8														•												•			•		•
RTQ 2320 2S	4,2															•											•			•		•
RTQ 2620 2S	6,0																•				•					•		•				
RTQ 2920 2S	6,3																•				•				•			•				
RTQ 3200 2S	7,9																	•			•				•			•				
RTQ 3500 2S	7,9																	•							•				•			•
RTQ 4000 2S	7,7																		•							•			•			•
RTQ 4500 2S	8,0																			•						•			•			•
RTQ 5000 2S	7,9																			•						•			•			•

HOT AIR GENERATORS

Description	Back-pressure in combustion					0il	bur	ner							Dι	ual :	fuel	bur	ner			urn			В	urn	er fl	lang	ge		(ont	rol _l	oane	ls
	chamber	_							Yell			_	tan	dar								cess	Uly												
	(mbar)		T	wo	stag	ge			М	odu	ılatiı	ng			Tw	o st	age		_	llating	-														
									Mec	han	ical	can	n			-				anical am															
																																mfort	mfort		kit
		RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 MZ TC	RL 38/M TL	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	RLS 38	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	Extended head	Extended head	Extended head	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit						
		3474633	3475033	3475233	3475433	20011008	3470010	20166499	20166504	20166476	20166484	20166487	20169231	20147803	20147805	20147798	20147799	20147800	20159361	20145372	20097868	20097869	3010422	20043900	20047680	4031188	4031196	4031395	20076596	20067631	20010820	4031069	4031064	4031067	20013035
	2,9	•																								Ė		•			•		Ť	•	Т
RTQ 418 2S	2,9							•																				•					•		•
	2,9													•							•							•			•			•	
	3,3	•																										•			•			•	
RTQ 467 2S	3,3								•																			•					•		•
	3,3														•							•						•			•			•	
	3	•																										•			•			•	
RTQ 537 2S	3								•																			•					•		•
	3							_								•										•			_		•			•	-
	5,1		•			-	-	-		-																•					•		_	•	Ļ
RTQ 597 2S	5,1					-	-	-	-	•			-				-									•			-				•	_	•
	5,1															•										•					•			•	\vdash
RTQ 715 2S	4,7		•			-		-		•																•					•		•	•	•
KIQ 115 25	4,7			-	-	-	\vdash	-	-	Ť	-	-	-			•	-				-	-				•					•		Ť	•	Ť
	8,1			•		\vdash	\vdash	\vdash	H				H			Ť	H									•					•			•	\vdash
RTQ 837 2S	8,1			H							•															•							•		•
	8,1																•										•				•			•	\vdash
	4,6			•				Н	H				H				T									•					•			•	\vdash
RTQ 920 2S	4,6					Т					•															•							•		•
	4,6																•										•				•			•	Т
	4,6			•																				•							•			•	Т
RTQ 1020 2S	4,6										•													•									•		•
	4,6																•							•							•			•	
	5,8				•																			•							•			•	
RTQ 1250 2S	5,8											•												•									•		•
	5,8																	•						•							•			•	
	5,4					•																			•						•			•	
RTQ 1500 2S	5,4											•												•									•		•
	5,4						_												•						•						•			•	_
	7,2					•																			•						•			•	_
RTQ 1700 2S	7,2							-	-				•				-								•								•	_	•
	7,2					-													•						•						•			•	-
PT0 2000 00	4,8			-	-	•	-	-				-																	-	•	•		_	•	-
RTQ 2020 2S	4,8					-	-	-	-				•				-			•	H									•	_		•		•
	4,8						•													-			•							•	•			•	\vdash
RTQ 2320 2S	4,2			-			+	-				-						_			-		-	_						Ť	۲		•	<u> </u>	•
RTQ 2620 2S	6,0						•	\vdash																					•		•		Ť	•	Ť

RECOMMENDED COMBINATIONS WITH BURNERS - EXTRA EU COUNTRIES

Description	Back-pressure in combustion	_										as b	_								RI	ıe fla	me	-			Bui	ner	flar	nge				Con	itro	l pa	anel
	chamber (mbar)							Yel	low	flan	1e (Star	nda	rd)								ow No															
	(modify	0r sta			T	wo	sta	ge						Мо	dul	atin	g					e T															
			_				-						М	ech	ani	cal	am						-		_									_			
																F	الـ الر	5 5	F21	-S1				a	o.	a)	o)	a c		ı dı	- au	a	a)	ime	ma Comfort	ma Comfort	: : Kit
		RS 34/1 MZ TL	RS 44/1 MZ TL	RS 34 MZ TL	7 H	RS 70 TL	RS 100 TL	RS 130 TL	RS 150 TL	RS 190 TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 150/M TL	RS 190/M TL	RS 2507M MZ IL RS 3107M MZ ES1	RS 410/M M7 FS1	RS 510/M M7 FS1	RS 610/M MZ FS1	BS2	BS3 BS2D	BS3D	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	management kit									
		3788511	3788611	3789011	3784703	3785103	3785303	3785503	20044637	20030087	3788811	3781623	3789611	3789711	20044639	20052616	20068343	20002	200002	20066706	3761258	3761316	3761716	20043899	20043900	20047680	4031186	4031188	4031198	4031395	20076596	20076618	20067631	20010820	4031069	4031064	4031067
RTQ 50 2S	0,3			\blacksquare														I			•						4			F		\square	\vdash	•		1	\blacksquare
	0,3	Н	Н	+	+	+	H		Н	+	+			Н		+	+	+	+	+	•	•	+	Н		+	+	+	+	+	+	Н	\vdash	•	+	+	•
RTQ 64 2S	0,8	Н	H	+	+	+	H		H	+	+	+		H		+	+	+	+	+	Ť	•	+	Н		+	+	+	+	t	+	+	\vdash	•	+	+	•
	0,8		Н		+				Н	+	+			Н		+	+	t	+	+	Н	•	\vdash	•		1	+	+	+	+		Н	\vdash	•	+	+	+
RTQ 82 2S	0,8	Н	Н	+	\dagger				H	+	\top			Н		+	\dagger	$^{+}$	+	+	П	+	•			+	+	+	\dagger			\vdash	\vdash	•	+	+	•
	1,4	П							П					П				T	T		П	•		•				\top				П	П	•		\top	\top
RTQ 105 2S	1,4													П									•	•								П	П	•			•
RTQ 154 2S	1,6																					•					•							•			
NIQ 154 25	1,6													Ш							Ш		•				•							•			•
	1,8	•							Ц					Ш		\perp		_	_		Ш	\perp	L					_	•	+	L	Ш	\vdash	•		_	\perp
RTQ 203 2S	1,8	Ш		•	1					_	L			Ш		_	1	_	1		Ш	_	L					4	•	-	L	Ш	Ш	•	4	_	•
	1,8	Ш			4	_	L		Ш	•	<u>'</u>	_		Ш			_		+	_			_	Ш		_		_	•	+	_	Ш	Ш	\perp	'	•	•
	2,7	•	Н	_	+	+	H		Н	+	+			Н		_	+	+	+	+	H	-	+	Н		+	4	+	•	+	╀	Н	\vdash	•	+	+	+
RTQ 235 2S	2,7		H	•	+	+	H		Н	+	•	H		Н		+	+	+	+	+	H	+	╁	Н		+	+	+	•	+	╁	H	Н	•	۲.	•	•
	2,7 3,5	•	Н	-	+	+			Н	+	+			Н		+	+	+	+	+	Н	+	+			+	+	-	-	+	+	Н	Н	•	Η,	+	+
RTQ 297 2S	3,5	Ť	Н	•	+	+			Н	+	+			Н		+	+	+	+	+	Н	+	+				+		+	+		\vdash	\vdash	•	+	+	•
	3,5	Н	Н	_	+	+	H		Н	+	+	•		Н		+	+	$^{+}$	+	+	H		H	Н		+	+		+	+	╁	+	H	Ť	١,	•	-
	3,9	П	•		T				Н	\top	$^{+}$			Н			†	†	$^{+}$	+	П	\top	\vdash					-	,	T	\vdash	Н	П	•	\top	\top	+
RTQ 323 2S	3,9	П	П	•	•		Т		П	T	T	T		П		\top	T	T	T	T	П	\top	T	П		1		•	,	T	T	П	П	•	\top	Ť	•
	3,9										•			П							П							•	,			П	П	\top	١,	•	•
	4,1	П	•		T						T			П			T	T	T		П		Т					T		•	Т	П	П	•	\top	T	\top
RTQ 357 2S	4,1			•	•																									•				•			•
	4,1										•																			•					-	•	•
	2,9		•								L			Ш			\perp		\perp		Ш		L					_		•	L	Ш		•	\perp	_	
RTQ 418 2S	2,9	Ш	Ш	•	•				Ц	_	_			Ш		_	1	1	_		Ш	_	_					_		•	-	Ш	Ш	•	_	-	•
	2,9	Ш			1	_	L		Н	+	•	-		Н		_	+	_	+	+	Н	_	-	Ш		4	_	+	+	•	-	Ш	Ш	_		•	•
RTQ 467 2S	3,3	Н	Н		•	-	H			+	+	-		Н			+	+	+	+	H		-			-	4	+	+	•	+	Н	Н	•	4	-	•
	3,3	Н	Н	-	+	•	H		Н	+	+	•		Н		+	+	+	+	+	Н	+	\vdash	Н		+	+	•	+	•	\vdash	\vdash	Н	•	Η'	•	•
RTQ 537 2S	3,0	Н	Н	-	+	-	H		Н	+	+	\vdash	•	Н		+	+	+	+	+	Н	+	+	Н		+	-	•	+	+	+	Н	Н	-	١,	•	•
	3,0 5,1	Н	Н	-	+	•	H		Н	+	+	H	Ť	Н		-	+	+	+	+	Н	+	+	Н		+	-	•	+	+	+	+	Н	•	+	-	•
RTQ 597 2S	5,1	Н	Н		+	Ť	Н		Н		+		•	Н		+	+	+	+		Н			Н		+	\rightarrow	•	+	+	+	Н	Н	+	١,	•	-
	4,7	Н	Н		+	•			Н	+	+	\vdash		Н			+	+	+	+	Н		\vdash			+	-	•	+	+	\vdash	\Box		•	+	-	•
RTQ 715 2S	4,7	П	Н		T				Н	\top	$^{+}$			•			†	†	$^{+}$	†	П	\top	\vdash					•	†	T	\vdash	П	П	\top	٦,	•	•
	8,1	П	П		T		•				T			П			T	Ť	T		П		T				1	•	T	T	T	П	П	•	\top	T	•
RTQ 837 2S	8,1													•							П							•							1	•	•
PTO 020 25	4,6						•																					•						•			•
RTQ 920 2S	4,6													•														•							1	•	-
2TO 1020 25	4,6						•													Ι					•									•			•
RTQ 1020 2S	4,6													•											•									\Box	1	•	•
2TO 1250 25	5,8							•																	•									•	I	I	•
RTQ 1250 2S	5,8	П			Τ										•			Τ	Т						•	T	T								1	•	-

Description	Back-pressure												Ga	s b	urn	ier														Bu	rne	r fl	ang	ge				Cor	ntro	ol p	ane	els
	in combustion chamber (mbar)								Yel	low	/ fla	me	e (S	tan	da	rd)								Blu (Lo	e fla w N																	
	(IIIDai)		ne age			T۱	νo	sta	ge							Мо	dul	lati	ng					0ne stag		wo age																
			-					-							Мє	ech	ani	ical	ca	m				-		-																
		RS 34/1 MZ TL	RS 44/1 MZ TL	RS 34 MZ TL		RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 150 TL	RS 190 TL	RS 34/M MZ TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 150/M TL	RS 190/M TL	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 510/M MZ FS1	RS 610/M MZ FS1	BS2	BSS	BS3D	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit										
		3788511	3788611	3789011	3789111	3784703	3785103	3785303	3785503	20044637	20030087	3788711	3788811	3781623	3789611	3789711	20044639	20052616	3788411	20068343	20068356	20068027	20066706	3761258	3761658	3761716	20043899	20043900	20047680	4031186	4031188	4031192	4031198	4031395	20076596	20076618	20067631	20010820	4031069	4031064	4031067	20013035
RTO 1500 2S	5,4	П	Г	Т	Г		П			•														Т			Г	•							T	П	П	•	Т	Т	•	
KIŲ 1500 25	5,4																•											•												•		•
RTQ 1700 2S	7,2										•																		•									•			•	
KIŲ 1700 25	7,2																	•											•											•		•
PT0 2020 25	4,8	П	Г	Т	Г		П	П			•													Т			Г								T	П	•	•	Т	Т	•	
RTQ 2020 2S	4,8																	•																	П	П	•	П	П	•		•
RTQ 2320 2S	4,2																		•																		•			•		•
RTQ 2620 2S	6,0																			•															•					•		•
RTQ 2920 2S	6,3																			•															•	\exists	T	T	•	T		•
RTQ 3200 2S	7,9																				•														•				•			•
RTQ 3500 2S	7,9																				•														•				•			•
RTQ 4000 2S	7,7																					•													\Box	•			•			•
RTQ 4500 2S	8,0																						•												T	•	T	T	•	T		•
RTQ 5000 2S	7,9	Г	Г				Г																•													•		\Box	•			•

Control panels

Riellotech Clima Comfort Riellotech Clima Comfort

Riellotech Prime

20010820

•

•

•

•

•

•

•

•

•

•

•

•

•

•

•

•

•

.

•

•

•

•

•

•

•

•

•

•

•

•

•

•

•

•

•

•

•

•

•

•

•

•

4031069

Burner flange Burner flange

3-point modulation kit Two stage burner management kit

20013035

4031067

RIELLO

Description

Back-pressure in combustion

chamber (mbar)

One stage

RL 34/1 MZ TL

RG3

RL 34 MZ TL

RG4D

RL 44 MZ TL

COMPLEMENTARY

20043900 20166495 20166499 20166504 20166476 20166484 20166487 20047680 3739650 20011008 3000964 3000965 20169231 3739750 3475033 3475433 3470010 3010422 4031188 4031196 4031395 3737750 4031192 3470311 • • RTQ 50 2S 0,3 RTQ 64 2S 0,8 • • RTQ 82 2S • • 0,8 RTQ 82 2S 0,8 1,4 RTQ 105 2S 1,4 1,6 RTQ 154 2S 1,6 1,8 RTQ 203 2S 1,8 1,8 2,7 • • • RTQ 235 2S 2,7 • • 2,7 • 3,5 • • • RTQ 297 2S 3,5 • • 3,5 • • 3,9 • RTQ 323 2S 3,9 • • 4,1 • • RTQ 357 2S 4,1 • • 2,9 • • RTQ 418 2S 2,9 • • 3,3 • • RTQ 467 2S 3,3 • • 3,0 • • RTQ 537 2S 3,0 • • • • 5,1 RTQ 597 2S • • 5,1 • • 4,7 RTQ 715 2S • • 4,7 • 8,1 RTQ 837 2S • 8,1 • • 4,6 RTO 920 2S • 4,6 4,6 • • RTQ 1020 2S • • 4,6 • • 5,8 RTO 1250 2S • • 5,8 • • 5,4 RTQ 1500 2S • • 5,4 • • 7,2 RTQ 1700 2S • • 7,2 • 4,8 • RTQ 2020 2S • • 4,8 RTQ 2320 2S • • • • • RTO 2620 2S NOTE: the light oil burners must be completed with the light oil nozzles.

0il burner

Yellow flame (Standard)

RL 100 TL RL 50 TL

RL 70 TL

RL 130 TL RL 190 TC RL 250 MZ TC

RL 28/M TL

Two stage

Burner

accessory

Extended head Extended head Extended head

RL 130/M TL

RL 190/M TL

RL 100/M TL

RL 70/M TL RL 38/M TL RL 50/M TL

Modulating

Mechanical cam

Burner flange

Burner flange

Burner flange

Burner flange Burner flange Burner flange Burner flange Burner flange

Burner flange

Description	Back-pressure	in combuction							Buri				Bui	ner	flar	nge				ntrol	
	in combustion	chamber Yellow flame (St						ndard))	acces	sory									pai	nels
	(mbar)		T	wo:	stag	e		Modu	lating												
					_			Mecha													
								ca	m										Н		
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	Extended head	Extended head	Burner flange	Riellotech Prime	Two stage burner management kit							
		20147897	20147803	20147805	20147798	20147799	20147800	20159361	20145372	20097868	20097869	20043900	20047680	4031188	4031192	4031196	4031198	4031395	20067631	20010820	4031067
RTQ 203 2S	1,8	•															•			•	•
RTQ 235 2S	2,7	•															•			•	•
RTQ 297 2S	3,5		•												•					•	•
RTQ 323 2S	3,9		•												•				П	•	•
RTQ 357 2S	4,1		•															•		•	•
RTQ 418 2S	2,9		•							•								•		•	•
RTQ 467 2S	3,3			•							•							•		•	•
RTQ 537 2S	3,0				•									•						•	•
RTQ 597 2S	5,1				•									•						•	•
RTQ 715 2S	4,7				•									•						•	•
RTQ 837 2S	8,1					•										•				•	•
RTQ 920 2S	4,6					•										•			П	•	•
RTQ 1020 2S	4,6					•						•								•	•
RTQ 1250 2S	5,8						•					•								•	•
RTQ 1500 2S	5,4							•					•							•	•
RTQ 1700 2S	7,2							•					•							•	•
RTQ 2020 2S	4,8								•										•	•	•

CAST IRON JET BURNER BOILERS GAS/OIL



THREE FLUE GAS PASSES



TREGÌ N

TREGÌ 3N (23,9 KW)
TREGÌ 4N (31,5 KW)
TREGÌ 5N (40,2 KW)
TREGÌ 6N (48,2 KW)
TREGÌ 7N (56,2 KW)
TREGÌ 8N (63,8 KW)
TREGÌ 9N (72,5 KW)
TREGÌ 10N (33,5 KW)

page 316



TREGÌ NK

TREGÌ 3/60 NK (23,9 KW) TREGÌ 4/60 NK (31,5 KW) TREGÌ 3/100 NK (23,9 KW) TREGÌ 4/100 NK (31,5 KW) TREGÌ 5/100 NK (40,2 KW)

page 318



THREE FLUE GAS PASSES

RTT

RTT 29 (29,1 kW)
RTT 39 (39,0 kW)
RTT 49 (48,8 kW)
RTT 59 (58,7 kW)
RTT 69 (68,6 kW)
RTT 79 (78,5 kW)
RTT 76 (76,0 kW)
RTT 110 (110,0 kW)
RTT 110 (110,0 kW)
RTT 128 (128,0 kW)
RTT 145 (145,0 kW)
RTT 145 (145,0 kW)
RTT 195 (195,0 kW)
RTT 195 (195,0 kW)
RTT 195 (195,0 kW)

RTT 291 (291,0 kW)
RTT 323 (323,0 kW)
RTT 325 (325,0 kW)
RTT 378 (378,0 kW)
RTT 448 (448v kW)
RTT 506 (506v kW)
RTT 564 (564v kW)
RTT 610 (610,0 kW)
RTT 663 (663,0 kW)
RTT 715 (715,0 kW)
RTT 715 (715,0 kW)
RTT 737 (773,0 kW)
RTT 831 (831,0 kW)
RTT 878 (878,0 kW)
RTT 930 (930,0 kW)

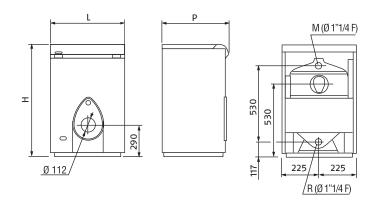
page 320

2021 EDITION

Three flue gas passes cast iron jet burner boilers

Tregi N





- Cast-iron boilers with three flue gas passes, removable turbulators, wet combustion chamber and winged pipes
- They can be matched with oil or gas jet burner

Description	H mm	L mm	P mm	ø mm	Net weight kg
TREGÌ 3 N	850	450	490	130	109
TREGÌ 4 N	850	450	590	130	135
TREGÌ 5 N	850	450	690	130	161
TREGÌ 6 N	850	450	790	130	187
TREGÌ 7 N	850	450	890	130	213
TREGÌ 8 N	850	450	990	130	239
TREGÌ 9 N	965	450	995	180	267
TREGÌ 10 N	965	450	1095	180	297

The front door, with ambidextrous opening, is provided with a glass wool insulation, while the boiler body is insulated through a high-density glass wool layer. The built-in control panel is equipped with safety devices and can manage an one-stage burner. Casing is made of stove-enamelled steel sheet.

- Possible combination with a separated DHW tank
- Allowed return temperature up to 35 °C for all fuels
- Easy handling: this product is supplied in one only pre-assembled item inside a wooden box on a pallet.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn %	Efficiency (30% Pn) %	Code
TREGÌ 3 N	23,9	26,5	90,2	90,9	4040719
TREGÌ 4 N	31,5	34,8	90,5	91,3	4040720
TREGÌ 5 N	40,2	44,3	90,7	91,6	4040721
TREGÌ 6 N	48,2	53,1	90,8	92,0	4040722
TREGÌ 7 N	56,2	62,0	90,6	91,8	4040723
TREGÌ 8 N	63,8	70,0	91,1	92,0	4040724
TREGÌ 9 N	72,5	80,0	90,63	90,3	4040725
TREGÌ 10 N	83,5	92,0	90,76	90,5	4040726

ACCESSORIES

Description	Code
Global shut-off kit	4047318

RECOMMENDED COMBINATIONS WITH BURNERS

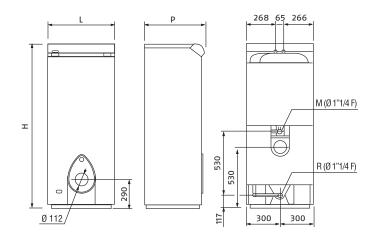
Description	Back-pressure	on Dive flame		Oil burner			
	in combustion chamber (mbar)			Blue flame Yellow f		Yellow flame (Stan	
	(mbary	One stage				Two stage	
		BS2	BS1	RG2	RGO.R	RG1NR	RG2KD
		3761258	3761158	3737750	3736550	3736405	3738100
	0,1		•				
TREGÌ 3 N	0,1				•		
TREGÌ 4 N	0,17		•				
IREGI 4 N	0,17					•	
TREGÌ 5 N	0,26		•				
IREGI 5 N	0,26					•	
TDEC) 6 N	0,36	•					
TREGÌ 6 N	0,36			•			
TREGÌ 7 N	0,42	•					
IREGI / N	0,42			•			
TREGÌ 8 N	0,6	•					
INEUI O N	0,6						•

NOTE: the gas burners must be completed with the gas train.
NOTE: the light oil burners must be completed with the light oil nozzles.

Three flue gas passes cast iron jet burner boilers

Tregi NK





- Cast-iron boilers with three flue gas passes with storage cylinder, removable turbulators, wet combustion chamber and winged pipes
- They can be matched with oil or gas jet burner

Description	H mm	L mm	P mm	ø mm	Net weight kg
TREGÌ 3/60 NK	1470	450	580	130	157
TREGÌ 4/60 NK	1470	450	580	130	182
TREGÌ 3/100 NK	1470	600	580	130	157
TREGÌ 4/100 NK	1470	600	580	130	182
TREGÌ 5/100 NK	1510	600	690	130	223

Enamelled storage tank, of 60 lt or 100 lt capacity, perfectly insulated with a styrofoam cover, complete with hydraulic circuit and high efficiency circulator. The front door, with ambidextrous opening, is provided with a glass wool insulation, while the boiler body is insulated through a high-density glass wool layer.

