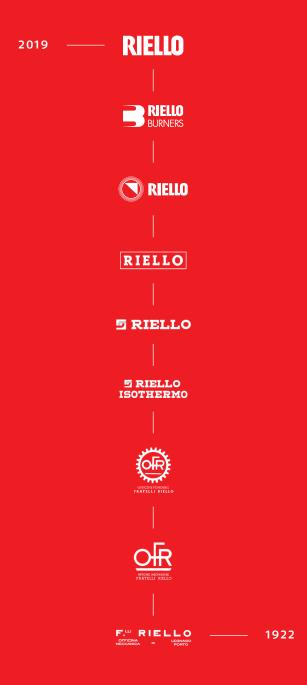


# PRODUCT CATALOGUE 2019 INTERNATIONAL MARKETS

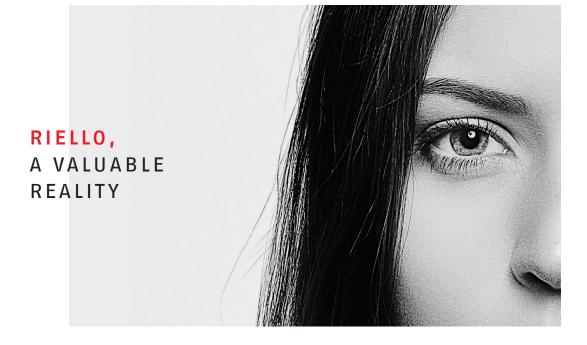
Autonomous residential Centralized residential Service Industry Industrial Process

March 2019





WE TRANSFORM ENERGY FROM NATURE INTO AN EXTENSIVE PRODUCT PORTFOLIO THAT ENSURES WELL-BEING IN MILLIONS OF HOMES AND STRUCTURES ALL OVER THE WORLD, WITH RESPECT FOR THE ENVIRONMENT AND PASSION, THANKS TO AN ORGANISATION AND A SALES NET THAT FIND IN THE KNOW-HOW AND FIGURES THEIR DISTINCTIVE FORCE.

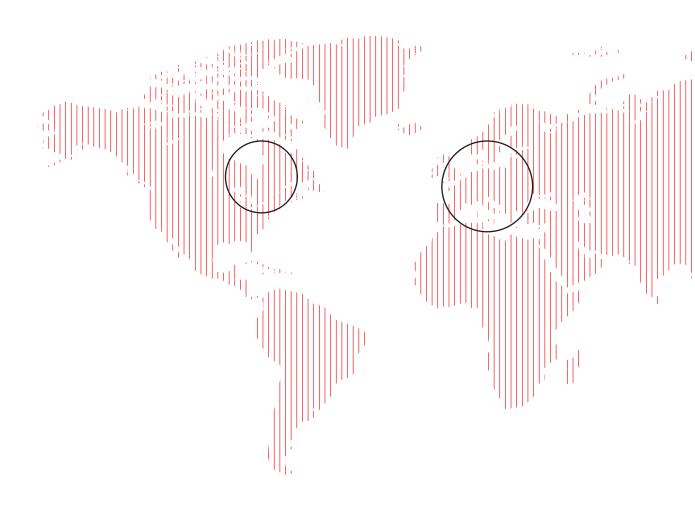


Riello's strength is the result of its technological innovation capacities and the experience it has acquired in over 90-year history. The reliability of a team of technicians, professionals and collaborators who are called upon every day to make their own contribution in terms of hard work, skill and creativity is a great value. Thanks to their commitment, and the use of innovative projects and ideas, Riello is now the Italian leader in the production of systems and technologies for every type of environment. This leading role means that new products are created every year, based on groundbreaking technology to ensure the efficient use of energy and

an improvement in the quality of the atmosphere and the well-being of the entire community. The figures are the most effective guarantee of this promise. The industrial organization currently boasts 8 production plants, Research Centres for product development, and a Combustion Research Centre that is one of the best in the world. The company's presence on worldwide markets is distinguished by a well-constructed and efficient sales network, alongside many important Training Centres located in various countries. Riello has 13 operational branches abroad (in Europe, America and Asia), with customers in over 60 countries.

# RIELLO,

# A WORLDWIDE PRESENCE



RIELLO CANADA Inc. (Canada) RIELLO Corp. of America (USA)

RHE BEIJING Branch (China) RIELLO Japan Inc. (Japan)

RIELLO S.p.A. (Italy)
FIT SERVICE S.p.A. (Italy)

RIELLO Ltd. (UK)

RIELLO S.A./N.V. (Belgium)

RIELLO S.p.A. Deutschland (Germany)

RIELLO S.A. (Switzerland)

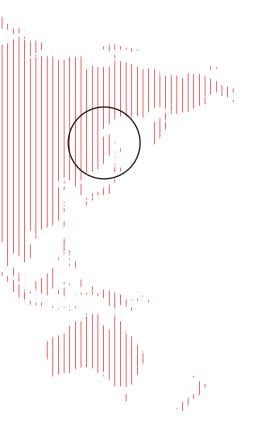
RIELLO FRANCE S.A. (France)

RIELLO RO S.r.I. (Romania)

RIELLO PALNIKI Sp.Zo.o. (Poland)

CIS RIELLO S.p.A. (Russian Federation)

With operational branches and commercial partnerships organized in a well-structured and efficient sales network, Riello is present in over 60 countries. Riello puts a great deal of emphasis on aftersales support, with a technical service team, technical training courses and an engineering team ensuring that you get training and service support whenever needed, together with the availability of original spare-parts.



EVERY DAY WE DESIGN AND DEVELOP TOP QUALITY PRODUCTS THAT ESTABLISH NEW REFERENCE STANDARDS IN TERMS OF PERFORMANCE, PRACTICALITY, ENERGY SAVING AND SUSTAINABILITY.

The concentration on industrial processes and the ongoing investment in research are the factors that have allowed Riello to improve the productivity of its plants and identify new development areas. If, on one side, the traditional work sectors have seen an increase in the range of high efficiency applications (such as gas and light oil condensing boilers), on the other side there is a focus on new technologies combining energy efficiency and reduction of polluting emissions with the use of renewable energies.

Such a wide range of products has notably increased the company's levels of competitiveness, so that it is now able to meet all its customers' needs, from domestic applications to commercial and industrial systems. In particular, Riello is now orientating its offer towards integrated systems, consisting in the combination of products and components whose specific characteristics result in customized and highly efficient solutions, for every kind of building, while constantly respecting the environment.



The 26<sup>th</sup> September 2015 the ErP European Directive came into force. ErP stands for "Energy related Products" (products connected to the use of energy) and it identifies the ErP European Directive 2009/125/ EC, as defined by the EEC with the aim of reducing the energy consumption of products through an eco-design system. The Regulations issued require that all

products for heating and/or hot water production, with a thermal output lower or equal to 70 kW have to be placed on the market with an energy label showing the Efficiency class. The Regulation provides the mandatory presence of the energy label starting from 26th September 2015, for placing the product from the factories to the market.











# A NEW WAY OF LEADING THE CONSUMER

The way that leads the market towards the use of equipment more and more efficient does not end with the implementation of the new Regulation from 2015, 2017 and January 2018 to make more restrictive the minimum requirements, both in terms of energy classes and efficiency. In September 2018 there has been introduced further limits for the emission of nitrogen oxides (NOx) for generators.

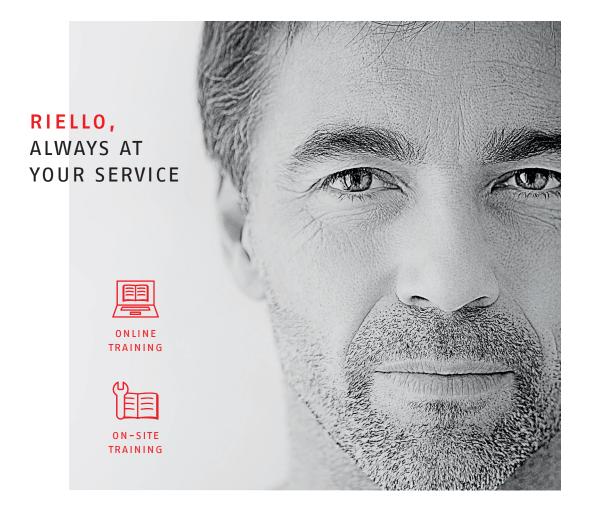
Riello, following with its technical experts the development of Regulations since their genesis, guarantees a proposal for products to be placed at the top of the energy classes, as well as the exceeding of the limits of seasonal energy efficiency. Riello and its commercial structures are the best partner with whom to be ready for the new European requirements.

- [1] Label for heating boilers
- [2] Label for the cogeneration unit for heating
- [3] Label for heating with heat pump
- [4] Label for heating with heat pump at a low temperature
- [5] Label for combination boilers
- [6] Label for mixed appliances with heat pump
- [7] Label for the system









Since the beginning training is an integrated part of Riello business and a distinctive element recognized by the market for consistency and coherence. Riello attention is to transfer the knowledge and competence with a process of continuing training, both for employees and for customers/partners.

An activity that is characterized by a program of meetings for technical updating and specific training courses dedicated to professional growth of technician and installers. Professionalism, competence and reliability are daily made available to favor the complete knowledge of products and system solutions of the latest generation.

Training for Riello means also to know the evolution of the Regulation and be able to interpret in advance their development. The organization of Riello presales and training is ready to offer a continuous support and the best training courses to its Customers, essential tools to face a market constantly changing.

The new training center in Angiari (Legnago, Verona) is a concrete example of the importance of training for Riello.

The new facility, recently opened, has classrooms and equipped laboratories to provide theoretical and practical training, using the most modern learning systems.

# RIELLO, A LOOK TO THE FUTURE

The rapid development of technologies for climate control and approval of new and more stringent international Regulations for energy saving have stimulated the reorganization of industrial strategies, aimed to continuously improve the traditional business sectors. In addition to the growth of the high efficiency applications and a stronger input towards integrated

systems made by the union of components and products that place side by side to the energy efficiency the use of renewable forms of energy, the Company is focusing on developing new products with high content of technological innovation and sustainability environment, to increase its competitive capacity in new market niches.





# RIELLO

# PRODUCT CATALOGUE

In an increasingly demanding market Riello offers solutions able to satisfy any request of the customer, with a wide range of products suitable for different applications from the single flat to the centralized heating and/or industrial applications. Moreover, in order

to let the customer find easily the right product for the specific application, Riello has segmented the catalogue in three parts, starting with residential section and ending with the commercial. Some products, due to their nature, cannot be placed in neither parts but

they work as "trait d'union" between the residential and commercial. For this reason you can find a specific section for heat pumps, fan coils and solar system. In this way Riello remarks its specialization in any segment and any product range.

In order to make this product catalogue a tool easier to read and interpret, Riello introduces the following self-explanatory symbols.



The product is included in the Erp Regulation "Energy Related Product" and it complies to the requirements.



Represents the energy efficiency class of the specific product model.



Not suitable for EU / intended for Extra EU commercialization and use only, due to the non compliance to Directive 2009/125/EC. If not specifically indicated, all these products are NOT provided with CE mark. 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.



Product equipped with low nitrogen oxides emissions burner in compliance with the European Regulations in force since September 2018 that set the new limits of nitrogen oxides at 56 mg/kWh or less, for the safeguard of the environment.

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**HEAT PUMPS** 



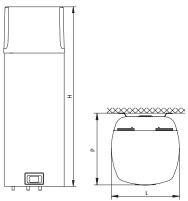
# FOR CENTRAL HEATING AND DHW PRODUCTION FROM LOW TO MEDIUM POWER

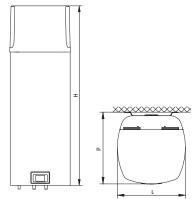
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DHW air-water heat pump

# **NexAqua**









· Highest efficiency energy efficiency class

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+

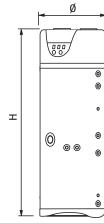
### **TECHNICAL DATA**

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	<b>-</b> 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
- Value refers to heat pump operation without additional electrical resistances M load profile

DHW air-water heat pump

# NexPro 300 Plus







· Highest efficiency energy efficiency class

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+

# **TECHNICAL DATA**

**RIELLO** 

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

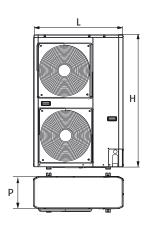
# **ACCESSORIES**

Description	Code
RSS MRS	20116166

Air-water heat pump

# **NexPolar**







- High-efficiency inverter heat pump
- Reversible (heating and cooling)

Description	H mm	L mm	P mm
NexPolar 004-006-008	820	900	320
NexPolar 012-015	1360	900	320
NexPolar 017-022	1579	1135	559

Nexpolar is Riello solution for heating and cooling, with the possibility to produce DHW for residential needs in high efficiency installations. This unit is equipped with a DC-inverter control system with PAM and PWM modulation, which allows the Twin-Rotary compressor to have a continuous modulation going from 30% to 120%, thus providing high energetic levels under all conditions

The operating range of the unit in the wintertime reaches an outside temperature of -20 °C, with hot water up to +60 °C; in the summertime the maximum outside temperature is +47 °C with +18 °C maximum temperature of the refrigerated water.

Nexpolar is therefore the ideal solution for all domestic and light-commercial applications for under-floor heating and cooling systems or fan coil units.

Being a monobloc unit, all components are built-in enclosed to make the installation faster and easier.

Nexpolar is equipped with an advanced remote control as standard and comes in five mono-phase sizes and in four three-phase sizes, from 4,1 to 21,0 kW.

- Dc-inverter technology with Twin-Rotary compressor
- Reduction of starting current thanks to the inverter technology
- High COP and EER
- They can be connected to low temperature radiators, floor-heating elements and fan coil units
- Remote control supplied as standard
- Water heating temperature up to +60 °C
- Fast and simple assembly; only the water connection is required
- Reduced dimensions.

# **TECHNICAL DATA**

**RIELLO** 

Description		Hea	ating			Cooling				Energy	Code
	Floo	Floor (1) Fan		oil (2)	Floo	Floor (3)		oil (4)	- V/ph/Hz	efficiency class (5)	
	Heating capacity kW	СОР	Heating capacity kW	СОР	Cooling capacity kW	EER	Cooling capacity kW	EER		°	
NexPolar 004 ME	4,07	4,15	3,87	3,26	4,93	4,20	3,33	3,02	230/1/50	A++	20099252
NexPolar 006 ME	5,76	4,28	5,76	3,05	7,04	3,70	4,73	3,00	230/1/50	A++	20099253
NexPolar 008 ME	7,16	3,97	7,36	3,19	7,84	3,99	5,84	2,98	230/1/50	A+	20099254
NexPolar 012 ME	11,86	3,95	12,91	3,03	13,54	3,66	10,24	2,96	230/1/50	A+	20099255
NexPolar 015 ME	14,46	4,09	13,96	3,23	16,04	3,85	13,04	2,95	230/1/50	A++	20099398
NexPolar 012 TE	12,00	4,30	11,20	3,35	13,50	4,15	10,20	3,00	400/3/50	A++	20099399
NexPolar 015 TE	15,00	4,20	14,50	3,30	16,00	3,81	13,00	2,91	400/3/50	A++	20099400
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

These units performances refer to the Directive UNI EN EN 14511–3:2013. Performance refer to the following conditions:

(1) Heating: flow water 35 °C (\( \Delta \text{ 5K} \)); external temperature d.b. 7 °C/w.b. 6 °C

(2) Heating: flow water 45 °C (\( \Delta \text{ 5K} \)); external temperature d.b. 7 °C/w.b. 6 °C

(3) Cooling: flow water 18 °C (\( \Delta \text{ 5 °C} \)); inlet temperature 35 °C

(4) Cooling: flow water 7 °C (\( \Delta \text{ 5 °C} \); inlet temperature 35 °C

(5) Seasonal efficiency class referred to an average climatic zone and 55 °C flow temperature

# **ACCESSORIES**

Description	Notes	Code
RIELLO 7200 300 HP (NexPolar 004-006-008)		4383500
RIELLO 7200 500 HP (NexPolar 012-015)		4383501
Puffer Riello 7000 Aci 60 Plus		20090056
Puffer Riello 7000 Aci 120 Plus		20082450
Puffer Riello 7000 Aci 200 Plus		20028093
1,5 kW electrical single-phase resistance kit for 300 HP and 7000 Aci Plus	(1)	4383270
3,8 kW electrical three-phase resistance kit for 500 HP and 7000 Aci Plus	(1)	20020707
Solar coil exchanger 0,8 m² for 300 HP	(1)	4383504
Solar coil exchanger 1,2 m² for 500 HP	(1)	4383505
External air probe		20028567
Domestic hot water sensor	(2)	20121637
Cascade sensor	(2)	20121638

- Must be ordered together with the finished good and comes not installed Suitable only for models NexPolar 017–022  $\,$

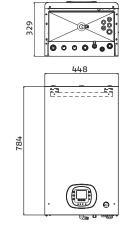
Air-water split heat pumps

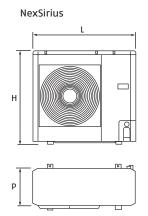
# **NexSirius**

NexBox

WHILE STOCKS LAST







# ERP

- High-efficiency inverter heat pump
- Reversible (heating and cooling)

Description	H mm	L mm	P mm
NexSirius 6	690	900	320
NexSirius 7	820	900	320
NexSirius 10-15	1360	900	320

NexSirius is a family of RIELLO split heat pumps, ideal for floor-heating and/or with fan coils and for DHW production. NexSirius consists of an outdoor INVERTER unit to be matched with an indoor hydronic unit NexBox. The heating capacity can modulate from 30% to 120%, while ensuring silent operation and high efficiency.

NexBox, the indoor unit of the system, can be easily connected to floor-heating, fan coils, low temperature radiators, etc. thanks also to different built-in components: circulator, expansion vessel, filter, air vent valve and flow switch.

NexBox is available in two versions:

- Version A): Heating/Cooling, without electrical resistance
- Version B): Heating/Cooling, with electrical resistance

Both versions of NexBox can be matched with the "3-ways valve kit", to be easily combined with a boiler (for the alternate operation only) and with a tank for the DHW production.

The whole system is controlled by an electronic board like RIELLOtech, which allows to manage also complex installations. NexSirius dimensions are among the most reduced on the market with a height of only 735 mm, a width of 410 mm and a depth of 260 mm. The system is extremely flexible, working with an external temperature till -15 °C and producing DHW up to 60 °C. NexSirius comes in four sizes (from 5 to 15 kW), ensuring high efficiency up to A++ class, which is ideal for all kinds of residential application for heating and cooling.

- Dc-inverter technology with Twin-Rotary compressor
- Reduction of starting current thanks to the inverter technology
- Efficiency up to A++ energy efficiency class
- It can be connected to low temperature radiators, floor-heating and fan coils
- Heating temperature up to +60 °C
- Hybrid operation (heat pump or, alternatively, boiler)
- Fast and simple installation; only the water connection is required
- Separated hydronic system to prevent any risk of freezing
- Extremely reduced dimensions.

# **TECHNICAL DATA**

**RIELLO** 

Description			Heating				Cod	oling		Power supply	Energy	Code
	Floo	r (1)	Fan co	oil (2)	Electric	Floo	r (3)	Fan c	oil (4)	V/ph/Hz	efficiency class (5)	
	Heating capacity kW	COP	Heating capacity kW	СОР	heater kW	Cooling capacity kW	EER	Cooling capacity kW	EER		1111	
WITHOUT ELECTRICAL RE	SISTANCE	FOR BO	ILER COM	IBINATIO	N							
NexSirius 006 M										230/1/50		20022322
NexBox 007 N					-					230/1/50		20102843
SET NexSirius 006	5	4,15	4,37	3,42		5,1	3,4	3,57	2,6		A+	20104207
NexSirius 007 M										230/1/50		20022323
NexBox 007 N					-					230/1/50		20102843
SET NexSirius 007	6,6	4,15	5,7	3,34		6,6	3,4	4,73	2,6		A+	20104213
NexSirius 010 M										230/1/50		20022324
NexBox 012 N					-					230/1/50		20102844
SET NexSirius 010	9,3	4,48	8,7	3,46		7,9	4,05	5,95	3,07		A+	20104219
NexSirius 013 M										230/1/50		20022325
NexBox 012 N					-					230/1/50		20102844
SET NexSirius 013	11,5	4,1	11,3	3,3		9	3,8	6,8	2,88		A++	20104222
NexSirius 015 T										400/3/50		20102839
NexBox 015 N					-					400/3/50		20102846
SET NexSirius 015	15	4,3	14,02	3,4		15,8	4,24	12,6	3,17		A++	20104224
WITH ELECTRICAL RESIST	ANCE											
NexSirius 006 M										230/1/50		20022322
NexBox 007 RN					3					230/1/50		20102840
SET NexSirius 006R	5	4,15	4,37	3,42		5,1	3,4	3,57	2,6		A+	20104205
NexSirius 007 M										230/1/50		20022323
NexBox 007 RN					3					230/1/50		20102840
SET NexSirius 007R	6,6	4,15	5,7	3,34		6,6	3,4	4,73	2,6		A+	20104210
NexSirius 010 M										230/1/50		20022324
NexBox 012 RN					3					230/1/50		20102841
SET NexSirius 010R	9,3	4,48	8,7	3,46		7,9	4,05	5,95	3,07		A+	20104216
NexSirius 013 M										230/1/50		20022325
NexBox 012 RN					3					230/1/50		20102841
SET NexSirius 013R	11,5	4,1	11,3	3,3		9	3,8	6,8	2,88		A++	20104221
NexSirius 015 T										400/3/50		20102839
NexBox 015 RN					6					400/3/50		20102842
SET NexSirius 015R	15	4,3	14,02	3,4		15,8	4,24	12,6	3,17		A++	20104223

- U.e.: external unit U.i.: internal unit

  Performance values refer to the following conditions:

  (1) Heating: flow water 35 °C (\Delta t 5K); external temperature d.b. 7 °C/w.b. 6 °C

  (2) Heating: flow water 45 °C (\Delta t 5K); external temperature d.b. 7 °C/w.b. 6 °C

  (3) Cooling: flow water 18 °C (\Delta t 5 °C); inlet air temperature 35 °C

  (4) Cooling: flow water 7 °C (\Delta t 5 °C); inlet air temperature 35 °C

  (5) Seasonal efficiency class referred to an average climatic zone and 55 °C flow temperature

# **POSSIBLE COMBINATIONS WITH NEXSIRIUS**

Description	Riello 7200 - 300 HP Volume 300 I Surface 3,7 m²	Riello 7200 - 500 HP Volume 500 l Surface 5,6 m²
NEXSIRIUS 006-010	•	
NEXSIRIUS 012-015		•

# **ACCESSORIES**

Description	Notes	Code
3-ways valve for DHW management	(1)	20102852
RIELLO 7200 300 HP		4383500
RIELLO 7200 500 HP		4383501
RIELLO 7200 Aci 60 Plus		20090056
RIELLO 7200 Aci 120 Plus		20082450
Puffer Riello 7000 Aci 200 Plus		20028093
1,5 kW electrical single-phase resistance kit for 300 HP and 7000 Aci Plus	(1)	4383270
3,8 kW electrical three-phase resistance kit for 500 HP and 7000 Aci Plus	(1)	20020707
Solar coil exchanger 0,8 m² per 300 HP	(1)	4383504
Solar coil exchanger 1,2 m² per 500 HP	(1)	4383505
External air probe	(1)	20028567

<sup>(1)</sup> Must be ordered together with the finished good and comes not installed



**HEAT PUMPS** 

WALL-HUNG BOILERS	IØ
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# CONDENSING WALL-HUNG BOILERS





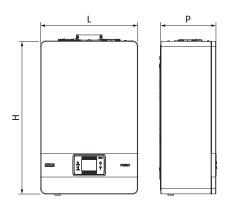
- KIS Combi: Heating and DHW production - room sealed
- Heating only room sealed Combi: Heating and DHW built-in tank room sealed

ERP

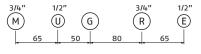


Wall-hung condensing boilers

# **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

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

Stainless steel primary heat exchangerHigh performance domestic hot water

• Self-adaptive electronic combustion

· Combi and heating only models, NG and

- 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

heat exchanger

LPG compatible

control
• Class 6 NOx

- 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



**HEAT PUMPS** 

### **TECHNICAL DATA**

Description	Heat input Heating/DHW	Useful e	seful efficiency DHW producti		Energy efficiency class		Notes	Code
	min - max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	ΔT 25° I/min	1111	7		
COMBI HEATING AND INSTANTA	NEOUS DOMESTIC HOT WA	ATER VERSION						
FAMILY 25 KIS	3,6-20,0/3,6-25,0	106,2	108,4	15,1	А	А	(1)	20133714
FAMILY 30 KIS	4,9-25,0/4,9-30,0	106,0	108,1	18,1	А	Α	(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	-	А	_	(1)	20133715
FAMILY 35 IS	4,9-30,0/4,9-34,6	106,9	108,0	-	A	-	(1)	20133717

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

# **ACCESSORIES**

Description	Notes	Code
ELECTRICAL ACCESSORIES		
Double relay kit (second pump/lockout signal)		20062614
Anti-freeze resistors kit for combi versions		20145304
Anti-freeze resistors kit for heating only versions		20145305
Outdoor temperature sensor kit		1220559
Thermowell 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° Ø60/100 mm boiler start bend kit	(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

<sup>(1)</sup> (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.

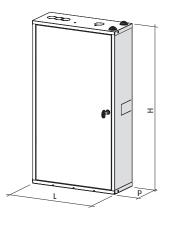
Dedicated flue gases accessories, compatible with the Family flange. For further accessories for the flue gas exhaust system, see the section "Flue gas exhaust systems"

**RIELLO** 

# **HYDRAULIC DISTRIBUTION MODULES**

Description	Zone management	Notes	Code
BAG <sup>3</sup> HYBRID 1D	1 direct zone	(1)(2)	20130805
BAG <sup>3</sup> HYBRID 2D	2 direct zone	(1)(2)	20130806
BAG <sup>3</sup> 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 <sup>3</sup> HYBRID 1D	797	400	160	17
BAG <sup>3</sup> HYBRID 2D	797	400	160	18
BAG <sup>3</sup> HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

### **ACCESSORIES FOR BAG<sup>3</sup> HYBRID**

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

# RICLOUD SMART REMOTE CONTROL

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

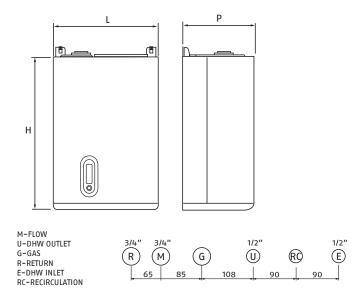
Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
Maa	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

- Possibility of only ON/OFF connection on BAG<sup>3</sup> 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.



Condensing wall-hung boilers

# **Family Aqua Condens**



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

# NEID FAMILY



- 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

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.

# TECHNICAL DATA

Description	Heat input Useful efficiency Heating/DHW		Tank Fue		el Energy efficiency class		Code	
	min - max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	I		•	7	
ROOM-SEALED - HEATING AND DHW PRODUCTION								
FAMILY AQUA CONDENS 3.5 BIS	3,5-35,0	105,5	108,0	60,0	NG	А	Α	20021509

# **ACCESSORIES**

**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)	4047253
Interface board ITRF11	20047522
Remote alarm kit	20042454
Room sensor kit Family REC	4047265
Zone valves management kit for Family REC	4047251
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

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
- 6 B.8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	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.

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

**HEAT PUMPS** 

Wall-hung condensing boilers

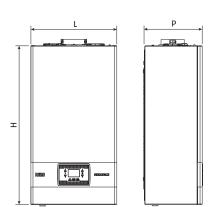
## Residence



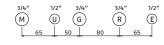




- Stainless steel primary heat exchanger
- Self-adaptive electronic combustion control
- Class 6 N0x
- Combi and heating only models, NG and LPG compatible



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)















### **TECHNICAL DATA**

**RIELLO** 

Description	Heat input Heating/DHW	Useful ef	fficiency	DHW production	- 03	fficiency iss	Notes	Code
	min-max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	ΔT 25° I/min	1111	<b>~</b>		
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	Α	(1)	20139525
RESIDENCE 30 KIS	4,9-25,0/4,9-30,0	106,0	108,1	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		
Double relay kit (second pump/lockout signal)		20062614
Anti-freeze resistors kit for combi versions		20145304
Anti-freeze resistors kit for heating only versions		20145305
Outdoor temperature sensor kit		1220559
Thermowell 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° Ø60/100 mm boiler start bend kit		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

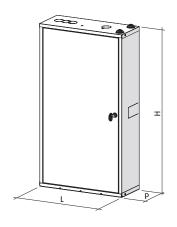
Unit supplied complete with door
Code necessary for vertical discharge with flue system ø60/100. Accessory already included in the kit 20129177
Code necessary for horizontal discharge with flue system ø60/100. Accessory already included in the kit 20129175 and 20129176
allows you to manage a MIX zone (pump + 3-point mixer valve) or DIR zone (only pump). Not necessary for BAG³ HYBRID
The first zone management kit should 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**

Description	Zone management	Notes	Code
BAG <sup>3</sup> HYBRID 1D	1 direct zone	(1)(2)	20130805
BAG <sup>3</sup> HYBRID 2D	2 direct zone	(1)(2)	20130806
BAG <sup>3</sup> 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 <sup>3</sup> HYBRID 1D	797	400	160	17
BAG <sup>3</sup> HYBRID 2D	797	400	160	18
BAG <sup>3</sup> HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

#### **ACCESSORIES FOR BAG<sup>3</sup> HYBRID**

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

### RICLOUD SMART REMOTE CONTROL

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

Drawing	Description	Notes	Code
37/ 3	RiCLOUD with Wi-Fi box	(1)	20117394
18:8 · C	RiCLOUD	(2)	20117399
958 T	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.

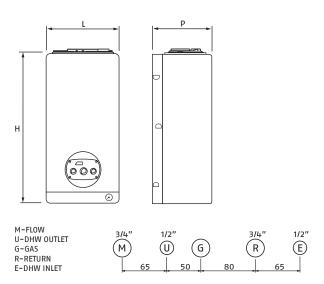
Condensing wall-hung boilers

# **Residence Condens**





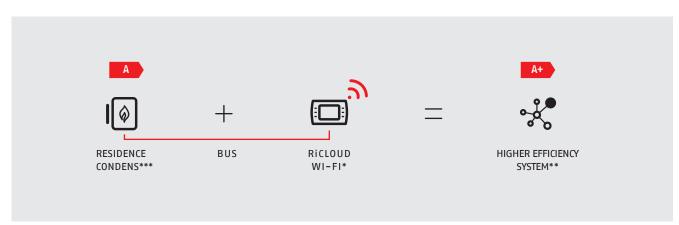
- In conformity with Directive 2009/125/EC
- Low polluting emissions
- Condensing heat exchanger in aluminium, with premix burner
- · Models: heating-only and combi



Description	H mm	L mm	P mm	Net weight kg
RESIDENCE CONDENS 25 KIS	845	400	358	39
RESIDENCE CONDENS 32 KIS	845	400	358	40
RESIDENCE CONDENS 35 KIS	845	450	358	43
RESIDENCE CONDENS 32 IS	845	400	358	38

Residence Condens is for mid-sized utilities. The heat exchanger, manufactured 100% aluminium, ensures high efficiency and long life, while reducing polluting emissions to a minimum. It is available with outputs from 25 to 35 kW.

- The heating-only and combi instantaneous boilers offer an high modulating ratio and can be matched with solar systems
- High efficiency circulator (EEI ≤ 0,20)
- "Winter with Preheating" function: allows maintaining the temperature of the DHW exchanger by reducing waiting times during DHW request
- 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
- Thermoregulation supplied as standard and with the external probe (as optional)
- Boilers are equipped with: mounting template and wiring (hydraulic fittings as accessories).



- Connected via BUS to the boiler + external temperature from Internet
- A+ energy efficiency class can be obtained also equipping the boiler with a remote control and an external probe Excepting RESIDENCE CONDENS 35 KIS

### **TECHNICAL DATA**

Description	Heat input Heating/DHW	Useful e	fficiency	DHW production	Fuel	- 03	fficiency ass	Code
	min-max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	ΔT 25° I/min		°M)	7	
ROOM-SEALED - HEATING AND DHW PRODUCTION								
RESIDENCE CONDENS 25 KIS	3,1-20,0/3,1-25,0	105,0	109,6	14,3	NG	Α	А	20142427
RESIDENCE CONDENS 32 KIS	3,7-30,0/3,7-32,0	104,7	109,5	18,3	NG	Α	Α	20142428
RESIDENCE CONDENS 35 KIS	3,5-34,6/3,5-34,6	108,0	108,0	19,8	NG	Α	А	20142461
ROOM-SEALED - HEATING-ONLY								
RESIDENCE CONDENS 32 IS	3,7-30,0/3,7-32,0	104,7	109,5	-	NG	A		20142429

### **ACCESSORIES**

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
ELECTRICAL ACCESSORIES	
External probe	4047726
Remote tank probe (for IS model)	4047473
Zone valves management kit	20000785
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Condensate evacuation pump	20097192
Hydraulic connections kit	20051979
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113
MECHANICAL ACCESSORIES	
Mounting template kit 25-32 kW (5 pcs)	4047985
Mounting template kit 35 kW (5 pcs)	4047477

### RICLOUD SMART REMOTE CONTROL

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

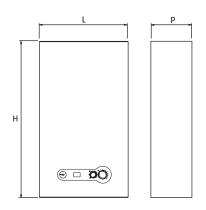
Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
MELLE SERVICE	RiCLOUD	(2)	20117399
9:50 0	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

- 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).

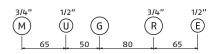


Condensing wall-hung boilers

## **Start Condens**







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





- 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 ≤ 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 e	efficiency	DHW production	Fuel	- 03	fficiency ass	Code
	min-max kW	Pn (50°/30 °C) %	30% Pn (return 30°C) %	ΔT 25° I/min		.000	~	
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

### **ACCESSORIES**

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	4047726
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

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
Mina   M	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.

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

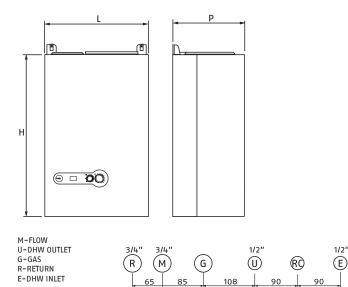
(\*) (1) (2)

**TERMINAL UNITS** 



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



- 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  $\leq$  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 Useful efficiency Heating/DHW		DHW Fuel production		Energy efficiency class		Code	
	min-max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	ΔT 25° I/min		•	<b>~</b>	
ROOM SEALED - HEATING AND DHW PR	ODUCTION WITI	H TANK				~		
START AQUA CONDENS 25/45 BIS	6,0-25,0	105,0	107,1	14,3	NG	А	А	20142452
START AQUA CONDENS 25/60 BIS	6,0-25,0	105,0	107,1	14,3	NG	А	A	20142453

### **ACCESSORIES**

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	4047726
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

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
- e	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.

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

# **ERP**

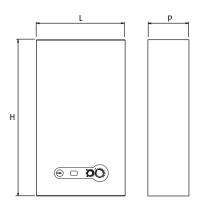


- In conformity with Directive 2009/125/EC
- Combi models
- Low N0x emissions

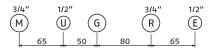
### Wall-hung condensing boilers

## **Start AR**

NEW



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

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 Heating/DHW	Useful e	fficiency	DHW production	Fuel	Energy e	fficiency iss	Code
	min-max kW	Pn (80°/60 °C) %	30% Pn (return 30 °C) %	ΔT 25° I/min		1111	رِيٍّ	
VERSION WITH GAS-TIGHT CHAM	IBER AND FORCED DRAUG	HT-HEATING /	AND PRODUCTI	ON OF BOILER	R DOMESTI	C HOT WAT	ER	
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

### **ACCESSORIES**

Description	Code
ELECTRICAL ACCESSORIES	
External probe	4047726
Kit for managing second pump or zone valves	20000784
Condensate boiler-syphon anti-freeze resistors kit	20106017
Tray anti-freeze resistors kit	20106019
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) 25 KIS	20105784
Outdoor upper cover kit (partially protected place) 29 KIS	20105786

### RICLOUD SMART REMOTE CONTROL

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

Drawing	Description	Notes	Code
37/ 3	RiCLOUD with Wi-Fi box	(1)	20117394
Max   Max	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.

### STANDARD-EFFICIENCY WALL-HUNG BOILERS

		EU		ONLY EXT	RA EU*
KI	MONOTHERMIC	**************************************	START LN  START 24 KI LN (10,7-26,7/9,0-26,7 kW)  START 28 KI LN (14,0-31,9/9,0-31,9 kW)  NEW  page 50	## ### ### ###########################	START 28 KI (8,7-28,6 kW) page 52
	BITHERMIC			*200	FASTECH FASTECH 24 KI (8,0-24,6 kW) page 54
KIS	MONOTHERMIC				FAMILY  FAMILY 30 KIS (8,9-30,4 kW)  page 48  START  START 24 KIS (7,5-24,0 kW)  START 28 KIS (11,0-27,9 kW)  START 35 KIS (10,8-34,9 kW)  page 52
	BITHERMIC			•===	FASTECH FASTECH 24 KIS (7,5-23,9 kW) page 54

- Combi: Heating and DHW Production conventional flue Combi: Heating and DHW Production room sealed
- 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.



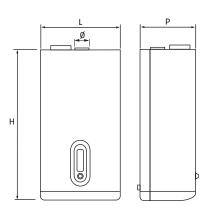


Standard-efficiency wall-hung boilers

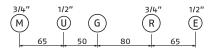
# **Family**



- Room sealed model
- Combi models



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



Description	H	L	P	Net weight
	mm	mm	mm	kg
FAMILY 30 KIS	805	400	332	36

Family is Riello high-efficiency top wall-hung boiler in the room sealed proposal. Thanks to its particular Comfort Button, Memory Button, Touch&Go Function and Smart semi-automatic Filling System, it offers high technology while ensuring ease of control and function management. It is available 30 kW outputs.

- DHW production through a stainless steel plate heat exchanger
- Frost protection thermostat with heating NTC probe, which turns ON when the temperature achieves 5 °C
   Room temperature control directly managed by the boiler board together with the external probe (optional)
- Boilers are equipped with: mounting template, hydraulic connections, cover and wiring.

### **TECHNICAL DATA**

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 AND DHW PRODUCTION							
FAMILY 30 KIS	8,9-30,4	93,7	94,3	12,4	NG	20089179	

### **ACCESSORIES**

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	20093525
ELECTRICAL ACCESSORIES	
External probe	4047726
Family Remote Control (RECO6) (with electronic interface board)	4047253
Room sensor kit Family REC	4047265
Zone valves management kit for Family REC	4047260
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
High head pump kit	20105879
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113

### RICLOUD SMART REMOTE CONTROL

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

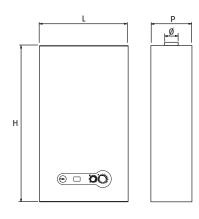
Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
18.8 1 4 4 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

- 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.

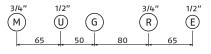
  Compatible with RF connection to the Wi-Fi box, cod. 20111885 (accessory not included, necessary to connect to the home Wi-Fi).

### Start LN





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



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

# Standard wall-hung boilers







- Open chamber
- Combi model
- Only for replacement on CCR
- Low NOx 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.

- 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 °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		fficiency	DHW production	Fuel	Energy efficiency class		Code
	min-max kW	Pn (80°/60 °C) %	30% Pn (rit. 50 °C) %	∆T 25° I/min		2000	5	
VERSION WITH OPEN CHAMBER-HEAT	ING AND PRODUCTION OF	BOILER DOME	STIC HOT WA	ΓER				
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

### **ACCESSORIES**

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	4047726
Kit for managing second pump or zone valves	20000784
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
19:8 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	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.

WATER-HEATERS

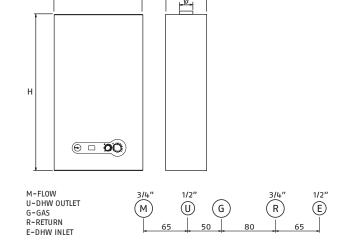




Standard efficiency wall-hung boilers

### 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 AND 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			

### **ACCESSORIES**

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	4047726
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

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
18:8°	RiCLOUD	(2)	20117399
955-1	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).

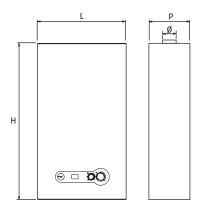
WATER-HEATERS



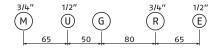
Standard efficiency wall-hung boilers

## **Fastech**





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



Description Р Ø Н Net weight mm mm mm mm FASTECH 24 KI 740 400 332 130 30 **FASTECH 24 KIS** 715 405 248 28

Conventional flue and room sealed models

Combi boiler

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 (∆t 25°) I/min	Fuel	Code				
CONVENTIONAL FLUE - HEATIN	G AND DHW PRODUCTION	)N								
FASTECH 24 KI	8,0-24,6	92,0	90,8	14,1	NG	20122804				
ROOM SEALED - HEATING AND DHW PRODUCTION										
FASTECH 24 KIS	7,5-23,9	92,8	91,8	13,7	NG	20122807				

### **ACCESSORIES**

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	4047726
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

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
MDD 18:8"   A	RiCLOUD	(2)	20117399
956-1 Q	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).

## SYSTEM COMPLEMENTARY ITEMS

**HEAT PUMPS** 

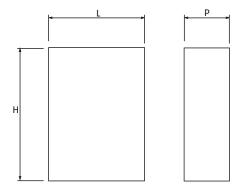
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**TERMINAL UNITS** 

System complementary items

# Bag<sup>3</sup>







- Hydraulic separator
- Low-energy circulators

Description	H mm	L mm	P mm	Net weight kg
BAG <sup>3</sup> AP - BAG <sup>3</sup> 2 AP - BAG <sup>3</sup> 3 AP	720	400	160	10, 12, 14
BAG <sup>3</sup> MIX BASIC - BAG <sup>3</sup> MIX CLIMA	720	400	160	16
BAG <sup>3</sup> 2 MIX BASIC - BAG <sup>3</sup> 2 MIX CLIMA	720	400	160	17
BAG <sup>3</sup> 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<sup>3</sup> and BAG<sup>3</sup> M are supplied as standard with limit thermostat for low temperature circuits.

Description	Notes	Code
VERSION FOR OUTDOOR IN-WALL INSTALLATION		
BAG <sup>3</sup> AP	(1)	20082277
BAG <sup>3</sup> 2 AP	(1)	20082280
BAG <sup>3</sup> 3 AP	(1)	20082282
BAG <sup>3</sup> MIX BASIC	(1)	20082286
BAG <sup>3</sup> MIX CLIMA	(1)	20082283
BAG <sup>3</sup> 2 MIX BASIC	(1)	20082288
BAG <sup>3</sup> 2 MIX CLIMA	(1)	20082284
BAG <sup>3</sup> MIX FAMILY COND	(2)	20102824
IN-WALL INSTALLATION BOX		20007305

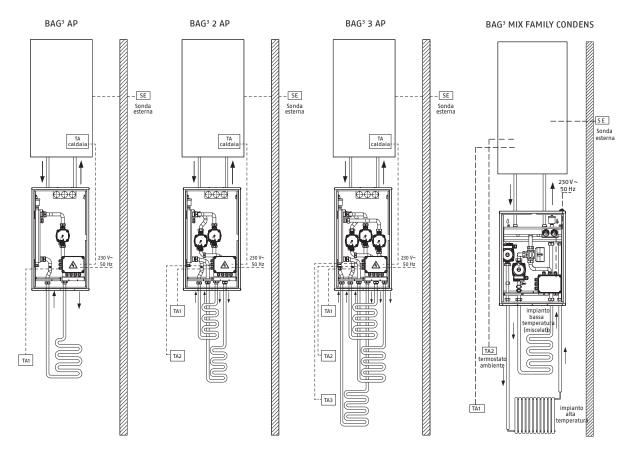
- Supplied without in-wall installation box
- Supplied with in-wall installation box

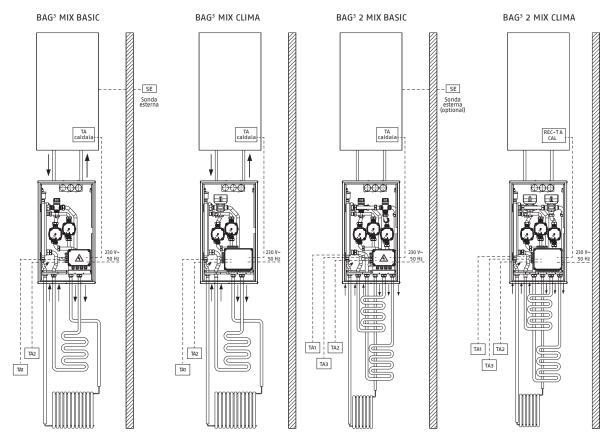


**ACCESSORIES** 

#### Description Notes Code Interface board ITRF11 (1) 20047522 Insulation kit for in-wall installation box 20085456

It is necessary in case of installation of BAG<sup>3</sup> MIX CLIMA (20082283 code) and BAG<sup>3</sup> 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** 

Ø

2019 EDITION

### METAL Ø80 mm TWIN FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material	Family Aqua Condens	Residence Condens	Start Condens	Start Aqua Condens	Start AR	Notes	Code
二 量	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
<b>_</b>	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)	4047366

<sup>(1)</sup> 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		ns				10		Notes	Code
		(*)		Family Aqua Condens		Residence Condens	10	Condens			
				\qua	e o	ce Co	nden	ua Co			
			Family	mily A	Residence	siden	Start Condens	Start Aqua	Start AR		
			Fa	Fa	Re	Re	St	Sti	St		
	Adjustable splitter device kit from Ø60/100 mm to Ø80/-80 mm	PP	•		•					(2)	20134830
<b>9</b>	Fixed twin system Ø80 mm kit	PP	•		•					(2)	20129765
	Splitter device kit B23 Ø80 mm for in-wall installation box	PP	•		•					(2)	20129768
	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

<sup>(\*)</sup> 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	Residence 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
	Rear flue terminal Ø60/100 mm	PP/Met			•	•		(1)(3)	20043073
	Ø60/100 mm inspection extension	PP/Met	•	•	•	•	•	(1)(3)	4047357
	90° bend with inspection door Ø60/100 mm	PP/Met	•	•	•	•	•	(1)(3)	4047358
	Flat roof tile	Nylon	•	•	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•	•	•		20132050

<sup>(\*)</sup> 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		SL						Notes	Code
		(*)		Conde		ndens	60	ndens			
				Aqua (	e o c	oo eou	nden	lua Co	~		
			Family	Family Aqua Condens	Residence	Residence Condens	Start Condens	Start Aqua Condens	Start AR		
$\bigcirc$	45° Ø60/100 mm concentric bend	PP/PP	•	•	•	•	•	•	•	(2)	20132012
	90° Ø60/100 mm lowered bend	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
CI DE	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
五	Flat roof tile	Nylon	•	•	•	•	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•	•	•	•	•		20132050

<sup>(\*)</sup> 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
Jidwilig	Description	(*)	Family (**)	Family Aqua Condens	Residence (**)	Residence Condens	Start Condens	Start Aqua Condens	Start AR	Notes	code
	45° Ø80/125 mm concentric bend	PP/Met	•	•	•	•	•	•	•	(2)	4047975
	87° Ø80/125 mm concentric bend	PP/Met	•	•	•	•	•	•	•	(2)	4047976
	Concentric extension 50 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	•	(2)	4047977
	Concentric extension 100 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	•	(2)	4047978
	Concentric extension 200 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	•	(2)	4047979
	87° concentric bend with inspection door Ø80/125 mm	PP/Met	•	•	•	•	•	•	•	(2)	4047980
	Concentric extension with inspection door Ø80/125 mm	PP/Met	•	•	•	•	•	•	•	(2)	4047981
	Ø80/125 mm vertical flue terminal	PP/Met	•	•	•	•	•	•	•	(2)	4047982
	Ø80/125 mm horizontal flue terminal	PP/Met	•	•	•	•	•	•	•	(2)	4047983
	Spacers Ø80-125 mm (5 pcs)	Met	•	•	•	•	•	•	•		4047984
	Flue adapter from Ø60/100 mm to 80/125 mm	PP/Met	•	•	•	•	•	•	•	(2)	4047349
	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

<sup>(\*)</sup> 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. 4047349) 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) Ø80 mm FLUE RANGE FOR INSIDE-CHIMNEY INSTALLATION, SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material		SL						Notes	Code
		(*)	Family	Family Aqua Condens	Residence	Residence Condens	Start Condens	Start Aqua Condens	Start AR		
	45° Ø80 mm bend	PP	•	•	•	•	•	•	•	(2)	4047951
	90° Ø80 mm bend	PP	•	•	•	•	•	•	•	(2)	4047952
	Extension 50 cm Ø80 mm	PP	•	•	•	•	•	•	•	(2)	4047953
T I	Extension 100 cm Ø80 mm	PP	•	•	•	•	•	•	•	(2)	4047954
T I	Extension 200 cm Ø80 mm	PP	•	•	•	•	•	•	•	(2)	4047955
	Ø80/125 mm chimney adapter	PP	•	•	•	•	•	•	•	(2)	20132520
	T connection Ø60 mm	PP	•	•	•	•	•	•	•	(2)	4047958
	Ø60/80 mm adapter	PP	•	•	•	•	•	•	•	(2)	4047959
	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)	4047971
귤	Condensate trap cap for T-connection Ø80 mm	PP	•	•	•	•	•	•	•	(1)	4047972
	Shelf support kit for condensate trap	Met	•	•	•	•	•	•	•		20145888

Drawing	Description	Material (*)	Family	Family Aqua Condens	Residence	Residence Condens	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
Diawing	Description	(*)	Family	Family Aqua Condens	Residence	Residence Condens	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)	1220169
	45° bend Ø80 mm with gasket (10 pcs)	Met	•	•	•	(1)	4047414
	90° bend Ø80 mm with gasket	Met	•	•	•	(1)	1220079
	90° bend Ø80 mm with gasket (10 pcs)	Met	•	•	•	(1)	4047416
	Ø80 mm extension 100 cm with gasket	Met	•	•	•	(1)	1220269
	Ø80 mm extension 100 cm with gasket (10 pcs)	Met	•	•	•	(1)	4047422
	Ø80 mm extension 50 cm with gasket	Met	•	•	•	(1)	1220149
	Ø80 mm extension 50 cm with gasket (10 pcs)	Met	•	•	•	(1)	4047420
	Ø80 mm extension 14,7 cm with gasket	Met	•	•	•	(1)	1220249
	Ø80 mm extension 14,7 cm with gasket (10 pcs)	Met	•	•	•	(1)	4047418
	Ø80 mm extension 195 cm with gasket	Met	•	•	•	(1)	1220229
	Ø80 mm extension 195 cm with gasket (6 pcs)	Met	•	•	•	(1)	4047424
	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 telescopic extension (from 165 to 230 mm)	Met	•	•	•	(2)	4047464



Drawing	Description	Material	Family	Start	Fastech	Notes	Code
	Ø80 mm pipes terminal	Met	•	•	•	(1)	4047575
	Ø80 mm inspection extension	Met	•	•	•	(1)	4047345
	90° bend with inspection door Ø80 mm (Slovenia)	Met	•	•	•	(1)	4047348

(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

WATER-HEATERS



**RIELLO** 

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

Drawing	Description	Material				Notes	Code
Diawing	Description	Material	Family	Start	Fastech	Notes	code
	Ø60-100 mm vertical flue terminal - Ø125 mm external straight pipe	Met/Met	•	•	•	(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)	4047465
	Ø60-100 mm 90° bend with inspection door	Met/Met	•	•	•	(1)	4047346
	Connection clip kit boiler-flue Ø60-100 mm		•	•	•		1220279
	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





### 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
MI []_M	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>
GAS FLOOR-STANDING BOILERS	77

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**OIL FLOOR-STANDING BOILERS** 

## GAS FLOOR-STANDING BOILERS



### STANDARD EFFICIENCY

### ONLY EXTRA EU\*

ONLY HEATNG



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)

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<sup>\*</sup> 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.