The built-in control panel is equipped with safety devices and can manage an one-stage burner. Casing is made of stove-enamelled steel sheet.

- Allowed return temperature up to 35 °C for all fuels
- Easy handling: this product is supplied in one only pre-assembled item inside a wooden box on a pallet (models 3NK and 4NK) or in separated parcels (boiler and casing) on a pallet

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn (Tm = 70 °C) %	Efficiency (30% Pn) %	Tank capacity liters	Code
TREGÌ 3/60 NK	23,9	26,5	90,2	90,9	60	20101199
TREGÌ 4/60 NK	31,5	34,8	90,5	91,3	60	20101200
TREGÌ 3/100 NK	23,9	26,5	90,2	90,9	100	20101201
TREGÌ 4/100 NK	31,5	34,8	90,5	91,3	100	20101202
TREGÌ 5/100 NK	40,2	44,3	90,7	91,6	100	20101203

ACCESSORIES

Description	Code
Global shut-off kit	4047318

RECOMMENDED COMBINATIONS WITH BURNERS

Description	Back-pressure	Gas burner	0il b	urner
	in combustion chamber (mbar)	Blue flame (Low NOx)		/ flame idard)
	(0n	e stage	
		BS1	RGO.R	RG1NR
		3761158	3736550	3736405
	0,10	•		
TREGÌ 3/60 NK	0,10		•	
TREGÌ 4/60 NK	0,17	•		
IREGI 4/60 NK	(mbar) (Low NOX) (S One state		•	
TREGÌ 3/100 NK	0,10	•		
IREGI 3/100 NK	0,10		•	
TREGÌ 4/100 NK	0,17	•		
IREGI 4/100 NK	0,17			•
TREC PRODUIT	0,26	•		
TREGÌ 5/100 NK	0,26			•

NOTE: the gas burners must be completed with the gas train.

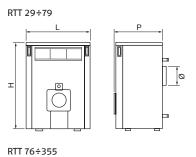
NOTE: the light oil burners must be completed with the light oil nozzles.

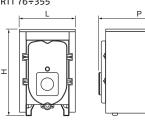
Three flue gas passes cast iron jet burner boilers

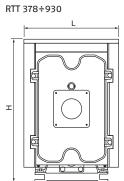
RTT

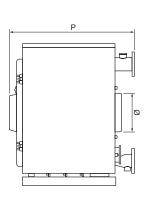


- Cast-iron boilers with three flue gas passesThey can be matched with oil or gas jet burner









Ø

Description	Н	L	Р	Ø	Net weight
	mm	mm	mm	mm	kg
RTT 29	840	540	455	130	148
RTT 39	840	640	555	130	175
RTT 49	840	740	655	150	202
RTT 59	840	840	755	150	229
RTT 69	840	940	855	150	256
RTT 79	840	1010	955	150	283
RTT 76	820	550	800	150	285
RTT 93	820	550	922	150	330
RTT 110	820	550	1044	180	377
RTT 128	820	550	1166	180	425
RTT 145	820	550	1288	180	470
RTT 163	820	550	1170	180	485
RTT 195	820	550	1315	180	565
RTT 227	820	550	1460	250	650
RTT 259	820	550	1605	250	735
RTT 291	820	550	1750	250	810
RTT 323	820	550	1890	250	895
RTT 355	820	550	2035	250	975

HEAT PUMPS

Description Н Ø Net weight mm mm mm mm kg **RTT 378** 1355 840 1300 350 1020 RTT 448 840 1460 1355 350 1235 **RTT 506** 840 1620 1415 1355 350 **RTT 564** 840 1780 1555 1355 350 **RTT 610** 1355 840 1940 350 1725 **RTT 663** 1355 840 2100 350 1875 **RTT 715** 1355 840 2260 350 1975 **RTT 773** 1355 840 2420 350 2170 **RTT 831** 1355 840 2580 350 2375 **RTT 878** 1355 840 2740 350 2465 **RTT 930** 2900 2540 1355 840 350

The RTT boilers are forced-draught heat generators. They are formed of cast iron elements and work with gas or liquid fuel.

The vertical structure with three flue passes ensures excellent heat transmission. The heat transmission surfaces are increased thanks to a special finning in the combustion chamber and in the discharge pipe to the flue.

The optimum heat exchange and insulation quality mean reduced fuel consumption and heat losses.

The RTT models 29÷79 kW, are supplied with an integrated control panel.

The RTT models 76÷145 kW, are supplied pre-assembled, with the cover already fitted.

The range from 169 to 355 is supplied with the cover in a separate package.

The RTT models 378÷930 kW are supplied separately, to facilitate movement and transport.

The models from 76 up to 930 kW must be completed with the RIELLOtech Prime control panel, that should be ordered separately; it permits to achieve several solutions.

- Maximum operating pressure 6 bar.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn %	Code
RTT 29	29,1	31,6	92,1	20091169
RTT 39	39,0	42,3	92,2	20091170
RTT 49	48,8	53,6	91,0	20091171
RTT 59	58,7	63,8	92,0	20091172
RTT 69	68,6	74,5	92,1	20091173
RTT 79	78,5	85,3	92,0	20091175
RTT 76	76,0	82,0	92,6	20091179
RTT 93	93,0	101,0	92,1	20091181
RTT 110	110,0	120,0	91,6	20091187
RTT 128	128,0	138,0	92,7	20091189
RTT 145	145,0	157,0	92,3	20091193
RTT 163	163,0	177,0	92,0	20091302
RTT 195	195,0	211,0	92,4	20091303
RTT 227	227,0	246,0	92.3	20091304
RTT 259	259,0	281,0	92,1	20091305
RTT 291	291,0	316,0	92,1	20091306
RTT 323	323,0	351,0	92,0	20091308
RTT 355	355,0	385,0	92,2	20091309
RTT 378	378,0	410,0	92,2	20093090
RTT 448	448,0	487,0	92,0	20091316
RTT 506	506,0	551,0	91,8	20091318
RTT 564	564,0	615,0	91,7	20091321
RTT 610	610,0	665,0	91,7	20091325
RTT 663	663,0	720,0	92,1	20091326
RTT 715	715,0	777,0	92,0	20091329
RTT 773	773,0	839,0	92,1	20091334
RTT 831	831,0	900,0	92,3	20091335
RTT 878	878,0	956,0	91,8	20091337
RTT 930	930,0	1013,0	91,8	20091339

Maximum operating pressure 6 bar.

CONTROL PANELS

RIELLO

Description	Installation	Boiler models	Code
RIELLOtech PRIME	Horizontal/Vertical	RTT 76÷355 - RTT 378 ÷ 930	20010820
RIELLOtech PRIME ACS	Horizontal/Vertical	RTT 76÷355 - RTT 378 ÷ 930	20010437

NOTE: for more details on control panels, please refer to page 323.

RECOMMENDED COMBINATIONS WITH BURNERS

Description											trol			
	in combustion chamber				Yello	w fla	me (Stand	dard)				pan	iels
	(mbar)	One stage Two stage												
		RG1NR	RG2	RG3	RG3D	RG4D	RG5D	RL 100 TC	RL 34 MZ TC	RL 44 MZ TC	RL 50 TC	RL 70 TC	Riellotech Prime	Two stage burner management kit
		3736405	3737750	3739300	3739450	3739750	3739850	3475232	3470210	3470310	3474632	3475032	20010820	4031067
RTT 29	0,46	•												
RTT 39	0,59		•											
RTT 49	0,89		•											
RTT 69	1,37		•	•										
RTT 79	1,56			•										
RTT 76	1,65			•									•	
RTT 93	1,82				•								•	•
RTT 110	2,05				•								•	•
RTT 128	2,3					•							•	•
RTT 145	2,55						•						•	•
RTT 163	1,6						•						•	•
RTT 195	1,7						•						•	•
RTT 227	1,9								•				•	•
RTT 259	2,2								•				•	•
RTT 291	2,5								•				•	•
RTT 323	2,8									•			•	•
RTT 355	3,1									•			•	•
RTT 378	2,2									•			•	•
RTT 448	2,4										•		•	•
RTT 506	2,75										•		•	•
RTT 564	3,1											•	•	•
RTT 610	3,35											•	•	•
RTT 663	3,7											•	•	•
RTT 715	4,05											•	•	•
RTT 773	4,35							•					•	•
RTT 831	4,75							•					•	•
RTT 878	4,95							•					•	•
RTT 930	5,5							•					•	•

 $\ensuremath{\mathsf{NOTE}}\xspace$ the light oil burners must be completed with the light oil nozzles.

CONTROL PANELS AND THERMOREGULATIONS

0

APPLICATION	ELECT	RONIC	THERMOSTATIC		
	CLIMA COMFORT	CLIMA MIX	PRIME	PRIME ACS	
HORIZONTAL	•		•	•	
VERTICAL	•	•			
FOR ELECTRICAL CABINET	•	•			
BURNER	Modulating*		One stage/two stage (with kit code 4031067)	One stage/two stage (with kit code 4031067)	
CASCADE APPLICATION	Immersion or clip probe				
SOLAR SYSTEM	Probes 2 x 20010103 1 x 4031913				
DHW TANK	o Probe 1 x 20010103			• Probe included	
DIRECT ZONE	•		•	•	
1st MIXED ZONE	Immersion or clip probe	• Immersion or clip probe			
	Optional: indoor probe	e or remote control RC3			
2 nd MIXED ZONE	With kit 20102310, immersion or clip probe	• With kit 20011194, immersion or clip probe			
	Optional: indoor probe	e or remote control RC3			
ALTERNATIVE SOURCE GENERATOR	For biomass: immersion probe				

For modulating burner matched with cabinet installation control panel, add kit code 20013035.

USE OF RIELLOTECH REGULATION SYSTEMS

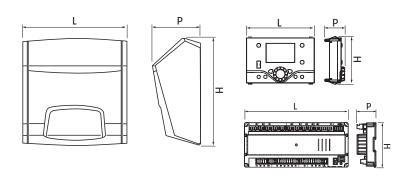
RIELLOTECH regulation systems are specifically designed for the following ranges: TAU N, RTS 3S, RTQ and RTQ 3S. Besides they allow the addition of more functions concerning the thermoregulations integrated in the model TAU UNIT OIL.

The complete compositions and the communication kits are to be checked on the specific accessories tables in the sections concerning boilers and thermal groups.

Control panels and thermoregulations

RIELLOtech Clima Comfort RIELLOtech Clima Mix





• RIELLOtech is Riello range of control systems designed to control any kind of installations

Description	H mm	L mm	P mm	Net weight kg
RIELLOtech CLIMA COMFORT/MIX	360	350	165	3
CLIMA COMFORT	360	350	165	3
CLIMA MIX	120	180	50	1
CLIMA DISPLAY	95	140	50	1

RIELLOtech is an electronic control panel for the climatic management of a furnace with single-stage, two-stage or modulating burner. Ideal for complex systems as well as for the management of simpler installations. The range includes:

RIELLOtech Climate Comfort: it is the climatic regulation of even complex systems in single- or multi-family installations. It manages modulating burners, cascades of boilers, solar systems and the integration of several types of heat generators. The system side manages a mixed area (expandable to 2 with a special dedicated kit), one direct and the production of domestic hot water. Clima Comfort also offers the possibility to control modulating circulators (0-10V and PWM) with the specific expansion.

RIELLOtech Clima Mix: this is the system regulation that can manage 1 mixed area expandable to 2 with a special kit.

The RIELLOtech Clima Comfort versions include a boiler probe and an external probe.

All RIELLOtech Clima regulations can be integrated via BUS.

RIELLOtech features IP X4D protection level.

- It is possible to personalise the control panel through programmable inputs and outputs (e.g. 0/10V input, generator anticondensation pump)
- Frost protection, anti-blocking pump function and anti-legionnaires' disease protection
- Energy saving thanks to the system thermoregulation according to the external weather conditions
- Easy to program thanks to a user-friendly menu and a large display
- Quick to install: terminals and connectors, identifiable through silk-screen prints, are included in the supply
- Great flexibility of installation: they can be horizontally or vertically installed on the boilers or wall-mounted by means of a
- A specific version as main control panel for boiler-room is also available (in combination with Clima Display).

TECHNICAL DATA

Description	Functionaldescription	Installation type	Notes	Code
RIELLOtech CLIMA COMFORT	Control panel with climatic regulation	Horizontal	(1)	4031064
RIELLOtech CLIMA COMFORT	Control panel with climatic regulation	Vertical	(1)	4031069
RIELLOtech CLIMA MIX	Electrical panel with zone regulator	Vertical		20010428
CLIMA DISPLAY	User interface for adjustments CLIMA COMFORT			20010906
CLIMA MIX	Zone regulator			20010904
CLIMA COMFORT	Climatic regulation			20010903

⁽¹⁾ Supplied as standard 1 immersion probe and 1 external sensor.

Deductible products only within a system refurbishment and building energy redevelopment. Therefore, please always check the specific procedures for accessing the incentive.

ACCESSORIES

Description	Code
Programmable expansion kit (CLIMA COMFORT)	20102310
Programmable expansion kit (CLIMA MIX)	20011194
Relay kit for modulating burner (CLIMA COMFORT)	20013035
RIELLOtech wall-hung installation kit (to be used only for vertical installation)	20010056
RC3 remote control kit	20155028
MODBUS connection kit	20185704
Indoor probe	20012456
NTC immersion probe (10kΩ) – 5 metres	20010068
NTC DHW-tank probe (10kΩ) - 5 metres	20010103
Solar collector probe NTC (10 k ohm)	4031913
NTC 0-ring probe (10kΩ)	20168680
NTC external probe (10 k ohm)	20164230

APPLICATION CHART

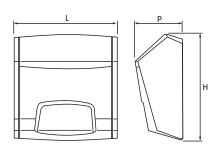
Description	Burner	Boiler in cascade	Biomass boiler	Solar system	DHW storage cylinder	Direct zone	1 st mixed zone	2 nd mixed zone
RIELLOtech CLIMA COMFORT *					O	-		With specific additional mixed zone control kit
RIELLOtech CLIMA MIX								With additional mixed zone control kit
Compulsory accessories		1 NTC clip probe		2 NTC DHW-tank probes and 1 NTC immersion probe solar collector	1 NTC DHW- tank probe		1 NTC clip probe or 1 NTC immersion probe	1 NTC clip probe or 1 NTC immersion probe
Optional accessories			1 NTC immersion probe (only for biomass boiler)				1 indoor probe or RC3 remote control	1 indoor probe or RC3 remote control

Per regolazione bruciatore modulante ordinare accessorio kit Relais.

Control panels and thermoregulations

RIELLOtech Prime RIELLOtech Prime ACS





• RIELLOtech is Riello range of control systems designed to control any kind of installations

Description	H mm	L mm	P mm	Net weight kg
RIELLOtech Prime	360	350	165	3
RIELLOtech Prime ACS	360	350	165	3

RIELLOtech Prime is the thermostatic product line for the control of 1-stage and 2-stage burners (by means of a specific kit) and one direct zone. RIELLOtech Prime ACS is the thermostatic product line for the control of 1-stage and 2-stage burners (by means of a specific kit), the production of DHW and one direct zone. IPX4D electrical protection.

- Easy to use and install
- Safety thermostat with manual-reset
- Over-temperature disposal function
- Adjustable anti-condensation function on heating and DHW production
- These control panels feature a wide internal space and allow maximum ease of connections
- These control panels are available as horizontal version; for the vertical installation you just have to rotate the front panel by 180°.

TECHNICAL DATA

Description	Туре	Code
RIELLOtech Prime	Thermostatic control panel heating-only single stage (1) - horizontal installation (2)	20010820
RIELLOtech Prime ACS	Thermostatic control panel heating and DHW production single stage (1) - horizontal installation (2)	20010437

- (1) Two stage burner controlled by kit code 4031067.
- (2) For vertical installation turn the frontal panel by 180°.

ACCESSORIES

Description	Code
Two stage burner management kit (to install in Riellotech Prime and Riellotech Prime ACS)	4031067
RIELLOtech wall-hung installation kit (to be used only for vertical installation models)	20010056

APPLICATION CHART

Description	Burner	Boiler in cascade	Biomass boiler	Solar system	DHW storage cylinder	Direct zone	1 st mixed zone	2 nd mixed zone
RIELLOtech PRIME	Two-stage with special kit	iii cascade	boller		storage cynnider		mixed 2011e	illined zolle
RIELLOtech PRIME ACS	Two-stage with special kit					-		
Compulsory accessories					1 storage tank probe NTC			

FLUE OPTIONS SYSTEM

HEAT PUMPS

330

SINGLE FLUE GAS EXHAUST SYSTEM OR DOUBLE SUCTION/DISCHARGE Ø80 mm

Drawing	Description	Material (*)	JP.		Notes	Code
		()	Condexa Pro 35-70P	TAU UNIT 35-70		
	45° bend Ø80 mm	PP	•	•	(2)	20137503
	90° bend Ø80 mm	PP	•	•	(2)	20137506
	Extension Ø80 mm, L=500	PP	•	•	(2)	20137508
	Extension Ø80 mm L=1000	PP	•	•	(2)	20137509
	Extension Ø80 mm L=2000	PP	•	•	(2)	20137511
	Flexible extension 12.5 m with 8 spacers Ø80 mm	PP	•	•	(2)	20132509
	Horizontal terminal Ø80 mm	PP	•	•	(2)	20137517
	Air suction terminal Ø80 mm	PP	•	•	(2)	20137515
	T-junction kit Ø80 mm with support bracket	PP	•	•	(2)	20132504
	Pipe spacers in the flue gases pipe	PP	•	•		20132505
	Straight inspection manifold Ø80 mm	PP	•	•	(2)	20132506
	Flue cover Ø80 mm	PP	•	•	(2)	20132508
	Flue cover Ø80 for rigid/flexible system	PP	•	•	(2)	20131271
	Flue support shelf kit	Met	•	•		20145888
	Rigid-flexible fitting Ø80 mm	PP	•	•	(2)	20132510
	Flexible-flexible fitting Ø80 mm	PP	•	•	(2)	20132511
	Flexible-rigid-fitting Ø80 mm	PP	•	•	(2)	20132512
	Drain pipe kit	PP	•	•		20132518
Ē.	Ø80 mm T-junction kit	PP	•	•	(2)	20132513
	Ø80 mm T-junction closure kit for condensate drain	Met	•	•	(2)	20132514

^(*) PP material: colour may change over time because of sun's rays exposure
(2) H1 pressure level according to EN 1443
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght

Ø60/100 mm CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM (TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)

Drawing	Description	Material (*)	Condexa Pro 35-70P	Notes	Code
	Double adaptor Ø80/80 mm – concentric Ø60/100 mm	PP/Met	•	(2)(3)	20137535
	Wall collector Ø60/100 mm	PP/PPu	•	(2)(3)	20132018

(*) PP material: colour may change over time because of sun's rays exposure
(2) H1 pressure level according to EN 1443
(3) Verificare le lunghezze equivalenti massime consultando la scheda tecnica e/o contattando il servizio pre-vendita
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght

Ø80/125 mm CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM (TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)

Drawing	Description	Material (*)	Condexa Pro 35-70P	TAU UNIT 35-70	Notes	Code
	Universal tile for sloping roofs	Nylon	•	•		20132050
	Element kit Ø80/125 mm connection to flue	PP	•	•	(2)	20132520
	45° bend Ø80/125 mm	PP/ABS	•	•	(2)	20131054
	90° bend Ø80/125 mm	PP/ABS	•	•	(2)	20131083
	90° bend with inspection Ø80/125 mm	PP/ABS	•	•	(2)	20131095
	Double adaptor Ø80/80 mm – concentric Ø80/125 mm	PP/ABS	•	•	(2)	20131055
	Extension Ø80/125 mm, L=500 mm	PP/ABS	•	•	(2)	20131084
	Extension Ø80/125 mm, L=1000 mm	PP/ABS	•	•	(2)	20131085
	Vertical terminal Ø80/125 mm	PP/ABS	•	•	(2)	20131113
	Wall discharge terminal Ø80/125 mm	PP/ABS	•	•	(2)	20131098

 ^(*) PP material: colour may change over time because of sun's rays exposure
 (2) H1 pressure level according to EN 1443
 NOTE: please, refer to boiler installation manual for maximum flue line lenght

SINGLE FLUE GAS EXHAUST SYSTEM OR DOUBLE SUCTION/DISCHARGE Ø110 mm

Drawing	Description	Material (*)	Condexa Pro 90–135	TAU UNIT 100-140	Notes	Code
	45° bend Ø110 mm	PP	•	•	(2)	20131205
	90° bend Ø110 mm with inspection	PP	•	•	(2)	20131202
	90° bend Ø110 mm	PP	•	•	(2)	20131208
	Extension Ø110 mm, L=1000 mm	PP	•	•	(2)	20131210
	Ø110 T-junction kit with condensate drain	PP	•	•	(2)	20131218
	Ø110 mm T-junction kit with stack support condensate drain	PP	•	•	(2)	20131221
	Ø110 mm T-junction kit	PP	•	•	(2)	20131222
	Flue cover Ø110 mm with terminal	PP	•	•	(2)	20131225

^(*) PP material: colour may change over time because of sun's rays exposure
(2) H1 pressure level according to EN 1443
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line lenght

Ø110/160 mm CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM (TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)

Drawing	Description	Material (*)	Condexa Pro 90-135	TAU UNIT 100-140	Notes	Code
	Tile Ø160 mm 25-45% slope	_	•	•		20131145
	Adaptor Ø80/Ø110 mm	PP		•	(2)	20131238
	Extension Ø110 mm, L=145 mm	PP		•	(2)	20144853
	Extension Ø110/160 mm, L=500 mm	PP/Met	•	•	(2)	20131046
	Extension Ø110/160 mm, L=1000 mm	PP/Met	•	•	(2)	20131050
	45° bend Ø110/160 mm	PP/Met	•	•	(2)	20131036
	90° bend Ø110/160 mm	PP/Met	•	•	(2)	20131040
	90° bend with inspection Ø110/160 mm	PP/Met	•	•	(2)	20131147
	Double adaptor Ø110/110 mm – concentric Ø110/160 mm	PP/Met	•	•	(2)	20131059
	Ø110/160 concentric horizontal flue terminal	PP/Met	•	•	(2)	20131149
	Outlet on roof Ø110/160 mm	PP/PE	•	•	(2)	20147403

^(*) PP material: colour may change over time because of sun's rays exposure
(2) H1 pressure level according to EN 1443.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line lenght

PLASTIC FLUE SYSTEM Ø160 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	30° bend Ø160 mm	PP	20062445
	45° bend Ø160 mm	PP	20032646
	90° bend Ø160 mm	PP	20032644
	Inspection bend Ø160 mm	PP	20062446
	Extention Ø160 mm, L=500 mm	PP	20060940
	Extention Ø160 mm, L =1000 mm	PP	20060941
	Extention Ø160 mm, L=2000 mm	PP	20060942
90	Inspection extention Ø160 mm	PP	20060945
	Chimney support Ø160 mm	PP	20062703
	Chimney cover Ø160 mm (stainless steel)	PP	20060953
	Condensate drain pipe Ø160 mm	PP	20062447
	T connection Ø160 mm with condensate drain and chimney support	PP	20063419
	T connection Ø160 mm with condensate drain	PP	20062448