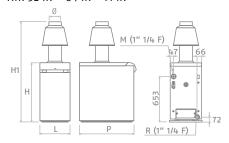


Atmospheric gas floor-standing boilers



ATR 44 IN M (1" 1/4 F) R (1" 1/4 F)

ATR 52 IN - 64 IN - 71 IN



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

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

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
LPG gas valve kit		4047669
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.

### **GROUP COMPOSITION**

PRODUCT CATALOGUE

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	

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

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### **OIL FLOOR-STANDING BOILERS**



### CONDENSING STANDARD EFFICIENCY STEEL STEEL **CAST IRON** GITRE' INSIEME CONDENS INSIEME EVOe LN INSIEME CONDENS 26 B (25 kW) INSIEME CONDENS 35 B (33,2 kW) INSIEME CONDENS 45 B (43,3 kW) GITRE' 4 LN (25,0 KW) GITRE' 5 LN (32,0 KW) GITRE' 6 LN (40,0 KW) INSIEME EVOe 25 LN (26,5 kW)\* INSIEME EVOe 32 V LN INSIEME CONDENS 55 B (53,1 kW)\* (33,9 kW)\* page 87 page 82 page 84 INSIEME EVOe LN INSTANTANEOUS INSIEME EVOE 25 K LN (26,5 KW)\* INSIEME EVOE 32 K LN HEATING AND DHW PRODUCTION CONVENTIONAL FLUE (33,9 KW)\* page 84 INSIEME EVOe LN 70 LITERS STORAGE TANK INSIEME EVOE 25 B/70 LN (26,5 KW)\* page 84 INSIEME CONDENS INSIEME EVOe LN GITRE' 100-120 LITERS STORAGE TANK INSIEME EVOE 32 B/110 LN (33,9 KW)\* INSIEME CONDENS 26 BK GITRE' 5 B/100 LN (32 KW) (25 kW) INSIEME CONDENS 35 BK (33,3 kW)

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<sup>\*</sup> All versions can be transformed into a sealed chamber version with a dedicated accessory kit.

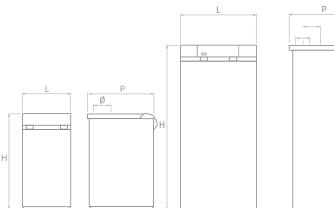
WATER-HEATERS

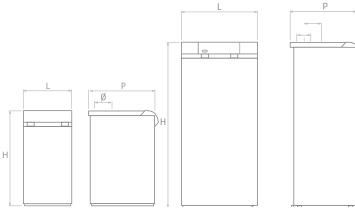
Oil floor-standing condensing boilers

## **Insieme Condens**

INSIEME CONDENS 26-35-45-55 B

INSIEME CONDENS 26-35 BK





- In conformity with Directive 2009/125/EC
- 6 models, from 26 to 55 kW, Low NOx combustion (class 5 B version)
- · Conventional flue/room-sealed through special kit
- Heating-only and combi versions
- High efficiency up to 101,4%

Description	H mm	L mm	P mm	ø mm	Net weight kg
INSIEME CONDENS 26 B	1025	600	865	80	120
INSIEME CONDENS 35 B	1025	600	865	80	120
INSIEME CONDENS 45 B	1025	600	1120	80	152
INSIEME CONDENS 55 B	1650	600	1015	80	20
INSIEME CONDENS 26 BK	1650	600	1015	80	20
INSIEME CONDENS 35 BK	1025	600	865	80	120

The simple and essential design of Insieme Condens fits perfectly into any setting. The acoustic level is extremely low thanks to the insulation of the heating unit. The wide heat-exchange area and the combustion quality ensure high efficiency. The combi versions are provided with a built-in enamelled steel tank with magnesium anode, with a DHW capacity of 120 liters, suitable for the needs of a medium-sized family. The energy consumption is reduced thanks to the less frequent burner ignitions.

- Heating unit plus post heat exchanger made in AISI 904L stainless steel
- Low NOx oil burner (B model)
- Efficiency 101,4% at 50/30 °C
- User-friendly control board
- Possible connection to a thermoregulation kit
- BK versions: heating + DHW production thanks to an integrated 120-liters enamelled steel storage tank
- B versions: heating-only.

### **TECHNICAL DATA**

Description	Output kW	Input kW	Efficiency Pn max (80°-60°)%	Efficiency Pn max (50°-30°)%	Efficiency 30% Pn	DHW tank capacity liters	cla	fficiency ass	Code
			(00 00 7/0	(30 30 7/0		Heers		ر	
HEATING-ONLY	·								
INSIEME CONDENS 26 B	25	26	96,1	101,2	101,5	-	В		20039620
INSIEME CONDENS 35 B	33,3	34,5	96,5	101,4	100,8	-	В		20039590
INSIEME CONDENS 45 B	43,3	45	96,3	100,8	101,4	-	А		20041527
INSIEME CONDENS 55 B	53,1	55,0	96,5	101,2	101,1	-	Α		20041528
HEATING + DHW PRODUCTION									
INSIEME CONDENS 26 BK	25	26	96,1	101,2	101,5	120	В	В	20101198
INSIEME CONDENS 35 BK	33,3	34,5	96,5	101,4	100,8	120	В	В	20101197

### **ACCESSORIES**

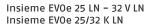
Description	Code
ELECTRICAL ACCESSORIES	
Additional direct zone	20103747
Electrical multi-zone kit	4047691
RVS 43 thermostat Insieme Condens	20042215
FLUES AND INTAKE AIR	
Room-sealed 80/125 flue kit Insieme Condens 26-35	20042213
Room-sealed 80/125 flue kit Insieme Condens 45-55	20042214
Room-sealed 80/80 flue kit Insieme Condens 26-35	20042211
Room-sealed 80/80 flue kit Insieme Condens 45-55	20042212
HYDRAULIC ACCESSORIES	
18I expansion vessel for Insieme Condens	20041976
Expansion vessel	4031915
Flow collector	20012806
SAFETY ACCESSORIES	
Global shutoff kit	4047318
Safety valve 3 bar	20042167

### **RIELLO**

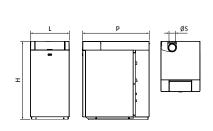
Steel floor-standing boilers

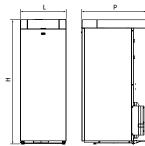
## **Insieme EV0e**















- In conformity with Directive 2009/125/EC
- Steel boilers with light oil burner for heating and for the production of domestic hot water
- Low N0x version class 3 according to EN 267

Description	Н	L	P	ØΑ	ØS	Net
	mm	mm	mm	mm	mm	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 EVOe 32 K LN	900	600	760	80	120	138
Insieme EV0e 25 B/70 LN	1355	500	735	80	80	155
Insieme EVOe 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 emission
- 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.

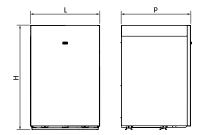


### **TECHNICAL DATA**

Description		put W		% production capaci	Tank capacity	Energy efficiency class		Notes	Code	
	Useful 80°/60° max	Furnace min-max	Pn (80/60 °C) %	Useful 30% Pn (37°C) %	I/min	liters		ر		
LOW NOX VERSION - ONLY HE	ATING									
Insieme EV0e 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 P	RODUCTION					
Insieme EV0e 25 K LN	25,3	26,5	95,4	96,6	9,4	-	В	В	(1)	20118244
Insieme EV0e 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 EV0e 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

<sup>(1)</sup> Domestic hot water production with reference to  $\Delta T$  35 °C

### **ACCESSORIES**



Description	H	L	P	Net weight
	mm	mm	mm	kg
Storage cylinder 120 Lt	900	600	600	68

### **TECHNICAL DATA**

Description	Capacity liters	Maximum power consumption kW	DHW production I/h	Energy efficiency class	Code
Storage cylinder 120 Lt	120,0	29,8	730	С	20132804
Hydraulic connection to the storage cylinder					20132805

### **ACCESSORIES**

**RIELLO** 

Description	Code
COMBUSTION ACCESSORIES	
Oil filter	20132792
Type C MOD 25 conversion	20132799
Type C MOD 32 conversion	20132800
ELECTRICAL ACCESSORIES	
External probe	1220489
Domestic hot water probe	1220599
FLUES AND INTAKE AIR	
Spacer ring/support for Ø125 pipes	4047984
Bend 45° Ø80	1221059
Bend 90° with inspection Ø80	4047366
Bend 90° Ø80	1221049
Extension 1000 mm Ø80	1221029
Extension 2000 mm Ø80	1221039
Extension 500 mm Ø80	1221019
Horizontal terminal Ø80	1221009
Manifold with inspection Ø80	1221079
HYDRAULIC ACCESSORIES	
Storage cylinder 120 Lt	20132804
Hydraulic connection to the storage cylinder	20132805
First zone management kit (MIX or DIR zone)	20132795
Additional zone management kit (MIX or DIR zone)	20132796
Hydraulic separator	20132798
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113

### 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 room control with Wi-Fi box	(1)	20117394
mma	RiCLOUD room control	(2)	20117399
# The 958 m V	Wi-Fi box		20111885
	Boiler RF-Wireless receiver		20117359

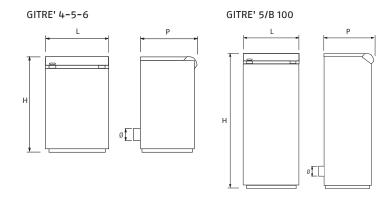
- Possibility of ON/OFF connection
  With Wi-Fi box included for the connection to the home ADSL Wi-Fi Internet modem
  For cable connection to the boiler. Compatible for radio frequency connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using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

KIELU

### Cast iron floor-standing 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
GITRE' 4 LN	850	450	800	130	182
GITRE' 5 LN	850	450	900	130	214
GITRE' 6 LN	850	450	1000	130	248
GITRE' 5 B/100 LN	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. GITRE' 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 - Gitrè 5 - Gitrè 6: cast iron oil floor standing boilers for space heating and DHW production, if combined with a storage tank. 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	Output 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
HEATING-ONLY									
GITRE' 4 LN	25,3	26,7	94,8%	96,9%	-	-	В	-	20123945
GITRE' 5 LN	32,1	33,8	95,2%	96,1%	-	-	В	-	20123946
GITRE' 6 LN	39,8	42,2	94,5%	95,6%	-	-	В	-	20123948
HEATING AND DHW PRODUCTION WITH TANK									
GITRE' 5 B/100 LN	32,1	33,8	95,2%	96,1%	10,2	100	В	В	20123949

### ACCESSORIES

Description	Code
ELECTRICAL ACCESSORIES	
Electrical multi-zone kit	4047691



**HEAT PUMPS** 

WATER-HEATERS	
GAS INSTANTANEOUS	91
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## **GAS INSTANTANEOUS**



	INDOOR		OUTDOOR	
CONVENTIONAL FLUE		ACQUAFUN <sup>2</sup> LN  ACQUAFUN <sup>2</sup> 11 (19,4 kW-11 I/min)*  ACQUAFUN <sup>2</sup> 14 (24,4 kW-14 I/min)*		
CONVENT		NEW page 92		
	t ego.	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)*		
	- (tr) -	NEW		
ROOM-SEALED		page 93		
-M00				RIELLO MINI EVO EXT LN
RC				RIELLO MINI 11 EVO EXT LN (19,9 kW-11 I/min)* RIELLO MINI 11 EVO EXT LN (22,5 kW-13 I/min)* RIELLO MINI 17 EVO EXT LN (27,6 kW-17 I/min)*
			** (U) -	NEW page 95

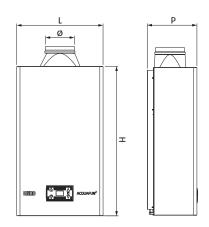
<sup>\*</sup> DHW production with  $\Delta T = 25$  °C

Conventional flue low NOx instantaneous gas water heater

# Acquafun<sup>2</sup> LN











- Natural gas and LPG
- Room-sealed
- Automatic battery-powered ignition
- Reduced N0x emissions

Description	H mm	L mm	P mm	ø mm	Net weight kg
ACQUAFUN <sup>2</sup> 11 LN	675	350	230	110	12
ACQUAFUN <sup>2</sup> 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**

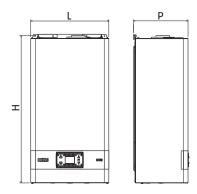
Description	Useful output furnace kW	DHW flow rate I/min.	Fuel	Energy efficiency class	Code		
VERSION WITH ROOM-SEALED WITH NATURAL DRAFT - AUTOMATIC BATTERY IGNITION							
ACQUAFUN <sup>2</sup> 11 LN	19,4-22,0	11,0	NG	А	20149827		
ACQUAFUN <sup>2</sup> 11 LN	18,3-21,0	11,0	LPG	Α	20149831		
ACQUAFUN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

Room sealed low NOx instantaneous gas water heater

## **RIELLO MINI LN**











- Natural gas and LPG
- Conventional flue
- Electronic ignition
- Reduced NOx 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	Α	(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	А	(1)(2)	20143050
RIELLO MINI 17 LN	27,6-30,0	17,0	NG	Α	(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**

**RIELLO** 

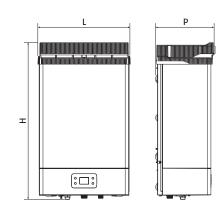
Description	Code
ELECTRICAL ACCESSORIES	
Anti-freeze resistors kit	20148036
HYDRAULIC ACCESSORIES	
Water connection with tap	4047624

94 2019 EDITION Outdoor room sealed low NOx instantaneous gas water heater

## **RIELLO MINI EVO EXT LN**

NEW









- 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 I/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	A	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 OPTIONS**



2019 EDITION

**RIELLO** 

**TERMINAL UNITS** 

# TWIN FLUE GAS EXHAUST SYSTEM $\emptyset 80~\text{mm}$ 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
<b>6.</b> 6	Twin system connection kit	Met	(1)(3)	20049145
<b>© \$</b>	Twin system connection kit	Met	(1)(4)	20074545
	Bend 45° Ø80 with gasket	Met	(1)	1220169
	Bend 45° with gasket (10 pieces)	Met	(1)	4047414
	Bend 90° with gasket	Met	(1)	1220079
	Bend 90° with gasket (10 pieces)	Met	(1)	4047416
	Extension 100 cm with gasket	Met	(1)	1220269
	Extension 100 cm with gasket (10 pieces)	Met	(1)	4047422
	Extension 50 cm with gasket	Met	(1)	1220149
	Extension 50 cm with gasket (10 pieces)	Met	(1)	4047420
	Extension 14.7 cm with gasket	Met	(1)	4047636
	Extension 14.7 cm with gasket (10 pieces)	Met	(1)	4047418
	Extension 195 cm with gasket	Met	(1)	1220229
	Extension 195 cm with gasket (6 pieces)	Met	(1)	4047424
	Adaptor for Ø80 mm flue gas exhaust with air protection flange	Met	(1)	4047825
	Type B22 flue gas exhaust kit for open air installation	Met	(1)	4047268
	Air suction terminal	Met	(1)	1220109
	Flue gas exhaust terminal	Met	(1)	1220119
<b>\$</b>	Spacer ring/support for Ø80 pipes (4 pieces)			20137532
	Horizontal condensation collection kit	Met		1220039
	Vertical condensation collection kit	Met		1220049
	Telescopic manifold Ø80 mm (from 165 to 230 mm)	Met	(2)	4047464

Drawing	Description	Material	Notes	Code
	Terminal for Ø80 mm pipes	Met	(1)	4047575
	Combustion analysis sockets kit for twin pipes	_		4047426
	Manifold Ø80 mm with inspection	Met	(1)	4047345
	Bend 90° Ø80 mm with inspection	Met	(1)	4047348

(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

**RIELLO** 

**TERMINAL UNITS** 

### 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
Ħ.	Vertical discharge kit	Met/Met	(1)	4047533
	Coaxial discharge terminal kit	Met/Met	(1)	4047541
	Telescopic coaxial discharge terminal kit (from 430 to 735 mm)	Met/Met	(1)	4047404
8	Coaxial extension (75 cm)	Met/Met	(1)	4047523
8	Double coaxial extension (147 cm)	Met/Met	(1)	4047400
	Coaxial bend 90°	Met/Met	(1)	4047527
	Coaxial bend 45°	Met/Met	(1)	4047570
Д	Tile for flat roof	Nylon		20135579
	Universal lead tile	Nylon		20132050
	Vertical coaxial condensation collection kit	Met/Met		4047406
	Horizontal coaxial condensation collection kit	Met/Met		4047766
	Clamps kit H 45 mm with gasket Ø100 mm (4 pieces)			4047410
<b></b> -	Spacer ring/support for Ø100 pipes (10 pieces)			20135584
	Telescopic manifold 60-100 mm (from 165 to 220 mm)	Met/Met	(1)	4047465
	Combustion analysis sockets kit			4047408
	Bend 90° Ø60 -100 mm with inspection	Met/Met	(1)	4047346
60	Bend adaptor kit Ø60-100 mm (for replacing Mini 11 and 13 with rear flue gas exhaust)	Met/Met	(1)	20122792
(a) Da	Laccording to FN 1/1/3			

(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	105
SOLAR COLLECTORS	113
SOLAR CYLINDERS AND PUFFERS	125
COMPLEMENTARY ITEMS	147

## **SOLAR SYSTEMS**



### SYSTEMS FOR DHW PRODUCTION

### FORCED CIRCULATION

### 2 FITTINGS

## RPS 25/2 EVO SYSTEM



200 liters 300 liters 430 liters 550 liters

page 106



FLAT PLATE SOLAR COLLECTOR

CSAL 25 RN SYSTEM

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

page 108

### NATURAL CIRCULATION

### 4 FITTINGS



CSNA 20 RS SYSTEM

150 liters 200 liters 220 liters 300 liters

page 111

**TERMINAL UNITS** 

Systems for DHW production - Forced circulation

## RPS 25/2 EVO System





• Domestic hot water production

Complete and integrated solution for domestic hot water production including all necessary elements to realize a solar system. The system is designed for a simple, fast and secure installation and consists of:

- High efficiency solar collectors RPS 25/2 EVO thanks to the selective absorber TiNOx Energy Al and an excellent insulation of 40 mm with reflective aluminum layer; the aluminum frame is painted.
- Riello RBS 2S Ready-i double coil solar cylinder, with high energy performance (class B) and internal glazed enamel treatment (vitrification) to ensure hygiene and to facilitate cleaning. The cylinder is provided with PWM circulator, safety devices, non return valve, thermometers, pressure gauge and EVOSOL pump station; the product is already mounted, wired and tested.
- Expansion vessel, designed for high temperatures.
- Antifreeze, non-toxic, biodegradable and biocompatible liquid.
- ¾" thermostatic mixer, to optimize the system.
- 5 year warranty on collectors and cylinder.
- 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	Solar co	Solar collectors	quantity vesse	Expansion		Solar cylinder				Notes	Code
	Number	Gross area m²		vessel liters		Capacity liters	H mm	ø mm	Energy efficiency class		
RPS 25/2 EVO 200	1	2,3	10	18	2 - 3	208	1338	604	В	(1)	20134807
RPS 25/2 EVO 300	2	4,6	10	18	4 - 5	301	1838	604	В	(1)	20134808
RPS 25/2 EVO 430	3	6,9	15	24	6 - 7	442	1644	755	В		20139716
RPS 25/2 EVO 550	4	9,2	15	35	8 - 9	551	1988	755	В		20139717

(1) Components provided in a single pallet.

All the solar systems are complete with: solar collectors, double-coil solar cylinder with all the solar accessories and differential controller EVOSOL, glycol, expansion vessel, thermostatic mixing valve.

ittings kit to be welded (contains: 2 fittings to be welded to connect to the collectors RPS 25/2 EVO,	1)	20026577
ittings kit to be welded (contains: 2 fittings to be welded to connect to the collectors RPS 25/2 EVO,		
SAL 25 RN and 2 fittings for connection to RSS pump station or directly to the solar cylinder)		20132142
ittings kit for stainless steel pipe (contains: 2 fittings to connect to the collectors RPS 25/2 EVO,		20132143
SAL 25 RN and 2 fittings to connect to RSS pump station or directly to the solar cylinder)		
lexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow nd return, solar probe cable and suitable insulation for solar applications)		4383254
lexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow		
nd return, solar probe cable and suitable insulation for solar applications)		4383255
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
rackets kit for 1 collector in //		20104603
rackets kit for 2 collectors in //		20104604
rackets kit for 3 collectors in //		20104605
rackets kit for 4 collectors in //		20104606
NSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
rackets kit for 1 collector at 30° for flat roof		20104616
rackets kit for 2 collectors at 30° for flat roof		20104618
rackets kit for 3 collectors at 30° for flat roof		20104619
rackets kit for 4 collectors at 30° for flat roof		20104621
NSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
rackets 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
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
ndertile brackets kit for 1 collector		20104630
ndertile brackets kit for 2 collectors		20104632
ndertile brackets kit for 3 collectors		20104634
ndertile brackets kit for 4 collectors		20104635
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
ndertile adjustable brackets kit for 1 collector		20104638
ndertile adjustable brackets kit for 2 collectors		20104640
ndertile adjustable brackets kit for 3 collectors		20104642
ndertile adjustable brackets kit for 4 collectors		20104643
NSET 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
nset kit for 4 collectors		20148404

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

**TERMINAL UNITS** 



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	Solar collectors		Glycol Expansion quantity vessel		Number Solar cy of people			r cylinder		Notes	Code	
	Number	Gross area m²	Absorber area m²	kg	liters		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
CSAL 25 R 430 N REG	3	7,29	6,45	15	24	6 - 7	442	1644	755	В		20131990
CSAL 25 R 550 N REG	4	9,72	8,60	15	35	8 - 9	551	1988	755	В		20131991
CSAL 25 R 800 N REG	5	11,5	10,75	20	50	10 - 11	731	1846	1000	В	(2)	20131992
CSAL 25 R 1000 N REG	6	14,58	12,9	20	50	12 - 13	883	2171	1000	В	(2)	20131993

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

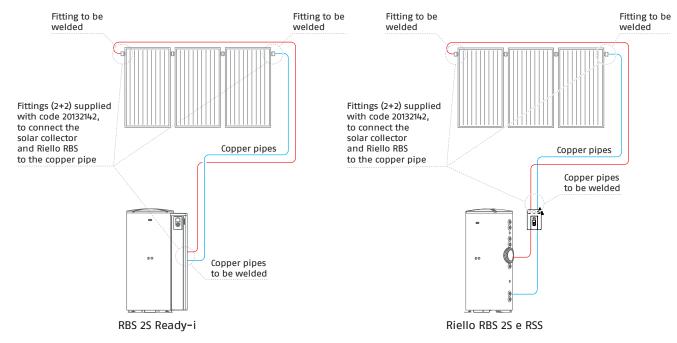
Components provided in a single pallet.
Cylinder supplied with disassembled insulation.

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded (contains: 2 fittings to be welded to connect to the collectors RPS 25/2 EVO, CSAL 25 RN and 2 fittings for connection to RSS pump station or directly to the solar cylinder)		20132142
Fittings kit for stainless steel pipe (contains: 2 fittings to connect to the collectors RPS 25/2 EVO, CSAL 25 RN and 2 fittings to connect to RSS pump station or directly to the solar cylinder)		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
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
rackets kit for 3 collectors at 30° for flat roof		20104619
rackets kit for 4 collectors at 30° for flat roof		20104621
rackets kit for 5 collectors at 30° for flat roof		20104622
rackets kit for 6 collectors at 30° for flat roof		20104623
NSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
rackets 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
rackets kit for 5 collectors at 45° for flat roof		20104628
rackets kit for 6 collectors at 45° for flat roof		20104629
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
ndertile brackets kit for 1 collector		20104630
ndertile brackets kit for 2 collectors		20104632
ndertile brackets kit for 3 collectors		20104634
ndertile brackets kit for 4 collectors		20104635
ndertile brackets kit for 5 collectors		20104636
ndertile brackets kit for 6 collectors		20104637
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
ndertile adjustable brackets kit for 1 collector		20104638
ndertile adjustable brackets kit for 2 collectors		20104640
ndertile adjustable brackets kit for 3 collectors		20104642
ndertile adjustable brackets kit for 4 collectors		20104643
Indertile adjustable brackets kit for 5 collectors		20104644
ndertile adjustable brackets kit for 6 collectors		20104645

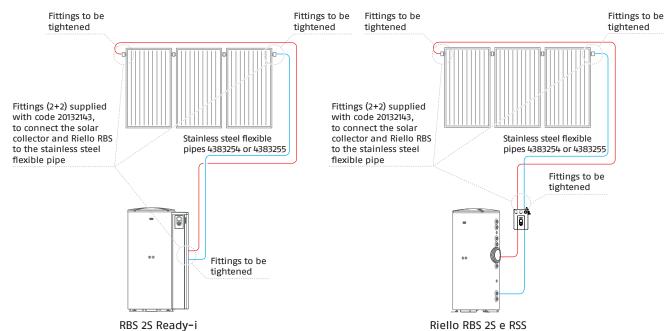
<sup>(1)</sup> Optional component, to be installed at the highest point in the solar loop.

#### **SOLAR SYSTEMS CONNECTION DIAGRAMS**

#### DN22 copper pipes connections



#### DN16 stainless steel pipes connections



NOTE: stainless steel tube recommended up to 4 collectors.

TI-HUNG

FLOOR-STANDING

WATER-HEATERS

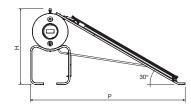
SULAK IHEKMAL AND CYLINDERS

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	H	L	P	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	ollectors	Glicol	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

<sup>(1)</sup> Equipped with brackets for sloping roof

<sup>(2)</sup> Equipped with brackets for flat roof, tilt 30°

**RIELLO** 

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 153.

# ÷;;÷

# **SOLAR COLLECTORS**

		VERTICAL						HORIZONTAL	
			2 FIT	TINGS		4	FITTINGS	4 FIT	TINGS
		RI	PS 25/2 EV0						
	2ر	1 p	ockages: oc - 5 pcs						
	SURFACE 2,30 m <sup>2</sup>	pa	ge 114						
	FACE			1111111111	CSAL 25 RS	i	RPS 25/4		RPS 25/4
FLAT PLATE	SUF				Packages: 1 pc 2 - 3 - 5 pcs	//	Packages: 1 pc 2 - 5 pcs		Packages: 1 pc 2 - 5 pcs
ш.					page 118		page 115		page 115
	π2					1	CSAL 20 RS		
	SURFACE 1,91 m²						Packages: 1 pc 2 - 3 - 7 pcs		
	SUF						page 120		
		Munum	CSV 25 R						
	SURFACE 2,77 m²		Packages: 1 pc 5 pcs						
VACUUM TUBES	SUR		page 122						
CUUM	п²	WWW.III	CSV 35 R						
VAC	SURFACE 3,91 m <sup>2</sup>		Packages: 1 pc 5 pcs						
	S		page 122						

<sup>\*</sup> Surface 2,57 m<sup>2</sup>

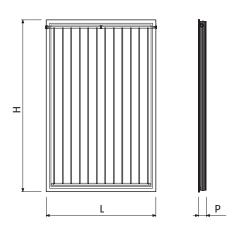
**TERMINAL UNITS** 

# RIELLO

Solar collectors - Forced circulation

# **RPS 25/2 EVO**







- Flat plate solar collectors for vertical installation (2,3 m<sup>2</sup>)
- Aluminium painted frame
- Aluminium absorber with high selective coating (TiN0x Energy AI)
- 2 fittings
- · Protection film as standard

Description	L mm	H mm	P mm	Net weight kg
RPS 25/2 EVO	1195	2004	86	41,5
2 collectors RPS 25/2 EVO	1195	2004	86	83,0
5 collectors RPS 25/2 EVO	1195	2004	86	207,5

RPS 25/2 EVO is the flat plate solar collector dedicated to high efficiency vertical 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 reduces its emission to 4%. On the plate are welded harp-shaped pipes through which the heat-transfer fluid runs. The high-transparency solar glass, with SEMI-SAND treatment, has a double anti-reflective layer that guarantees a transmissivity of 96%.

The glass, along with the fiberglass insulation, that is 40 mm thickness with a reflective aluminum layer, guarantee high performance even in case of bad weather conditions.

. The solar collector is provided with 2 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.

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	collectors	Absorber data			Stagnation	Notes	Code
	Gross area m²	Absorber area m²	<b>ŋ</b> 0	a1 W/m²k	a2 W/m²k²	- temperature °C		
RPS 25/2 EVO	2,30	2,15	0,821	4,41	0,0060	198	(1)	20127134
2 collectors RPS 25/2 EVO	4,60	4,30	0,821	4,41	0,0060	198	(2)	20140506
5 collectors RPS 25/2 EVO	11,50	10,75	0,821	4,41	0,0060	198	(2)	20140508

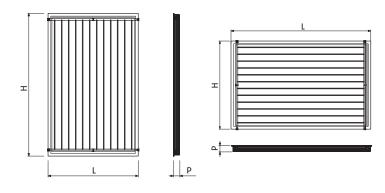
n0 = optical efficiency

- a1, a2 = heat loss coefficients.
- One single collector in one package. Collectors supplied in pallet of 2 or 5 pcs.

Solar collectors - Forced circulation

# **RPS 25/4**







- Flat plate solar collectors both for vertical and horizontal installation (2,3 m<sup>2</sup>)
- Aluminium frame
- Aluminium absorber with high selective coating (TiNOx 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 heattransfer 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  $4 \times 1$ " 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 collectors			Absorber data	3	Stagnation temperature	Notes	Code
	Gross area m²	Absorber area m²	η0	a1 W/m²k	a2 W/m²k²	°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

# ACCESSORIES FOR VERTICAL INSTALLATION, DESIGNED FOR RPS 25/2 EVO AND RPS 25/4

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded (contains: 2 fittings to be welded to connect to the collectors RPS 25/2 EVO, RPS 25/4, CSAL 20 RS, CSAL 25 RS and 2 fittings for connection to RSS pump station or directly to the solar cylinder)		20132142
Fittings kit for stainless steel pipe (contains: 2 fittings to connect to the collectors RPS 25/2 EVO, RPS 25/4, CSAL 20 RS, CSAL 25 RS and 2 fittings to connect to RSS pump station or directly to the solar cylinder)		20132143
Terminal fittings kit for RPS 25/4 and CSAL 20 RS collectors		20094627
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow	,	4383254
and 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
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
INSET INSTALLATION FOR VENTILATED ROOFS (MINIMUM 20° SLOPE)		
Inset kit for 1 collector		20145347
Inset kit for 2 collectors		20145351
Inset kit for 3 collectors		20148401
Inset kit for 4 collectors	+	20148404
Inset kit for 5 collectors	+	20149352
	+	20149353

<sup>(1)</sup> Optional component, to be installed at the highest point in the solar loop Other available accessories at page 153.

# ACCESSORIES FOR HORIZONTAL INSTALLATION, DESIGNED FOR RPS 25/4

PRODUCT CATALOGUE

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132221
Fittings kit for stainless steel pipe		20132222
Terminal fittings kit for RPS 25/4 and CSAL 20 RS collectors	(2)	20094627
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
INSTALLATION 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
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
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
PARALLEL INSTALLATION 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
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)	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

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

<sup>(3)</sup> THE DIALKELS KILLHICHUGE:

- "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;

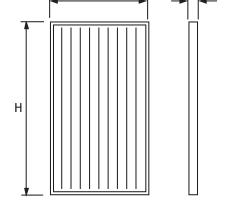
- flexible connections between collectors.

Other available accessories at page 153.

Solar collectors - Forced circulation

# CSAL 25 RS





25

- Flat plate solar collectors for vertical installation (2,5 m<sup>2</sup>)
- 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 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	Solar collectors		Absorber data			Notes	Code
	Gross area m²	Absorber area m²	η0	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.

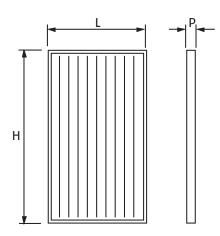
Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded (contains: 2 fittings to be welded to connect to the collectors RPS 25/2 EVO, RPS 25/4, CSAL 20 RS, CSAL 25 RS and 2 fittings for connection to RSS pump station or directly to the solar cylinder)		20132142
Fittings kit for stainless steel pipe (contains: 2 fittings to connect to the collectors RPS 25/2 EVO, RPS 25/4, CSAL 20 RS, CSAL 25 RS and 2 fittings to connect to RSS pump station or directly to the solar cylinder)		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 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

<sup>(1)</sup> Optional component, to be installed at the highest point in the solar loop. Other available accessories at page 153.

Solar collectors - Forced circulation

# CSAL 20 RS







- Flat plate solar collectors for vertical installation (2 m<sup>2</sup>)
- 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 Al, 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 c	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.

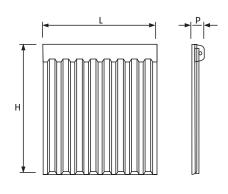
Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded (contains: 2 fittings to be welded to connect to the collectors RPS 25/2 EVO, RPS 25/4, CSAL 20 RS, CSAL 25 RS and 2 fittings for connection to RSS pump station or directly to the solar cylinder)		20132142
Fittings kit for stainless steel pipe (contains: 2 fittings to connect to the collectors RPS 25/2 EVO, RPS 25/4, CSAL 20 RS, CSAL 25 RS and 2 fittings to connect to RSS pump station or directly to the solar cylinder)		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		
Jndertile brackets kit for 1 collector		20104685
Indertile brackets kit for 2 collectors		20104686
Jndertile brackets kit for 3 collectors		20104687
Indertile brackets kit for 4 collectors		20104688
Indertile brackets kit for 5 collectors		20104690
Indertile brackets kit for 6 collectors		20104691
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTDTABLE BRACKETS		
Indertile adjustable brackets kit for 1 collector		20104692
Jndertile 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
Indertile adjustable brackets kit for 6 collectors		20104697

<sup>(1)</sup> Optional component, to be installed at the highest point in the solar loop Other available accessories at page 153.

Solar collectors - Forced circulation

# **CSV R**







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

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 c	Solar collectors Absorber data			Solar collectors Absorber data		Maximum temperature	Notes	Code
	Gross area m²	Absorber area m²	η0	a1 W/m²k	a2 W/m²k²	°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	

- One single solar collector in one package.
- Pallet of 5 pcs of solar collectors.

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

<sup>(1)</sup> 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 153.

2019 EDITION

# **SOLAR CYLINDERS AND PUFFERS**



# **HEAT -EXCHANGERS (COILS)**

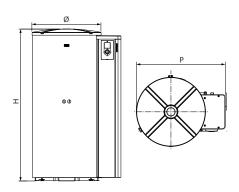
	0 COI	L	1 COI	LS	2 COI	LS	3 COI	LS	FLAN	GES*
				RIELLO RBC 1S 150-200-300 430-550-800 1000 liters		RIELLO RBS 2S Ready-i 200-300-430 550 liters				RIELLO 7200/3F HV PLUS 800-1000-1500 2000-3000 liters
				page 133		page 126				page 131
DHW SOLAR CYLINDER			3	RIELLO 7200 HP 300-500 800 liters		RIELLO RBS 2S 200-300-430-550 800-1000 liters				
DHW S				page 137		page 129				
			•	RIELLO 7200 V PRIME 200-300-430 550-800 1000 liters	The day of	RIELLO 7200/2 HV PLUS 1500-2000 liters				
				page 135		page 131				
COMBINED STORAGE TANK			·	RIELLO 7200 KOMBI PLUS 550-800 1000 liters			· .	RIELLO 7200 KOMBISOLAR <sup>35</sup> 430-550-750 1000 liters		
ST				page 141				page 139		
PUFFER			, , ,	RIELLO 7000/S 1000-1500 liters					• • •	RIELLO 7000/F* 2000-3000 5000 liters
				page 143						page 143
	0 •	RIELLO 7000 ACI PLUS								
HOT/COLD PUFFER	· ·	60-120-200-300 400-500-800 1000-1500 2000 liters								
		page 145								
ER	0 •	RIELLO 7000 ACI PLUS C								
COLD PUFFER	000	800 - 1000-1500 2000 liters								
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 $<sup>\</sup>mbox{*}$  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
- (\*) Dimensions with in: (\*\*) Insulation thikness

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)

<sup>(1)</sup> According to DIN 4708 with  $\Delta T {=} 20~^{\circ}\text{C}$  (80/60  $^{\circ}\text{C})$  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

## **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

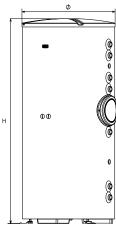
#### **PARALLEL INSTALLATION ACCESSORIES**

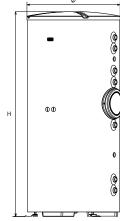
Description	Code
2 cylinders connection kit (models 200–300 liters)	20120542
2 cylinders connection kit (models 430-550 liters)	20120543

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

# **Riello RBS 2S**







- 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 GENERAL DATA**

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class <u>≅</u>	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

(1) Insulation to be assembled.

## **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)

<sup>(1)</sup> According to DIN 4708 with  $\Delta T {=} 20~^{\circ}\text{C}$  (80/60  $^{\circ}\text{C})$  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

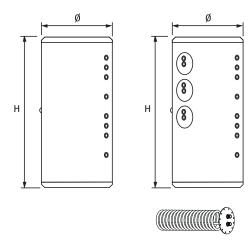
#### **ACCESSORIES**

Description	Code
Electric anode with plug	20055206
Curve for electronic anode kit	20123851
Handles kit (for 200–300 models)	20123854
Handles kit (for 430-550 models)	20123855
Handles kit (for 800-1000 models)	20128277
Thermometer kit	20123850
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
Single-phase electrical resistance 1,5 kW (for 800-1000 models)	20131666
Single-phase electrical resistance 2,2 kW (for 800-1000 models)	20131667
Single-phase electrical resistance 3,0 kW (for 800-1000 models)	20131669
Three-phase electrical resistance 3,8 kW (for 800-1000 models)	20131670

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

Flanged and double-coil DHW cylinders

# Riello 7200/3F HV Plus Riello 7200/2 HV Plus



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

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



- Flanged and double-coil DHW cylinders
- Domestic hot water Production

**ERP** 

 Heat exchanger coil kit for Riello 7200/3F to be ordered separately according to the capacity

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 GENERAL DATA**

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

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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 temperature °C	Max operation pressure bar	Notes
Riello 7200/2 - 1500 HV PLUS	10,4	1,8	1200	47	110	10	(1)
Riello 7200/2 - 2000 HV PLUS	16,9	2,8	1800	73	110	10	(1)

<sup>(1)</sup> 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	DHW production I/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
Riello 7200/2 - 1500 HV PLUS	19,4	3,4	2200	88	110	10	(1)
Riello 7200/2 - 2000 HV PLUS	28,1	4,5	2900	120	110	10	(1)

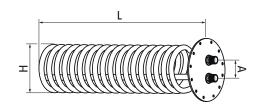
<sup>(1)</sup> According to DIN 4708 with  $\Delta T$ =20 °C (80/60 °C) on exchanger

#### **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 mm	H mm	A mm	Net weight kg
Tin coated copper coil kit 2,63 m <sup>2</sup>	580	DN200	80	14,9
Tin coated copper coil kit 4,54 m <sup>2</sup>	750	DN200	80	22,6
Tin coated copper coil kit 6,34 m²	980	DN200	80	29,0



#### **TECHNICAL DATA**

Description	Water	Absorbed	Necessary	DHW	Pressure	Maximum	Pipe	Pipe's	Water
	exchanger surface	power (*) kW	capacity heat exchanger (*)	output (*) m³/h		operating pressure of coil	diameter mm	number	capacity
	m <sup>2</sup>	KVV	m³/h	/	IIIDai	bar			'
Tin coated copper coil kit 2,63 m <sup>2</sup>	2,63	53	2,3	1,3	748	10	18x1	1	1,74
Tin coated copper coil kit 4,54 m²	4,54	91	3,9	2,2	720	10	18x1	2	3,56
Tin coated copper coil kit 6,34 m²	6,34	127	5,5	3,1	2017	10	18x1	2	5,10

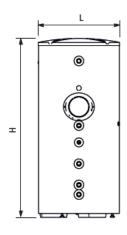
According to DIN 4708, to get domestic hot water with  $\Delta T$  35 °C (10/45 °C) and  $\Delta T$  20 °C (80/60 °C) on the heat-exchanger, please observe the values showed in the datasheet concerning absorbed power and necessary capacity heat-exchanger.

<sup>(1)</sup> Only for Riello 7200/3F HV Plus.
(2) Not suitable for Riello 7200/3F 800 HV Plus and Riello 7200/3F 1000 HV Plus.
Pump stations and differential controller are available at page 148.

Other available accessories at page 153.

Single coil DHW cylinders

# **Riello RBC 1S**





PRODUCT CATALOGUE

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

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 GENERAL DATA**

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses (*) W	Energy efficiency class <u>≋</u>	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,  $\Delta t$  = 45 °C (outdoor temperature 20 °C, storage temperature 65 °C).
- Insulation to be assembled.

## **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)

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

# **ACCESSORIES**

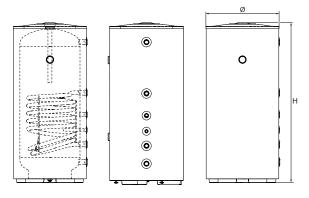
**RIELLO** 

Description	Code
Thermometer kit	20123850
Electronic anode with plug	20055206
Curve for electronic anode kit	20123851
Handles kit (for 200 - 300 liters models)	20123854
Handles kit (for 430 – 550 liters models)	20123855
Handles kit (for 800 – 1000 liters models)	20128277
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
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

# Riello 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
RIELLO 7200.200 V PRIME	1330	605	50	68
RIELLO 7200.300 V PRIME	1830	605	50	91
RIELLO 7200.430 V PRIME	1630	755	50	121
RIELLO 7200.550 V PRIME	1980	755	50	142
RIELLO 7200.800 V PRIME	1835	1000	100	182
RIELLO 7200.1000 V PRIME	2165	1000	100	207

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

Vertical storage DHW cylinders made in steel, protected by a inner enamel coating (according to DIN 4753), which is smooth, anti-adherent 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.

- The use of the flange for lateral inspection makes maintenance easier.
- Anticorrosion anodic protection.
- Analog pressure gauge standard supplied.
- An electrical control board to manage the domestic hot water temperature is available as an accessory.
- It is possible to use additional electrical resistances.

#### **TECHNICAL GENERAL DATA**

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class <u>≅</u>	Code
RIELLO 7200.200 V PRIME	210	24	10	59,0	В	20096892
RIELLO 7200.300 V PRIME	304	34	10	69,0	В	20096894
RIELLO 7200.430 V PRIME	444	52	10	83,0	С	20096895
RIELLO 7200.550 V PRIME	556	52	10	96,0	С	20096897
RIELLO 7200.800 V PRIME	735	71	7	135,5	D	20096899
RIELLO 7200.1000 V PRIME	890	71	7	142,5	С	20096900

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## **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
RIELLO 7200.200 V PRIME	4,8	0,78	590	590	10	(1)
RIELLO 7200.300 V PRIME	6,9	1,13	831	831	10	(1)
RIELLO 7200.430 V PRIME	9,8	1,49	1260	1260	10	(1)
RIELLO 7200.550 V PRIME	98	1,49	1260	1260	10	(1)
RIELLO 7200.800 V PRIME	16,3	2,47	1700	1700	10	(1)
RIELLO 7200.1000 V PRIME	16,3	2,47	1700	1700	10	(1)

## **ACCESSORIES**

**RIELLO** 

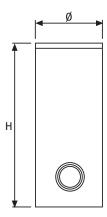
Destination	Notes	Code
Electric control panel for storage cylinders	(1)	4030011
Electronic anode with plug		20055206

(1) Suitable for models up to 500 liters.

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

DHW solar cylinder

# Riello 7200 HP







- Cylinder for heat pump
- Domestic hot water production

Description	H (*) mm	ø (*) mm	IT (**) mm	Net weight (*) kg
RIELLO 7200 300 HP	1615	600	50	119
RIELLO 7200 500 HP	1690	750	50	166
RIELLO 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"½ 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 GENERAL DATA**

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
RIELLO 7200 300 HP	263	99	6	85	С	(1)	4383500
RIELLO 7200 500 HP	470	99	6	112	С	(2)	4383501
RIELLO 7200 800 HP	702	99	6	130	С	(3)(4)	20136293

- (1) To combine with heat-pump NexPolar 6 and NexPolar 8.
- (2) To combine with heat-pump NexPolar 12 and NexPolar 15.
   (3) To combine with heat-pump NexPolar 17 and NexPolar 22.
- (4) New code available from October 2017.

#### **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
RIELLO 7200 300 HP	23,0	4	500	19	110	10	(1)
RIELLO 7200 500 HP	51,5	6	800	31	110	10	(1)
RIELLO 7200 800 HP	60,0	7	900	38	110	10	(1)

(1) According to DIN 4708 with  $\Delta T$ =10 °C (60/50 °C) on exchanger.

**RIELLO** 

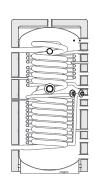
Description	Code
Single-phase electrical resistance 1,5 kW of 1" ½	4383270
Three-phase electrical resistence 3,8 kW of 1" ½	20020707
0,8 m² solar heat exchanger (for HP 300 model)	4383504
1,2 m² solar heat exchanger (for HP 500-800 models)	4383505
Electronic anode with plug	20055206

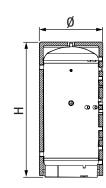
Other available accessories at page 153.