PLASTIC FLUE SYSTEM Ø200 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Concentric adapter Ø200-160 mm	PP	20062567
	30° bend Ø200 mm	PP	20062539
	45° bend Ø200 mm	PP	20062542
	90° bend Ø200 mm	PP	20062543
	Inspection bend Ø200 mm	PP	20062545
	Extention Ø200 mm L =500 mm	PP	20062527
	Extention Ø200 mm L =1000 mm	PP	20062530
	Extention Ø200 mm L =2000 mm	PP	20062532
	Inspection extention Ø200 mm	PP	20062534
	Chimney support Ø200 mm	PP	20062548
	Chimney cover Ø200 mm (stainless steel)	PP	20062547
	Condensate drain pipe Ø200 mm	PP	20062537
	T connection Ø200 mm with condensate drain and chimney support	PP	20063420
	T connection Ø200 mm with condensate drain	PP	20062550

PLASTIC FLUE SYSTEM Ø250 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Eccentric adapter Ø250–160 mm	PP	20062606
	Concentric adapter Ø250–200 mm	PP	20062607
	Eccentric adapter Ø250–200 mm	PP	20132393
	30° bend Ø250 mm	PP	20062593
	45° bend Ø250 mm	PP	20062594
	90° bend Ø250 mm	PP	20062595
90	Inspection bend Ø250 mm	PP	20062598
	Extention Ø250 mm, L=500 mm	PP	20062576
	Extention Ø250 mm, L=1000 mm	PP	20062577
	Extention Ø250 mm, L=2000 mm	PP	20062578
	Inspection extention Ø250 mm	PP	20062591
	Chimney support Ø250 mm	PP	20062600
	Chimney cover Ø250 mm (stainless steel)	PP	20062599
	Condensate drain pipe Ø250 mm	PP	20062592
	T connection Ø250 mm with condensate drain and chimney support	PP	20063421
	T connection Ø250 mm with condensate drain	PP	20062601

PLASTIC FLUE SYSTEM Ø300 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Eccentric adapter Ø300-160 mm	PP	20158581
	Eccentric adapter Ø300-250 mm	PP	20158580
	45° bend Ø300 mm	PP	20145293
	90° bend Ø300 mm	PP	20145294
@ 0	Inspection bend Ø300 mm	PP	20158567
	Extention Ø300 mm, L=500 mm	PP	20145292
	Extention Ø300 mm, L=1000 mm	PP	20145295
	Extention Ø300 mm, L=2000 mm	PP	20145296
90	Inspection extention Ø300 mm	PP	20145290
d 000 F	Chimney support Ø300 mm	PP	20158569
	Condensate drain pipe Ø300 mm	PP	20158566
	T connection Ø300 mm with condensate drain and chimney support	PP	20158572
	T connection Ø300 mm with condensate drain	PP	20158571

DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø160-225 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	30° bend Ø160-225 mm	PP/Met	20062658
	45° bend Ø160-225 mm	PP/Met	20062659
	90° bend Ø160-225 mm	PP/Met	20062660
	Extention Ø160-225 mm, L=500 mm	PP/Met	20062655
	Extention Ø160-225 mm, L=1000 mm	PP/Met	20062656
	Inspection extention Ø160-225 mm, L=1000 mm	PP/Met	20062657
	Pipe for terminal Ø160-225 mm	PP/Met	20062662
	Terminal Ø160-225 mm	PP/Met	20062663
	Chimney support Ø160-225 mm	PP/Met	20062661

DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø200-300 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	30° bend Ø200-300 mm	PP/Met	20062669
	45° bend Ø200-300 mm	PP/Met	20062670
	90° bend Ø200-300 mm	PP/Met	20062671
	Extention Ø200-300 mm, L=500 mm	PP/Met	20062666
	Extention Ø200-300 mm, L=1000 mm	PP/Met	20062667
	Inspection extention Ø200-300 mm	PP/Met	20062668
9	Pipe for terminal Ø200-300 mm	PP/Met	20062673
	Terminal Ø200-300 mm	PP/Met	20062674
	Chimney support Ø200-300 mm	PP/Met	20062672

DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø250-350 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	45° bend Ø250-350 mm	PP/Met	20062689
	Extention Ø250-350 mm, L=500 mm	PP/Met	20062676
	Extention Ø250-350 mm, L=1000 mm	PP/Met	20062677
	Inspection extention Ø250-350 mm	PP/Met	20062688
	Pipe for terminal Ø250-350 mm	PP/Met	20062691
	Terminal Ø250-350 mm	PP/Met	20062692
	Chimney support Ø250-350 mm	PP/Met	20062690

DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø300-350 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Eccentric adapter Ø300/350 mm - 250/350 mm	PP/Met	20158598
	45° bend Ø300-350 mm	PP/Met	20158600
	Extention Ø300-350 mm, L=500 mm	PP/Met	20158601
	Extention Ø300-350 mm, L=1000 mm	PP/Met	20158602
	Inspection extention Ø300-350 mm	PP/Met	20158603
	Pipe for terminal Ø300-350 mm	PP/Met	20158604
	Terminal Ø300-350 mm	PP/Met	20158605
	Chimney support Ø300-350 mm	PP/Met	20158606
	Boiler cnnection Ø300-350 mm (STEEL PRO POWER)	PP/Met	20158607
	Condensate drain pipe Ø300-350 mm	PP/Met	20158594

FLUE SYSTEM ACCESSORIES

Drawing	Description	Code
	Siphon Long John	20062443
	Tool Ø160 mm	20062510
	Tool Ø200 mm	20062563
	Tool Ø250 mm	20062604
obo	Spacers Ø300-500 mm	20158577
	Spacers Ø160 mm	20062444
	Spacers Ø160 mm (5pz)	20060948
	Spacers Ø200 mm	20062564
	Spacers Ø225 mm	20062664
	Spacers Ø250 mm	20062605
•	Grid Ø160 mm	20062513
	Grid Ø200 mm	20062575
	Grid Ø250 mm	20062636
	Grid Ø300 mm	20158576
	Wall cover Ø160 mm	20062512
	Wall cover Ø200 mm	20062574
	Wall cover Ø225 mm	20062665
	Wall cover Ø250 mm	20062635
	Wall cover Ø300 mm	20062675
	Wall cover Ø350 mm	20062693
	Wall feeder Ø160-225 mm	20062449
	Wall feeder Ø200-300 mm	20062556
	Wall feeder Ø250-350 mm	20062602



HEAT PUMPS

	RI	EL	LO
--	----	----	----

AIR CONDITIONING	攀
AIR CONDITIONERS	347
PROFESSIONAL AIR CONDITIONERS	363
WATER CHILLERS	371
	<u>"</u> "

AIR CONDITIONERS



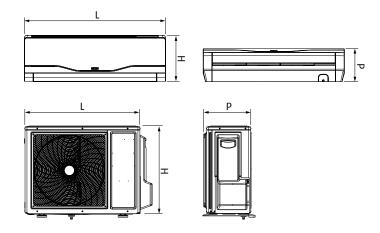
AIR CONDITIONERS FOR SMALL- AND MEDIUM-SIZED ROOMS

	WALL-MOU	INTED	CEILING/F	LOOR	CASSETTE		DUCTED	
	-	AARIA MONO PLUS AMW AARIA AMW 25 PLUS SET AARIA AMW 35 PLUS SET AARIA AMW 50 PLUS SET		AARIA MONO PLUS AMS AARIA AMS 35 P SET AARIA AMS 50 P SET		AARIA MONO PLUS AMK AARIA AMK 35 P SET AARIA AMK 50 P SET		AARIA MONO PLUS AMD AARIA AMD 35 P SET AARIA AMD 50 P SET
		page 348		page 350		page 353		page 355
MONO INVERTER				AARIA MONO PLUS AMC AARIA AMC 25 P SET AARIA AMC 35 P SET AARIA AMC 42 P SET				
W				page 351				
		AARIA START AARIA START 25 AARIA START 35 AARIA START 50 AARIA START 70						
		page 356						
		AARIA MULTI WALL-MOUNTED AMW 20 P AMW 25 P AMW 35 P AMW 50 P AMW 70 P		AARIA MULTI CEILING/FLOOR AMS 35 P AMS 50 P AMS 70 P		AARIA MULTI CASSETTE AMK 25 P AMK 35 P AMK 50 P AMK 70 P	-	AARIA MULTI DUCTED AMD 25 PA AMD 35 PA AMD 50 PA AMD 70 PA AMD 70 PB
ERTER		page 358		page 358		page 358		page 358
MULTI INVERTER				AARIA MULTI CONSOLE				
				AMC 25 P AMC 35 P AMC 42 P				
				page 358				
MONOBLOC				AARIA ONE INVERTER AARIA ONE INVERTER				
W				page 361				

RIELLO

Wall-mounted mono inverter air conditioners

AARIA MONO PLUS-AMW





- Monosplit wall-mounted inverter
- R32 heat pump, low environmental impact
- High energy efficiency class A+++/A++, for limited consumption

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMW 25 P	Indoor	280	855	200	10,0
AARIA MONO 25 PLUS	Outdoor	550	800	280	29,0
AMW 35 P	Indoor	280	855	200	10,0
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
AMW 50 P	Indoor	322	997	230	13,0
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8

AARIA MONO PLUS air conditioners, for installation on a wall, the ideal Riello solutions for small and medium sized homes, to allow proposals with high energy efficiency and modern design. The unit with R32 refrigerant with low environmental impact reaches classes of energy efficiency A +++ / A ++.

Outdoor is unit equipped with ROTARY inverter compressor, to ensure maximum comfort during operation.

AARIA MONO PLUS range has three models from 2.5 kW to 5.0 kW.

Using the infra-red remote control that is supplied it is possible to manage all the unit's function.

The AAARIA MONO PLUS air conditioners can be equipped with an optional Wi-Fi kit, for complete remote management via Dedicated APP RICLOUD AC.

- Indoor unit equipped with a hidden LED DISPLAY
- SMART mode for automatic operation
- SLEEP function for maximum night comfort
- QUIET function for ultra silent operation
- ANTIFREEZE function to start the unit when the internal temperature falls below 10 $^{\circ}\text{C}$
- AUTORESTART function in case of power failure
- Outdoor unit complete with attachment covers.

TECHNICAL DATA

Description	Output in cooling (T=+35 °C) kW	Annual consump- tion kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consump- tion kWh/year	Unit type	Liquid attach- ments mm	Gas attach- ments mm	L/H max m		ergy icy class SCOP %≋	Code
AMW 25 P	2,6	107	2,4	731	Indoor				A+++	A++	20127839
AARIA MONO 25 PLUS					Outdoor						20151556
AARIA AMW 25 PLUS SET						6,35	9,52	15/10			20127854
AMW 35 P	3,5	144	2,8	854	Indoor				A+++	A++	20127841
AARIA MONO 35 PLUS					Outdoor						20151557
AARIA AMW 35 PLUS SET						6,35	9,52	15/10			20127858
AMW 50 P	5,2	253	4,6	1401	Indoor				A++	A++	20127842
AARIA MONO 50 PLUS					Outdoor						20151558
AARIA AMW 50 PLUS SET						6,35	12,7	25/15			20127859

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone. The performances refer to the following conditions:

Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.

Heating: indoor unit input air temperature 20 °C Tb.s.

Prices do not include the WEEE contribution.

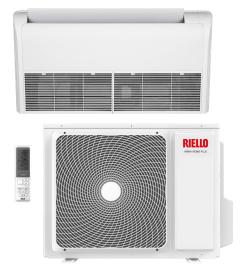
ACCESSORIES

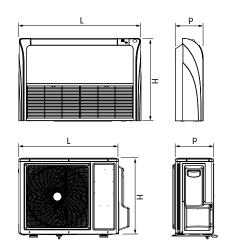
Drawing	Description	Code
	Air conditioner Wi-Fi interface kit for model AMW P	20161702



Ceiling/floor-standing mono inverter air conditioners

AARIA MONO PLUS-AMS







- Ceiling/floor-standing Inverter Monosplit
- R32 heat pump, low environmental impact
- High A+++/A+ energy class, for low consumption
- With infrared control

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMS 35 P	Indoor	680	1000	230	26,0
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
AMS 50 P	Indoor	680	1000	230	26,0
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8

AARIA MONO PLUS-AMS air conditioners, with ceiling/floor-standing installation, are designed for medium and small spaces, to allow proposals with high energy yields and a functional design. The unit with low environmental impact R32 refrigerant achieves A+++/A+ energy efficiency classes.

The unit consists of an outdoor unit equipped with ROTARY inverter compressor, to ensure maximum comfort during operation, and an indoor unit, with 4 fan speeds. The AARIA MONO PLUS unit that can be paired is available in two output ratings from 3.5 kW to 5.0 kW. The offer is completed by an infrared remote control supplied as a standard, through which it is possible to manage all the unit functions.

- Indoor unit with on-board DISPLAY
- SMART mode for automatic operation
- QUIET function for ultra quiet operation
- AUTORESTART function in case of blackout
- Outdoor unit complete with connection covers
- Wired control on request.

TECHNICAL DATA

Description	Output in cooling	Annual consumption		Annual consumption	Unit type	Liquid at- tachments		L/H max		ergy icy class	Code
	(T=+35 °C) kW	kWh/year	(Pdesign T=-10 °C) kW	kWh/year		mm	mm	m	SEER &≈≋	SCOP &S≋	
AMS 35 P	3,50	146	3,00	945	Indoor				A+++	A+	20151552
AARIA MONO 35 PLUS					Outdoor						20151557
AARIA AMS 35 P SET						6,35	9,52	15/10			20161590
AMS 50 P	5,00	240	4,40	1491	Indoor				A+++	A+	20151553
AARIA MONO 50 PLUS					Outdoor						20151558
AARIA AMS 50 P SET						6,35	12,7	25/15			20161592

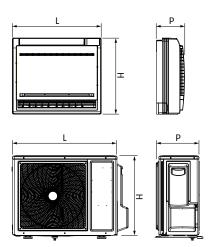
Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone.

- Performance refers to the following conditions:
 cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

Prices do not include the WEEE contribution.

Floor-standing mono inverter air conditioners

AARIA MONO PLUS-AMC







- Ceiling/floor-standing Inverter Monosplit
- R32 heat pump, low environmental impact
- High A++/A++ energy class, for low consumption
- · With infrared control

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMC 25 P	Indoor	600	700	210	16,5
AARIA MONO 25 PLUS	Outdoor	550	800	280	29,0
AMC 35 P	Indoor	600	700	210	16,5
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
AMC 42 P	Indoor	600	700	210	16,5
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8

The AARIA MONO PLUS-AMC air conditioners, for floor-standing installation, are suitable for medium and small environments, to allow proposals with high energy efficiency and functional design. The unit with low environmental impact R32 refrigerant achieves A++/A + energy efficiency classes. The unit consists of an outdoor unit equipped with ROTARY inverter compressor, to ensure maximum comfort during operation, and an indoor unit, with 4 fan speeds. The AARIA MONO PLUS unit that can be paired is available in three output ratings from 2.5 kW to 5.0 kW. The offer is completed by an infrared remote control supplied as a standard, through which it is possible to manage all the unit functions.

- Dual airflow management
- SMART mode for automatic operation
- DRY operation for dehumidification
- QUIET function for ultra quiet operation
- AUTORESTART function in case of blackout
- Outdoor unit complete with connection covers
- Infrared remote control.

TECHNICAL DATA

RIELLO

Description	Output in cooling	Annual consump-		Annual consump- tion kWh/year	Unit type	Liquid attach- ments mm	Gas attach- ments mm	L/H max	Energy efficiency class		Code
	(T=+35 °C) kW	(,	(Pdesign T=-10 °C) kW					m	SEER &§≋	SCOP &S≋	
AMC 25 P	2,50	107	2,40	798	Indoor				A++	A+	20151549
AARIA MONO 25 PLUS					Outdoor						20151556
AARIA AMC P MONO 25 PLUS						6,35	9,52	15/10			20161593
AMC 35 P	3,50	157	2,90	962	Indoor				A++	A+	20151550
AARIA MONO 35 PLUS					Outdoor						20151557
AARIA AMC P MONO 35 PLUS						6,35	9,52	15/10			20161594
AMC 42 P	4,20	208	3,20	1115	Indoor				A++	A+	20151551
AARIA MONO 50 PLUS					Outdoor						20151558
AARIA AMC P MONO 50 PLUS						6,35	12,7	25/15			20161595

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Performance refers to the following conditions:

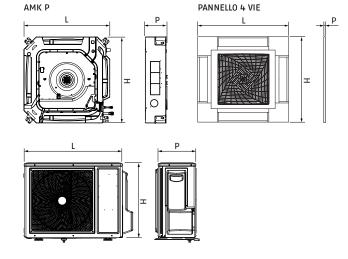
- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.

- heating: indoor unit air inlet temperature 20°C Tb.s.
Prices do not include the WEEE contribution.

Cassette mono inverter air conditioners

AARIA MONO PLUS-AMK







- Monosplit Inverter with cassettes
- R32 heat pump, low environmental impact
- With remote control
- Condensate drain pump on the unit

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMK 35 P	Indoor	570	570	260	19
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
4 WAY PANEL AMK 25-35-50 P	Panel	700	700	60	2
AMK 50 P	Indoor	570	570	260	19
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8
4 WAY PANEL AMK 25-35-50 P	Panel	700	700	60	2

AARIA MONO PLUS air conditioners, Cassette installation, are designed as a medium and small size residential environment, to allow proposals with high energy efficiency and modern design. The unit with R32 refrigerant with low environmental impact reaches classes of energy efficiency A +++ / A ++.

The centrifugal fan of the indoor unit has three speeds that allow to reach low level of noise at super-low speed. The unit is ultra compact with a depth of 260 mm with a 700x700 mm cover panel. The outdoor unit has a high efficiency rotary compressor which reduces vibrations to a minimum and is characterized by perfect sound-proofing insulation..

- QUIET function for ultra silent operation
- **DEHUMIDIFICATION** operation
- AUTORESTART function in case of power failure
- POWER mode for fast temperature reaching
- Outdoor unit complete with attachment covers
- Infrared remote control as standard

TECHNICAL DATA

RIELLO

Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consump- tion kWh/year	Unit type	Liquid attach- ments mm	Gas attach- ments mm	L/H max m		ergy cy class SCOP &	Code
AMK 35 P	3,5	187	3	1025	Indoor				A++	Α	20151429
AARIA MONO 35 PLUS					Outdoor						20151557
4 WAY PANEL AMK 25-35-50 P						6,35	9,52	15/10			20151431
AARIA AMK 35 P SET											20161587
AMK 50 P	5	264	4,5	1425	Indoor				A++	Α	20151430
AARIA MONO 50 PLUS					Outdoor						20151558
4 WAY PANEL AMK 25-35-50 P						6,35	12,7	25/15			20151431
AARIA AMK 50 P SET											20161589

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone. The performances refer to the following conditions:

Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.

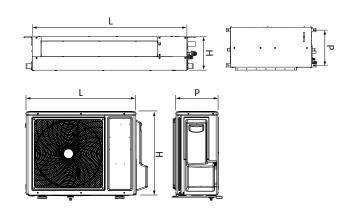
Heating: indoor unit input air temperature 20 °C Tb.s.

Prices do not include the WEEE contribution.

Duct-connected mono inverter air conditioners

AARIA MONO PLUS-AMD







- Monosplit Ducted inverter
- R32 heat pump, low environmental impact
- With wired remote control
- The indoor unit with 185 mm in height

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMD 35 PA	Indoor	185	850	420	15,5
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
AMD 50 PA	Indoor	185	1170	420	21,5
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8

AARIA MONO PLUS air conditioners, with Duct installation, are designed as a medium and small size residential environment, to allow proposals with high energy efficiency and modern design. The unit with R32 refrigerant with low environmental impact reaches classes of energy efficiency A +++ / A ++.

AARIA MONO PLUS - AMD range has two models from 3.5 kW and 5.0 kW.

The fan of the indoor unit is ductable, with three speeds allowing to reach high levels of silence. With a height of 185 mm the unit is one of the most compact in its category. The outdoor unit has a high efficiency rotary compressor to minimize vibrations and is characterized by a perfect sound insulation.

- QUIET function for ultra silent operation
- **DEHUMIDIFICATION** operation
- AUTORESTART function in case of power failure
- POWER mode for fast temperature reaching
- Outdoor unit complete with attachment covers
- Standard wired control.

TECHNICAL DATA

Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consumption kWh/year	Unit type	Liquid attach- ments mm	Gas attach- ments mm	L/H max m		ergy icy class SCOP &	Code
AMD 35 PA	3,5	187	3	1025	Indoor				A++	Α	20151424
AARIA MONO 35 PLUS					Outdoor						20151557
AARIA AMD 35 PA SET						6,35	9,52	15/10			20161585
AMD 50 PA	5	264	4,5	1425	Indoor				A++	Α	20151425
AARIA MONO 50 PLUS					Outdoor						20151558
AARIA AMD 50 PA SET						6,35	12,7	25/15			20161586

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone. The performances refer to the following conditions:

- Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.

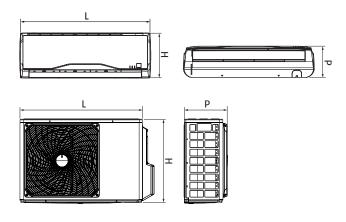
- Heating: indoor unit input air temperature 20 $^{\rm o}{\rm C}$ Tb.s. Prices do not include the WEEE contribution.



Wall-mounted mono inverter air conditioners

AARIA START







- Monosplit wall-mounted inverter
- R32 heat pump, low environmental impact
- Energy efficiency class A++/A+

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMW 25 ST	Indoor	280	820	195	8,8
AARIA START 25	Outdoor	540	780	245	27,0
AMW 35 ST	Indoor	280	820	195	8,8
AARIA START 35	Outdoor	540	780	245	28,0
AMW 50 ST	Indoor	318	1008	225	11,6
AARIA START 50	Outdoor	614	820	338	37,8
AMW 70 ST	Indoor	335	1125	240	14,0
AARIA START 70	Outdoor	697	890	353	51,0

The AARIA START air conditioners, for installation on a wall, the ideal Riello solutions for small and medium sized homes. The unit with the low environmental impact R32 refrigerant attains energy efficiency values equivalent to class A++/A+, thanks to the Inverter technology.

The AARIA START range has four models, from 2.6 kW up to 7.0 kW when cooling.

The fan of the 4-speed indoor wall unit allows you to reach high levels of silence, up to 20 dB(A), at an extremely ow speed. The outdoor unit has a high efficiency rotary compressor with sound-absorbing insulation.

Using the infra-red remote control that is supplied it is possible to manage all the unit's function.

The AARIA START air conditioners are equipped with an optional Wi-Fi kit, for complete management using a specific RiCLOUD AC APP.