Combined solar storage tanks

# Riello 7200 KombiSolar<sup>25</sup>









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

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

- Dimensions and weight with insulation

Riello 7200 KombiSolar<sup>25</sup> 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 GENERAL DATA**

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

- Supplied with insulation removed. Progressively available when the corresponding previous model runs out.

# **COIL HEAT EXCHANGER FOR SANITARY APPLICATION TECHNICAL DATA**

Description	Water content liters	Exchange surface m²	Max operation temperature °C	Max operation pressure bar
Riello 7200 KOMBISOLAR 430 2S	23,6	4,5	99	6
Riello 7200 KOMBISOLAR 550 2S	23,6	4,5	99	6
Riello 7200 KOMBISOLAR 750 2S	30,4	5,8	99	6
Riello 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
Riello 7200 KOMBISOLAR 430 2S	11,0	1,80	10
Riello 7200 KOMBISOLAR 550 2S	12,8	2,10	10
Riello 7200 KOMBISOLAR 750 2S	17,4	2,90	10
Riello 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 ¾" 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 153.

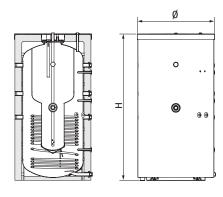
Combined solar storage tanks

# Riello 7200 Kombi Plus





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



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

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

Riello 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 GENERAL DATA**

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

#### **COIL HEAT EXCHANGER TECHNICAL DATA**

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

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

WATER-HEATERS

## **ACCESSORIES**

**RIELLO** 

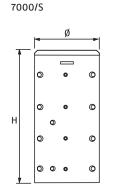
Description	Code
Single-phase electrical resistance 1,5 kW of 1" ½	4383270
Single-phase electrical resistance 2,2 kW of 1" 1/2	4383271
Single-phase electrical resistance 3,0 kW of 1" ½	4383272
Three-phase electrical resistence 3,8 kW of 1" ½	20020707
18L rectangular expansion vessel kit (including: mounting 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 3/4", 800mm, not insulated)	20011797
Electronic anode with plug	20055206

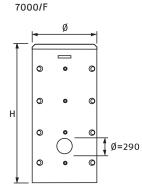
Other available accessories at page 153.

**Puffers** 

# Riello 7000 Puffer









· Inertial storage for heating supplement

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

- Dimensions and weight with insulation
- Insulation thikness

Storage tanks RIELLO 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 /S 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 GENERAL DATA**

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

- With  $\Delta T=35$  °C, primary temperature of 80° C and exchange flow rate 4m3/h (1000/S), 5m<sup>3</sup>/h (1500/S).
- (\*) (1) (2) Supplied with assembled insulation.
- 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
Riello 7000.1000/S	14,6	2,6	2900	68	110	6	(1)
Riello 7000.1500/S	21,6	3,8	4200	99	100	6	(1)

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

### **ACCESSORIES**

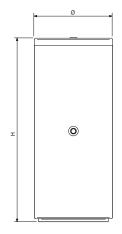
**RIELLO** 

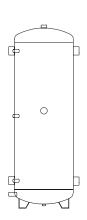
Description	Notes	Code
4,54 m² - tin plated copper coil kit with flange coupling for models/F (coil exchanger power 91 kW)	(1)	4383089
6,34 m² - tin plated copper coil kit with flange coupling for models/F (coil exchanger power 127 kW)	(1)	4383087
Electronic anode with plug		20055206

<sup>(1)</sup> To use only with Riello 7000.2000/F, 7000.3000/F and 7000.5000/F models. Other available accessories at page 153.

Hot/Cold puffers

# Riello 7000 Aci Plus







• Hot/Cold inertial storage

Description	H(*) mm	Ø(*) mm	Weight (empty) kg
Riello 7000 ACI 60 Plus	935	400	25
Riello 7000 ACI 120 Plus	1095	500	35
Riello 7000 ACI 200 Plus	1395	550	45
Riello 7000 ACI 300 Plus	1560	600	55
Riello 7000 ACI 400 Plus	1540	700	95
Riello 7000 ACI 500 Plus	1840	700	95
Riello 7000 ACI 800 Plus	1800	990	115
Riello 7000 ACI 1000 Plus	2050	990	170
Riello 7000 ACI 1500 Plus	2165	1200	185
Riello 7000 ACI 2000 Plus	2480	1300	305
Riello 7000 ACI 800 PLUS C	1725	850	101
Riello 7000 ACI 1000 PLUS C	1975	850	150
Riello 7000 ACI 1500 PLUS C	2090	1060	164
Riello 7000 ACI 2000 PLUS C	2405	1160	279

Dimensions with insulation.

Storage tanks Riello 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 ∆T; 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.

# **TECHNICAL DATA**

Description	Cylinder capacity liters	Thermal losses W	Maximum temperature °C	Maximum pressure bar	Energy efficiency class	Notes	Code
HOT/COLD APPLICATION	·						
Riello 7000 ACI 60 Plus	57	34	99	6	В	(1)	20090056
Riello 7000 ACI 120 Plus	123	50	99	6	В	(1)	20082450
Riello 7000 ACI 200 Plus	203	68	99	6	С	(1)	20028093
Riello 7000 ACI 300 Plus	277	82	99	6	С	(1)	20028094
Riello 7000 ACI 400 Plus	390	105	99	6	С	(1)	20028095
Riello 7000 ACI 500 Plus	473	129	99	6	С	(1)	20028096
Riello 7000 ACI 800 Plus	732	131	99	6	С	(2)	20137619
Riello 7000 ACI 1000 Plus	855	139	99	6	С	(2)	20137620
Riello 7000 ACI 1500 Plus	1420	168	99	6	С	(2)	20137622
Riello 7000 ACI 2000 Plus	2013	190	99	6	С	(2)	20137624
ONLY COLD APPLICATION				*			
Riello 7000 ACI 800 PLUS C	732	471	99	6	-	(2)	20136268
Riello 7000 ACI 1000 PLUS C	855	528	99	6	-	(2)	20136269
Riello 7000 ACI 1500 PLUS C	1420	726	99	6	-	(2)	20136270
Riello 7000 ACI 2000 PLUS C	2013	913	99	6	-	(2)	20136271

# **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" ½	(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

<sup>(1)</sup> Not compatible with Riello 7000 ACI 60 Plus Other available accessories at page 153.

Hot/Cold application
Only cold application. New code available from October 2017. For hot application please contact sales Department.

**HEAT PUMPS** 

# **COMPLEMENTARY ITEMS**



2019 EDITION

Pump stations and differential controllers

# **RSS & EVOSOL**





- Pump station RSS
- Differential controller EVOSOL

Description	Н	L	P
	mm	mm	mm
EVOSOL	170	106	52
RSS MRS/MR	418	313	185
RSS R	364	228	183
RSS MR 14 MT	290	390	250

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

### **TECHNICAL DATA**

Description	Connection and ball valve	Net area connectable collectors m²	Net weight kg	Notes	Code
RSS MRS	Flow/Return	55	5	(1)	20116166
RSS MR	Flow/Return	55	4,7	(2)	20116167
RSS R	Only return	20	4,1	(3)	20116168
RSS MR 14 MT	Flow/Return	>55	8,0	(2)	20156553

- Equipped with differential controller EVOSOL
- Suitable only for PWM controlling Suitable for PWM or ON-OFF controlling

# **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 °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).



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 °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

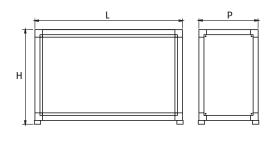
- Suitable for pump station with differential controller (MRS type).
- Suitable for pump station without differential controller (R and MR type).



Complementary items

# Riello SC Sun Riello SC Acs







- Solar heat exchange units
- DHW heat exchange units
- High efficincy pump

Description	H mm	L mm	P mm	Net weight kg
RIELLO SC SUN 50	450	610	260	25
RIELLO SC SUN 120	475	835	226	34
RIELLO SC SUN 300	1000	900	500	150
RIELLO SC SUN 120 ACS	475	835	226	34
RIELLO SC ACS 25	450	610	260	17
RIELLO SC ACS 40 E	475	835	226	30
RIELLO SC ACS 160	1000	900	500	147
RIELLO SC ACS 225	1000	900	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 three sizes: 25, 40, 160 and 225 l/min.

### **TECHNICAL DATA**

Description	Exchanged power (*) kW	Temperature Primary Min - Max °C	Maximum pressure Solar – Puffer bar	Code
HEAT EXCHANGER FOR SOLAR CIRCUIT				
RIELLO SC SUN 50	32	2-110	10-10	20083476
RIELLO SC SUN 120	52	2-110	10-10	20083477
RIELLO SC SUN 300	129	2-110	10-10	20083479
DHW HEAT EXCHANGER				
RIELLO SC SUN 120 ACS	52	2-110	10-10	20083478

(\*) Referred to  $\Delta T$ =20 °C and 30% glicol.

WATER-HEATERS

**TERMINAL UNITS** 

### **TECHNICAL DATA**

**RIELLO** 

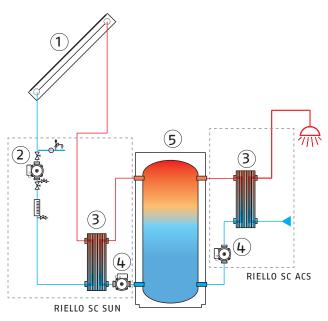
Description	DHW production I/min	Exchanged power (*) kW	Temperature primary min - max °C	Maximum pressure Solar – Puffer bar	Notes	Code
DHW HEAT EXCHANGER						
RIELLO SC ACS 25	26	54	2-90	10-10		20083470
RIELLO SC ACS 40 E	44	92	2-90	10-10	(1)	20083471
RIELLO SC ACS 160	162	339	2-90	10-10		20083473
RIELLO SC ACS 225	225	471	2-90	10-10		20083475

DHW production at 40 °C, with water inlet at 10 °C and storage tank temperature at 60 °C Assembly in cascade

### **ACCESSORIES**

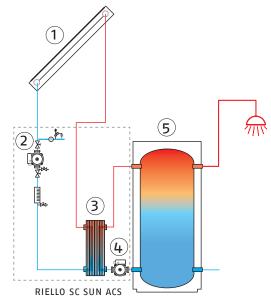
Description	Notes	Code
Kit recirculation pump for SC ACS 25		20083502
Kit recirculation pump for SC ACS 40 E		20083503
2-modules cascading kit	(1)	20083501
3-modules cascading kit	(1)	20084362

(1) Specific accessories for cascade assembly of SC ACS 40 E Other available accessories at page 153.



NOTE: simplified principle diagram

- Riello solar collector 1.
- High efficiency solar circulator 2.
- 3. Plate heat-exchanger
- High efficiency circulator Puffer Riello 7000 4.



NOTE: simplified principle diagram

- Riello solar collector 1.
- High efficiency solar circulator 2.
- 3. Plate heat-exchanger
- High efficiency circulator Riello 7200/3F HV Plus 4.

# **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
Terminal fittings kit for RPS 25/4 and CSAL 20 RS collectors		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 (contains: 2 fittings to be welded to connect to the collectors RPS 25/2 EVO, RPS 25/4, CSAL 20 RS, CSAL 25 RS and 2 fittings for connection to RSS pump station or directly to the solar cylinder)		20132142
Fittings kit for stainless steel pipe (contains: 2 fittings to connect to the collectors RPS 25/2 EVO, RPS 25/4, CSAL 20 RS, CSAL 25 RS and 2 fittings to connect to RSS pump station or directly to the solar cylinder)	(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 l/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

<sup>(1)</sup> Fittings kit to be ordered with the stainless steel flexible pipe.
(2) Stainless steel flexible pipe, insulated, without fittings.



**HEAT PUMPS** 

**CENTRALIZED HEATING** 

0

MODULAR	CONDENSI	NG BOILER	S AND SYS	STEMS15

**CONDENSING FLOOR-STANDING BOILERS** 203

STEEL JET BURNER BOILERS 215

CAST IRON JET BURNER BOILERS 231

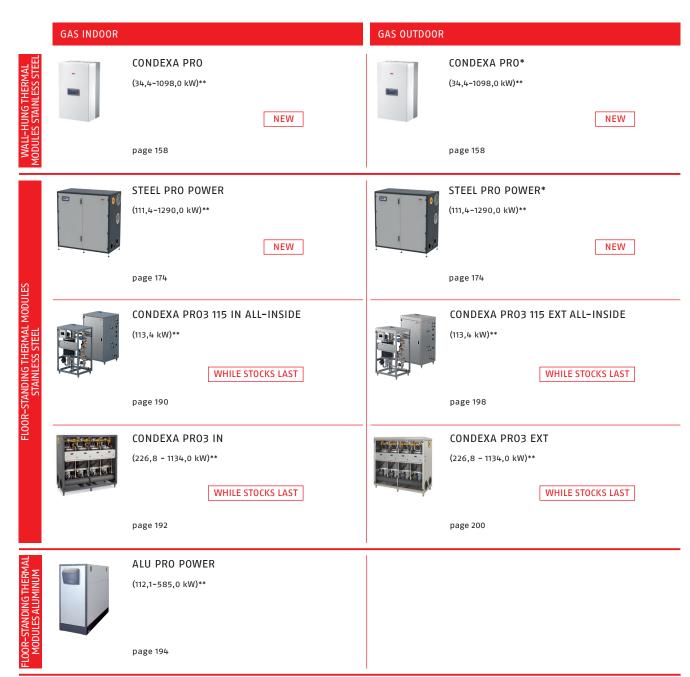
**CONTROL PANELS AND THERMOREGULATIONS 239** 

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**FLUE OPTIONS FOR CHIMNEYS** 253

# MODULAR CONDENSING BOILERS AND SYSTEMS

6



- Provided with kit for outdoor installation.
  The output data are referred to the min-max (80°/60 °C) of cascade applications.

**TERMINAL UNITS** 

# RIELLO

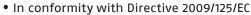
Indoor wall-hung gas condensing modules

# Condexa Pro

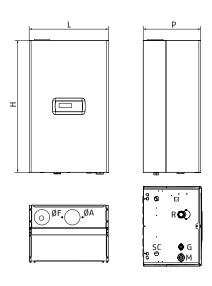
NEW







- · 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)
- In combination with a RIELLO heat exchanger, the boiler body has the benefit of the Conventional Warranty for up to 6 years



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, 2-way valves 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
- Maximum operating pressure: 6 bar
- A wide range of accessories is available to ensure the installation is simple, fast and complete with cascade.

# **TECHNICAL DATA**

Description	Output kW			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

### SYSTEM CONFIGURATION

Choice of the type of installation: A - STAND ALONE installation

B - CASCADE SYSTEM installation

### A - Powers obtainable with STAND ALONE installation

Model	CONDEXA	CONDEXA	CONDEXA	CONDEXA	CONDEXA	CONDEXA	CONDEXA	CONDEXA
	PRO 35 P	PRO 50 P	PRO 57 P	PRO 70 P	PRO 90	PRO 100	PRO 115	PRO 135
Thermal flow kW	34,9	45	57	68	90	97	112	131

#### B - Powers obtainable with CASCADE SYSTEM installation

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
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

	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
ND	Solution not available

## GUIDE TO CONFIGURING SYSTEM WITH STAND ALONE BOILER AND SELECTION OF ACCESSORIES



- **ACCESSORIES TO COMPLETE THE SYSTEM**
- OPTIONAL ACCESSORIES
- 2.1 Injection pumps
- 2.2 Additional safety devices
- 2.3 Hydraulic separator or plate heat exchanger
- 2.4 Secondary circuit management
- 2.5 Indoor/outdoor installation
- Type of combustion chamber open or gastight chamber
- 2.7 Flue system
- 2.8 Treatment systems for neutralising condensate

### 2. Accessories to complete the system

Description	Notes	Code
External probe		20132778
Condensate drain kit for stand alone boiler		20133102

(1) Only for models 57-135

#### 3. Optional accessories

### 3.1 Injection pumps

### For models 90-135 (not necessary for models 35-70-pump already on-board)

Description	Notes	Code
Injection pump kit for 90-100-115 kW		20125034
Injection pump kit with high residual head for 115 kW/ low residual head 135kW		20125035
Injection pump kit with high residual head for 135 kW	(1)	20125040

(1) Only with plate heat exchanger kit

### 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

(1) 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 20131897), Condensate drain syphone (1x code 20133102), Safety valve 5,4 bar (1x code 20143981) and 2 Ball Valves
NOTE: Condensate drain syphone (code 20133102) and Safety valve (code 20143981) are 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

### 2.3 Hydraulic separator or plate heat exchanger

Description	Code
Horizontal hydraulic separator kit for stand alone boiler	20131897
Plate heat exchanger kit for stand alone boiler 35-50	20132368
Plate heat exchanger kit for stand alone boiler 57-70	20132369
Plate heat exchanger kit for stand alone boiler 90–100	20132370
Plate heat exchanger kit for stand alone boiler 115	20132371
Plate heat exchanger kit for stand alone boiler 135	20132372
Delivery/return line fittings kit for direct installation 35-135	20136823
Expansion tank kit for stand alone boiler 35-50	20139239
Cover for plate heat exchanger	20145587
Cover for INAIL/hydraulic separator unit for stand alone boiler	20133224

### 2.4 Secondary circuit management

Description	Notes	Code
Secondary/storage cylinder probe		4030036
3-way valve kit for domestic hot water production 35		20136713
Electronic kit for managing additional direct or mixed zone	(1)	20130811

(1) The maximum number of kits that can be installed is 16

NOTE: for adjusting the ambient temperature use Riello thermostats and chronothermostats

#### 2.5 Outdoor installation

Description	Code
IPX5D kit for outdoor installation 35–70	20132365
IPX5D kit for outdoor installation 90–135	20128135

**TERMINAL UNITS** 

### 2.6 Gas-tight combustion conversion kit (type C)

Description	Code
Type C/35-70 conversion kit	20131665
Type C/90–135 conversion kit	20131668

### 2.7. Flue gas exhaust systems

NOTE: for each type check the maximum equivalent lengths by consulting the technical data sheet and/or contacting the pre-sales service

#### For all models 35-135

**RIELLO** 

Description	Notes	Code
Spacer kit for fixing to wall	(1)	20131270

(1) Kit required for rear wall concentric discharge

### 2.8. Treatment systems for neutralising condensate

Description	Notes	Code
HN2 neutralisation kit up to 270 kW	(1)	4031811
N2 neutralisation kit up to 450 kW		4031810

(1) Equipped with extraction pumps

### **GUIDE TO CONFIGURING SYSTEM WITH CASCADE BOILERS AND SELECTION OF ACCESSORIES**



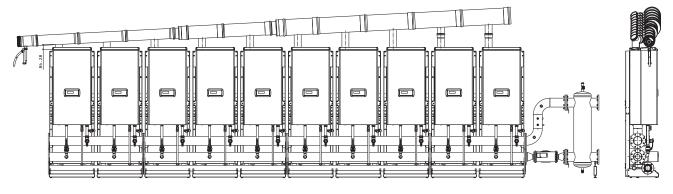
- 1. SELECTION OF THE LAYOUT FRONT OR BACK-TO-BACK
- 2. ACCESSORIES TO COMPLETE THE SYSTEM
- 3. ACCESSORIES
- 3.1 Support frame
- 3.2 Shunt pumps or shut-off valves for single boiler
- 3.3 Connection pipes
- 3.4 Water collectors (delivery/return) -gascondensate
- 3.5 Additional safety devices
- 3.6 Hydraulic separator or plate heat exchanger
- 3.7 Secondary circuit management
- 3.8 Gas-tight combustion conversion kit
- 3.9 Flue gas exhaust systems
- 3.10 Treatment systems for neutralising condensate

HEAT PUMPS

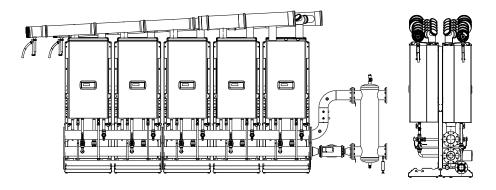
**RIELLO** 

### 1. SELECTION OF THE LAYOUT FRONT OR BACK-TO-BACK, in relation to the space available

### **FRONT configuration**



### BACK-TO-BACK configuration



### 2. 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)	20133518
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".

# 3. ACCESSORIES

### 3.1 Support frame

# **FRONT** configuration

Description	Code
Frame kit for front cascades	20131663

FRONT					
No. boilers	Q.ty frame				
2	2				
3	3				
4	4				
5	5				
6	6				
7	7				
8	8				
9	9				
10	10				

### BACK-TO-BACK configuration

Description	Code
Frame kit for front cascades	20131663
Frame conversion kit for B2B cascades	20131664

BACK-TO-BACK						
No. boilers	Q.ty frame code 20131663	Q.ty conversion kit code 20131664				
2	1	1				
3	2	2				
4	2	2				
5	3	3				
6	3	3				
7	4	4				
8	4	4				
9	5	5				
10	5	5				

### 3.2 Shunt pumps or shut-off valves for single boiler

# For models 90-135 (not necessary for models 35-70-pump already on-board)

Description	Notes	Code
	Notes	code
Injection pump kit for 90-100-115 kW	(1)	20125034
Injection pump kit with high residual head for 115 kW/ low residual head 135 kW	(1)	20125035
Injection pump kit with high residual head for 135 kW	(2)	20125040
2-way valve kit for 90-135 kW	(3)	20125037

- 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 To be ordered for each boiler of the cascade system (q.ty = no. boilers); valve to be installed inside the boiler

### 3.3 Connection pipes

### **FRONT** configuration

Description	Notes	Code
Pipes without shut-off 35-135	(1)	20130658
Pipes with shut-off 35-135	(1)	20131124
Pipes without shut-off 135 (external pump)	(2)	20131121
Pipes with shut-off 135 (external pump)	(2)	20131125

- 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.