- SMART mode for automatic operation
- SLEEP function for maximum night-time comfort
- QUIET function for ultra-silent operation
- AUTORESTART function if the power supply is interrupted
- Outdoor unit complete with connection covers
- Infra-red remote control supplied

Description	Output in cooling	Annual con- sumption	Output in heating	Annual con- sumption	Unit type	Liquid attach-	Gas attach-	L/H max m		ergy ncy class	Code
	(T=+35 °C) kW	kWh/year	(Pdesign T=-10 °C) kW	kWh/year		ments mm	ments mm		SEER &	SCOP ‰≋	
AMW 25 ST	2,6	147	2,4	839	Indoor				A++	A+	20139544
AARIA START 25					Outdoor						20139542
AARIA AMW 25 START SET						6,35	9,52	15/10			20140092
AMW 35 ST	3,6	186	3,2	1123	Indoor				A++	A+	20139545
AARIA START 35					Outdoor						20139546
AARIA AMW 35 START SET						6,35	9,52	15/10			20140095
AMW 50 ST	5,2	268	5,2	1819	Indoor				A++	A+	20139547
AARIA START 50					Outdoor						20139548
AARIA AMW 50 START SET						6,35	12,7	25/15			20140096
AMW 70 ST	7,0	350	5,6	1963	Indoor				A++	A+	20139549
AARIA START 70					Outdoor						20139550
AARIA AMW 70 START SET						6,35	12,7	25/15			20140106

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone. The performances refer to the following conditions:

Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.

Heating: indoor unit input air temperature 20 °C Tb.s.

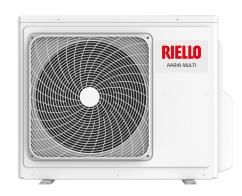
Prices do not include the WEEE contribution.

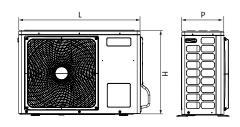
Drawing	Description	Code
	Air conditioner Wi-Fi interface kit	20161702

COMPLEMENTARY

Multi inverter air conditioners

AARIA MULTI PLUS







- Multisplit DC inverter air conditioner
- Multi range of up to 4 indoor units
- R32 heat pump with low environmental impact

Description	Unit type	H mm	L mm	P mm	Net weight kg
AARIA MULTI 250 P	Outdoor	553	800	275	36
AARIA MULTI 355 P	Outdoor	700	890	340	51
AARIA MULTI 370 P	Outdoor	700	890	340	54
AARIA MULTI 475 P	Outdoor	700	890	340	61
AARIA MULTI 485 P	Outdoor	700	890	340	61
AARIA MULTI 590 P	Outdoor	760	920	372	66

The AARIA MULTI PLUS range has been designed to serve several rooms with the use of just a single outdoor unit. The main feature is the flexibility of the choices of the indoor units with a wide selection of wall-mounted, duct-connected and cassettes.

AARIA MULTI PLUS is available in 5 models from 5 kW to 8.5 kW of delivered cooling capacity, providing state-of-the-art energy performances. The unit with the low environmental impact R32 refrigerant attains energy efficiency values equivalent to class A++/A+, thanks to the Inverter technology. The metal outdoor unit that is pre-coated to withstand the elements has attachment covers and a plastic front grille.

The high efficiency TWIN ROTARY compressor can reduce vibrations to a minimum.

- Condensing unit with up to 4 attachments for the indoor units
- Wide range of indoor units: wall, cassettes and duct-connected
- DC Inverter technology
- High SCOP and SEER
- Up to 100 m long pipes
- Operating limit of the outdoor unit: AARIA MULTI 250 P down to -15°C in heating mode and up to +43°C in cooling mode; AARIA MULTI 355 590 P down to -25°C in heating mode and up to +43°C in cooling mode
- Compact dimensions
- High energy efficiency class for low consumption.

Description	Unit type	Indoor unit combination	Output in cooling (T=+35°C) kW	Output in heating (Pdesign T=-10°C) kW	Liquid attachments mm	Gas attachments mm		ergy cy class SCOP So≋	Code
AARIA MULTI 250 P	DUAL (1:2)	2x3,5	5,0	5,2	2x6,35	2x9,52	A++	A+	20171566
AARIA MULTI 355 P	TRIAL (1:3)	3x2,5	5,5	4,7	3x6,35	3x9,52	A++	A+	20175226
AARIA MULTI 370 P	TRIAL (1:3)	3x2,5	7,0	6,0	3x6,35	3x9,52	A++	A+	20175227
AARIA MULTI 475 P	QUADRI (1:4)	4x2,5	7,5	6,3	4x6,35	3x9,52+1x12,7	A++	A+	20175228
AARIA MULTI 485 P	QUADRI (1:4)	4x2,5	8,5	7,0	4x6,35	3x9,52+1x12,7	A++	A+	20175229
AARIA MULTI 590 P	PENTA (1:5)	5x2,5	9,0	7,2	5x6,35	3x9,52+2x12,7	A++	A+	20175230

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone. The performances refer to the following conditions:

Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.

Heating: indoor unit input air temperature 20 °C Tb.s.

Prices do not include the WEEE contribution.

TECHNICAL DATA OF WALL-MOUNT INDOOR UNITS



Description	Output in cooling kW	Output in heating kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMW 20 P	2	2,3	25	230/1/50	600	280/855/200	6,35	9,52	20148316
AMW 25 P	2,5	2,8	25	230/1/50	600	280/855/200	6,35	9,52	20127839
AMW 35 P	3,5	3,8	25	230/1/50	650	280/855/200	6,35	9,52	20127841
AMW 50 P	5,2	6,0	40	230/1/50	900	332/997/230	6,35	12,70	20127842
AMW 70 P	7,0	8,1	45	230/1/50	1100	336/1115/243	9,52	15,88	20148318

TECHNICAL DATA OF CEILING/FLOOR INDOOR UNITS



Description	Output in cooling kW	Output in heating kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMS 35 P	3,5	4,0	30	230/1/50	750	680/1000/230	6,35	9,52	20151552
AMS 50 P	5,0	5,8	30	230/1/50	880	680/1000/230	6,35	12,70	20151553
AMS 70 P	7,0	7,5	120	230/1/50	1250	680/1325/230	9,52	15,88	20151554

TECHNICAL DATA OF FLOOR INDOOR UNITS



Description	Output in cooling kW	Output in heating kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMC 25 P	2,5	2,8	40	230/1/50	400	600/700/210	6,35	9,52	20151549
AMC 35 P	3,4	3,5	40	230/1/50	450	600/700/210	6,35	9,52	20151550
AMC 42 P	4,2	4,7	40	230/1/50	530	600/700/210	6,35	9,52	20151551

TECHNICAL DATA OF INDOOR CASSETTE UNITS



RIELLO

Description	Output in cooling kW	Output in heating (Pdesign) kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMK 25 P	2,6	3,2	33	230/1/50	510	260/570/570	6,35	9,52	20151428
4 WAY PANEL AMK 25-35-50 P						60/700/700			20151431
SET AMK 25 P									20154918
AMK 35 P	3,5	4,0	35	230/1/50	620	260/570/570	6,35	9,52	20151429
4 WAY PANEL AMK 25-35-50 P						60/700/700			20151431
SET AMK 35 P									20154921
AMK 50 P	5,0	5,5	38	230/1/50	700	260/570/570	6,35	12,70	20151430
4 WAY PANEL AMK 25-35-50 P						60/700/700			20151431
SET AMK 50 P									20154920
AMK 70 P	7,1	8,0	50	230/1/50	1260	204/840/840	9,52	15,88	20151432
4 WAY PANEL AMK 70 P						50/950/950			20151433
SET AMK 70 P									20155179

TECHNICAL DATA OF DUCTED INDOOR UNITS



Description	Output in cooling kW	Output in heating (Pdesign) kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMD 25 PA	2,5	3,0	17	230/1/50	530	185/850/420	6,35	9,52	20151422
AMD 35 PA	3,5	4,0	28	230/1/50	600	185/850/420	6,35	9,52	20151424
AMD 50 PA	5,0	5,5	55	230/1/50	900	185/1170/420	6,35	12,70	20151425
AMD 70 PA	7,1	7,5	65	230/1/50	1000	185/1170/420	9,52	15,88	20151426
AMD 70 PB	7,1	8,0	200	230/1/50	1440	248/1100/700	9,52	15,88	20151427

ACCESSORIES

Drawing	Description	Code
	Air conditioner Wi-Fi interface kit for model AMW P	20161702
	IR remote control	20151562
	IR remote control receiver panel	20160625
© 04.9 2 4 5 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Wired remote control for AMK P models	20151469
23 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Centralised touch screen control N (compatible with models from AARIA MULTI 355 P)	20133642

The data and the efficiency classes are declared in conformity with EN 14825:

Cooling: Input air temperature 27 °C Tb.s., 19 °C Tb.u.; Outdoor air temperature 35 °C Tb.s.

Heating: Input air temperature 20 °C Tb.s., outdoor air temperature 7 °C Tb.s./6 °C Tb.u.

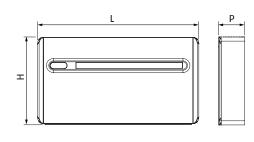
For system configurations, see the technical data sheet.

Prices do not include the WEEE contribution.

Monobloc air conditioners

AARIA ONE INVERTER





- Without outdoor unit
- Inverter monobloc with remote control
- Refrigerant R410A
- Heat pump operation

Description	H	L	P	Net weight
	mm	mm	mm	kg
AARIA ONE INVERTER 25	555	1030	170	46,5

AARIA ONE INVERTER is the Riello proposal for air conditioners without outdoor unit, which eliminates any disturbance from the decorative point of view outside the house. In fact, it allows you to considerably reduce the aesthetic impact of the outdoor units, especially in all the cases in which it is necessary to preserve the artistic heritage, such as historic buildings, museums, villas, where you do not want to give up the summer air conditioning and winter heating, or for all applications in which you want to eliminate the presence of the outdoor unit.

The AARIA ONE INVERTER unit can be installed on any perimeter wall in floor-standing or hanging version, making 162 millimetres holes in the wall.

The aesthetic impact is reduced significantly also inside the house thanks to a depth of only 170 mm, smaller than conventional indoor climate control units. The cooling power delivered in comfort conditions is 2.04 kW and in heat pump mode is 2.1 kW. If necessary, the Power mode can be selected, which allows the desired temperature to be reached in the shortest time possible; once reached, AARIA ONE INVERTER will return to comfort mode operation.

The infrared remote control is supplied as standard, and there is also a control panel on board the machine that allows you to set any function, including the "lock" function that prevents any inappropriate use of the appliance.

- Inverter compressor
- Power operation
- Easy installation: only two holes
- Floor-standing or hanging installation
- Reduced depth
- Condensate tray constantly heated.

TECHNICAL DATA

Description	Cooling power	Thermal power	Cooling absorbed	Heating absorbed	(Max/min) sound pressure level		ergy icy class	Code
	kW	kW	power W	power W	dB(A) (1)	SEER ‰≋	SCOP %≋	
AARIA ONE INVERTER 25	2,04	2,1	630	638	40/31	A+	А	20131342

Performance refers to the following conditions:

- cooling: room air temperature 27°C, outdoor air temperature 35°C. heating: room air temperature 20°C, outdoor air temperature 7°C. Values referred to 2 m distance from the machine on the inside.
- Prices do not include the WEEE contribution.

PROFESSIONAL AIR CONDITIONERS



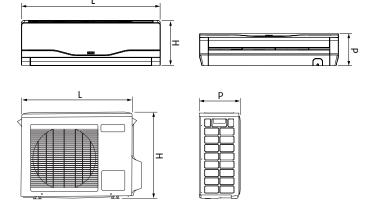
AIR CONDITIONERS FOR COMMERCIAL ENVIRONMENTS

	WALL		CEILING/FLOOR	CASSETTE		DUCTED			
NVERTER CHING		AARIA PRO AMW 70 P	AARIA PRO AMS 70-170 P		AARIA PRO AMK 70-170 P		AARIA PRO AMD 70-170 P		
MONO INVE MATCHIN		page 364	page 245		nago 367		nage 360		
		page 504	page 365		page 367		page 369		

Wall-hung mono inverter air conditioners

AARIA PRO P-AMW







- Wall-hung Inverter monosplit
- Heat pump in R32 with low environmental
- Energy class up to A+++/A++ for low consumption

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMW 70 P	Indoor	336	1115	243	16,0
AARIA PRO P 1070 M	Outdoor	730	860	308	46

The AARIA PRO P-AMW series is the ideal ceiling solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings. AARIA PRO offers cooling power ratings from 7.3 to 12.9 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1125 to 1140.

The high operating limits (down to −15 °C) ensure effective use for both summer cooling and winter heating, with high seasonal efficiency. The ceiling indoor units have a high control of the air flow, both in horizontal and vertical direction, thanks to the motorized fins with five steps.

All the machines allow a connection for the introduction of fresh air into the indoor space.

The ranges are supplied complete with infrared remote control.

- AUTORESTART function in case of blackout
- Indoor unit with fan suitable for quiet operation
- Easy filter maintenance and accessibility
- Possible intake of outdoor fresh air
- Infrared control included.

TECHNICAL DATA

Description	Unit type	Power supply	Liquid connections	Connections gas	0	1	max cooling r					cooling mode		cooling mode		Output in heating mode		ergy cy class	Code
		V/Ph/Hz	mm	mm	m	(T=+	35 °C)	(T=+	7 °C)	SEER	SCOP								
						kW	SEER	kW	SCOP	&≋	%≣								
AARIA PRO P 1070 M	Outdoor	230/1/50								A++	A+	20153499							
AMW 70 P	Indoor	230/1/50								-	-	20148318							
AARIA PRO P 70 M SET			9,52	15,88	25/15	7,0	7,1	8,0	4,0	-	-	20166998							

Prices do not include the WEEE contribution.

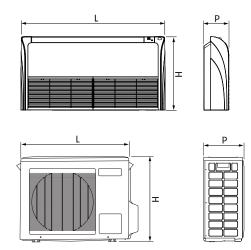
Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.

- Performance refers to the following conditions:
 cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

Ceiling/floor-standing mono inverter air conditioners

AARIA PRO P-AMS







- Ceiling/floor-standing Inverter Monosplit
- Heat pump in R32 with low environmental
- Energy class up to A++/A

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMS 70 P	Indoor	680	1000	230	26,0
AARIA PRO P 1070 M	Outdoor	730	860	308	46
AMS 100 P	Indoor	680	1325	230	33,5
AARIA PRO P 1100 M	Outdoor	760	920	372	60
AMS 125 P	Indoor	680	1650	230	43,0
AARIA PRO P 1125 M	Outdoor	965	950	370	83
AMS 125 P	Indoor	680	1650	230	43,0
AARIA PRO P 1125 T	Outdoor	965	950	370	85
AMS 140 P	Indoor	680	1650	230	43
AARIA PRO P 1140 T	Outdoor	1350	950	370	105

The AARIA PRO P-AMS series is the ideal ceiling solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings. AARIA PRO offers cooling power ratings from 7.3 to 12.9 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1125 to 1140.

The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with high seasonal

The ceiling indoor units have a high control of the air flow, both in horizontal and vertical direction, thanks to the motorized fins with five steps. All the machines allow a connection for the introduction of fresh air into the indoor space. The ranges are supplied complete with infrared remote control.

- AUTORESTART function in case of blackout
- Indoor unit with fan suitable for quiet operation
- Easy filter maintenance and accessibility
- Possible intake of outdoor fresh air
- Infrared control included.

RIELLO

Description	Unit type	Power supply V/Ph/Hz	Liquid connections mm	Connections gas mm	L/H max m	Output in cooling mode (T=+35 °C)		heatin	ut in g mode 7°C)	efficier SEER	ergy icy class SCOP	Code
						kW	SEER	kW	SCOP	%≣	%≣	
AARIA PRO P 1070 M	Outdoor	230/1/50								A++	А	20153499
AMS 70 P	Indoor	230/1/50								_	_	20151554
AARIA PRO AMS P 70M SET			9,52	15,88	25/15	6,9	6,1	7,5	3,8	_	_	20166939
AARIA PRO P 1100 M	Outdoor	230/1/50								A+	Α	20159411
AMS 100 P	Indoor	230/1/50								-	-	20159404
AARIA PRO AMS P 100M SET			9,52	15,88	50/30	9,5	6,03	10,2	3,8	_	_	20167018
AARIA PRO P 1125 M	Outdoor	230/1/50										20159412
AMS 125 P	Indoor	230/1/50								_	_	20159405
AARIA PRO AMS P 125M SET			9,52	15,88	50/30	12	5,86	12,5	3,81			20167019
AARIA PRO P 1125 T	Outdoor	400/3/50										20159413
AMS 125 P	Indoor	230/1/50								-	-	20159405
AARIA PRO AMS P 125T SET			9,52	15,88	50/30	12	5,86	12,5	3,81			20167020
AARIA PRO P 1140 T	Outdoor	400/3/50										20159414
AMS 140 P	Indoor	230/1/50								_	_	20159406
AARIA PRO AMS P 140T SET			9,52	15,88	75/30	12,9	6,1	14,1	4,0			20167021

(1) Prices do not include the WEEE contribution.
Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.

Performance refers to the following conditions:

- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.

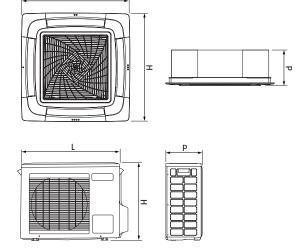
- heating: indoor unit air inlet temperature 20°C Tb.s.

Drawing	Description	Code
0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Wired control	20151469

Mono inverter-case air conditioners

AARIA PRO P-AMK







- Monosplit Inverter cassette
- Heat pump in R32 with low environmental impact
- Energy class up to A++/A

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMK 70 P	Interna	840	840	204	27
AARIA PRO P 1070 M	Esterna	730	860	308	46
Cover panel		950	950	50	6,5
AMK 100 P	Interna	840	840	246	31
AARIA PRO P 1100 M	Esterna	760	920	372	60
Cover panel		950	950	50	6,5
AMK 125 P	Interna	840	840	288	32,0
AARIA PRO P 1125 M	Esterna	965	950	370	83
Cover panel		950	950	50	6,5
AMK 125 P	Interna	840	840	288	32,0
AARIA PRO P 1125 T	Esterna	965	950	370	85
Cover panel		950	950	50	6,5
AMK 140 P	Interna	840	840	288	32,0
AARIA PRO P 1140 T	Esterna	1350	950	370	105
Cover panel		950	950	50	6,5

The AARIA PRO P-AMK series is the ideal cassette solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings.

AARIA PRO P offers cooling power ratings from 7.1 kW to 12.2 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1025 to 1140. The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with high seasonal efficiency. The AMK-P indoor cassette units are designed for recessed ceiling installation and their dimensions are 840x840 mm.

The design features a plastic cover panel with central air intake and 4-way delivery, with individually orientable ventilation. The unit is complete with infrared control.

- AUTORESTART function in case of blackout
- Indoor unit with fan suitable for quiet operation
- Condensate pump on board of the unit
- Easy filter maintenance and accessibility
- Possible intake of additional air
- Infrared control.

RIELLO

Description	Unit type	Electrical power supply V/Ph/Hz	Liquid connections mm	Connections gas mm	L/H max m	cooling	out in g mode 35°C)	heatin	ut in g mode 7°C)	efficien SEER	ergy cy class SCOP	Code
						kW	SEER	kW	SCOP	%≋	%≋	
AARIA PRO P 1070 M	Outdoor	230/1/50								A++	Α	20153499
AMK 70 P	Indoor	230/1/50								-	-	20151432
Cover panel										-	-	20151433
AARIA PRO AMK P 70M SET (2)			9,52	15,88	25/15	7,1	6,1	8,0	3,8	-	-	20167000
AARIA PRO P 1100 M	Outdoor	230/1/50								A+	А	20159411
AMK 100 P	Indoor	230/1/50								-	-	20158940
Cover panel										-	-	20151433
AARIA PRO AMK P 100M SET			9,52	15,88	50/30	9,0	5,7	10,1	3,8	-	-	20167001
AARIA PRO P 1125 M	Outdoor	230/1/50								-	-	20159412
AMK 125 P	Indoor	230/1/50								_	_	20158941
Cover panel										_	_	20151433
AARIA PRO AMK P 125M SET			9,52	15,88	50/30	12	5,9	12,3	3,7	-	_	20167003
AARIA PRO P 1125 T	Outdoor	400/3/50								-	-	20159413
AMK 125 P	Indoor	230/1/50								-	_	20158941
Cover panel										-	_	20151433
AARIA PRO AMK P 125T SET			9,52	15,88	50/30	12	5,9	12,3	3,7	-	_	20167004
AARIA PRO P 1140 T	0utdoor	400/3/50								-	-	20159414
AMK 140 P	Indoor	230/1/50								-	_	20158942
Cover panel										-	_	20151433
AARIA PRO AMK P 140T SET			9,52	15,88	75/30	12,2	5,1	14,3	3,7	-	_	20167005

(1) Prices do not include the WEEE contribution.

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.

Performance refers to the following conditions:

- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.

- heating: indoor unit air inlet temperature 20°C Tb.s.

(2) The product is eligible for the Italian "conto termico".

ACCESSORIES

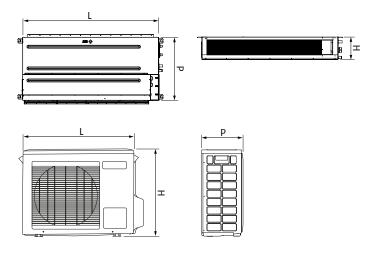
Drawing	Description	Notes	Code
	IR remote control	(1)	20151562
6 6 0 	IR remote control receiver panel	(1)	20160625
© 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Wired control		20151469

Already included as standard in AMK models.

Mono inverter air conditioners-ductable

AARIA PRO P-AMD







- Ducted Inverter Monosplit
- Heat pump in R32 with low environmental impact
- Energy class up to A+/A

Description	Unit	Н	L	Р	Net weight
	type	mm	mm	mm	kg
AMD 70 PA	Indoor	185	1170	420	21,5
AARIA PRO P 1070 M	Outdoor	730	860	308	46
AMD 70 PB	Indoor	248	1100	700	36
AARIA PRO P 1070 M	Outdoor	730	860	308	46
AMD 100 PB	Indoor	248	1500	700	35
AARIA PRO P 1100 M	Outdoor	760	920	372	60
AMD 125 PB	Indoor	248	1500	700	52
AARIA PRO P 1125 M	Outdoor	965	950	370	83
AMD 125 PC	Indoor	425	1350	490	61
AARIA PRO P 1125 M	Outdoor	965	950	370	83
AMD 125 PB	Indoor	248	1500	700	52
AARIA PRO P 1125 T	Outdoor	965	950	370	85
AMD 125 PC	Indoor	425	1350	490	61
AARIA PRO P 1125 T	Outdoor	965	950	370	85
AMD 140 PB	Indoor	248	1500	700	52,0
AARIA PRO P 1140 T	Outdoor	1350	950	370	105
AMD 140 PC	Indoor	425	1350	490	61,0
AARIA PRO P 1140 T	Outdoor	1350	950	370	105

The AARIA PRO P-AMD series is the ideal ductable solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings.

AARIA PRO P-AMD offers cooling power ratings from 7.1 kW to 13.5 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1125 to 1140. The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with seasonal efficiency among the highest on the market. AMD indoor units are preset for installations requiring air ducting.

The compact size and the versatility of the range, with heads up to 250 Pa, allow a high variety of installations. The offer is complete with the wired control.