### **BACK-TO-BACK** configuration

Description	Notes	Code
Pipes without shut-off 35-135	(1)	20130658
Pipes with shut-off 35-135	(1)	20131124
Pipes without shut-off 135 (external pump)	(2)	20131121
Pipes with shut-off 135 (external pump)	(2)	20131125
Pipes without shut-off 35-135 (B2B)	(3)	20131787
Pipes with shut-off 35-135 (B2B)	(3)	20131791
Pipes without shut-off 135 (external pump) (B2B)	(4)	20131788
Pipes with shut-off 135 (external pump) (B2B)	(4)	20131792

- To be ordered for each boiler on collectors side with pump or valve installed inside the boiler
- (1) (2) (3) (4)
- 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

3.4 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
- 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
- collector

# 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 <sub>2</sub> 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"	450/5"	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	NFIGURATION		
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	CONDEXA PRO	CONDEXA PRO	CONDEXA PRO	CONDEXA PRO	CONDEXA PRO	CONDEXA PRO	CONDEXA PRO
	35 P	50 P	57 P	70 P	90	100	115	135
Boiler heat output kW	35	45	57	68	90	97	112	131
No. boilers		'	Selection of H20	collector codes	for BACK TO BACK	Configurations		
2	1 x 20133220	1 x 20133220	1 x 20133220	1 x 20133220	1 x 20133220	1 x 20133220	1 x 20133220	1 x 20133220
3	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220
4	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130222
5	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	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 20130220	1 x 20130222	1 x 20130222	1 x 20130222	1 x 20130222	1 x 20130222	_
	1 x 20130221	1 x 20130221	1 x 20130223	1 x 20130223	1 x 20130223	1 x 20130223	1 x 20130223	
10	1 x 20130220	1 x 20130220	1 x 20130222	1 x 20130222	1 x 20130222	1 x 20130222	1 x 20130222	_
.0	1 x 20130221	1 x 20130221	1 x 20130223	1 x 20130223	1 x 20130223	1 x 20130223	1 x 20130223	

### 3.5 Additional safety devices

Description	Notes	Code
Manifold kit for 3" safety devices housing		20070910
Manifold kit for 5" safety devices housing		20070912
Primary circuit pump kit up to 270 kW	(1)	20132873
Primary circuit pump kit up to 485 kW	(1)	20070699
Primary circuit pump kit up to 580 kW	(1)	20070701
Primary circuit pump kit up to 1120 kW	(1)	20070702
Primary circuit twin pump kit up to 270 kW	(1)	20132874
Primary circuit twin pump kit up to 485 kW	(1)	20070703
Primary circuit twin pump kit up to 580 kW	(1)	20070704
Primary circuit twin pump kit up to 1120 kW	(1)	20070705
Communication module		20045865
Safety devices kit	(7)	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 (VIC) - ØG.1"	(2)(6)	20009486
Fuel shut-off valve (VIC) - ØG.1" ½	(3)(6)	20009482
Fuel shut-off valve (VIC) - ØG.2"	(4)(6)	20009483
Fuel shut-off valve (VIC) - ØG.3" (flanged DN80)	(5)(6)	20061640

- Including manifold for housing INAIL safety devices; to be used in combination with shut-off kit with 2-way valves
- 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

- (1) (2) (3) (4) (5) (6) 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
- (7) Does not include safety valve and VIC

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	461-580	581-920	921-1160
(No.) Diameter	1 x <sup>3</sup> / <sub>4</sub> "	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

### 3.6 Hydraulic separator or plate heat exchanger

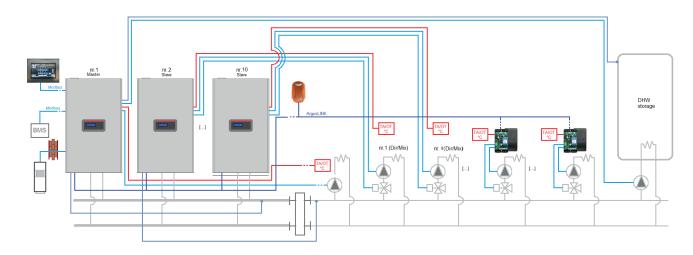
Description	Notes	Code
Hydraulic separator kit 5"-up to 485 kW	(1)	20009467
Hydraulic separator kit 10"-up to 580 kW	(2)	20069073
Hydraulic separator kit 10"-up to 1120 kW	(3)	20069074
Fittings kit for plate heat exchanger (DN80 collectors side 3"/DN50 plate heat exchanger side)		20132373
Fittings kit 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

### 3.7 Secondary circuit management

Description	Notes	Code
Secondary/storage cylinder probe		4030036
Electronic kit for managing additional direct or mixed zone (max 16)	(1)	20130811

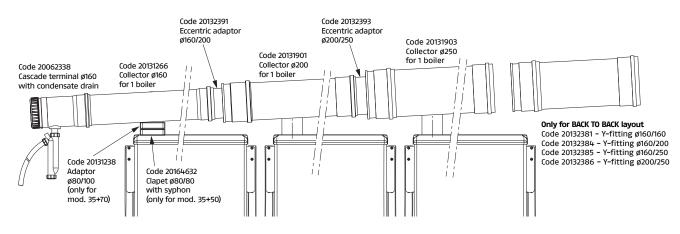
(1) Kit required whenever the number of the heating zones, direct or mixed, is higher than the number of slave boilers NOTE: for adjusting the ambient temperature use Riello thermostats and chronothermostats



### 3.8 Gas-tight combustion conversion kit (type C)

Description	Code
Type C/35-70 conversion kit	20131665
Type C/90–135 conversion kit	20131668

### 3.9 Flue gas exhaust systems



#### For models 35-70

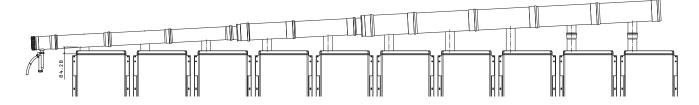
Description	Notes	Code
Adaptor Ø80/110	(1)	20131238
Clapet Ø80/80 with syphon	(2)	20164632

- Mandatory only for models 35-70. Mandatory only for models 35-50.

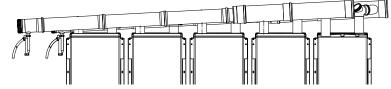
# For all models 35–135–suction/discharge system with collectors $\emptyset 160/200/250 \ mm$

Description	Code
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

### 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/AIR DIAMETERS						
<b>1</b> a	Ø160	Ø160	Ø160	Ø160	Ø160	Ø160	Ø160	Ø160
<b>2</b> ª	160	160	160	160	160	160	160	160
3ª	160	160	160	160	160	160	160	160
4ª	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
<b>7</b> a	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		SELECTION OF FLUE GASES COLLECTOR CODES FOR FRONT CONFIGURATIONS    SELECTION OF FLUE GASES COLLECTOR CODES FOR FRONT CONFIGURATIONS								
2	2 x 20164632 2 x 20131238 1 x 20062338 2 x 20131266	2 x 20131238 1 x 20062338	1 x 20062338	1 x 20062338			•	•		
3	3 x 20164632 3 x 20131238 1 x 20062338 3 x 20131266	3 x 20131238 1 x 20062338	1 x 20062338	1 x 20062338		•	•	•		
4	4 x 20164632 4 x 20131238 1 x 20062338 4 x 20131266	4 x 20131238 1 x 20062338	1 x 20062338	1 x 20062338		•	•	3 x 20131266 1 x 20132391		
5	5 x 20164632 5 x 20131238 1 x 20062338 5 x 20131266	5 x 20131238 1 x 20062338	1 x 20062338	1 x 20062338	4 x 20131266 1 x 20132391	4 x 20131266 1 x 20132391	4 x 20131266 1 x 20132391	3 x 20131266 1 x 20132391		
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			
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 1 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 2 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.

**HEAT PUMPS** 

### 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		SELECTI	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.

## 3.10 Treatment systems for neutralising condensate

Description	Notes	Code
HN2 neutralisation kit up to 270 kW	(1)	4031811
N2 neutralisation kit up to 450 kW		4031810
N3 neutraliser kit from 450 to 1500 kW		4031812
HN3 neutraliser kit from 270 to 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

### **ACCESSORIES FOR MAINTENANCE AND SERVICE**

### For all models 35-135-For stand alone boilers and cascade systems

	Description	Code
PC interface kit		20132407

# HIGH TEMPERATURE MACHTING

	Description				Plate hea	t exchangers			
			ΔT <sub>m</sub> L=1	0 °C		ΔT <sub>m</sub> L=7	,2 °C		
			80 °C	70 °C		85 °C	75 °C		
			€0 °C	50 °C		65 °C	€0 °C		
r. of generators	Model	Useful	Heat exchanger	DN	Code	Heat exchanger	DN	Code	
in cascade application		power kW	model			model			
	Condexa Pro 2x 35 P	70	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 25 (25A) N	DN50	201404	
	Condexa Pro 2x 50 P	100	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 31 (31A) N	DN50	201404	
2	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	
	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 Condexa Pro 2x 135	224 262	SP 35 - DN50 39 (39A) N	DN50 DN50	20140413	SP 35 - DN50 65 (65A) N	DN50 DN50	201404	
	Condexa Pro 3x 35 P	105	SP 35 - DN50 45 (45A) N SP 35 - DN50 25 (25A) N	DN50	20140414	SP 35 - DN50 75 (75A) N SP 35 - DN50 31 (31A) N	DN50	201404	
	Condexa Pro 3x 50 P	150	SP 35 - DN50 31 (31A) N	DN50	20140410	SP 35 - DN50 45 (45A) N	DN50	201404	
3	Condexa Pro 3x 57 P	171	SP 35 - DN50 31 (31A) N	DN50	20140411	SP 35 - DN50 49 (49A) N	DN50	201404	
	Condexa Pro 3x 70 P	204	SP 35 - DN50 35 (35A) N	DN50	20140411	SP 35 - DN50 57 (57A) N	DN50	201404	
	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 35 (35A) N	DN50	20140412	SP 35 - DN50 57 (57A) 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	
4	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 45 (45A) N	DN50	20140414	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 Condexa Pro 5x 115	485 560	SP 35 - DN50 81 (81A) N SP 40 - DN65 67 (67A) N	DN50 DN65	20140420	SP 35 - DN50 121 (121A) N SP 40 - DN65 99 (99A) N	DN50 DN65	201404	
	Condexa Pro 5x 135	655	SP 40 - DN65 75 (75A) N	DN65	20140425	SP 40 - DN65 99 (99A) N	DN65	201404	
	Condexa Pro 6x 35 P	209	SP 35 - DN50 35 (35A) N	DN50	20140420	SP 35 - DN50 57 (57A) N	DN50	201404	
	Condexa Pro 6x 50 P	300	SP 35 - DN50 49 (49A) N	DN50	20140412	SP 35 - DN50 81 (81A) 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	
7	Condexa Pro 7x 70 P	476	SP 35 - DN50 81 (81A) N	DN50	20140420	SP 35 - DN50 121 (121A) N	DN50	201404	
	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	201404	
	Condexa Pro 8x 35 P	279	SP 35 - DN50 49 (49A) N	DN50	20140415	SP 35 - DN50 75 (75A) N	DN50	201404	
	Condexa Pro 8x 50 P Condexa Pro 8x 57 P	400 456	SP 35 - DN50 65 (65A) N SP 35 - DN50 75 (75A) N	DN50 DN50	20140418	SP 35 - DN50 105 (105A) N SP 35 - DN50 121 (121A) N	DN50 DN50	201404	
	Condexa Pro 8x 70 P	544	SP 40 - DN65 67 (67A) N	DN65	20140419	SP 40 - DN65 99 (99A) N	DN65	201404	
8	Condexa Pro 8x 90	720	SP 40 - DN65 93 (93A) N	DN65	20140425	SP 40 - DN65 145 (145A) N	DN65	201404	
	Condexa Pro 8x 90	776	SP 40 - DN65 93 (93A) N	DN65	20140427	SP 40 - DN65 145 (145A) N	DN65	201404	
	Condexa Pro 8x 115	896	SP 60 - DN100 59 (59A) N	DN100	20140427	SP 60 - DN100 73 (73A) N	DN100	201404	
	Condexa Pro 8x 135	1048	SP 60 - DN100 59 (59A) N	DN100	20140437	SP 60 - DN100 85 (85A) N	DN100	201404	

# HIGH TEMPERATURE MACHTING

	Description	Plate heat exchangers							
			ΔT <sub>m</sub> L=1	0 °C		ΔT <sub>m</sub> L=7,2 °C			
			80 °C	70 °C 50 °C		85 °C			
Nr. of generators in cascade application	Model	Useful power kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code	
	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 75 (75A) N	DN50	20140419	SP 35 - DN50 121 (121A) N	DN50	20140424	
	Condexa Pro 9x 57 P	513	SP 40 - DN65 59 (59A) N	DN65	20014231	SP 40 - DN65 99 (99A) N	DN65	20140428	
0	Condexa Pro 9x 70 P	612	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 111 (111A) N	DN65	20140429	
9	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 9x 135	1179	SP 60 - DN100 65 (65A) N	DN100	20140438	SP 60 - DN100 97 (97A) N	DN100	20083249	
	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 40 - DN65 59 (59A) N	DN65	20014231	SP 40 - DN65 93 (93A) N	DN65	20140427	
	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	
10	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	
	Condexa Pro 10x 135	1310	SP 60 - DN100 73 (73A) N	DN100	20140439	SP 60 - DN100 107 (107A) N	DN100	20140441	

Floor-standing gas condensing units for indoor use

# **Steel Pro Power**

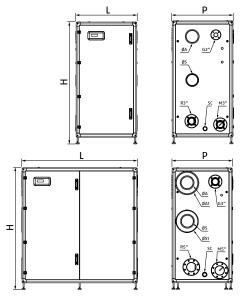
NEW

MAY 2019





- 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)
- In combination with a RIELLO plate heat exchanger, the boiler body benefits from the Conventional Warranty up to 6 years



G = GAS

M = FLOW R = RETURN SC = CONDENSATE DISCHARGE

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	160	300	160	300	350
STEEL PRO POWER 300-3	1800	1800	890	160	_	160	-	450
STEEL PRO POWER 345-3	1800	1800	890	160	_	160	-	490
STEEL PRO POWER 405-3	1800	1800	890	160	300	160	300	540
STEEL PRO POWER 460-4	1800	1800	890	160	_	160	-	560
STEEL PRO POWER 540-4	1800	1800	890	_	300	_	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  $\Delta T$ , 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.

#### **CONFIGURATION GUIDE**

Choice of the type of installation:

A - Stand alone installation

B - Cascade installation

PRODUCT CATALOGUE

### A - STAND ALONE heat input

Description				1	STEEL PR	0 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 405-3 P/405-3 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	-	2	-
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

# **TECHNICAL DATA**

**RIELLO** 

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
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 material at our warehouse: 25 working days from the date of validation of the order. Model with 2 thermal elements.

Model with 3 thermal elements.

Model with 4 thermal elements.

Models that can be used for cascade systems.

<sup>(</sup>D) (1) (2) (3) (4)

**HEAT PUMPS** 

# **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 - 2 WAY VALVE VE	RSION								
STEEL PRO POWER 114-2 V	111,4	123,8	13,7-114	97,7	108,6	109,4	(D)(1)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138582 20162078 20162107 20162161 20162181 20162201
STEEL PRO POWER 140-2 V	134,0	147,8	13,7-136	98,5	108,1	109,3	(D)(1)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138583 20162079 20162108 20162162 20162182 20162202
STEEL PRO POWER 180-2 V	176,6	194,8	19,4-180	98,1	108,3	108,9	(D)(1)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138584 20162080 20162112 20162163 20162183 20162203
STEEL PRO POWER 230-2 V	219,6	242,2	22,4-223,2	98,4	108,6	108,9	(D)(1)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138585 20162081 20162120 20162164 20162184 20162204
STEEL PRO POWER 270-2 V	258,0	284,2	26,3-262	98,5	108,3	109,4	(D)(1)(4)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138586 20162082 20162125 20162165 20162185 20162205
STEEL PRO POWER 300-3 V	285,9	315,3	19,4-291	98,2	108,2	108,9	(D)(2)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138587 20162083 20162127 20162166 20162186 20162206
STEEL PRO POWER 345-3 V	329,4	363,6	22,4-334,8	98,4	108,6	108,9	(D)(2)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138588 20162084 20162134 20162167 20162187 20162207
STEEL PRO POWER 405-3 V	387,0	426,3	26,3-393	98,5	108,3	109,4	(D)(2)(4)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138589 20162087 20162137 20162168 20162188 20162208
STEEL PRO POWER 460-4 V	439,2	484,4	22,4-446,4	98,4	108,6	108,9	(D)(3)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138590 20162088 20162138 20162169 20162189 20162209
STEEL PRO POWER 540-4 V	516,0	568,4	26,3-524	98,5	108,3	109,4	(D)(3)(4)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138591 20162090 20162139 20162170 20162190 20162210

Availability of material at our warehouse: 25 working days from the date of validation of the order. Model with 2 thermal elements.

Model with 3 thermal elements.

Model with 4 thermal elements.

Models that can be used for cascade systems.

<sup>(</sup>D) (1) (2) (3) (4)

WATER-HEATERS

### SYSTEM CONFIGURATION GUIDE AND ACCESSORIES SELECTION



- 1. BOILER
- 2. SEALED COMBUSTION TRANSFORMATION KIT (TYPE C)
- 3. HYDRAULIC INTERCEPTION OF THERMAL MODULES
- 4. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES
- 5. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS
- 6. AUXILIARY ACCESSORIES FOR TECHNICAL BOX
- 7. AUXILIARY ACCESSORIES FOR OUTDOOR INSTALLATION
- 8. SECONDARY CIRCUIT MANAGEMENT ACCESSORIES
- 9. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION
- 10. COMPLEMENTS FOR MAINTENANCE AND SERVICE

### 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/Quantity								
	20145144	20145141	20145137	20145185	20145186	20145187	20145189			
STEEL PRO POWER 114-2	2x <sup>●</sup>	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 <sup>●</sup>			1x •					
STEEL PRO POWER 345-3		3x <sup>●</sup>			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			6x●				2x•			
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®			

**HEAT PUMPS** 

#### 3. HYDRAULIC INTERCEPTION OF THERMAL MODULES

Description	Notes	Code
2-way valve kit for hydraulic interception kit	(1)	20145169

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 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
Safety kit	(2)	20071190
Flanged DN80/threaded ØG.2" adapter kit for VIC valve		20146852
Gas shutting valve (VIC) - ØG.1"	(3)(4)	20009486
Gas shutting valve (VIC) - ØG.1" ½	(4)(5)	20009482
Gas shutting valve (VIC) - ØG.2"	(4)(6)	20009483
Gas shutting valve (VIC) - ØG.3"	(4)(7)	20061640
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
3"/2" flanged reduction kit (DN80/DN50)		20145184
5"/3" flanged reduction kit (DN125/DN80)		20145183
3" blind flanges kit		20070903
5" blind flanges kit		20070907
3" flange		20082190
5" flange		20082191
Shunt single pump kit up to 270 kW	(D)	20159242
Shunt single pump kit up to 485 kW	(D)	20159243
Shunt single pump kit up to 580 kW	(D)	20159253
Shunt single pump kit up to 1310 kW	(D)	20159254
Shunt twin pump kit up to 270 kW	(D)	20159257
Shunt twin pump kit up to 485 kW	(D)	20159258
Shunt twin pump kit up to 580 kW	(D)	20159259
Shunt twin pump kit up to 1310 kW	(D)	20159260
3" hydraulic flow manifold		20145172
5" hydraulic flow manifold		20145177
3" hydraulic return manifold		20145181
5" hydraulic return manifold		20145182

- (b) Availability of material at our warehouse: 25 working days from the date of validation of the order.
  (1) Includes connections H,0 5" Gas 3" Fumes Ø300 Condensation Ø50.
  (2) It does not include a safety valve and VIC.
  (3) Recommended up to a maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar.
  (4) Operating temperature at 97 ° C Capillary tube 5 m.
  (5) Recommended up to maximum power of 230 kW, calculated considering gas supply pressure = 20 mbar.
  (6) Recommended up to a maximum power of 580 kW, calculated considering gas supply pressure = 20 mbar.
  (7) Recommended up to maximum power of 1310 kW, calculated considering gas supply pressure = 20 mbar.
  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
5" hydraulic separator - up to 485 kW		20145255
10" hydraulic separator – up to 1310 kW		20145260
Connection kit for plate heat exchanger DN80 (Ø3")/DN50		20146827
Connection kit for plate heat exchanger DN125 (Ø5")/DN65		20146828
Connection kit for plate heat exchanger DN125 (Ø5")/DN100		20146829
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
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 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
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/Left technical box for single/twin pump housing 270/485 kW	(D)(2)(3)	20158562
Right/Left technical box for single/twin pump housing 580/1310 kW	(D)(2)(3)	20158564

Disponibilità del materiale presso nostro magazzino: 25 gg lavorativi dalla data di validazione dell'ordine. Contain the hydraulic separator within them. Only for "V" versions. They do not contain the circulator inside them.

(D) (1) (2) (3)

#### Matching table of cascade unit connection in relation to the unit model

Description	Direct connection
	20157593
STEEL PRO POWER SYSTEM 675	1x ●
STEEL PRO POWER SYSTEM 810	1x ●
STEEL PRO POWER SYSTEM 945	1x ●
STEEL PRO POWER SYSTEM 1080	1x ●
STEEL PRO POWER SYSTEM 1215	2x ●
STEEL PRO POWER SYSTEM 1350	2χ ●

Description	Connection with spacers (150 mm)
	20145237
STEEL PRO POWER SYSTEM 675	1x ●
STEEL PRO POWER SYSTEM 810	1x ●
STEEL PRO POWER SYSTEM 945	1x ●
STEEL PRO POWER SYSTEM 1080	1x ●
STEEL PRO POWER SYSTEM 1215	2x ●
STEEL PRO POWER SYSTEM 1350	2x ●

**HEAT PUMPS** 

#### Matching table of safety devices in relation to the unit model

Description	Safety kit		fety ves				VIC	valves					
	KIL	Val		ORY ACCE	SSORIES			ACCESSORIES TO BE SELECTED ACCORDING TO INSTALLATION					
		ar	bar		1/2			Witho	ut techni	cal box	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 b ØG.1" F)	Gas shutting valve (VIC) - ØG.1"	Gas shutting valve (VIC) - ØG.1"	Gas shutting valve (VIC) - ØG.2"	Gas shutting valve (VIC) - ØG.3"	3"/2" flanged reduction kit (DN80/DN50)	Flanged 2" DN50 PN6/ threaded ØG.2" adapter kit	Flanged 3" DN80 PN6/flanged ØG.3" DN80 PN16 adapter kit	Flanged DN80/threaded ØG.2" adapter kit		
	20071190	20023104	20023106	20009486	20009482	20009483	20061640	20145184	20094187	20161191	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	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● (*)		2x•	1x ●	
STEEL PRO POWER 300-3		1x •	2x•		
STEEL PRO POWER 345-3		1x ●	2x•		
STEEL PRO POWER 405-3	2x● (*)		2x•	1x ●	
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 ●	<sub>2x</sub> ●
STEEL PRO POWER SYSTEM 1215				1x •	2x●
STEEL PRO POWER SYSTEM 1350				1x ●	2x•

<sup>(\*)</sup> Accessories necessary for the hydraulic connection to technical box.

#### Matching table of circulator in relation to the "V" unit model

Description	Prir	nary sin	gle pump	kit	Primary twin pump kit						
	20159242	20159243	20159253	20159254	20159257	20159258	20159259	20159260			
STEEL PRO POWER 114-2 V	•				•						
STEEL PRO POWER 140-2 V	•				•						
STEEL PRO POWER 180-2 V	•				•						
STEEL PRO POWER 230-2 V	•				•						
STEEL PRO POWER 270-2 V	•				•						
STEEL PRO POWER 300-3 V		•				•					
STEEL PRO POWER 345-3 V		•				•					
STEEL PRO POWER 405-3 V		•				•					
STEEL PRO POWER 460-4 V		•				•					
STEEL PRO POWER 540-4 V			•				•				
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 technical box for circulator housing in relation to the "V" unit model

Description	Right/Left technical box for single/twin pump housing up to 485 kW	Right/Left technical box for single/twin pump housing from 580 to 1310 kW
	20158562	20158564
STEEL PRO POWER 114-2 V	•	
STEEL PRO POWER 140-2 V	•	
STEEL PRO POWER 180-2 V	•	
STEEL PRO POWER 230-2 V	•	
STEEL PRO POWER 270-2 V	•	
STEEL PRO POWER 300-3 V	•	
STEEL PRO POWER 345-3 V	•	
STEEL PRO POWER 405-3 V	•	
STEEL PRO POWER 460-4 V	•	
STEEL PRO POWER 540-4 V		•
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	box			With tech	nical bo	х
			Left/rig instal	tht side				side Ilation		t side lation
	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 nominal or maximum boiler flow operation ( $\Delta T = 10$ °C average between primary and secondary)

Description						Plate h	neat ex	change	er ∆Tml	= 10 °(					
70°C 70°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 nominal or maximum boiler flow operation ( $\Delta T = 7.2$ °C average between primary and secondary)

Description						Plate h	neat ex	change	r ∆Tml :	= 7.2 °C					
75°C 78°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

#### Matching table of hydraulic accessories for heat exchanger installation in relation to the unit model

Description	Withou	ıt techni	cal box	With technical box						
				Left side installation			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.

PRODUCT CATALOGUE

#### Open chamber boiler configuration

Selection table	Exhaust flue side	Technical box side
	Right	Right
Table A	Left	Left
Callantana mat managani	Left	Right
Collectors not necessary	Right	Left

#### Room sealed boiler configuration

Selection table	Exhaust flue side	Air suction side	Technical box side		
T-bl- A	Right	Right	Right		
Table A	Left	Left	Left		
	Left	Right	Right		
	Left	Right	Left		
Table B	Right	Left	Right		
	Right	Left	Left		
	Left	Left	Right		
Collectors not necessary	Right	Right	Left		

#### Left side configuration



#### Right side configuration



#### Table A

Code and number of the air/fume manifold		nical box (only "V"			fo	Techni r hydrauli		ator		er					
Chamber type	0pen c	hamber	Room	sealed	0pen c	hamber	Room	sealed	0р	en cham	ber	Ro	om seal	aled	
	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 (*)															
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 (*)															
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 •			(**)	

NOTE: to be used only if the fume outlet side is the same as the hydraulic outlet side.

(\*) Models not predisposed for the exhaust fumes from the technical box side, but only from 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.

#### Table B

Code and number of the air/fume manifold		nical box (only "V"			Tech	nnical box sepa	for hyd rator	raulic		Technical box for heat exchanger					
Chamber type	Open c	hamber	Room	sealed	Open c	hamber	Room	sealed	0р	Open chamber R			Room sealed		
	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 (*)															
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 (*)															
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 •	

#### 7. AUXILIARY ACCESSORIES FOR OUTDOOR INSTALLATION

Description	Code
Kit IPX5D display coverage	20146843
Kit IPX5D upper coverage for outdoor installation L = 900 mm	20146841
Kit IPX5D upper coverage for outdoor installation L = 1800 mm	20146842
Outdoor insulation kit for 3" blind flanges	20146953
Outdoor insulation kit for 5" blind flanges	20146954

NOTE: to be used only in the case of outdoor installation.