- AUTORESTART function in case of blackout
- Easy filter maintenance and accessibility
- Wired control included

RIELLO

Description	Unit type	Power supply	Liquid connections	Connections gas	max	Head Pa	cooling	ut in g mode	heatin	out in g mode		ergy cy class	Code
		V/Ph/Hz	mm	mm	m		(1=+	35 °C)	(1=+	·7 °C)	SEER	SCOP	
							kW	SEER	kW	SCOP	&≋	%≋	
AARIA PRO P 1070 M	Outdoor	230/1/50							ĺ	ĺ	A++	А	20153499
AMD 70 PA	Indoor	230/1/50									-	-	20151426
AARIA PRO AMD P 70M SET A (3)			9,52	15,88	25/15	0/40	7,1	6,1	7,5	3,8	-	-	20167006
AARIA PRO P 1070 M	0utdoor	230/1/50									A++	A+	20153499
AMD 70 PB	Indoor	230/1/50									-	-	20151427
AARIA PRO AMD P 70M SET B (2)(3)			9,52	15,88	25/15	25/150	7,1	6,1	8,0	4,0	-	-	20167008
AARIA PRO P 1100 M	0utdoor	230/1/50									A+	Α	20159411
AMD 100 PB	Indoor	230/1/50									-	-	20158936
AARIA PRO AMD P 100M SET B			9,52	15,88	50/30	25/150	9,5	5,6	10,2	3,8	-	-	20167009
AARIA PRO P 1125 M	0utdoor	230/1/50									-	-	20159412
AMD 125 PB	Indoor	230/1/50									-	-	20158937
AARIA PRO AMD P 125M SET B			9,52	15,88	50/30	25/150	11,9	5,6	12,2	3,8	-	-	20167010
AARIA PRO P 1125 M	0utdoor	230/1/50									-	-	20159412
AMD 125 PC	Indoor	230/1/50									-	-	20159407
AARIA PRO AMD P 125M SET C			9,52	15,88	50/30	40/250	12	5,8	12,2	3,7	-	-	20167014
AARIA PRO P 1125 T	0utdoor	400/3/50									-	-	20159413
AMD 125 PB	Indoor	230/1/50									_	-	20158937
AARIA PRO AMD P 125T SET B			9,52	15,88	50/30	25/150	11,9	5,6	12,2	3,6	-	-	20167012
AARIA PRO P 1125 T	Outdoor	400/3/50									-	-	20159413
AMD 125 PC	Indoor	230/1/50									-	-	20159407
AARIA PRO AMD P 125T SET C			9,52	15,88	50/30	40/250	12	5,8	12,2	3,7	-	-	20167015
AARIA PRO P 1140 T	Outdoor	400/3/50									-	-	20159414
AMD 140 PB	Indoor	230/1/50									-	-	20158938
AARIA PRO AMD P 140T SET B (3)			9,52	15,88	75/30	25/150	12,5	6,1	14,5	3,8	-	-	20167016
AARIA PRO P 1140 T	Outdoor	400/3/50									-	-	20159414
AMD 140 PC	Indoor	230/1/50									-	-	20159408
AARIA PRO AMD P 140T SET C (3)			9,52	15,88	75/30	40/250	13,5	6,1	15	4	_	-	20167017

- (1) Prices do not include the WEEE contribution.
 (2) The product is eligible for the Ecobonus tax deduction.
 (3) The product is eligible for the Italian "Conto Termico".

 Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.

 Performance refers to the following conditions:

 cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.

 heating: indoor unit air inlet temperature 20°C Tb.s.

Drawing	Description	Code
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IR remote control	20151562
	IR remote control receiver panel	20160625

WATER CHILLERS



COLD ONLY

AIR CONDENSERS FOR



NXC

NXC 017÷040

page 372



NXC

NXC 044÷164

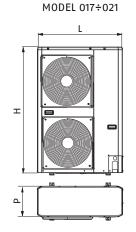
page 373

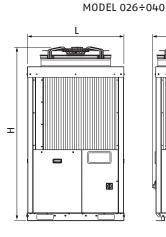
Air cooled process water chillers

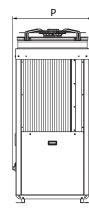
NXC 017÷040

Product compliant with EU Ecodesign Regulation 2015/1095 for medium temperature process applications.









ERP

 Air cooled water chillers for powers from 17 kW to 41 kW with hydronic kit as standard

Description	H mm	L mm	P mm
NXC 017-021	1579	1136	584
NXC 026÷040	1790	1002	824

The NXC series units are air cooled water chillers with pumping unit and self-adaptive control, which allows a reduction of the quantity of water in the system.

These features, the wide operating range with outdoor temperatures up to +46°C (017-021 models) and up to +48°C (026-040 models) make this series ideal for applications where extreme compactness, simplicity and speed of installation are required. The unit is silent thanks to the high efficiency scroll compressor and the low noise axial fan.

- Plug & Play solution with pump on board the machine
- Easy maintenance by removing the service panels
- Microprocessor-based self-adaptive control system.

TECHNICAL DATA

Description	Output (1) kW	EER (1)	SEPR (2)	Notes	Code
NXC 017	22,70	3,83	2,79	(D)(3)	20120382
NXC 021	29,50	3,88	2,92	(D)(3)	20120383
NXC 026	38,40	3,94	2,97	(D)(3)	20120384
NXC 033	45,40	4,03	2,89	(D)(3)	20120385
NXC 040	57,00	3,47	2,96	(D)(3)	20120386

- The performance is in accordance with standard EN 14511–3:2013 and refers to the following conditions:

 (1) Reference standard EN 14511–3:2013 for delivery water temperature 18°C with water thermal gradient of 5°C; inlet air temperature 35°C.

 (2) Reference standard EU 2015/1095 for delivery water temperature conditions –8°C with water thermal gradient of 5°C (medium temperature process applications).
- Availability of the material at our warehouse: 30 working days from the order validation date. For 7000 ACI PLUS tank accessories, refer to the dedicated section.

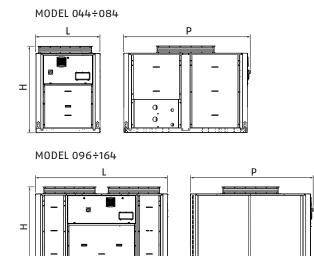
Air cooled water chillers

NXC 044÷164





 Air cooled water chillers with helical fans from 40 kW to 156 kW, with ecological refrigerant R410A



Description	Н	L	Р
	mm	mm	mm
NXC 044÷084	1330	1090	2110
NXC 096÷164	1330	2270	2110

^{*} Height without "Tank" option.

The NXC series units are chillers for air conditioning of commercial users for outdoor installation, available with various options to choose from such as: one pump, two pumps, with or without tank, with or without partial recoverer.

Maximum reliability and efficiency thanks to the high level of partialization: for powers up to 114 kW with two/three single-circuit Scroll compressors, while for powers of 135 KW and 156 kW with four compressors divided into two circuits. The water-side exchanger is of the brazed plate type.

The units are equipped with axial fans with external rotor with variable speed, to ensure operation with outdoor temperatures up to +46°C. Intuitive interface thanks to the touch screen control with possible M-BUS connection.

- Plug & Play solution with pump(s) on board the machine (optional)
- Low aesthetic impact thanks to the reduced height
- Easy maintenance by removing the service panels
- Touch screen control panel with possible M-BUS connection
- Condensing coil protection grilles not included.

RIELLO

Description	Output (1) kW	EER (1)	Output (2) kW	EER (2)	SEER (3)	SEER (4)	SEPR (5)	ηs cool (6) %	Notes	Code	
UNIT WITHOUT HYDRAULI	NIT WITHOUT HYDRAULIC KIT (FURTHER CONFIGURABLE WITH LIST OF OPTIONS)										
NXC 044	53	3,44	40	2,87	3,95	4,65	5,27	155	(D)	20120391	
NXC 048	59	3,32	44	2,76	4,11	5,07	5,31	161	(D)	20120392	
NXC 056	69	3,12	51	2,67	4,21	4,94	5,26	166	(D)	20120393	
NXC 064	81	3,31	58	2,66	4,10	4,90	5,09	161	(D)	20120394	
NXC 072	85	2,97	67	2,72	3,90	4,74	4,92	153	(D)	20120396	
NXC 084	98	3,06	79	2,70	4,02	5,13	5,16	158	(D)	20120397	
NXC 096	114	3,18	87	2,73	4,21	5,03	4,95	165	(7)(D)	20120398	
NXC 104	126	3,09	97	2,73	4,19	4,96	5,12	165	(7)(D)	20120399	
NXC 122	151	3,10	114	2,67	4,10	5,24	5,51	161	(7)(D)	20120400	
NXC 142	171	2,99	135	2,70	3,93	4,71	4,90	154	(7)(D)	20120401	
NXC 164	194	3,01	156	2,65	4,18	5,11	5,30	164	(7)(D)	20120402	

- (1) Reference standard EN 14511-3:2013 for delivery water temperature 18°C with water thermal gradient of 5°C; inlet air temperature 35°C.

 (2) Reference standard EN 14511-3:2013 for delivery water temperature 7°C with water thermal gradient of 5°C; inlet air temperature 35°C.

 (3) Reference standard EU 2016/2281 for delivery water temperature conditions 7°C with water thermal gradient of 5°C (low temperature comfort applications).

 (4) Reference standard EU 2016/2281 for delivery water temperature conditions 18°C with water thermal gradient of 5°C (medium temperature comfort applications).

 (5) Reference standard EU 2016/2281 for delivery water temperature conditions 7°C with water thermal gradient of 5°C (high temperature process applications).

 (6) Reference standard EU 2016/2281 for delivery water temperature conditions 7°C with water thermal gradient of 5°C (low temperature comfort applications).

 (7) Reference standard EU 2016/2281 for delivery water temperature conditions 7°C with water thermal gradient of 5°C (low temperature comfort applications).
- (7) Product not subject to standard transport rates. Please contact the Order Management Office for transport quote.
 (D) Availability of the material at our warehouse: 30 working days from the order validation date.

NXC 044÷084 OPTIONS LIST

Description		044	048	056	064	072	084	Notes
Silenced version	Code	20120616	20120619	20120619	20120619	20120622	20120622	(1)
Partial recoverer	Code	20120627	20120627	20120628	20120629	20120630	20120631	(1)
Hydraulic kit with 1 high head variable pump	Code	20120587	20120587	20120587	20120587	20120587	20120587	(1)
Hydraulic kit with 2 high head variable pumps	Code	20120592	20120592	20120592	20120592	20120592	20120592	(1)
Tank	Code	20120610	20120610	20120610	20120610	20120610	20120610	(1)
Soft starter	Code	20120656	20120656	20120656	20120656	20120656	20120656	(1)
Master/slave operation management	Code	20120659	20120659	20120659	20120659	20120659	20120659	(1)(2)
Vibration dampers	Code	20120640	20120640	20120640	20120640	20120640	20120640	(1)

(1) The options in the list below can be selected for "Silenced unit without hydraulic kit" and must be configured during the order.

(2) One kit required per unit (cascade up to a maximum of two units). Note: accessories have the same availability as the finished products.

NXC 096÷164 OPTIONS LIST

Description		096	104	122	142	164	Notes
Silenced version	Code	20120623	20120625	20120625	20120626	20120626	(1)
Partial recoverer	Code	20120632	20120632	20120634	20120636	20120637	(1)
Hydraulic kit with 1 high head variable pump	Code	20120588	20120588	20120589	20120589	20120589	(1)
Hydraulic kit with 2 high head variable pumps	Code	20120592	20120592	20120596	20120596	20120596	(1)
Tank	Code	20120611	20120611	20120611	20120611	20120611	(1)
Soft starter	Code	20120657	20120657	20120657	20120658	20120658	(1)
Master/slave operation management	Code	20120659	20120659	20120659	20120659	20120659	(1)(2)
Vibration dampers	Code	20120642	20120642	20120642	20120642	20120642	(1)

(1) The options in the list below can be selected for "Silenced unit without hydraulic kit" and must be configured during the order.

(2) One kit required per unit (cascade up to a maximum of two units). Note: accessories have the same availability as the finished products.



HEAT PUMPS

TERMINAL UNITS	<u> 111</u>
FAN COILS	378
DUCTABLE FAN COILS	401
WALL MOUNTED FAN COILS	406

FAN COILS



FOR HEATING AND COOLING RESIDENTIAL SYSTEMS

	FAN COILS		FAN COILS WI	TH RADIANT PLATE
WALL-MOUNTED FAN COILS		HELIOTERM DESIGN WALL 11-23 page 385		
FAN COILS WITH PANELS		HELIOTERM DESIGN S INVERTER 6-32 NEUTRON PAGE 388		
FAN		HELIOTERM DESIGN INVERTER 11-46 NOUNT TO SHARE THE SHA		HELIOTERM DESIGN INVERTER PLUS 11-46 NOUNTHESISSISSISSISSISSISSISSISSISSISSISSISSIS
FAN COILS FOR RECESSED INSTALLATION		HELIOTERM IN INVERTER 11–46 NOTIFY THE SHEET HORIZONTAL L R		HELIOTERM IN INVERTER PLUS 11-46 page 396
FAN COILS FOR RECESSED INSTALLATION IN BOX		HELIOTERM INVISIBLE INVERTER 11–46 Page 390 L R		HELIOTERM INVISIBLE INVERTER PLUS 11–46 page 393

HEAT PUMPS

PRODUCT CATALOGUE

 \overline{u} **FAN COILS**

FOR HEATING AND COOLING COMMERCIAL SYSTEMS

COMMERCIAL



NUOVO ACU NUOVO ACU F

ACU 12-93

page 406



FCU N

FCU 09-43

page 401



RK N HYDROLINE

RK 24N-96N

page 399

Wall-mounted Fan coils





Design Wall

 Wall-mounted fan coils with Brushless Inverter motor

Description	H mm	L mm	P mm
DESIGN WALL 11	335	902	128
DESIGN WALL 17	335	1102	128
DESIGN WALL 23	335	1302	128

DESIGN WALL is the new Riello wall-mounted fan coils range suitable for residential and small commercial applications.

Thanks to the DC-Brushless motor, the DESIGN WALL fan coils are able to operate with an high modulation of air flow rate, from 0 up to 100%, in order to keep a comfortable temperature inside the room and to ensure the minimum-noise operation.

The range is characterized by an ultra slim aesthetic, with a depth of only 128 mm, to guarantee a perfect integration within the

 $\overset{\cdot}{\text{Motorized}}$ flaps distribute air uniformly throughout the room.

The DESIGN WALL is available in two versions: equipped with remote control and on board touch display or in combination with control panel wall mounted TOP (Design Wall 11÷23P).

Three models are available, with power from 1140 W up to 2340 W in cooling mode from 1610 W to 3250 W in heating mode.

- All three are available in the two versions with remote control or control panel wall mounted TOP.
- Ultra slim design
- 128 mm of depth, also with 2-3 way valve on board
- Motorized flaps for a comfortable air distribution
- Touch display control

TECHNICAL DATA

Description	Power cooling 7 °C-12 °C (1) Watt	Power heating 50 °C (2) Watt	Power heating 70 °C-60 °C (3) Watt	Maximum air flow rate (4) m³/h	Sound pressure irradiation max-min (5) dB(A)	Notes	Code
WITH REMOTE CONTROL							
DESIGN WALL 11	1140	1610	2780	320	39,7-24,9		20117815
DESIGN WALL 17	1620	2350	4120	430	42,4-25,2		20117816
DESIGN WALL 23	2340	3250	5720	540	42,6-25,8		20117817
IN COMBINATION WITH CONTROL PAN	EL WALL MOUNTED	TOP					
DESIGN WALL 11 P	1140	1610	2780	320	39,7-24,9	(A)	20181396
DESIGN WALL 17 P	1620	2350	4120	430	42,4-25,2	(A)	20181398
DESIGN WALL 23 P	2340	3250	5720	540	42,6-25,8	(A)	20181400

- Performance refer to the following conditions:
 (1) Room air temperature 27 °C Tb.s. and 19 °C Tb.u.
 (2) Air temperature 20 °C Tb.s. and the same water flow rate achieved in cooling mode.
 (3) Air temperature 20 °C Tb.s.
- Air flow rate measured with cleaned filters. According to UNI EN ISO 7779:2001.
- Mandatory accessory.

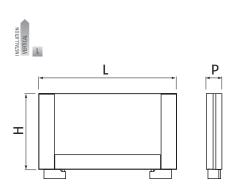
Drawing	Decription	Notes	Code
23	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
	Motorized 3 – ways valve kit.		20099251
4 \$	Motorized 2 – ways valve kit.		20099250
4	2 – ways taps kit.		20117090

⁽¹⁾ Mandatory accessory for Design Wall 11P÷23P.

Fan coil

Design Inverter Plus





 Tangential fan coils with radiant plate and Brushless inverter motor

Description	Н	L	P
	mm	mm	mm
DESIGN INVERTER PLUS 11	580	760	130
DESIGN INVERTER PLUS 21	580	960	130
DESIGN INVERTER PLUS 33	580	1160	130
DESIGN INVERTER PLUS 40	580	1360	130
DESIGN INVERTER PLUS 46	580	1560	130

DESIGN INVERTER PLUS is the TOP of what Riello has to offer for fan coils. It is ideal for providing superior comfort in heating mode. DESIGN INVERTER PLUS unites, thanks to its exclusive operating principle, the convective and ventilating effect with the radiant effect of the front panel, thereby increasing the wellness of the room.

In addition to the radiating effect, the entire range is equipped with the DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.

The DESIGN INVERTER PLUS very quickly heat and cool any area, with the possibility of selecting between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation.

Thanks to the use of the DC Brushless motors, the DESIGN INVERTER PLUS save up to 50% on electricity compared to the fan coils with traditional motors (type ON/OFF). Just like the entire HELIOTERM range, the DESIGN INVERTER PLUS range has an ULTRA FLAT appearance, with a depth of just 13 cm and an automatic suction system.

The range is available in 5 models with outputs in cooling mode from 830 W up to 4560 W and in heating mode from 1150 W up to 4860 W.

The vast range of accessories and controls with touch DISPLAY support a wide range of applications. The versions that can be installed vertically with connections on the left.

The structure is made of galvanised sheet metal with sides made of ABS; the front delivery grille is made of aluminium.

- FULL FLAT with an automatic suction system
- Depth of 13 cm
- Terminal with radiating effect
- Easy to remove and clean the filters
- Touch Display commands

Description	7°C-1	cooling 2°C (1) N	50°	heating C (2) V	Maximum air flow rate (4) m³/h		max-r	re irradiation nin (5) (A)	Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort	
WHITE FAN COIL WITH RADIANT HEAT PLATE	AND AUTO	OMATIC AIR	VENTILATION	N					
DESIGN INVERTER PLUS 11B	1095	830	1515	1150	197	162	42,2÷24,2	39,4÷24,2	20116258
DESIGN INVERTER PLUS 21B	2120	1760	2885	2460	389	320	43,1÷25,3	40,2÷25,3	20116260
DESIGN INVERTER PLUS 33B	3310	2650	4140	3410	560	461	45,5÷25,6	42,2÷25,6	20116261
DESIGN INVERTER PLUS 40B	3875	3340	5015	4400	699	576	45,9÷26,3	42,5÷26,3	20116263
DESIGN INVERTER PLUS 46B	4560	3800	5910	5200	787	648	47,2÷27,6	43,9÷27,6	20116264

Performance refer to the following conditions:
(1) Room air temperature 27 °C d.b. and 19 °C w.b.
(2) Air temperature 20 °C and the same water flow rate achieved in cooling mode.
(3) Air temperature 20 °C
(4) Air temperature 20 °C; main fan in "off".
(5) Air flow rate measured with cleaned filters.
(6) According to UNI EN ISO 7779:2001
NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

Drawing	Decription	Notes	Code
- + * • •	Control panel on board BASIC. TOUCH LCD onboard panel, of amber colour, that works as: ON/OFF, room thermostat with temperature range from 5 to 40 °C, summer-winter selector, fan control with water temperature probe. Fan speed can be regulated according to four operation modes: AUTO, NIGHT, MIN e MAX. Provided with 230 V output to control of an electronic valve.		20116484
236 - + * 0	Control panel on board TOP. TOUCH LCD electronic on board control panel with continuous modulation and ModBus RTU communication protocol. It makes the room temperature regulation fully automatic, through the programs AUTO, SILENT, NIGHT and MAX by means of a probe located in the lower part of the appliance. Communication protocol ModBus RTU.		20181365
*53 - 110	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
• •	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
To a	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
T I	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
4 1	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453

- Both codes are necessary for the first fan coil. It must be installed 1 piece for every remoted fan coil.

Drawing	Decription	Notes	Code
& J	2-ways taps kit.		4013450
ال الما	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013458
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
FIC	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
	White mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		20069422

MATCHING ACCESSORIES

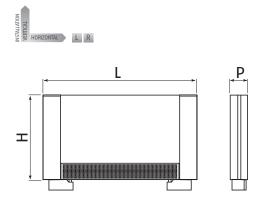
Drawing	Description	Size			Notes	Code		
		11	21	33	40	46		
	Back-cover panel kit for the models Design Inverter and Design Inverter Plus	•					(D)	20116460
			•				(D)	20116461
				•			(D)	20116462
					•		(D)	20116463
						•	(D)	20116464

(D) Availability of the material at our warehouse: 25 working days from the order validation date.

Fan coil

Design Inverter





- · Tangential fan coils
- Vertical or horizontal installation (with accessory)

Description	Н	L	P
	mm	mm	mm
DESIGN INVERTER 11	580	760	130
DESIGN INVERTER 21	580	960	130
DESIGN INVERTER 33	580	1160	130
DESIGN INVERTER 40	580	1360	130
DESIGN INVERTER 46	580	1560	130

The DESIGN INVERTER are the Riello fan coils with DC Brushless Inverter motors, for a continuous variation from 0 to 100% of the air flow and consequently the heating and cooling capacity. The DESIGN INVERTER quickly heat and cool any area, and it is possible to choose between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation. Thanks to the DC Brushless motors, the DESIGN INVERTER save up to 50% in electricity compared to the fan coils with traditional motors (ON/OFF). Just like the whole HELIOTERM family, the DESIGN INVERTER range is extremely thin, with a depth of just 13 cm.

The range comes in 5 models with a cooling capacity from 830 W up to 4560 W and a heating capacity from 1090 W up to 4860 W. The wide range of accessories and e controls with a touch DISPLAY support a wide application range.

All versions can be installed vertically or horizontally (using a specific accessory), with connections on the left. The structure is made of zinc-coated sheet with ABS side parts; the front delivery grille is made of aluminium.

- Extremely thin
- Depth of 13 cm
- Units can be installed both vertically and horizontally
- Ease of installation with left connections
- Easy to remove and clean the filters
- Touch Display commands

DATI TECNICI

Description	7°C-1	cooling 2°C (1) V	50°	heating C (2) V	Maximum air flow rate (4) m³/h		max-r	re irradiation nin (5) (A)	Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort	
WHITE FAN COIL	*								
DESIGN INVERTER 11B	1095	830	1415	1090	197	162	42,2÷24,2	39,4÷24,2	20116254
DESIGN INVERTER 21B	2120	1760	2775	2350	389	320	43,1÷25,3	40,2÷25,3	20116244
DESIGN INVERTER 33B	3310	2650	3905	3190	560	461	45,5÷25,6	42,2÷25,6	20116246
DESIGN INVERTER 40B	3875	3340	4665	4100	699	576	45,9÷26,3	42,5÷26,3	20116250
DESIGN INVERTER 46B	4560	3800	5705	4860	787	648	47,2÷27,6	43,9÷27,6	20116252

Performance refer to the following conditions:

- Room air temperature 27 °C d.b. and 19 °C w.b. Air temperature 20 °C and the same water flow rate achieved in cooling mode Air temperature 20 °C Air flow rate measured with cleaned filters

- According to UNI EN ISO 7779:2001

NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

RIELLO

Drawing	Decription	Notes	Code
[-+ * 0]	Control panel on board BASIC. TOUCH LCD onboard panel, of amber colour, that works as: ON/OFF, room thermostat with temperature range from 5 to 40 °C, summer-winter selector, fan control with water temperature probe. Fan speed can be regulated according to four operation modes: AUTO, NIGHT, MIN e MAX. Provided with 230 V output to control of an electronic valve.		20116484
738 -+ * 0 	Control panel on board TOP. TOUCH LCD electronic on board control panel with continuous modulation and ModBus RTU communication protocol. It makes the room temperature regulation fully automatic, through the programs AUTO, SILENT, NIGHT and MAX by means of a probe located in the lower part of the appliance. Communication protocol ModBus RTU.		20181365
*53 ****	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
• •	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
S. S.	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
1 7	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
41	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
4 1	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453
4	2-ways taps kit.		4013450
L	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013458
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
FIG	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
	White mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		20069422
	Condensate drain 11 for horizontal installation.	(3)	20025185
~	Condensate drain 21 for horizontal installation.	(3)	20025186
	Condensate drain 33 for horizontal installation.	(3)	20025187
_	Condensate drain 40 for horizontal installation.	(3)	20025188
		(3)	

- Both codes are necessary for the first fan coil. It must be installed 1 piece for every remoted fan coil. The accessory is necessary for the horizontal installation of fan coil.

HEAT PUMPS

Drawing	Decription	Notes	Code
	Cables kit for right-side connections. It is compulsory for the connections reversal.		20069415

MATCHING ACCESSORIES

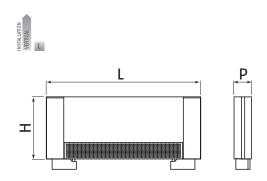
Drawing	Description	Size			Notes	Code		
		11	21	33	40	46		
	•					(D)	20116460	
	Back-cover panel kit for the models Design Inverter and Design Inverter Plus		•				(D)	20116461
				•			(D)	20116462
					•		(D)	20116463
						•	(D)	20116464

(D) Availability of the material at our warehouse: 25 working days from the order validation date.

Fan coil

Design S Inverter





· Tangential fan coils with Brushless inverter motor

Description	Н	L	P
	mm	mm	mm
DESIGN INVERTER 6BS	379	760	130
DESIGN INVERTER 11BS	379	960	130
DESIGN INVERTER 17BS	379	1160	130
DESIGN INVERTER 23BS	379	1360	130
DESIGN INVERTER 32BS	379	1560	130

The DESIGN S INVERTER have a height of 379 mm and are lower than traditional fan coils. This feature allow their installation in limited spaces.

The whole range is provided with DC Brushless Inverter motors, allowing a continuous modulation from 0 to 100% of the air flow and consequently of the heating and cooling capacity, heating and cooling any room very rapidly.

Thanks to the DC Brushless motors, the DESIGN S INVERTER have an electrical consumption that is 50% lower than the fan coils with traditional motors. The DESIGN S INVERTER range features an ultra flat design, thanks to a depth of just 13 cm.

The structure is made of zinc-coated sheet with the frontal grille made of aluminium. The range comes in 5 models with a cooling capacity from 560 W to 3140 W and a heating capacity from 780 W till 3910 W.

The wide range of accessories and controls with a touch DISPLAY support a wide application range.

- Extremely thin
- Height 379 mm
- Easy to remove and clean the filters
- Touch Display commands

TECHNICAL DATA

Description	Power cooling 7 °C-12 °C (1) Watt	Power heating 50 °C (2) Watt	Power heating 70 °C-60 °C (3) Watt	Maximum air flow rate (4) m³/h	Sound pressure irradiation max-min (5) dB(A)	Code
WHITE FAN COIL						
DESIGN INVERTER 6BS	560	780	1390	140	38,8-23,8	20116265
DESIGN INVERTER 11BS	1040	1570	2730	250	39,5-24,9	20116267
DESIGN INVERTER 17BS	1640	2380	4140	390	41,4-25,1	20116271
DESIGN INVERTER 23BS	2310	3250	5650	540	41,6-25,7	20116272
DESIGN INVERTER 32BS	3140	3910	6620	600	42,6-26,8	20116273

- Performance refer to the following conditions:
 (1) Room air temperature 27 °C d.b. and 19 °C w.b.
 (2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
 (3) Air temperature 20 °C
- Air flow rate measured with cleaned filters According to UNI EN ISO 7779:2001

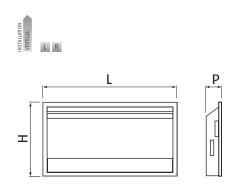
Drawing	Decription	Notes	Code
======================================	Control panel on board BASIC. TOUCH LCD onboard panel, of amber colour, that works as: ON/OFF, room thermostat with temperature range from 5 to 40 °C, summer-winter selector, fan control with water temperature probe. Fan speed can be regulated according to four operation modes: AUTO, NIGHT, MIN e MAX. Provided with 230 V output to control of an electronic valve.		20116484
730 - + * 0	Control panel on board TOP. TOUCH LCD electronic on board control panel with continuous modulation and ModBus RTU communication protocol. It makes the room temperature regulation fully automatic, through the programs AUTO, SILENT, NIGHT and MAX by means of a probe located in the lower part of the appliance. Communication protocol ModBus RTU.		20181365
123 CT.	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
• •	Electronic board for wall mounted control panel TOP (SLAVE) Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
8 0	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
41	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
4	2-ways valve kit. The kit is composed by a valve with thermo-electric head, it allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management.		20076590
4	2-ways taps kit.		4013450
L	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013458
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
10	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
	White mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		20069422

Both codes are necessary for the first fan coil It must be installed 1 piece for every remoted fan coil

Fan coil

Invisible Inverter





 Tangential fan coils with Brushless inverter motor for recessed installation in the wall (with template)

Description	Н	L	Р
	mm	mm	mm
INVISIBLE INVERTER 11	750	770	152
INVISIBLE INVERTER 21	750	970	152
INVISIBLE INVERTER 33	750	1170	152
INVISIBLE INVERTER 40	750	1370	152
INVISIBLE INVERTER 46	750	1570	152

INVISIBLE INVERTER is the Riello proposal for fan coils for recessed installation, allowing you to rationalise the space according to the criteria of modern interior architecture. The unit can be recessed in walls with limited thickness, thanks to the just 14.2 cm deep box. The white front panel with a grey intake grille in the same aesthetic line as the DESIGN INVERTER fan coil. The orientation of the air expulsion wing can be adjusted manually by 160° from bottom to top to ensure optimum comfort both in heating and cooling mode. The entire range comes with DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.

INVISIBLE INVERTER quickly heats and cools any room; with the possibility of choosing between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation.

Thanks to the DC Brushless motors, the INVISIBLE INVERTER range has an electrical consumption that is 50% lower than fan coils with traditional motors (ON/OFF type).

The range comes in 5 models with a cooling capacity from 830 W to 4560 W and a heating capacity from 1090 W till 4860 W with a wide range of accessories.

- Ultra flat design
- Wings can be completely orientated
- Ultra low-noise operation
- Ease of installation thanks to the box for recessed installation
- Just 14,2 cm deep
- Wide range of accessories
- Filters easy to dismount and clean

PRODUCT CATALOGUE

Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort	
WHITE FAN COIL WITH TEMPLATE FOR RECESSED	INSTALLAT	ION IN TH	IE WALL	~					
INVISIBLE INVERTER 11	1095	830	1415	1090	197	162	42,2÷24,2	39,4÷24,2	20069349
BOX (for recessed installation)									20025164
FRONTAL PANEL AND GRID									20116418
INVISIBLE INVERTER 21	2120	1760	2775	2350	389	320	43,1÷25,3	40,2÷25,3	20069370
BOX (for recessed installation)									20025166
FRONTAL PANEL AND GRID									20116419
INVISIBLE INVERTER 33	3310	2650	3905	3190	560	461	45,5÷25,6	42,2÷25,6	20069371
BOX (for recessed installation)									20025167
FRONTAL PANEL AND GRID									20116420
INVISIBLE INVERTER 40	3875	3340	4665	4100	699	576	45,9÷26,3	42,5÷26,3	20069372
BOX (for recessed installation)									20025169
FRONTAL PANEL AND GRID									20116421
INVISIBLE INVERTER 46	4560	3800	5705	4860	787	648	47,2÷27,6	43,9÷27,6	20069373
BOX (for recessed installation)									20025171
FRONTAL PANEL AND GRID									20116423

- Performance refer to the following conditions:
 (1) Room air temperature 27 °C d.b. and 19 °C w.b.
 (2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
 (3) Air temperature 20 °C
 (4) Air flow rate measured with cleaned filters
 (5) According to UNI EN ISO 7779:2001
 NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

Drawing	Decription	Notes	Code
123 120 123 120	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
• •	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
To the second second	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
4	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453

Both codes are necessary for the first fan coil It must be installed 1 piece for every remoted fan coil

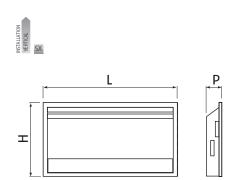
Drawing	Decription	Notes	Code
4	2-ways taps kit.		4013450
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
FIG	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
Õ	Cables kit for right-side connections. It is compulsory for the connections reversal.		20069415

2021 EDITION 392

Fan coil

Invisible Inverter Plus





· Tangential fan coils with Brushless inverter motor, radiant heat plate effect of frontal panel for recessed installation in the wall (with template)

Description	Н	L	Р
	mm	mm	mm
INVISIBLE INVERTER PLUS 11	750	770	152
INVISIBLE INVERTER PLUS 21	750	970	152
INVISIBLE INVERTER PLUS 33	750	1170	152
INVISIBLE INVERTER PLUS 40	750	1370	152
INVISIBLE INVERTER PLUS 46	750	1570	152

INVISIBLE INVERTER PLUS is the Riello TOP of the range proposal for fan coils for recessed installation, allowing you to rationalise the space according to the criteria of modern interior architecture. The unit can be recessed in walls with limited thickness, thanks to the just 14.2 cm deep box.

The INVISIBLE INVERTER PLUS front panel unites, thanks to its exclusive operating principle, the convective and ventilating effect with the radiant effect of the front panel, thereby increasing the wellness of the room. The orientation of the air expulsion wing can be adjusted manually by 160° from bottom to top to ensure optimum comfort both in heating and cooling mode.

The entire range comes with DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.

INVISIBLE INVERTER PLUS quickly heats and cools any room; with the possibility of choosing between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation. Thanks to the DC Brushless motors, the INVISIBLE INVERTER PLUS range has an electrical consumption that is 50% lower than fan coils with traditional motors (ON/OFF type).

The range comes in 5 models with a cooling capacity from 830 W to 4560 W and a heating capacity from 1090 W till 1090 4860 W.

- Ultra flat design
- Radiant effect in heating mode
- Wings can be completely orientated
- Ultra low-noise operation
- Ease of installation thanks to the box for recessed installation
- Just 14,2 cm deep
- Wide range of accessories
- Filters easy to dismount and clean

WATER-HEATERS

TECHNICAL DATA

RIELLO

Description	7°C-1	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort		
WHITE FAN COIL WITH TEMPLATE FOR F	RECESSED I	NSTALLATI	ON IN TH	E WALL						
INVISIBLE INVERTER PLUS 11	1095	830	1515	1090	197	162	42,2÷24,2	39,4÷24,2	(D)	20069374
BOX (for recessed installation)										20025164
FRONTAL PANEL AND GRID										20116418
INVISIBLE INVERTER PLUS 21	2120	1760	2885	2350	389	320	43,1÷25,3	40,2÷25,3	(D)	20069375
BOX (for recessed installation)										20025166
FRONTAL PANEL AND GRID										20116419
INVISIBLE INVERTER PLUS 33	3310	2650	4140	3190	560	461	45,5÷25,6	42,2÷25,6	(D)	20069376
BOX (for recessed installation)										20025167
FRONTAL PANEL AND GRID										20116420
INVISIBLE INVERTER PLUS 40	3875	3340	5015	4100	699	576	45,9÷26,3	42,5÷26,3	(D)	20069377
BOX (for recessed installation)										20025169
FRONTAL PANEL AND GRID										20116421
INVISIBLE INVERTER PLUS 46	4560	3800	5910	4860	787	648	47,2÷27,6	43,9÷27,6	(D)	20069378
BOX (for recessed installation)										20025171
FRONTAL PANEL AND GRID										20116423

Performance refer to the following conditions:

(1) Room air temperature 27 °C d.b. and 19 °C w.b.

(2) Air temperature 20 °C and the same water flow rate achieved in cooling mode

(3) Air temperature 20 °C

(4) Air temperature 20 °C; Main fan in "off"

(5) Air flow rate measured with cleaned filters

(6) According to UNI EN ISO 7779:2001

(D) Availability of the material at our warehouse: 25 working days from the order validation date.

NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

Drawing	Decription	Notes	Code
23	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
• •	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
44	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
4 2	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453
4	2-ways taps kit.		4013450
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
FIG	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452

Both codes are necessary for the first fan coil It must be installed 1 piece for every remoted fan coil

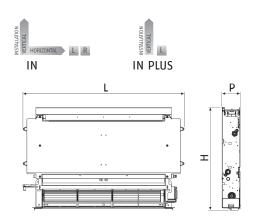
TERMINAL UNITS

RIELLO

Fan coil for recessed installation

In Inverter In Inverter Plus





· Fan coils with Brushless inverter motor for recessed installation in the wall

Description	H mm	L mm	P mm
IN INVERTER 11	576	525	126
IN INVERTER 21	576	725	126
IN INVERTER 33	576	925	126
IN INVERTER 40	576	1125	126
IN INVERTER 46	576	1325	126
IN INVERTER PLUS 11	576	525	126
IN INVERTER PLUS 21	576	725	126
IN INVERTER PLUS 33	576	925	126
IN INVERTER PLUS 40	576	1125	126
IN INVERTER PLUS 46	576	1325	126

IN INVERTER is the Riello proposal for fan coils for recessed installation, allowing you to rationalise the space according to the criteria of modern interior architecture. The unit can be recessed in walls that are relatively thin, thanks to the just 12.6 cm deep box.

The entire range comes with DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.

IN INVERTER quickly heats and cools any room; with the possibility of choosing between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation.

Thanks to the DC Brushless motors, the IN INVERTER range has an electrical consumption that is 50% lower than fan coils with traditional motors (ON/OFF type). The range comes in 5 models with (PLUS model) and without radiant effect, with a cooling capacity from 830 W up to 4560 W and a heating capacity from 1090 W up to 4860 W.

The vast range of accessories and controls with DISPLAY support a wide range of applications.

All IN INVERTER versions can be installed vertically or horizontally (using a specific accessory), with standard connections on the left (on the right with the relative accessory).

The IN INVERTER PLUS versions can be installed vertically with connections on the left. The structure is made of zinc-coated sheet metal.

- Ultra low-noise operation
- Just 12,6 cm deep
- Wide range of accessories
- Filters easy to dismount and clean

PRODUCT CATALOGUE

TECHNICAL DATA

Description	Power cooling 7°C-12°C (1) W		50°	Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort		
FAN COIL FOR RECESSED INSTALLATION										
IN INVERTER 11	1095	830	1515	1090	197	162	42,2÷24,2	39,4÷24,2		20069349
IN INVERTER 21	2120	1760	2885	2350	389	320	43,1÷25,3	40,2÷25,3		20069370
IN INVERTER 33	3310	2650	4140	3190	560	461	45,5÷25,6	42,2÷25,6		20069371
IN INVERTER 40	3875	3340	5015	4100	699	576	45,9÷26,3	42,5÷26,3		20069372
IN INVERTER 46	4560	3800	5910	4860	787	648	47,2÷27,6	43,9÷27,6		20069373
FAN COIL WITH RADIANT HEAT PLATE FO	R RECESSI	ED INSTAL	LATION							
IN INVERTER PLUS 11	1095	830	1515	1090	197	162	42,2÷24,2	39,4÷24,2	(D)	20069374
IN INVERTER PLUS 21	2120	1760	2885	2350	389	320	43,1÷25,3	40,2÷25,3	(D)	20069375
IN INVERTER PLUS 33	3310	2650	4140	3190	560	461	45,5÷25,6	42,2÷25,6	(D)	20069376
IN INVERTER PLUS 40	3875	3340	5015	4100	699	576	45,9÷26,3	42,5÷26,3	(D)	20069377
IN INVERTER PLUS 46	4560	3800	5910	4860	787	648	47,2÷27,6	43,9÷27,6	(D)	20069378

Performance refer to the following conditions:

(1) Room air temperature 27 °C d.b. and 19 °C w.b.

(2) Air temperature 20 °C and the same water flow rate achieved in cooling mode

(3) Air temperature 20 °C

(4) Air temperature 20 °C; main fan in "off"

(5) Air flow rate measured with cleaned filters

(6) According to UNI EN ISO 7779:2001

(D) Availability of the material at our warehouse: 25 working days from the order validation date.

NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

Drawing	Decription	Notes	Code
23	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
• •	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
A!	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
4	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453
4	2-ways taps kit.		4013450

Both codes are necessary for the first fan coil It must be installed 1 piece for every remoted fan coil.

RIELLO

20069415

SYSTEM COMPLEMENTARY

Drawing Decription Notes Code Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves 20069423 with outlet on the wall. 90°-connection kit, to allow an easy connection of the pipes to the valves for the 4013452 exit from wall.

Cables kit for right-side connections for IN model (not for PLUS model). It is

MATCHING ACCESSORIES

Drawing	Description	scription		Size		Notes	Code	
		11	21	33	40	46		
		•					(D)	4013481
			•				(D)	4013482
	90° air-inlet kit for recessed models IN Inverter (not for Plus models)			•			(D)	4013483
	(not for rius models)				•		(D)	4013484
						•	(D)	4013485
	Upper inlet kit for recessed models IN Inverter	•					(D)	4013486
			•				(D)	4013487
				•			(D)	4013488
					•		(D)	4013489
						•	(D)	4013490
		•					(D)	4013491
			•				(D)	4013492
	Suction kit for recessed models IN Inverter (not for Plus model)			•			(D)	4013493
	(not for rius model)				•		(D)	4013494
						•	(D)	4013495

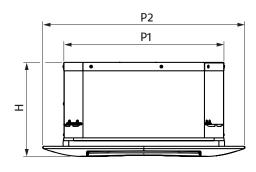
⁽D) Availability of the material at our warehouse: 25 working days from the order validation date.

compulsory for the connections reversal.

Fan coils - Cassette

RK N Hydroline





• "Cassette" fan coils

Description	H mm	L1 mm	L2 mm
		111111	
RK 24 N SET	298	720	569
RK 40 N SET	298	720	569
RK 47 N SET	298	720	569
RK 63 N SET	298	960	825
RK 72 N SET	298	960	825
RK 96 N SET	298	960	825

The RK N cassette fan coil range is designed for heating and/or cooling solutions both for residential or commercial applications wherever a ceiling installation is required in order to meet specific architectural needs.

Thanks to the pleasant aesthetic, the accurate design and the 4-ways adjustable air outlet, the RK N cassette fan coils are Riello's ideal solution for any setting. For a user-friendly interface, the whole range of RK N fan coils can be matched with the wall-hung control panels of Hydrocontrol line:

- TermoComfortPlus and TermoComfort.
- Extremely low noise level
- Washable air filter
- Condensate drain pump supplied as standard
- Ease of installation
- Excellent air distribution through 4 manual wings
- Filters easy to disassemble and clean.

TECHNICAL DATA

RIELLO

	Description	Power cooling kW	Power heating kW	Air flow rate m³/h	Notes	Code
RK 24 N SET	RK 24 N	2.400	3.200	660	(1)(2)	20051794
	Grid panel				(2)	4012190
	Summer/Winter automatic switch kit				(2)	4012226
RK 40 N SET	RK 40 N	4.000	5.000	735	(1)(2)	20051795
	Grid panel				(2)	4012190
	Summer/Winter automatic switch kit				(2)	4012226
RK 47 N SET	RK 47 N	4.700	6.200	900	(1)(2)	20051796
	Grid panel				(2)	4012190
	Summer/Winter automatic switch kit				(2)	4012226
RK 63 N SET	RK 63 N	6.300	8.110	980	(1)(2)	20051797
	Grid panel				(2)	20051800
	Summer/Winter automatic switch kit				(2)	4012226
RK 72 N SET	RK 72 N	7.200	10.000	1160	(1)(2)	20051798
	Grid panel				(2)	20051800
	Summer/Winter automatic switch kit				(2)	4012226
RK 96 N SET	RK 96 N	9.600	13.000	1.600	(1)(2)	20051799
	Grid panel				(2)	20051800
	Summer/Winter automatic switch kit				(2)	4012226

- (*) TO PURCHASE THE COMPLETE PRODUCT, PLEASE REMEMBER TO ORDER ALL THE CODES (RK N, GRID PANEL AND SUMMER/WINTER AUTOMATIC SWITCH KIT).

 (1) The fan coil must be matched with an electrovalve that manages the functioning.

 (2) Accessories "Grid panel" and "Summer/Winter automatic switch kit" must be ordered together with the base unit.

 Performance refer to the following conditions:

- fan speed: maximum; cooling: flow water 7°C; inlet air temperature 27°C Td.b./19°C Tw.b.; (Δt 5°C); heating: flow water 50°C; inlet air temperature 20°C Td.b; same water flow rate reached in cooling mode; maximum flow water 80°C.

ACCESSORIES

Description	Code
2-pipes valve kit (24-47 models)	20035945
2-pipes valve kit (63-96 models)	20086595
Primary air kit	4012192
Air lock kit	4012225

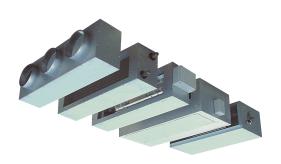
CONTROLS

Description	Notes	Code
2 pipes "Plus" control (wall-mounted)	(1)	20081464
Air probe kit	(2)	20083816
Water probe kit		20083809
Multiple kit	(3)	20081499

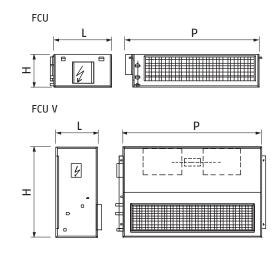
- Not included the water probe kit code 20083809.
- Sensor for remote reading. One control for each fan coil.

Ductable fan coils

FCU N



PRODUCT CATALOGUE



Fan coils for horizontal and vertical installation

Description	H mm	L mm	P mm
FCU 09 N	296	520	645
FCU 15 N	296	520	1000
FCU 17 N	296	520	1000
FCU 21 N	325	600	1100
FCU 24 N	325	600	1345
FCU 36 N	375	600	1345
FCU 43 N	375	600	1345
FCU 09 V N	750	296	645
FCU 15 V N	750	296	1000
FCU 17 V N	750	296	1000
FCU 21 V N	835	325	1100
FCU 24 V N	950	325	1345
FCU 36 V N	950	375	1345
FCU 43 V N	950	375	1345

FCU duct-connected fan coils are designed to provide a preliminary air treatment both for small-sized centralized installations and for installations with fun-coils unists. They are available in 7 models with an air flow rate ranging from 930 to 4.300 m3/h. The possibility to combine FCU units with a series of accessories, both on the outlet and on the intake side, makes them suitable for different uses, starting from the simple functions of cooling and/or heating up to treatments such as filtering, mixing, external air suction, re-heating both through water and electrical.