#### Matching table of box + display covers selection table for outdoor installation in relation to the "P" type unit model

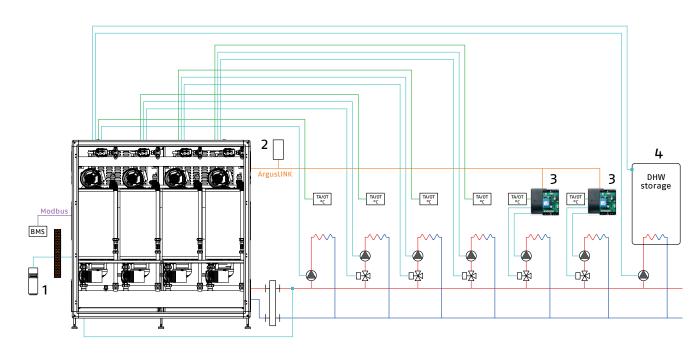
Description	Con	Configuration with technical box for hydraulic separator							Configuration with technical box for plate heat exchanger				
	20146841	20146842	20146843	20146953	20146954	20146841	20146842	20146843	20146953	20146954			
STEEL PRO POWER 114-2 P	2x ●		1x •	1x •		1x •	1x •	1x •	1x •				
STEEL 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	1x •	2x •	2x •		1x •		3x •	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 •			

#### Matching table of box + display covers selection table for outdoor installation in relation to the "V" type unit model

Description	Tech			aulic sepa for pump	arator	Techr		for plate iical box f		hanger
	20146841	20146842	20146843	20146953	20146954	20146841	20146842	20146843	20146953	20146954
STEEL PRO POWER 114-2 V	3x <b>●</b>		1x •	1x •		2x®	1x •	1x •	1x •	
STEEL PRO POWER 140-2 V	3x ●		1x •	1x •		2x•	1x •	1x •	1x •	
STEEL PRO POWER 180-2 V	3x <b>●</b>		1x •	1x •		2x®	1x •	1x •	1x •	
STEEL PRO POWER 230-2 V	3x ●		1x •	1x •		2x•	1x •	1x •	1x •	
STEEL PRO POWER 270-2 V	3x ●		1x •		1x •	2x•	1x •	1x •		1x •
STEEL PRO POWER 300-3 V	2x•	1x •	1x •	1x •		1x •	2x®	1x •	1x •	
STEEL PRO POWER 345-3 V	2x®	1x •	1x •	1x •		1x •	2x•	1x •	1x •	
STEEL PRO POWER 405-3 V	2x•	1x •	1x •		1x •	1x •	2x•	1x •		1x •
STEEL PRO POWER 460-4 V	2x®	1x •	1x •	1x •		1x •	2x•	1x •	1x •	
STEEL PRO POWER 540-4 V	2x•	1x •	1x •		1x •	1x •	2x®	1x •		1x •
STEEL PRO POWER SYSTEM 675	3x ●	1x •	2x•		1x •	2x•	2x•	2x•		1x •
STEEL PRO POWER SYSTEM 810	2x•	2x®	2x®		1x •	1x •	3x •	2x•		1x •
STEEL PRO POWER SYSTEM 945	2x•	2x•	2x•		1x •	1x •	3x •	2x•		1x •
STEEL PRO POWER SYSTEM 1080	2x®	2x•	2x•		1x •	1x •	3x •	2x•		1x •
STEEL PRO POWER SYSTEM 1215	3x ●	2x•	3x •		1x •	2x•	3x •	3x •		1x •
STEEL PRO POWER SYSTEM 1350	3x <b>●</b>	2x®	3x •		1x •	2x•	3x •	3x •		1x •

#### **8. SECONDARY CIRCUIT MANAGEMENT ACCESSORIES**

Description	Code
External probe	20132778
Probe for DHW cylinder/secondary circuit	4030036
Electronic management kit for single direct or additional mixed zone (max 16)	20130811



- 1. External probe
- 2. Interface kit for PC
- 3. Electronic management kit for single direct or additional mixed zone
- 4. Cylinder probe

#### 9. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION

Description	Notes	Code
Condensate neutralizer N2 up to 450 kW		4031810
Condensate neutralizer N3 from 450 to 1500 kW	(D)	4031812
Condensate neutralizer HN2 up to 270 kW	(1)	4031811
Condensate neutralizer HN3 from 270 to 750 kW	(D)(1)	4031813

Availability of material at our warehouse: 30 days working from the date of validation of the order. Equipped with condensate pump.

#### 10. COMPLEMENTS FOR MAINTENANCE AND SERVICE

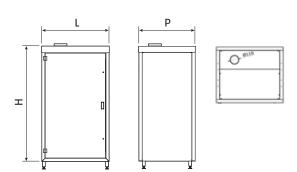
Description	Code
Interface kit for PC	20132407

**TERMINAL UNITS** 



Condensing floor-standing boilers for indoor installation

#### Condexa Pro3 115 IN All-Inside WHILE STOCKS LAST







- In conformity with Directive 2009/125/EC
- Stand-alone condensing floor standing boiler 115 kW with pre-assembled hydronic header and multi-zones kit
- Low NOx Class 5 performance (UNI EN 297), the best European category in ecological terms, helping to safeguard the environment
- Compact dimensions
- · Ready for installation

Description	Н	L	Р	Con	Net		
	mm	mm	mm	M Ø	R Ø	G Ø	weight kg
Condexa Pro3 IN ALL-INSIDE	1590	900	750	DN50	DN50	DN 25	140

- (\*) M = flow
  - R = return
  - G = gas

Condexa Pro3 IN All-Inside is a floor-standing condensing boiler specific for indoor installation. This compact boiler is ready for installation and consists of: boiler unit, low energy modulating pump, hydraulic separator, INAIL hydraulic manifold with safety devices and flues collector.

Heat-generator also includes: system drain tap, exchangers drain tap, gas tap, condensate drain collector, safety valve, air vent, external probe, high and low temperature probes, domestic water probe and LPG conversion kit.

Each unit contains an innovative patented heat-exchanger (115 kW) made of two pipes working in parallel: an internal stainlesssteel pentagonal pipe and an outer corrugated bi-metallic (copper-stainless steel) pipe, ensuring a wide exchange surface, the highest resistance to corrosion and the possibility to operate with high DT.

The electronic includes thermoregulation and the possibility to manage a direct zone, a mixed zone and a DHW tank through specific kits available as accessories. The optimized combustion management and the high modulation ratio (1:5) ensure high efficiency and low running costs, while reducing polluting emissions to a minimum (Class 5 of the UNI EN 297 standard).

- The frost protection and anti-blocking function allow the boiler to operate with all weather conditions
- High flexibility of installation: possibility of managing one direct zone, one mixed zone and a DHW tank through the electronic board of the master boiler. Specific accessories are available to control more mixed zones
- Maximum operating pressure 6 bar
- Wide range of accessories to ensure an easy, fast and complete installation
- The heat-generator includes all INAIL safety kit accessories.

#### **TECHNICAL DATA**

Description	0utput 80°/60° max kW	Output 50°/30° max kW	Input min - max kW	Efficiency ref. NHV (80°/60°) %	ref. NHV ref. NHV		Code
Condexa Pro3 IN ALL-INSIDE	113,4	124,9	23,0-115,0	98,6	108,6	109	20061941

#### **ACCESSORIES**

Description	Notes	Code		
ELECTRICAL ACCESSORIES				
Kit interfaccia PC		20132407		
Remote control panel		4030072		
Zone master kit	(1)	20016110		
HYDRAULIC ACCESSORIES				
DHW tank kit (with low energy pump and fittings)		20069667		
High temperature circuit kit (with low energy pump and fittings)				
Installation connection kit: installation connection for additional external zone		4030067		
Kit neutralizzatore HN2 up to 270 kW		4031811		
Kit neutralizzatore N2 up to 450 kW		4031810		
Low temperature circuit kit (with probe, low energy pump, mixing valve and fittings)		20069666		

<sup>(1)</sup> To be matched with remote control panel

WATER-HEATERS

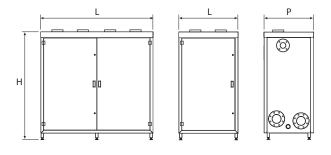
**RIELLO** 

Modular condensing floor-standing boilers for indoor installation

## Condexa Pro3 IN

WHILE STOCKS LAST







- In conformity with Directive 2009/125/EC
- Modular condensing boilers for commercial applications for indoor installation (IPX4D) composed of painted box, modular condensing boilers and accessories
- Clapet built-in

Description	Н	L	Р	Connections (*)		ıs (*)	Net
	mm	mm	mm	M Ø	R Ø	G Ø	weight kg
Condexa PRO3 230 IN C A	1590	900	750	125	125	80	270
Condexa PR03 345 IN C A	1590	1700	750	125	125	80	380
Condexa PR03 460 IN C A	1590	1700	750	125	125	80	450
Condexa PRO3 230 IN C 2VIE	1590	900	750	125	125	80	270
Condexa PRO3 345 IN C 2VIE	1590	1700	750	125	125	80	380
Condexa PRO3 460 IN C 2VIE	1590	1700	750	125	125	80	450

- (\*) M = flow
  - R = return
  - G = gas

In order to achieve the maximum energy efficiency in a space-saving solution, Riello offers the new condensing system CONDEXA PRO3, ready to install, composed of:

- painted boxes containing 115 kW thermal units, flow and return hydraulic manifolds, high efficiency pump for each single thermal unit; gaskets and connecting screws
- hydraulic header/separator.

Each unit contains a patented heat-exchanger made of a stainless-steel pentagonal pipe and a corrugated bi-metallic pipe, ensuring a high exchange surface, resistance to corrosion and possibility to operate with high  $\Delta T$ .

The electronic includes thermoregulation, the management of the thermal modules cascade and the possibility to manage a direct zone, a mixed zone and a DHW tank.

By means of specific accessories it is possible to add up to 16 mixed zones.

The optimized combustion management and the high modulation ratios, up to 1:50 for the version with 10 thermal units, ensure high efficiency while reducing polluting emissions to a minimum (Class 5 of the UNI EN 297 standard).

- The modularity of the system ensures highest reliability: even in case of a fault or maintenance on one boiler unit, the operation of the whole system is not affected
- Maximum operating pressure: 6 bar
- A wide range of accessories is available to ensure an easy, fast and complete installation.

**HEAT PUMPS** 

#### **TECHNICAL DATA**

Description	Output 80°/60° max kW	0utput 50°/30° max kW	Input min - max kW	Efficiency ref. NHV (80°/60°) %	Efficiency ref. NHV (50°/30°) %	Efficiency at 30% ref. NHV	Code
INDOOR BOXES VERSIONS WITH LOW EN	IERGY PUMP (EE	I<0,23)					
Condexa PRO3 230 IN C A	226,8	249,8	23 - 230	98,6	108,6	109	20077277
Condexa PRO3 345 IN C A	340,2	374,7	23 - 345	98,6	108,6	109	20077278
Condexa PRO3 460 IN C A	453,6	499,6	23 - 460	98,6	108,6	109	20077282
INDOOR BOXES VERSIONS WITH 2-WAY	S VALVE						
Condexa PRO3 230 IN C 2VIE	226,8	249,8	23 - 230	98,6	108,6	109	20072934
Condexa PRO3 345 IN C 2VIE	340,2	374,7	23 - 345	98,6	108,6	109	20072940
Condexa PRO3 460 IN C 2VIE	453,6	499,6	23 - 460	98,6	108,6	109	20072941

#### **ELECTRONIC CONTROL FOR CASCADE MANAGEMENT**

Description	Notes	Code
Master board (manages the thermal modules cascade; contains blind flanges kit and external probe)	(1)	20058810

<sup>(1)</sup> It is compulsory to order a master board for each thermal modules cascade.

#### **ACCESSORIES**

Description	Notes	Code
ELECTRICAL ACCESSORIES		
Master board (manages the thermal modules cascade; contains blind flanges kit and external probe)		20058810
Remote control panel		4030072
Zone master kit	(3)	20016110
FLUES AND INTAKE AIR		
Condensate drain kit Ø 200		20058866
Flues collector 1x110 - 1x200 (for 2-engines box purchase 2 pcs)		20069771
Flues collector 2x110 - 1x200		20083557
Flues collector 3x110 - 1x200		20069769
Flues collector 4x110 - 1x200		20069767
HYDRAULIC ACCESSORIES		
5" through-flanges kit		20082191
HN2 neutralisation kit up to 270 kW		4031811
HN3 neutraliser kit from 270 to 750 kW		4031813
N2 neutralisation kit up to 450 kW		4031810
N3 neutraliser kit from 450 to 1500 kW		4031812
Hydraulic separator kit 10" -up to 1120 kW		20069074
Hydraulic separator kit 10"-up to 580 kW		20069073
SAFETY ACCESSORIES		
Gas safety cut-off valve kit up to 580 kW		20061638
Additional safety devices Condexa Pro3 (it contains: temperature gauge, pressure gauge, pressure switch and connection plug with valve)	(2)	20061644
Left primary kit (fittings and additional safety devices)	(1)	20069072
Right primary kit (fittings and additional safety devices)	(1)	20069075
Fuel shut-off valve (VIC) - ØG.3" (flanged DN80)		20061640

Without safeties and gas safety cut-off valve Without safety valve To be matched with control remote panel

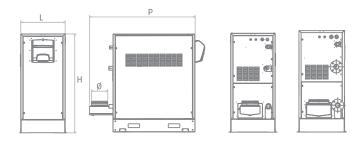
WATER-HEATERS

## RIELLO

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	H mm	L mm	P mm	Ø mm	Flow/Return connection	Gas connection	Weight (empty)
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

**HEAT PUMPS** 

#### **TECHNICAL DATA**

Description	Output 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

#### **ACCESSORIES**

Description	Notes	Code
ELECTRICAL ACCESSORIES		
Interface kit (allows the communication between Alu Pro Power and RIELLOtech: includes OCI interface + wiring)		20021674
HYDRAULIC ACCESSORIES		
HN2 neutralisation kit up to 270 kW	(1)	4031811
HN3 neutraliser kit from 270 to 750 kW		4031813
N2 neutralisation kit up to 450 kW		4031810
N3 neutraliser kit from 450 to 1500 kW		4031812
Domestic water connection kit		20022521
Secondary circulator kit 115-150-225-300 (includes fittings + electronic circulator)		20021896
Secondary circulator kit 349-375-450-525-600 (includes fittings + electronic circulator)		20021897
SAFETY ACCESSORIES		
Indoor primary kit 115-150-225-300 (includes: couplings, ISPESL manifold with safety devices, electronic circulator)		20024667
Indoor primary kit 349-375 (includes: couplings, ISPESL manifold with safety devices, electronic circulator)		20024668
Indoor primary kit 450-525 (includes: fittings, ISPESL manifold with safety devices, electronic circulator)		20024669
Indoor primary kit 600 (includes: couplings, ISPESL manifold with safety devices, electronic circulator)		20035441
Indoor primary ring kit 115-150-225-300 (includes: couplings, hydraulic compensator, ISPESL manifold with safety devices, electronic circulator)		20021890
Indoor primary ring kit 349–375 (includes: couplings, hydraulic compensator, ISPESL manifold with safety devices, electronic circulator)		20021891
Indoor primary ring kit 450-525 (includes: couplings, hydraulic compensator, ISPESL manifold with safety devices, electronic circulator)		20021892
Indoor primary ring kit 600 (includes: couplings, hydraulic compensator, ISPESL manifold with safety devices, electronic circulator)		20035442

<sup>(1)</sup> Equipped with extraction pump

#### **POSSIBLE SYSTEM COMPOSITIONS**

Drawing	Q.ty	Code	Description
	1	20010103	The standard electronics manages two circulators:  - Electronic primary  - Storage cylinder  NTC storage cylinder probe (10 k ohm)
			The standard electronics manages two circulators:  - Electronic primary  - Direct zone

#### SOLUTION WITH CONTROL PANEL





Drawing	Q.ty	Code	Description
	1 1 1 1 1	20021674 20010903 20155028 20010906 20008753 20010068 20010103	, ,
	1 1 1 2 1	20008753	Communication kit (includes OCI + wiring) Clima Top Cronoriello RC3 Acc. kit or else Clima Display NTC 0-ring sensor (10 k ohm) NTC immersion probe (10 k ohm) NTC storage cylinder probe (10 k ohm)
Fino a 8 macchine	1-8 1 1 1 1	20021674 20010903 20155028 20010906 20008753 20010068 20010103	Communication kit (includes OCI + cabling) Clima Comfort Cronoriello RC3 Acc. kit or else Clima Display NTC 0-ring sensor (10 k ohm) NTC immersion probe (10 k ohm) NTC storage cylinder probe (10 k ohm)
	1 1 1 1 1 1 2	20021674 20010902 20155028 20010906 20008753 20010068 4031913 20010103	Communication kit (includes OCI + cabling) Clima Top Cronoriello RC3 Acc. kit or else Clima Display NTC 0-ring sensor (10 k ohm) NTC immersion probe (10 k ohm) NTC solar immersion probe (10 k ohm) NTC storage cylinder probe (10 k ohm)

#### WALL MOUNTED SOLUTION

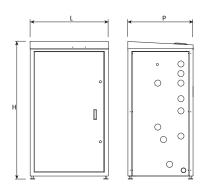


Drawing	Q.ty	Code	Description
	1 1 1 1	20010103	Communication kit (includes OCI + wiring) RIELLOtech Clima Comfort NTC O-ring sensor (10 k ohm) NTC storage cylinder probe (10 k ohm) Wall installation kit
	1 1 2 1 1	20021674 4031070 20008753 20010103 20010056	Communication kit (includes OCI + wiring) Riellotech Clima Top NTC O-ring sensor (10 k ohm) NTC storage cylinder probe (10 k ohm) Wall installation kit
Fino a 8 macchine	1-8 1 1 1 1	20021674 4031069 20008753 20010103 20010056	Communication kit (includes OCI + cabling) RIELLOtech Clima Comfort NTC O-ring sensor (10 k ohm) NTC storage cylinder probe (10 k ohm) Wall installation kit
	1 1 1 1 2 1	20021674 4031070 20008753 4031913 20010103 20010056	Communication kit (includes OCI + wiring) Riellotech Clima Top NTC 0-ring sensor (10 k ohm) NTC solar immersion probe (10 k ohm) NTC storage cylinder probe (10 k ohm) Wall installation kit



Condensing floor-standing boilers for outdoor installation

### Condexa Pro3 115 EXT All-Inside WHILE STOCKS LAST





- In conformity with Directive 2009/125/EC
- Stand-alone condensing floor standing boiler 115 kW with pre-assembled hydronic header and multi-zones kit
- Low NOx Class 5 performance (UNI EN 297), the best European category in ecological terms, helping to safeguard the environment
- Compact dimensions
- Ready for installation

Description	H mm	L mm	P mm	Conr M Ø	R Ø	ns (*) G Ø	Net weight kg	
Condexa PRO3 115 EXT All-Inside	1640	900	750	2"	2"	1"	140	

(\*) M = flow R = return

G = gas

Condexa Pro3 115 EXT All-Inside is a floor-standing condensing boiler specific for outdoor installation, stainless-steel box. This compact boiler is ready for installation and consists of: boiler unit, low energy modulating pump, hydraulic separator, INAIL hydraulic manifold with safety devices and flues collector.

Heat-generator also includes: system drain tap, exchangers drain tap, gas tap, condensate drain collector, safety valve, air vent, external probe, high and low temperature probes, domestic water probe and LPG conversion kit.

Each unit contains an innovative patented heat-exchanger (115 kW) made of two pipes working in parallel: an internal stainlesssteel pentagonal pipe and an outer corrugated bi-metallic (copper-stainless steel) pipe, ensuring a wide exchange surface, the highest resistance to corrosion and the possibility to operate with high  $\Delta T$ .

The electronic includes thermoregulation and the possibility to manage a direct zone, a mixed zone and a DHW tank through specific kits available as accessories.

The optimized combustion management and the high modulation ratio (1:5) ensure high efficiency and low running costs, while reducing polluting emissions to a minimum (Class 5 of the UNI EN 297 standard).

- The frost protection and anti-blocking function allow the boiler to operate with all weather conditions
- High flexibility of installation: possibility of managing one direct zone, one mixed zone and a DHW tank through the electronic board of the master boiler. Specific accessories are available to control more mixed zones
- Maximum operating pressure 6 bar
- Wide range of accessories to ensure an easy, fast and complete installation
- The heat-generator includes all INAIL safety kit accessories.

#### **TECHNICAL DATA**

Description	Output 80°/60° max kW	0utput 50°/30° max kW	Input min-max kW	Efficiency ref. NHV (80°/60°) %	Efficiency ref. NHV (50°/30°) %	Efficiency at load 30% ref. NHV %	Code
Condexa PRO3 115 EXT All-Inside	113,4	124,9	23 - 115	98,6	108,6	109	20061942

#### **ACCESSORIES**

Description	Notes	Code
ELECTRICAL ACCESSORIES		
Remote control panel		4030072
Zone master kit	(1)	20016110
HYDRAULIC ACCESSORIES		
DHW tank kit (with low energy pump and fittings)		20069667
High temperature circuit kit (with low energy pump and fittings)		20069664
Installation connection kit: installation connection for additional external zone		4030067
Kit neutralizzatore HN2 up to 270 kW		4031811
Kit neutralizzatore N2 up to 450 kW		4031810
Low temperature circuit kit (with probe, low energy pump, mixing valve and fittings)		20069666

<sup>(1)</sup> To be matched with remote control panel

WATER-HEATERS

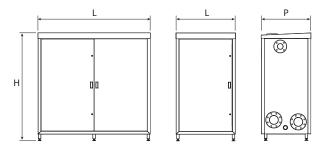
**TERMINAL UNITS** 

Modular condensing floor-standing boilers for outdoor installation

## Condexa Pro3 EXT

WHILE STOCKS LAST







- In conformity with Directive 2009/125/EC
- Modular condensing boilers for commercial applications for outdoor installation (IPX4D) composed of stainlesssteel box, modular condensing boilers and accessories
- Clapet built-in

Description		L mm	P mm	Conr	ıs (*)	Net weight	
	mm			M Ø	R Ø	G Ø	kg
Condexa PRO3 230 EXT C A	1640	900	750	125	125	80	270
Condexa PRO3 345 EXT C A	1640	1700	750	125	125	80	380
Condexa PRO3 460 EXT C A	1640	1700	750	125	125	80	450
Condexa PRO3 230 EXT C 2VIE	1640	900	750	125	125	80	270
Condexa PRO3 345 EXT C 2VIE	1640	1700	750	125	125	80	380
Condexa PRO3 460 EXT C 2VIE	1640	1700	750	125	125	80	450

- (\*) M = flow
  - R = return
  - G = gas

In order to achieve the maximum energy efficiency in a space-saving solution, Riello offers the new condensing system CONDEXA PRO3 EXT, ready to install, composed of:

- stainless-steel boxes containing 115 kW thermal units, flow and return hydraulic manifolds, high efficiency pump for each single thermal unit
- stainless-steel boxes with hydraulic header/separator.

Each unit contains a patented heat-exchanger made of a stainless-steel pentagonal pipe and a corrugated bi-metallic pipe, ensuring a high exchange surface, resistance to corrosion and possibility to operate with high  $\Delta T$ .

The electronic includes thermoregulation, the management of the thermal modules cascade and the possibility to manage a direct zone, a mixed zone and a DHW tank.

By means of specific accessories it is possible to add up to 16 mixed zones.

The optimized combustion management and the high modulation ratios, up to 1:50 for the version with 10 thermal units, ensure high efficiency while reducing polluting emissions to a minimum (Class 5 of the UNI EN 297 standard).

- The modularity of the system ensures highest reliability: even in case of a fault or maintenance on one boiler unit, the operation of the whole system is not affected
- The frost protection and anti-block function allow the boiler to operate in all weather conditions
- Maximum operating pressure: 6 bar
- A wide range of accessories is available to ensure an easy, fast and complete installation.