It is available in two basic versions: one for horizontal installation, having a reduced length, and one for vertical installation. These units consist of an aluzinc casing, provided with a thermal insulation layer made of polyethylene and polyester. All units are equipped with: a synthetic eff. EU3 filter, removable on guide rails, a heat-exchange coil with copper pipes and aluminium wings, a stainless steel AISI 304 condensate trap and double-suction fans with direct coupled motor. All units (except for 09 size because of its reduced electrical absorption) are also equipped with an electrical connection box with connectors protected by a relay.

- Compact dimensions
- Stainless steel AISI 304 condensate trap
- Motorized fan group, that can be inspected from the bottom
- Wide range of accessories enabling the units to be more flexible and suit different application needs.

TECHNICAL DATA

RIELLO

Description	Power cooling kW	Power heating kW	Maximum air loss m³/h	External static pressure Pa	Maximum power input W	Notes	Code
MODELS FOR HORIZONTAL INSTAI	LLATION						
FCU 09 N	4,6	9,8	930	90	195		20095872
FCU 15 N	7,5	15,5	1.500	100	299		20095873
FCU 17 N	9,1	19,7	1.600	85	302		20095874
FCU 21 N	10,5	21,6	2.050	115	430		20095876
FCU 24 N	13,1	25,9	2.400	105	430		20095877
FCU 36 N	15,7	35,5	3.600	120	750		20095878
FCU 43 N	20,7	46,3	4.200	115	950		20095879
MODELS FOR VERTICAL INSTALLAT	TON						
FCU 09 V N	4,6	9,8	930	90	195	(1)	20095880
FCU 15 V N	7,5	15,5	1.500	100	299	(1)	20095881
FCU 17 V N	9,1	19,7	1.600	85	302	(1)	20095882
FCU 21 V N	10,5	21,6	2.050	115	430	(1)	20095883
FCU 24 V N	13,1	25,9	2.400	105	430	(1)	20095885
FCU 36 V N	15,7	35,5	3.600	120	750	(1)	20095886
FCU 43 V N	20,7	46,3	4.200	115	950	(1)	20095887

(1) Availability of the material in our warehouse: 20 working days of receipt of the order. Performance refer to the following conditions:

- Cooling: inlet air temperature 26 °C with 50% r.h.; flow water 7 °C (\Delta t 5 °C at the nominal air flow) Heating: inlet air temperature 20 °C with 50% r.h.; flow water 70 °C (\Delta t 0 °C at the nominal air flow)

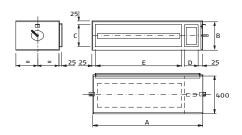
ACCESSORIES

Description	Notes	Code
CP-Basic: speed selector with OFF/cooling/heating button and 3-positions speed switch	(A)	20083633
CP-Comfort/R: Wall-hung electronic control panel for winter/summer room temperature control, activation or exclusion of the electrical resistance and fan speed selection (minimum, medium, maximum), for models with electrical resistance	(A)	20083635
CP-Comfort/V: Wall-hung electronic control panel for winter/summer room temperature control, activation or exclusion of water coil (0-10 V control) and fan speed selection (minimum, medium, maximum), for models with water coil	(A)	20083637

(A) The accessory cannot be ordered separately but only togheter with the unit. Anyway it will have be mounted because it is not pre-intalled on the product.

2-WAYS INTAKE PLENUM WITH AIR DAMPER FOR FRESH AIR

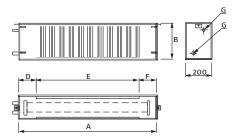
Destination	Description	Code
Model 09	Mixing chamber for FCU 09	4015937
Models 15–17	Mixing chamber for FCU 15–17	4015938
Model 21	Mixing chamber for FCU 21	4015939
Model 24	Mixing chamber for FCU 24	4015940
Models 36-43	Mixing chamber for FCU 36-43	4015941



Model		Dimensions mm						
	А	A B C D E						
Model 09	550	278	210	90	380			
Models 15-17	910	278	210	180	650			
Model 21	1010	302	235	205	725			
Model 24	1250	302	235	265	905			
Models 36-43	1250	328	260	265	905			

RE-HEATING 2 ROWS WATER COILS

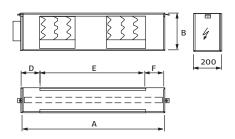
Destination	Description	Code
Model 09	Re-heating 2 rows water coils for FCU 09	4015942
Models 15-17	Re-heating 2 rows water coils for FCU 15-17	4015943
Model 21	Re-heating 2 rows water coils for FCU 21	4015944
Model 24	Re-heating 2 rows water coils for FCU 24	4015945
Models 36-43	Re-heating 2 rows water coils for FCU 36-43	4015946



	-		Diamental and					
Model	(inlet air te	heating emperature °C)	ure Dimens					
	kcal/h	kW	Α	В	D	Е	F	G
Model 09	5.850	6,8	615	296	83	440	91	3/4
Models 15-17	9.370	10,9	975	296	83	800	91	3/4
Model 21	11.610	13,5	1075	325	133	800	141	3/4
Model 24	13.760	16,0	1315	325	118	1070	126	3/4
Models 36-43	17.460	20,3	1315	375	118	1070	126	3/4

RE-HEATING ELECTRIC COIL, SINGLE STAGE (POWER SUPPLY 400V - 3 PHASES - 50HZ)

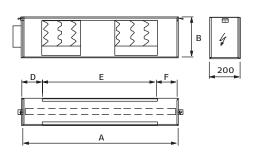
Destination	Description	Code
Model 09	Re-heating electric coil, single stage for FCU 09	4015947
Models 15-17	Re-heating electric coil, single stage for FCU 15-17	4015948
Model 21	Re-heating electric coil, single stage for FCU 21	4015949
Model 24	Re-heating electric coil, single stage for FCU 24	4015950
Models 36-43	Re-heating electric coil, single stage for FCU 36-43	4015951



Model	(inlet air te	Power heating (inlet air temperature 20 °C)		Dimensions re mm			
	kcal/h	kW	А	В	D	Е	F
Model 09	2.580	3,0	614	295	83	440	91
Models 15-17	3.870	4,5	974	295	83	800	91
Model 21	3.870	4,5	1074	322	133	800	141
Model 24	5.160	6,0	1314	322	118	1070	126
Models 36-43	5.160	6,0	1314	372	118	1070	126

RE-HEATING ELECTRIC COIL, HIGH CAPACITY (POWER SUPPLY 400V - 3 PHASES - 50HZ)

Destination	Description	Code
Model 09	Re-heating electric coil, high capacity for FCU 09	4015952
Models 15-17	Re-heating electric coil, high capacity for FCU 15-17	4015953
Model 21	Re-heating electric coil, high capacity for FCU 21	4015954
Model 24	Re-heating electric coil, high capacity for FCU 24	4015955
Models 36-43	Re-heating electric coil, high capacity for FCU 36-43	4015956

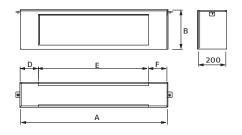


Model	(inlet air te	heating emperature °C)	Dimensions mm				
	kcal/h	kW	Α	В	D	Е	F
Model 09	5.160	6,0	614	295	83	440	91
Models15-17	7.740	9,0	974	295	83	800	91
Model 21	7.740	9,0	1074	322	133	800	141
Model 24	10.320	12,0	1314	322	118	1070	126
Models 36-43	10.320	12,0	1314	372	118	1070	126

OUTLET PLENUM

RIELLO

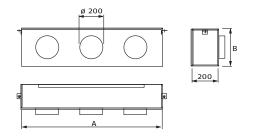
Destination	Description	Code
Model 09	Outlet plenum for FCU 09	4015957
Models 15-17	Outlet plenum for FCU 15-17	4015958
Model 21	Outlet plenum for FCU 21	4015959
Model 24	Outlet plenum for FCU 24	4015960
Models 36-43	Outlet plenum for FCU 36-43	4015961



Model		Dimensions mm						
	А	A B D E						
Model 09	614	295	83	440	91			
Models 15-17	974	295	83	800	91			
Model 21	1074	322	133	800	141			
Model 24	1314	322	118	1070	126			
Models 36-43	1314	372	118	1070	126			

OUTLET PLENUM FOR ROUND DUCTS

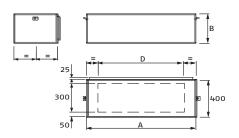
Destination	Description	Code
Model 09	Outlet plenum for round ducts for FCU 09	4015962
Models 15-17	Outlet plenum for round ducts for FCU 15-17	4015963
Model 21	Outlet plenum for round ducts for FCU 21	4015964
Model 24	Outlet plenum for round ducts for FCU 24	4015965
Models 36-43	Outlet plenum for round ducts for FCU 36-43	4015966



Model	Round ducts		Dimensions mm		
	Number Diameter mm		А	В	
Model 09	2	200	614	295	
Models 15-17	3 200		974	295	
Model 21	3	200	1074	322	
Model 24	4	200	1314	322	
Models 36-43	4	200	1314	372	

INTAKE PLENUM 90°

Destination	Description	Code
Model 09	Intake plenum 90° for FCU 09	4015967
Models 15-17	Intake plenum 90° for FCU 15-17	4015968
Model 21	Intake plenum 90° for FCU 21	4015969
Model 24	Intake plenum 90° for FCU 24	4015970
Models 36-43	Intake plenum 90° for FCU 36-43	4015971

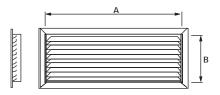


Model	Dimensions mm				
	А	В	D		
Model 09	550	278	500		
Models 15-17	910	278	800		
Model 21	1010	302	800		
Model 24	1250	302	1200		
Models 36-43	1250	328	1200		

HEAT PUMPS

INTAKE GRID WITH FIXED WINGS (FOR INTAKE PLENUM)

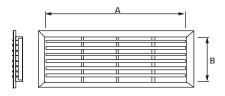
Destination	Description	Code
Model 09 Intake grid for FCU 09		4015972
Models 15-17-21	Intake grid for FCU 15-17-21	4015973
Models 24-36-43	Intake grid for FCU 24-36-43	4015974



Model	Dimensions mm				
	А	В			
Model 09	500	300			
Models 15-17-21	800	300			
Models 24-36-43	1200	300			

OUTLET GRID WITH ADJUSTABLE WINGS (FOR OUTLET PLENUM) (TO INSTALL AFTER: "OUTLET PLENUM" OR AFTER "RE-HEATING OPERATION")

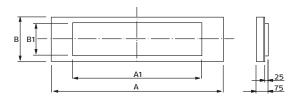
Destination	Description	
Model 09	Delivery grid for FCU 09	4015975
Models 15-17-21	Delivery grid for FCU 15-17-21	4015976
Models 24-36-43	Delivery grid for FCU 24-36-43	4015977



Model	Dimensions mm				
	А	В			
Model 09	440	235			
Models 15-17-21	800	235			
Models 24-36-43	1070	280			

ADAPTER FRAME FOR RECTANGULAR DUCTS

Destination	Description	Code
Model 09	Adapter frame for FCU 09	4015978
Models 15-17	Adapter frame for FCU 15-17	4015979
Model 21	Adapter frame for FCU 21	4015980
Model 24	Adapter frame for FCU 24	4015981
Models 36-43	Adapter frame for FCU 36-43	4015982



Model	Dimensions mm						
	Α	A A1 B B1					
Model 09	614	440	295	235			
Models 15-17	974	800	295	235			
Model 21	1074	800	322	235			
Model 24	1314	1070	322	280			
Models 36-43	1314	1070	372	280			

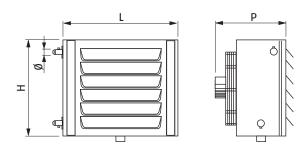
RIELLO

WATER-HEATERS

New Acu-New Acu F

Water hot air generators





- Heating and cooling versions
- Helicoidal fan

Description	Н	L	P	Ø	Net weight
	mm	mm	mm	mm	kg
NUOVO ACU 13 M	390	555	370	1"	15
NUOVO ACU 23 M	440	605	396	1"	18
NUOVO ACU 33 M	490	655	402	1"	21
NUOVO ACU 43 M	540	705	402	1"	24
NUOVO ACU 53 M	590	755	402	1"	28
NUOVO ACU 63 M	640	805	402	1''1/4	32
NUOVO ACU 73 T	690	855	460	1''1/4	43
NUOVO ACU 23 F	440	605	396	1"	18
NUOVO ACU 33 F	490	655	402	1"	21
NUOVO ACU 43 F	540	705	402	1"	24
NUOVO ACU 63 F	640	805	402	1" 1/4	32

NUOVO ACU and NUOVO ACU F are water air-heaters designed for the heating and cooling of small and medium-sized areas, such as warehouses, storehouses, laboratories, sports centres.

The NUOVO ACU consists of 3-ranks coils for applications with low temperature warm water. The NUOVO ACU F is specifically designed for cooling and consists of 3-ranks copper coils with condensate trap.

- Low noise level
- Reduced dimensions
- Coil with coupling provided with vent
- Reversible hydraulic connections
- Possibility of ceiling installation with specific accessory kit (only heating version, not for F versions)
- Available as single-phase (16 models) and three-phase (1 model)
- 10 models
- Wide range of accessories
- The range consists of 4 models for cooling with 3 row coils with output from 19,6 to 42,2 kW.
- Range consists of:
- 7 models with 3 row coils with output from 17,3 to 63 kW
- 4 models for cooling with 3 row coils with output from 19,6 to 42,2 kWa.

TECHNICAL DATA (HEATING VERSION)

Description	Power heating (*) kW	Air flow rate (**) m³/h	Motor	Nr. revs/min (***)	Notes	Code		
WATER HOT AIR GENERATOR WITH COPPER 3 ROW COILS								
NUOVO ACU 13M	17,3	1.550	single-phase	1400-900-700		4152422		
NUOVO ACU 23M	23,7	2.300	single-phase	1400-900-700		4152424		
NUOVO ACU 33M	28,5	2.550	single-phase	1400-900-700		4152426		
NUOVO ACU 43M	37,5	3.400	single-phase	1400-900-700		4152428		
NUOVO ACU 53M	44,0	3.850	single-phase	1400-900-700		4152430		
NUOVO ACU 63M	54,1	4.900	single-phase	1400-900-700		4152432		
NUOVO ACU 73T	61,2	6.150	three-phase	900-700		4152414		
NUOVO ACU 83T	90,5	7.700	three-phase	900-700		4152416		
NUOVO ACU 93T	114,9	11.000	three-phase	900-700	(D)	4152418		

 ^(*) Performance refer to the following conditions: ΔT water 85-70 °C, inlet air temparature
 (**) Performance refer to fan at the maximum speed.
 (***) The variation of revolutions number can be obtained by applying specific accessories. Performance refer to the following conditions: ∆T water 85–70 °C, inlet air temparature +15 °C, 50% r.h., 1013 mbar, fan at the maximum speed.

TECHNICAL DATA (COOLING VERSION)

Description	Power heating (*) kW	Power cooling (**) kW	Air flow rate m³/h	Motor	Nr. revs/min	Notes	Code
WATER HOT AIR GENERATOR WITH COPPER 3 ROW COILS FOR COOLING							
NUOVO ACU 23F	19,6	10,2	1.520	single-phase	900	(D)	4152501
NUOVO ACU 33F	24,5	12,9	1.900	single-phase	900	(D)	4152502
NUOVO ACU 43F	27,9	15,1	2.000	single-phase	900	(D)	4152503
NUOVO ACU 63F	42,2	21,5	3.150	single-phase	900	(D)	4152504

Performance refer to the following conditions: ΔT water 85–70 °C, inlet air temparature +15 °C, 50% r.h., 1013 mbar. Performance refer to the following conditions: ΔT water 7–12 °C, inlet air temperature +30 °C, 60% r.h., 1013 mbar. Availability of the material at our warehouse: 30 working days from the date of the order's validation.

ACCESSORIES

Description	Destination	Code	
Single-phase 4-position speed regulator kit	NUOVO ACU 13÷63 M NUOVO ACU 23÷63 F	20092637	
Three-phase control panel kit	NUOVO ACU 73 T	4155602	
Three-phase speed manual selector kit	NUOVO ACU 73 T	4155604	
Support brackets	Tutti i modelli	4155606	
Ceiling installation kit	NUOVO ACU 13 M	4155609	
Ceiling installation kit	NUOVO ACU 23 M	4155611	
Ceiling installation kit	NUOVO ACU 33 M	4155613	
Ceiling installation kit	NUOVO ACU 43 M	4155615	
Ceiling installation kit	NUOVO ACU 53 M	4155617	
Ceiling installation kit	NUOVO ACU 63 M	4155619	
Ceiling installation kit	NUOVO ACU 73 T	4155620	
Vertical dampers kit	NUOVO ACU 13 M	4155626	
Vertical dampers kit	NUOVO ACU 23 M - 23 F	4155628	
Vertical dampers kit	NUOVO ACU 33 M - 33 F	4155630	
Vertical dampers kit	NUOVO ACU 43 M - 43 F	4155632	
Vertical dampers kit	NUOVO ACU 53 M	4155634	
Vertical dampers kit	NUOVO ACU 63 M - 63 F	4155636	
Vertical dampers kit	NUOVO ACU 73 T	4155638	

Availability of the material at our warehouse: 30 working days from the date of the order's validation.



HEAT PUMPS

RIELLO

SYSTEM COMPLEMENTARY ITEMS



THERMOSTAT AND CHRONOTERMOSTAT	411

HEAT-EXCHANGERS 415

HEAT PUMPS

THERMOSTAT AND CHRONOTERMOSTAT



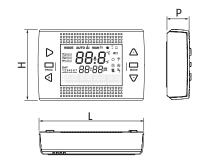
2021 EDITION

RIELLO

Smart remote control

RiCLOUD







- · Modulating control system
- Remote boiler interface
- Possibility to manage via App

Description	Н	L	Р
	mm	mm	mm
RICLOUD REMOTE CONTROL	89	135	28

RiCLOUD is the simple and smart solution for the home comfort.

RICLOUD is a universal device because it can be used as a smart control of the heating system, able to communicate directly to the boiler, in case of OTBus connection, or as a simple on-off thermostat.

It offers the function of remote boiler interface if connected to Riello boilers via OTBus.

It is possible to manage systems of up to 8 zones, each of them controlled by its own RiCLOUD, to set independently temperature and

Combined with Riello new generation boilers (compatible models with OTBus connection), through the external temperature data, RiCLOUD allows the system to reach energy efficiency class A+ (European Regulation 811/2013).

With the RicLOUD App, available for Android and iOS systems for free, managing the home comfort and control the boiler (compatible models with OTBus connection), is easy and user-friendly. All the operations that can be annoying and complicated in a traditional thermostat, become within the reach of all thanks to the touch screen technology of the portable devices.

Installing RicLoud is easy and fast. In case of replacement of an old thermostat, no wirings are needed. RicLoud, that has battery supply, can be also "wireless": it can be placed wherever in the house and communicate via RF with the Wi-Fi box or the RF receiver (optional) connected to the boiler.

TECHNICAL DATA

Description	Code
RICLOUD with Wi-Fi box	20117394
RICLOUD	20117399
Wi-Fi box	20111885
RF-wireless boiler receiver	20117359
Interface board ITRF11	20164477

RANGE DESCRIPTION

Drawing	Description	Code
THE PLANT OF THE P	RicLoud with Wi-Fi box Complete kit for Wi-Fi operation, containing the RicLoud remote control and the Wi- Fi box. The package also includes batteries, cables, transformer, screws, dowels, double-sided, magnetic adhesives and installation manual. CLASS - ErP CONTRIBUTION: VI - 4% (*); I - 1% (**)	20117394
19.8	RICLOUD RICLOUD room control can be used for substitutions or new installations, in case of a single zone and as zone expansion for multi-zone systems. Possible to connect to the Internet in combination with the Wi-Fi Box (available as accessory). The package also includes batteries, cables, screws, dowels, double-sided adhesives and installation manual. CLASS - ErP CONTRIBUTION: V - 3%(*); I - 1% (**)	20117399
RIELIO	Wi-Fi box The Wi-Fi Box is the device that allows to connect the RiCLOUD to the home Wi-Fi. In addition, permits the OTBus connection to the boiler to work as a smart remote control. The package also includes cables, transformer and magnetic adhesive.	20111885
RIELIO MOJNO	RF-Wireless boiler receiver Radiofrequency device that allows the wireless connection between the RiCLOUD and the boiler (both on-off and via OTBus). It can be used also when the Wi-Fi signal is too low to place the Wi-Fi box near the boiler.	20117359
	Interface board ITRF 11 To be used according to the type of boiler in case of OTBus connection. This code is not needed in case of on-off operation.	20164477

^(*) Via BUS connection. (**) In case of on-off functioning.

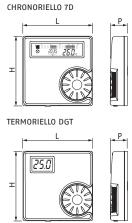


Thermostats and chronostats

ChronoRiello







• The ChronoRiello are digital programmable thermostats for programming both daily and weekly temperature, in heating mode and allow optimal management of the system

Description	H mm	L mm	P mm
TERMORIELLO DGT	86	86	20
TERMORIELLO DGT WIRELESS	86	86	20
CHRONORIELLO 7D	86	86	20
CHRONORIELLO 7D WIRELESS	86	86	20

TERMORIELLO DGT

Room thermostat with digital display.

TERMORIELLO DGT WIRELESS

Room thermostat with digital display.

Digital weekly programmable thermostat. Three selectable temperature levels (Comfort-Economy-Antifreeze).

Personalized weekly programming. Cooling function (it is necessary for this function to install an external separation relay). Party function (always warm up request and programmed time slots ignored). Daily band with time division in 60 minute

CHRONORIELLO 7D WIRELESS

Digital weekly chronothermostat digital display in radio frequency.

Digital weekly programmable thermostat. Three selectable temperature levels (Comfort-Economy-Antifreeze).

Personalized weekly programming. Party function (heating request always active at programmed time slots ignored). Daily band with time division in 60 minute segments.

- Simplicity of installation
- Ease of use
- Temperature selection knob on thermostat front
- Calibration probe on all models
- Series batteries on all models
- The wireless models work in radio frequency allowing the connection to the boiler without the use of electric cables
- On / off hysteresis can be calibrated on all models.

TECHNICAL DATA

Description	Туре	Code
TERMORIELLO DGT	Thermostat	20059640
TERMORIELLO DGT WIRELESS	Radio frequency thermostat	20063871
CHRONORIELLO 7D	Weekly programmable thermostat	20063873
CHRONORIELLO 7D WIRELESS	Digital weekly chronothermostat digital display in radio frequency	20101747

HEAT PUMPS

HEAT-EXCHANGERS

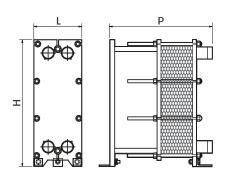


2021 EDITION

Plate heat-exchanger

Riello HEATgate





• Plate heat-exchangers for heat generators, heat pumps and solar applications

Description	Plates Nr.	Н	L	Р
	from - to	mm	mm	mm
SP 20	11 - 29	470	200	252
3P 2U	41 - 49	470	200	352
SP 30	17 - 27	755	200	251
	37	755	200	351
	53 - 69	755	200	552
	25 - 39	950	400	408
CD 2E	45 - 65	950	400	548
SP 35	75 - 93	950	400	688
	105 - 121	950	400	918
	19 - 35	819	310	418
CD / O	47 - 67	819	310	558
SP 40	75 - 99	819	310	718
	111 - 145	819	310	948
CD 60	43 - 101	1124	530	775
SP 60	117 - 167	1124	530	1275

RIELLO HEATgate is a range of inspectable plates heat-exchangers created by RIELLO to suit as many applications as possible. Its technical features make it a high-quality, long-lasting product, while ensuring the highest efficiency and reliability during the

. The RIELLO HEATgate range consists of heat-exchangers with plates made of stainless steel AISI316, NBR or EPDM peroxide gaskets (according to the application), and is equipped with threaded couplings made of AISI316.

The heat-exchanger structure ensure tightness up to 10 bars. The different sizes perfectly meet the thermal programmes and applications shown in the table, thus ensuring high efficiency and reduced pressure drops. Ease of maintenance thanks to the quality of materials.

HEAT PUMPS

TECHNICAL DATA

TECHNICAL DATA				***		(2.2)	-
Description	Plates Nr.	DN	MIX (*) %	Weight kg	Kit typ		Code
HEAT EVOLUNIOSE AND DOCK WITH THE	4 DEDOVIDE 3 5 5 1	TC FOR CO.	ADDITOATION		Insulation	Feet	
HEAT-EXCHANGER AISI 316 L, WITH EPDN				22	VIT C1	I/IT D1	20016720
SP 20 - DN32 29 (29A) E	29	DN32	100	33	KIT C1	KIT P1	20016729
SP 20 - DN32 41 (41A) E	41	DN32	100	37	KIT C2	KIT P1	20016730
SP 30 - DN32 17 (17A) E	17	DN32	100	46	KIT C3	KIT P1	20016734
SP 30 - DN32 27 (27A) E	27	DN32	100	51	KIT C3	KIT P1	20016735
SP 30 - DN32 37 (37A) E	37	DN32	100	57	KIT C4	KIT P1	20016736
SP 30 - DN32 53 (53A) E	53	DN32	100	66	KIT C5	KIT P1	20016738
SP 30 - DN32 69 (69A) E	69	DN32	100	73	KIT C5	KIT P1	20016739
SP 40 - DN65 23 (10A) E	23	DN65	45	108	KIT C6	KIT P2	20016731
SP 40 - DN65 29 (13A) E	29	DN65	45	112	KIT C6	KIT P2	20016732
SP 40 - DN65 33 (15A) E	33	DN65	45	114	KIT C6	KIT P2	20016733
PLATE HEAT-EXCHANGER AISI 316 L, WIT	H NBR GASKETS						
SP 20 - DN32 11 (11A) N	11	DN32	100	28	KIT C1	KIT P1	20016741
SP 20 - DN32 21 (21A) N	21	DN32	100	30	KIT C1	KIT P1	20016742
SP 20 - DN32 29 (29A) N	29	DN32	100	33	KIT C1	KIT P1	20014216
SP 20 - DN32 41 (41A) N	41	DN32	100	37	KIT C2	KIT P1	20014217
SP 20 - DN32 49 (49A) N	49	DN32	100	39	KIT C2	KIT P1	20014240
SP 35 - DN50 25 (25A) N	25	DN50	100	89	KIT C17	KIT P2	20140410
SP 35 - DN50 31 (31A) N	31	DN50	100	92	KIT C17	KIT P2	20140411
SP 35 - DN50 35 (35A) N	35	DN50	100	94	KIT C17	KIT P2	20140412
SP 35 - DN50 39 (39A) N	39	DN50	100	96	KIT C17	KIT P2	20140413
SP 35 - DN50 45 (45A) N	45	DN50	100	103	KIT C18	KIT P2	20140414
SP 35 - DN50 49 (49A) N	49	DN50	100	105	KIT C18	KIT P2	20140415
SP 35 - DN50 57 (57A) N	57	DN50	100	109	KIT C18	KIT P2	20140416
SP 35 - DN50 65 (65A) N	65	DN50	100	113	KIT C18	KIT P2	20140418
SP 35 - DN50 75 (75A) N	75	DN50	100	122	KIT C19	KIT P2	20140419
SP 35 - DN50 81 (81A) N	81	DN50	100	125	KIT C19	KIT P2	20140420
SP 35 - DN50 93 (93A) N	93	DN50	100	131	KIT C19	KIT P2	20140421
SP 35 - DN50 105 (105A) N	105	DN50	100	143	KIT C20	KIT P2	20140423
SP 35 - DN50 121 (121A) N	121	DN50	100	151	KIT C20	KIT P2	20140424
SP 40 - DN65 19 (19A) N	19	DN65	100	105	KIT C6	KIT P2	20014230
SP 40 - DN65 23 (23A) N	23	DN65	100	108	KIT C6	KIT P2	20014218
SP 40 - DN65 27 (27A) N	27	DN65	100	111	KIT C6	KIT P2	20014219
SP 40 - DN65 35 (35A) N	35	DN65	100	116	KIT C6	KIT P2	20014235
SP 40 - DN65 47 (47A) N	47	DN65	100	128	KIT C7	KIT P2	20014232
SP 40 - DN65 59 (59A) N	59	DN65	100	136	KIT C7	KIT P2	20014231
SP 40 - DN65 67 (67A) N	67	DN65	100	144	KIT C7	KIT P2	20140425
SP 40 - DN65 75 (75A) N	75	DN65	100	154	KIT C8	KIT P2	20140425
SP 40 - DN65 93 (93A) N	93	DN65	100	166	KIT C8	KIT P2	20140427
SP 40 - DN65 93 (93A) N	93	DN65	100	171	KIT C8	KIT P2	20140427
SP 40 - DN65 99 (99A) N SP 40 - DN65 111 (111A) N		DN65				KIT P2	20140428
	111		100	185	KIT C21		
SP 40 - DN65 121 (121A) N	121	DN65	100	192	KIT C21	KIT P2	20140432
SP 40 - DN65 145 (145A) N	145	DN65	100	209	KIT C21	KIT P2	20140433
SP 60 - DN100 51 (51A) N	51	DN100	100	415	KIT C15	KIT P3	20140435
SP 60 - DN100 59 (59A) N	59	DN100	100	427	KIT C15	KIT P3	20140437
SP 60 - DN100 65 (65A) N	65	DN100	100	435	KIT C15	KIT P3	20140438
SP 60 - DN100 73 (73A) N	73	DN100	100	447	KIT C15	KIT P3	20140439
SP 60 - DN100 77 (77A) N	77	DN100	100	442	KIT C15	KIT P3	20083248
SP 60 - DN100 85 (85A) N	85	DN100	100	464	KIT C15	KIT P3	20140440
SP 60 - DN100 97 (97A) N	97	DN100	100	471	KIT C15	KIT P3	20083249
SP 60 - DN100 107 (107A) N	107	DN100	100	517	KIT C16	KIT P3	20140441
SP 60 - DN100 117 (117A) N	117	DN100	100	521	KIT C16	KIT P3	20083250
SP 60 - DN100 121 (79A) N	121	DN100	65	527	KIT C16	KIT P3	20039825
SP 60 - DN100 143 (100A) N	143	DN100	70	558	KIT C16	KIT P3	20039826
SP 60 - DN100 167 (109A) N	167	DN100	65	592	KIT C16	KIT P3	20039827

^{(*) %} of high efficiency plates on the total (**) See matching table with insulation kit page 418



INSULATION KITS MATCHING TABLE

Thermoformed insulation kits to combine with the heatgate plate heat exchangers for high and low temperature applications.

Description	Insulation kit type	Exchanger type	Maximum plate nr.	Code
Insulation kit SP 20 29	KIT C1	20	29	20096860
Insulation kit SP20 49	KIT C2	20	49	20096862
Insulation kit SP30 29	KIT C3	30	29	20096863
Insulation kit SP30 49	KIT C4	30	49	20096864
Insulation kit SP30 75	KIT C5	30	75	20096865
Insulation kit SP 35 41	KIT C17	35	41	20140442
Insulation kit SP 35 71	KIT C18	35	71	20140443
Insulation kit SP 35 101	KIT C19	35	101	20140444
Insulation kit SP 35 151	KIT C20	35	151	20140445
Insulation kit SP40 41	KIT C6	40	41	20090501
Insulation kit SP40 71	KIT C7	40	71	20096867
Insulation kit SP40 101	KIT C8	40	101	20096868
Insulation kit SP40 151	KIT C21	40	151	20140446
Insulation kit SP60 101	KIT C15	60	101	20096918
Insulation kit SP60 201	KIT C16	60	201	20116198

FEET MATCHING TABLE

Description	Feet kit	Exchanger type	Code
Ground fixing kit SP 20-30	Kit P1	20-30	20120281
Ground fixing kit SP 35-40	Kit P2	40-45	20120282
Ground fixing kit SP 60	Kit P3	60	20120284

THE MATCHING WITH THE BOILERS LISTED BELOW ARE VALID FOR THE HIGH WATER CONTENT MODELS AND FOR THE ALU PRO POWER BOILERS. CONTACT THE PRE SALES DEPARTMENT FOR THE MATCHING WITH CONDEXA PRO (OLD MODELS), CONDEXA PRO 2 EVO AND CONDEXA PRO 3.

SELECTION TABLE

BOILER ON HIGH TEMPERATURE INSTALLATION

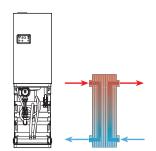
Instal	lation	power
IIIJu	lation	power

kW	Code	Model		
115	20014230	SP 40 - DN65 19 (19A) N		
150	20014218	SP 40 - DN65 23 (23A) N		
225	20014219	SP 40 - DN65 27 (27A) N		
300	20014235	SP 40 - DN65 35 (35A) N		
350	20014232	SP 40 - DN65 47 (47A) N		
450	20014231	SP 40 - DN65 59 (59A) N		
525	20014231	SP 40 - DN65 59 (59A) N		
600	20140425	SP 40 - DN65 67 (67A) N		
700	20140426	SP 40 - DN65 75 (75A) N		
750	20140426	SP 40 - DN65 75 (75A) N		
800	20140435	SP 60 - DN100 51 (51A) N		
900	20140437	SP 60 - DN100 59 (59A) N		
1000	20140438	SP 60 - DN100 65 (65A) N		
1150	20140439	SP 60 - DN100 73 (73A) N		
1250	20083248	SP 60 - DN100 77 (77A) N		
1450	20140440	SP 60 - DN100 85 (85A) N		

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	H₂O	80	60	≤ 33
Secondary	H₂O	50	70	≤ 33



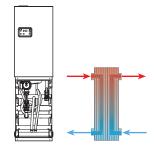
CONDENSING BOILER ON LOW TEMPERATURE INSTALLATION

Installation power

kW	Code	Model
35	20016742	SP 20 - DN32 21 (21A) N
75	20014217	SP 20 - DN32 41 (41A) N
100	20014240	SP 20 - DN32 49 (49A) N
115	20140411	SP 35 - DN50 31 (31A) N
150	20140413	SP 35 - DN50 39 (39A) N
180	20140415	SP 35 - DN50 49 (49A) N
225	20140416	SP 35 - DN50 57 (57A) N
300	20014231	SP 40 - DN65 59 (59A) N
350	20140425	SP 40 - DN65 67 (67A) N
375	20140426	SP 40 - DN65 75 (75A) N
450	20140427	SP 40 - DN65 93 (93A) N
525	20140429	SP 40 - DN65 111 (111A) N
600	20140433	SP 40 - DN65 145 (145A) N

Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	H ₂ O	60	40	≤10
Secondary	H ₂ O	30	40	≤ 31



NOTE: check ever the pressure drop

SOLAR THERMAL WITH SWIMMING POOL

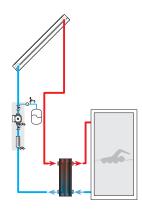
Installation power

kW	Code	Model	
20	20016729	SP 20 - DN32 29 (29A) E	
35	20016730	SP 20 - DN32 41 (41A) E	
50	20016731	SP 40 - DN65 23 (10A) E	
75	20016732	SP 40 - DN65 29 (13A) E	
100	20016733	SP 40 - DN65 33 (15A) E	

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	Glyc. 30%	55	35	≤ 2
Secondary	H₂O	29	33	≤ 20



SOLAR THERMAL WITH PUFFER

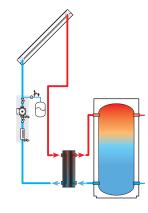
Installation power

kW	Code	Model	
20	20016734	SP 30 - DN32 17 (17A) E	
35	20016735	SP 30 - DN32 27 (27A) E	
50	20016736	SP 30 - DN32 37 (37A) E	
75	20016738	SP 30 - DN32 53 (53A) E	
100	20016739	SP 30 - DN32 69 (69A) E	

NOTE: check ever the pressure drop

Thermal program

-		Fluid	IN °C	OUT °C	Head loss (KPa)
	Primary	Glyc. 30%	60	40	≤ 5
_	Secondary	H₂O	35	55	≤ 5



420

SYSTEM COMPLEMENTARY ITEMS

RIELLO

INSTANTANEOUS DHW PRODUCTION

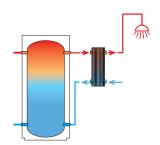
Installation power

Model	Code	kW
SP 30 - DN32 17 (17A) E	20016734	50
SP 30 - DN32 27 (27A) E	20016735	75
SP 30 - DN32 37 (37A) E	20016736	115
SP 40 - DN65 19 (19A) N	20014230	130
SP 40 - DN65 23 (23A) N	20014218	150
SP 40 - DN65 27 (27A) N	20014219	180
SP 40 - DN65 35 (35A) N	20014235	240
SP 40 - DN65 47 (47A) N	20014232	350
SP 40 - DN65 67 (67A) N	20140425	450
SP 40 - DN65 93 (93A) N	20140427	525
SP 40 - DN65 111 (111A) N	20140429	600

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	H ₂ O	50	30	≤20
Secondary	H₂0	10	43	≤ 20





HEAT PUMPS

HOT AIR GENERATORS



GAS HOT AIR GENERATORS

425

GAS HOT AIR GENERATORS



INTERNAL

GAS HOT AIR GENERATORS

GP CONDENS

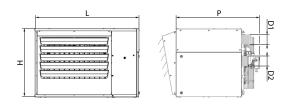
GP CONDENS 30 (28 kW-3200 m³/h)*
GP CONDENS 40 (37 kW-4400 m³/h)*
GP CONDENS 50 (48 kW-5500 m³/h)*
GP CONDENS 60 (57 kW-6500 m³/h)*
GP CONDENS 90 (89 kW-10000 m³/h)*
GP CONDENS 120 (115 kW-13000 m³/h)*

page 426

(*) Max useful power at 80-60 °C

GP Condens





High efficiency indoor gas hot air generators



RIELLO

- Wall-mounted gas hot air generators, premixed, high efficiency
- Up to 106% efficiency
- Axial fans

Description	H mm	L mm	P mm	D1 (*) mm	D2 (*) mm	Net weight kg
GP CONDENS 30	885	560	580	80	80	65
GP CONDENS 40	885	560	580	580 80		75
GP CONDENS 50	1225	610	650	80	80	90
GP CONDENS 60	1225	610	650	80	80	95
GP CONDENS 90	1775	710	800	100	100	205
GP CONDENS 120	1775	710	800	100	100	215

(*) Female.

GP Condens is the new wall-mounted gas hot air generator for the direct, diffusion, condensing pre-mixed, designed specifically to attain a high performance. The heat exchanger, made entirely out of stainless steel, provide the best possible performances and make inspection easy for normal cleaning and maintenance operations.

On the inside there is a multi-function electronic board that handles the burner's ignition operations, the flame monitoring and the overall

The new remote control panel allows you to display and set the main operating parameters of the machine, carry out the hourly programming and manage installations in cascade up to 10 generators.

- Range composed of 6 models with an output of 10 to 116 kW.
- Condensate drain kit as standard.
- Possibility of fastening to the wall or the roof (new).
- Possibility of managing up to 10 GP Condens in cascade.
- Indoor and outdoor temperature probe (available as accessories) for a more efficient ambient temperature measurement.
- Wide range of accessories for flue gases discharge and suction.
- Ideal for the heating of industrial, commercial, sports areas etc.

TECHNICAL DATA

Description	Useful output kW			e output :W	Air output m³/h		ciency (*) %	Notes	Code
	min	max	min	max	nominal	min	max		
GP CONDENS 30	10	28	9,4	29,1	3.200	106,5%	96,1%	(1)	20139254
GP CONDENS 40	14	37	13,3	38,5	4.400	105,1%	96,1%	(1)	20139258
GP CONDENS 50	19	48	18,4	49,8	5.500	103,2%	96,4%	(1)	20139259
GP CONDENS 60	21	57	20	59	6.500	105,1%	96,6%	(1)	20139260
GP CONDENS 90	35	89	33,3	90,8	10.000	105,2%	98,0%	(1)	20139261
GP CONDENS 120	43	115	40,6	116	13.000	106,0%	99,1%	(1)	20139262

With reference to Net Calorific Value (Hi) with recovery of the latent vaporisation heat.

GP Condens is combined with the remote control panel code 20139270. For cascade operation one panel is sufficient for up to a maximum of 10 heater units in

The gas heaters are set up to operate with methane gas and can be converted to LPg with the relative kit supplied.

The accessories for the flue gas exhaust and the air intake are not included in the supply and need to be ordered separately choosing from those on page 428.

ACCESSORIES

Description	Destination	Code
ASSEMBLY ACCESSORIES		
GP Condens 30-40 shelf	GP Condens 30-40	20032159
GP Condens 50-120 shelf	GP Condens 50-120	20139265
Remote room sensor	GP Condens	20032160
Outdoor air temperature sensor	GP Condens	20139267
Remote control panel	GP Condens	20139270
Suspended GP Condens	GP Condens	20139273

RIELLO



FLUE GAS EXHAUST/SUCTION LINE ACCESSORIES

Drawing	Description	Code
CONCENTRIC SYSTEM		
670	100/100 concentric on wall	20032161
125 86 8	Fitting Ø80/100	20139281
	100/100 concentric on roof	20139288
DOUBLE SYSTEM		
500	Discharge/suction pipe Ø80 x 500 mm	20139278
142 - - - - 80,	Terminal Ø80	20139279
142	Terminal Ø100	20139280
9	Bend Ø80	20139283
1000	Discharge/suction pipe Ø80 x 1000 mm	20139285
g g	Bend Ø80	20139287
\$ \$ \$	Roof terminal Ø80	20139289
1000	Discharge/suction pipe Ø100 x 1000 mm	4155552
590	Discharge/suction pipe Ø100 x 500 mm	4155554
170	Bend Ø100	4155556
g g	Bend Ø100	4155558
2 2	Roof terminal Ø100	4155564

INSTALLATION DIAGRAMS FLUE GAS EXHAUST/SUCTION

FRONT MALL PIDES		1113		<i>,</i> L G	A3 L	.///	031	, 50									_							
FRONT WALL PIPES Description																					-70			
Cestipation							1																	
		20139278		20139279		70000	4000014		20139280		20139281			20032161		20139278			20139279		4155554		20139280	1
				Flue	gas d	lischa	rge				Flue	gas e	xhau	ıst/ai ntric	r		£I.	ıe gas		ouble		ıctio	n	
GP CONDENS 30		•		•						+	•	1011 C	Office	•	+	•	110		•	austi	an su	ICLIC	11	
GP CONDENS 40		•		•						7	•			•		•			•					
GP CONDENS 50		•		•							•			•		•			•					
GP CONDENS 60		•		•							•			•		•			•					
GP CONDENS 90						•			•					•							•		•	
GP CONDENS 120						•			•					•							•		•	
FRONT WALL PIPES																								
Description			DAST							177	5791							B	7A					
					• • • • • • • • • • • • • • • • • • •																			
	20139283	20139278	20139285	20139279	4155556	4155554	4155552	20139280	20139283	20139278	20139285	20139281	20032161	4155556	4155554	4155552	20139283	20139278	20139285	20139279	4155556	4155554	4155552	20139280
			Flu	e gas	disch	arge				Flue	ue gas exhaust/air suction concentric					Double flue gas exhaust/air suction						tion		
GP CONDENS 30	•	•	•	•					•	•	•	•	•				•	•	•	•				
GP CONDENS 40	•	•	•	•					•	•	•	•	•				•	•	•	•				
GP CONDENS 50	•	•	•	•					•	•	•	•	•				•	•	•	•				
GP CONDENS 60	•	•	•	•					•	•	•	•	•				•	•	•	•				
GP CONDENS 90					•	•	•	•	•	•			•	•	•	•					•	•	•	•
GP CONDENS 120					•	•	•	•	•	•			•	•	•	•					•	•	•	•
PIPES ON ROOF																								
Description]													宜					
						4	<u>+12</u>											8	76		36	3		
						88	-68	336	66										#		*			
																					1			
	20139283	0	20139287	20139278	20139285	20139281	20139288		4155556	4155558	4155554	7 1 1 1	7666614	20139288	20139283	20139278		20139285	20139289	4155556	4155554		4155552	4155564
				Flue		xhau	st/air	suct	tion	conce	entric	_						Flue	gas	disch	arge			
GP CONDENS 30	•		•	•	•	•	•	•							•	•		•	•					
GP CONDENS 40	•	'	•	•	•	•	•								•	•	_	•	•					
GP CONDENS 50	•	_	•	•	•	•	•					_	_		•	•	4	•	•		-	_	_	
GP CONDENS 60	•	+ '	•	•	•	•	•	-	_		_	+	_	_	•	•	-	•	•	_	-	_	_	
GP CONDENS 90		+	_			-	-	_	•	•	•	_	•	•		-	+	_		•	•	-	•	•
GP CONDENS 120									•	•	•		•	•						•	•	<u> </u>	•	•

Certificato

Norma ISO 9001:2015

N° registro certificato 01 100 1917589

Titolare del certificato: RIELLO S.p.A

VIA INGEGNER PILADE RIELLO, 7

37045 Legnago (VR)

Italia

Campo di applicazione: Progettazione, fabbricazione e assistenza di: bruciatori per

riscaldamento residenziale e per applicazioni commerciali e industriali; caldaie murali e scaldabagni; gruppi termici, caldaie a

basamento e sistemi per il riscaldamento; collettori e

bollitorisolari. Commercializzazione ed assistenza di prodotti a proprio marchio per il condizionamento e la refrigerazione; prodotti per la cogenerazione e trigenerazione; complementi di impianto; ricambi e accessori; moduli inverter e strutture per

impianti fotovoltaici.

Mediante un audit è stata conseguita la dimostrazione che le prescrizioni della norma ISO 9001:2015 sono soddisfatte.

Validità: Questo certificato è valido dal 11.12.2019 fino al 10.12.2022.

Certificato da altro OdC dal 11.12.1992 al 11.12.2019

14.01.2020

TÜV Rheinland Cert GmbH Am Grauen Stein · 51105 Köln









Notes	

2021 EDITION 431

RIELLO	PRODUCT CATALOGUE
Notes	



RIELLO S.p.A. 37045 Legnago (VR) tel. +39 0442 630111 fax +39 0442 630371

In order to improve its products, RIELLO reserves the right to modify the characteristics and information contained in this catalogue at any time and without prior notice.

This catalogue, therefore, cannot be considered as contractually binding on third parties.