#### **TECHNICAL DATA**

Description	Output 80°/60° max kW	0utput 50°/30° max kW	Input min-max kW	Efficiency ref. NHV (80°/60°) %	Efficiency ref. NHV (50°/30°) %	Efficiency at 30% ref. NHV	Code
OUTOOR BOXES VERSIONS WITH LOW ENER	GY PUMP (EEI<	:0,23)					
Condexa PRO3 230 EXT C A	226,8	249,8	23 - 230	98,6	108,6	109	20077283
Condexa PRO3 345 EXT C A	340,2	374,7	23 - 345	23 - 345 98,6		109	20077284
Condexa PRO3 460 EXT C A	453,6	499,6	23 - 460	98,6	108,6	109	20077285
OUTOOR BOXES VERSIONS WITH 2-WAYS VA	ALVE						
Condexa PRO3 230 EXT C 2VIE	226,8	249,8	23 - 230	98,6	108,6	109	20072942
Condexa PRO3 345 EXT C 2VIE	340,2	374,7	23 - 345	98,6 108,6 109		109	20072943
Condexa PR03 460 EXT C 2VIE	453,6	499,6	23 - 460	98,6	108,6	109	20072944

#### **ELECTRONIC CONTROL FOR CASCADE MANAGEMENT**

Description	Notes	Code
Master board (manages the thermal modules cascade; contains blind flanges kit and external probe)		20058810

<sup>(1)</sup> It is compulsory to order a master board for each thermal modules cascade.

#### **ACCESSORIES**

Description	Notes	Code
ELECTRICAL ACCESSORIES		
Remote control panel		4030072
Zone master kit	(1)	20016110
FLUES AND INTAKE AIR		
90° bend kit DN110 (stainless-steel)		20060821
Flue extension kit DN110 L= 1000mm (stainless-steel)		20060820
Flue extension kit DN110 L= 500mm (stainless-steel)		20060819
Flue terminal kit (stainless-steel)		20060817
HYDRAULIC ACCESSORIES		
Hydraulic box kit with accessories up to 1150 kW – left		20060830
Hydraulic box kit with accessories up to 1150 kW - right		20060829
Hydraulic box kit with accessories up to 580 kW - left		20060828
Hydraulic box kit with accessories up to 580 kW - right		20060827
5" through-flanges kit		20082191
HN2 neutralisation kit up to 270 kW		4031811
HN3 neutraliser kit from 270 to 750 kW		4031813
N2 neutralisation kit up to 450 kW		4031810
N3 neutraliser kit from 450 to 1500 kW		4031812
MECHANICAL ACCESSORIES		
Stainless-steel box (L=1700 mm - 2 doors)		20067020
Stainless-steel box (L=900 mm - 1 door)		20067019
SAFETY ACCESSORIES		
Gas safety cut-off valve kit up to 580 kW		20061638
Additional safety devices Condexa Pro3 (it contains: temperature gauge, pressure gauge, pressure switch and connection plug with valve)	(2)	20061644
Fuel shut-off valve (VIC) - ØG.3" (flanged DN80)		20061640

To be matched with remote control panel Without safety valve

## CONDENSING FLOOR-STANDING BOILERS

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# 

#### 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)\*\*

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STAINLESS STEEL

#### TAU N

TAU 115 N (80-112,1 kW)
TAU 150 N (108,2-147,8 kW)
TAU 210 N (147,2-207,3 kW)
TAU 270 N (205,7-269,9 kW)
TAU 350 N (265,6-346,7 kW)
TAU 450 N (339,5-445,2 kW)
TAU 800 N (437,5-593,6 kW)
TAU 800 N (583-791,2 kW)
TAU 1000 N (777-989,4 kW)
TAU 1250 N (971-1236,7 kW)
TAU 1450 N (1213,5-1434,6 kW)

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#### TAU N OIL PRO

TAU 115 N OIL PRO (80-112,1 kW)\*\*
TAU 150 N OIL PRO (108,2-146,3 kW)\*\*
TAU 210 N OIL PRO (147,5-205,2 kW)\*\*
TAU 270 N OIL PRO (207,3-265,1 kW)\*\*
TAU 350 N OIL PRO (266,5-344,1 kW)\*\*

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2019 EDITION

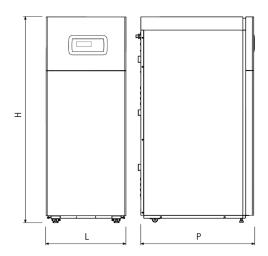
<sup>\*\*</sup> Output min-max at 80°/60 °C

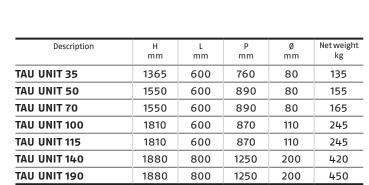
WATER-HEATERS

**TERMINAL UNITS** 

## RIELLO

Floor standing gas condensing boilers





## Tau Unit





- Complies with Regulation (EU) 2016/426
- Gas condensing boilers with a high water content titanium stabilised stainless steel body (AISI 316 T. + AISI 444) and a low pollutant emission (Class 6 according to UNI EN 15502) modulating premix burner
- In combination with a RIELLO heat exchanger, the boiler body has the benefit of the Conventional Warranty for up to 6 years

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)
- Maximum operating pressure 5 bar
- Easy to maintain because all the internal components are fully accessible
- Smaller overall dimensions.

Description		Output kW	ı	U	Iseful efficien	су	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	Α	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	А	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**

2019 EDITION

Description	Notes	Code
COMBUSTION ACCESSORIES		
LPG transformation kit (TAU UNIT 35)		20145150
LPG transformation kit (TAU UNIT 50)		20144699
LPG transformation kit (TAU UNIT 70)		20144700
LPG transformation kit (TAU UNIT 100)		20144703
ELECTRICAL ACCESSORIES		
Electronic kit for managing additional direct or mixed zone		20130811
PC interface kit		20132407
External probe		20132778
Secondary/storage cylinder probe		4030036
Flowmeter DN15		20149998
Flowmeter DN20		20149996
Flowmeter DN25		20146343
Flowmeter DN32		20146345
FLUES AND INTAKE AIR		
Type C conversion kit (TAU UNIT 35-50)		20144759
Type C conversion kit (TAU UNIT 70)		20144760
Type C conversion kit (TAU UNIT 100-115-140)		20144761
Type C conversion kit (TAU UNIT 190)		20145154
HYDRAULIC ACCESSORIES		
HN2 neutralisation kit up to 270 kW		4031811
N2 neutralisation kit up to 450 kW		4031810
Injection pump kit with high residual head for 135 kW	(4)	20125040
Injection pump kit for 90-100-115 kW	(4)	20125034
Expansion tank (TAU UNIT 35)		20154816
Circulation pump (TAU UNIT 35)		20154812
SAFETY ACCESSORIES		
Fuel shut-off valve (VIC) - ØG.1"	(2)	20009486
Fuel shut-off valve (VIC) - ØG.1" 1/2	(3)	20009482
Additional safety devices	(1)	20145155

- Includes manifold with INAIL safety devices, except for: flowmeter and fuel shut-off valves (to be ordered separately)
  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
  To be combined with the HEAT GATE plate heat exchangers, depending on the operating conditions (Dt° primary/secondary) (1) (2) (3) (4)

#### **COMBINATION OF FLOWMETERS**

Description			FOR N	OMIN	AL OR	MAXII	мим в	BOILER	OPER	RATION	I	
		∆T =	20 °C			∆T =	15 °C			∆T =	10 °C	
	DN15	DN20	DN25	DN32	DN15	DN20	DN25	DN32	DN15	DN20	DN25	DN32
	20149998	20149996	20146343	20146345	20149998	20149996	20146343	20146345	20149998	20149996	20146343	20146345
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 OUTPUT OPERATION $\Delta T$ = 10 °C

Descript	tion		Pum	os						Pla	te he	at exc	hang	ers				
						ΔT p	rima	ry/sec	onda	ry = 1	0 °C	Δ	Tprin	nary/s	secon	dary	= 7.2 °	,C
				Ō			80°			0 °C				5 °C		78 °		
	UPM3 FIEX AS	15-70 130 H6	32-105/180 STRATOS PARA	Vega RMDA 32-70 (*)	VegA RMDA 40-80 (*)	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
			20125034	20061669	20045845	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					•						•							•

<sup>(\*)</sup> To be combined with the communication module accessory code 20045865

#### COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS, FOR BOILER OUTPUT OPERATION $\Delta T$ = 15 °C

Description		Pui	nps						Plate	heat	excha	ngers	5			
					ΔТр	rimar	y/sec	onda	ry = 1	0 °C	∆Т р	rimar	y/sec	onda	ry = 7.	.2 °C
						80 °			0 °C >			85°			5 °C	•
	UPM3 FLEX AS 15-70 130 H6	₩.	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	SP 35-DN50 57 (57A) 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				•					•						•	
TAU UNIT 190				•						•						•

#### COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS, FOR BOILER OUTPUT OPERATION $\Delta T$ = 20 °C

Description		Pur	nps						Pla	te he	at exc	hang	ers				
					ΔТр	rimaı	y/sec	onda	ry = 10	o °C	Δ	T prin	nary/s	econ	dary :	= 7.2 °	C
						80°			0 °C				5 °C		75 °		
	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

POSSIBLE SYSTEM COMPOSITIONS			
Drawing	Q.ty	Code	Description
STANDARD CONFIGURATION 1 DIRECT SYSTEM  MI1  RI1  RI1  REDDA	1 1 1 1	20132778 20145155 20009486 See table	TAU UNIT 35–190 External probe Manifold kit with INAIL safety devices (50–190) Combi shut-off valve (VIC)-ØG.1"-TS=97 °C-Capillary L=5 mt (only for models 50–190) Flowmeter (only for models 50–190)
ACQUA CALDA SANITARIA ACQUA FREDDA BOLLITORE	1 1 1 1 1	20132778 4030036 20145155 20009486 See table	TAU UNIT 35–190 External probe Secondary/storage cylinder probe Manifold kit with INAIL safety devices (50–190) Combi shut-off valve (VIC)–ØG.1"-TS=97 °C-Capillary L=5 mt (only for models 50–190) Flowmeter (only for models 50–190)
ACQUA CALDA SANITARIA  ACQUA CALDA SANITARIA  ACQUA FREDDA  FREDDA  FREDDA	1 1 1 1 1 1	20132778 20145155 20009486 4030036 20130811 See table	TAU UNIT 35-190 External probe Manifold kit with INAIL safety devices (50-190) Combi shut-off valve (VIC)-ØG.1"-TS=97 °C-Capillary L=5 mt (only for models 50-190) Secondary/storage cylinder probe Electronic kit for managing additional direct or mixed zone (max 16) Flowmeter (only for models 50-190)
CONFIGURATION 1 DIRECT SYSTEM + 2 MIXED + DHW SYSTEMS  ACQUA CALDA SANITARIA ACQUA FREDDA  BOLLITORE FREDDA	1 1 1 1 2 1	20132778 20145155 20009486 4030036 20130811 See table	TAU UNIT 35–190 External probe Manifold kit with INAIL safety devices (50–190) Combi shut-off valve (VIC)–ØG.1"–TS=97 °C-Capillary L=5 mt (only for models 50–190) Secondary/storage cylinder probe Electronic kit for managing additional direct or mixed zone (max 16) Flowmeter (only for models 50–190)

Drawing	Q.ty	Code	Description
CASCADE CONFIGURATION 1 DIRECT SYSTEM + 1 MIXED + DHW SYSTEM (maximum 16 generators)  ACQUA CALDA SANITARIA  ACQUA FREDDA  BOLLITORE  ACQUA  FREDDA	2 1 2 2 1 1 2	20132778 20145155 20009486 4030036 20130811 See table	TAU UNIT 35–190 External probe Manifold kit with INAIL safety devices (50–190) Combi shut-off valve (VIC)–ØG.1"–TS=97 °C-Capillary L=5 mt (only for models 50–190) Secondary/storage cylinder probe Electronic kit for managing additional direct or mixed zone (max 16) Flowmeter (1 for each boiler; only for models 50–190)
STANDARD CONFIGURATION 1 DIRECT SYSTEM WITH PLATE HEAT EXCHANGER  MIT  RIT  RIT  REDDA	1 1 1 1 1 1	20132778 20145155 20009486 See table	TAU UNIT 35–190 External probe Manifold kit with INAIL safety devices (50–190) Combi shut-off valve (VIC)–ØG.1"–TS=97 °C-Capillary L=5 mt (only for models 50–190) Pump (see following table) Plate heat exchanger (see following table) Flowmeter (only for models 50–190)

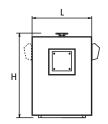
Condensing three flue gas passes stainless steel jet burners boilers

## Tau N

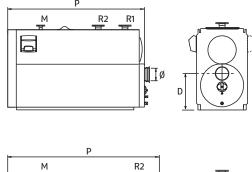
115-1250 models

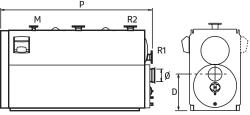






1450 model







- 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	H mm	L mm	P mm	D mm	M Ø	R1 low temp.	R2 high temp.	ø mm	Net weight kg
TAU 115 N	1315	740	1455	505	DN65	DN65	DN50	160	545
TAU 150 N	1315	740	1455	405	DN65	DN65	50	200	560
TAU 210 N	1315	740	1455	405	DN65	DN65	DN50	200	580
TAU 270 N	1450	850	1630	545	DN65	DN65	DN50	250	737
TAU 350 N	1450	850	1830	545	DN80	DN80	DN65	250	823
TAU 450 N	1630	900	2035	645	DN100	DN100	DN80	300	1185
TAU 600 N	1630	900	2235	645	DN100	DN100	DN80	300	1370
TAU 800 N	1910	1060	2560	680	DN125	DN125	DN80	350	2010
TAU 1000 N	1910	1060	2810	680	DN125	DN125	DN80	350	2245
TAU 1150 N	2030	1180	3010	720	DN150	DN150	DN100	400	2730
TAU 1250 N	2030	1180	3010	720	DN150	DN150	DN100	400	2730
TAU 1450 N	2180	1225	3080	805	DN150	DN150	DN100	450	3280

This boiler has been designed according to the principle of heat stratification: in the upper part there is high temperature water, while in the lower part, where condensation takes place, remains a large amount of cold water to ensure condensation. The generator structure has been designed to contain thermal expansions. Particular care was given to ensure thermal insulation to 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.

#### **TECHNICAL DATA**

Description		Output kW		ι	Jseful efficienc	у	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)	
TAU 115 N	112,1	123,1	115,0	97,5	107	108	20120144
TAU 150 N	146,3	159,7	150,0	97,5	106,5	108,5	4031860.0
TAU 210 N	205,2	223,6	210,0	97,7	106,5	109,3	4031861.0
TAU 270 N	265,1	290,2	270,0	98,2	107,5	109,2	4031862.0
TAU 350 N	344,1	375,2	349,0	98,3	107,5	108,5	4031863.0
TAU 450 N	442,4	481,5	450,0	98,3	107,0	108,5	4031864.0
TAU 600 N	589,8	642,0	600,0	98,3	107,0	108,5	4031865.0
TAU 800 N	786,4	860,0	800,0	98,3	107,0	108,5	4031866.0
TAU 1000 N	983,0	1070,0	1000,0	98,3	107,0	108,5	4031867.0
TAU 1150 N	1129,3	1230,5	1150,0	98,3	107,0	108,5	20136528
TAU 1250 N	1229,7	1337,5	1250,0	98,3	107,0	108,5	4031868.0
TAU 1450 N	1425,6	1551,5	1450,0	98,3	107,0	108,5	4031869.0

Maximum operating pressure 6 bar.

#### **ACCESSORIES**

Description	Code
HYDRAULIC ACCESSORIES	
HN2 neutralisation kit up to 270 kW	4031811
HN3 neutraliser kit from 270 to 750 kW	4031813
N2 neutralisation kit up to 450 kW	4031810
N3 neutraliser kit from 450 to 1500 kW	4031812
MECHANICAL ACCESSORIES	
Burner flange	4031196
Burner flange	4031187
Burner flange	4031188
Burner flange	20047680

#### RIELLOtech CONTROL PANELS (to be ordered separately)

Climatic control with RIELLOtech Clima Top and RIELLOtech Clima Comfort. Thermostatic control with RIELLOtech PRIME.

Riellotech	Installation	Boiler models	Code
RIELLOtech CLIMA TOP	Vertical	All models	4031070
RIELLOtech CLIMA COMFORT	Vertical	All models	4031069

For more details on control panels, please refer to page 239.

#### RECOMMENDED COMBINATIONS WITH "BLUE FLAME" LOW NOX BURNERS

D	Description								G	AS							
									Modul	antin	g						
		BS 3/M	RS 25/M BLU TC FS1	RS 35/M BLU TC FS1	RS 25/E BLU TC FS1	RS 35/E BLU TC FS1	RS 45/E BLU TC FS1	RS 55/M BLU TC	RS 68/M BLU TC	RS 120/M BLU TC	RS 160/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 160/E BLU
	Back-pressure in the combustion chamber (mbar)	3762350	3910510	3910610	3910710	3910810	3897332	20038484	3897406	3897606	3788006	3788006	20038491	3897432	3897632	3788032	3788032
TAU 115 N	2,2	•															
TAU 150 N	2,0	•															
TAU 210 N	2,7		•		•												
TAU 270 N	3,2		•		•												
TAU 350 N	4,6			•		•	•										
TAU 450 N	5,0							•	•				•	•			
TAU 600 N	5,5								•					•			
TAU 800 N	5,7									•					•		
TAU 1000 N	6,3									•					•		
TAU 1150 N	6,6										•					•	
TAU 1250 N	6,8										•					•	
TAU 1450 N	7,4											•					•
								4031196	4031196	4031196	20047680	4031187	4031196	4031196	4031196	20047680	4031187
								BURN	IER HO	LDER	PLATE						

NOTE: the gas burners must be completed with the gas train The control panels are available on page 239

#### RECOMMENDED COMBINATIONS WITH STANDARD "YELLOW FLAME" BURNERS

Descripti	1					G	iAS				
			Tv	vo sta	ge			Мо	dulan	ting	
		RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS 190 TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 190/M TC
	Back-pressure in the combustion chamber (mbar)	3784702	3785102	3785302	3785500	3785813	3781622	3789610	3789710	3789810	3787623
TAU 450 N	5,0	•					•				
TAU 600 N	5,5		•					•			
TAU 800 N	5,7			•					•		
TAU 1000 N	6,3			•					•		
TAU 1150 N	6,6				•					•	
TAU 1250 N	6,8				•					•	
TAU 1450 N	7,4					•					•

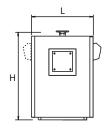
NOTE: the gas burners must be completed with the gas train The control panels are available on page 239

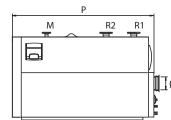
**HEAT PUMPS** 

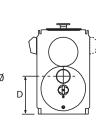
Condensing three flue gas passes oil and gas steel boilers

## 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 burners
- 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	545
TAU 150 N OIL PRO	1315	740	1455	505	65	65	50	200	545
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

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

**TERMINAL UNITS** 

#### **TECHNICAL DATA**

**RIELLO** 

Description	0utput max 80°/60° kW	Output max 40°/30° kW	Input kW	Efficiency (80°/60°) %	Efficiency (40°/30°) %	Efficiency 30% Pn (80°/60°)	Code
TAU 115 N OIL PRO	112,2	118,5	115	97,6	103	104,8	20124420
TAU 150 N OIL PRO	146,4	155,4	150	97,6	103,6	104,7	20124421
TAU 210 N OIL PRO	205,2	216,93	210	97,7	103,3	104,6	20124423
TAU 270 N OIL PRO	264,3	278,1	270	97,9	103,0	104,4	20124424
TAU 350 N OIL PRO	343,7	360,5	350	98,2	103,0	104,1	20124425

 ${\it Maximum\ operating\ pressure\ 6\ bar.}$ 

#### **ACCESSORIES**

Description		Code	
HYDRAULIC ACCESSORIES			
Neutralizer kit HN2 up to 270 kW	(1)	4031811	
Neutralizer kit HN3 from 270 to 750 kW		4031813	
Neutralizer kit N2 up to 450 kW		4031810	
MECHANICAL ACCESSORIES			
Burner flange		4031198	
Burner flange		4031395	

(1) Equipped with extraction pump

#### RIELLOtech CONTROL PANELS (to be ordered separately)

Climatic control with RIELLOtech Clima Top and RIELLOtech Clima Comfort. Thermostatic control with RIELLOtech PRIME.

Riellotech	Installation	Boiler models	Code	
RIELLOtech CLIMA TOP	Vertical	TAU N 115 - 350 OIL	4031070	
RIELLOtech CLIMA COMFORT	Vertical	TAU N 115 - 350 OIL	4031069	

For more details on control panels, please refer to page 239.

#### SUGGESTED COMBINATIONS

Description		OIL			GAS					
		Two stage			Modulanting					
		BG7.1D	RL 25 BLU	RL 35 BLU	RL 42 BLU	BS3/M	RS 25/M BLU	RS 35/M BLU	RS 25/E BLU	RS 35/E BLU
	Back-pressure in the combustion chamber (mbar)	20015696	20116089	20116062	20027567	3762350	3910510	3910610	3910710	3910810
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				•			•		•

**HEAT PUMPS** 

#### STEEL JET BURNER BOILERS



#### EU + EXTRA EU\*

# rhree Flue GAS PASSE\$

TWO 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) RTS 3S



ONLY EXTRA EU\*

RTS 3S 90 (85,1 kW)
RTS 3S 115 (108,3 kW)
RTS 3S 516 (157,4 kW)
RTS 3S 5217 (207,5 kW)
RTS 3S 255 (244,0 kW)
RTS 3S 349 (334,7 kW)
RTS 3S 1450 (1384,8 kW)

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#### X E E

#### RTQ 3S

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RTQ 91 3S (87,1 kW) RTQ 115 3S (109,7 kW) RTQ 1166 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 511 3S (487,5 kW) RTQ 639 3S (609,6 kW) RTQ 766 3S (730,8 kW) RTQ 896 3S (854,8 kW) RTQ 1100 3S (1049,4 kW) RTQ 1300 3S (1240,2 kW) RTQ 1500 3S (1526,4 kW) RTQ 2100 3S (2003,4 kW) RTQ 2400 3S (2289,6 kW) RTQ 3000 3S (2880,0 kW)

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#### 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 105 2S (154,4 kW) RTQ 203 2S (202,7 kW) RTQ 297 2S (297,0 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 235 2S (235,3 kW) RTQ 1308 2S (1308 kW)
RTQ 297 2S (297,0 kW) RTQ 1500 2S (1500 kW)
RTQ 323 2S (322,9 kW) RTQ 1700 2S (1700 kW)
RTQ 357 2S (356,7 kW) RTQ 2000 2S (2000 kW)
RTQ 418 2S (418,0 kW) RTQ 2336 2S (2335,8 kW)

RTQ 537 2S (537,1 kW) RTQ 597 2S (596,8 kW) RTQ 715 2S (715,4 kW) RTQ 837 2S (836,9 kW) RTQ 953 2S (952,7 kW) RTQ 1074 2S (1074,1 kW)

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\* 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.

2019 EDITION

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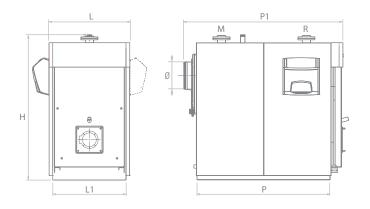


- Oil products are in conformity with Directive 2009/125/EC
- Single-piece steel boilers with three flue gas passes
- The particular geometry of the heat exchanger allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of NOx for low 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.

#### **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
Burner flanges kit	4031188
Burner flanges kit	4031196
Burner flanges kit	4031197
Burner flanges kit	4031391
Burner flanges kit	20044349
Burner flanges kit	20043900
Burner flanges kit	20047680

#### RIELLOtech CONTROL PANELS (to be ordered separately)

Climatic control with RIELLOtech Clima Top and RIELLOtech Clima Comfort. Thermostatic control with RIELLOtech PRIME.

Riellotech	Installation	Boiler models	Code
RIELLOtech CLIMA TOP	Vertical	All models	4031070
RIELLOtech CLIMA COMFORT	Vertical	All models	4031069
RIELLOtech PRIME	Vertical	All models	20010820
RIELLOtech PRIME ACS	Vertical	All models	20010437

For more details on control panels, please refer to page 239.

SOLAR THERMAL AND CYLINDERS

#### RECOMMENDED COMBINATIONS WITH "BLUE FLAME" LOW NOX BURNERS

Description					(	SAS								011				_	_
					Modu	ılatin	g					Tv	vo sta	ge		tw	o st	essiv age latir	or
		RS 55/M BLU TC	RS 68/M BLU	RS 120/M BLU	RS 160/M BLU	RS 55/E BLU TC	11000	KS 68/E BLU IC	RS 120/E BLU TC	RS 160/E BLU TC	BG 6.1 D	BG 7.1 D	RL 25 BLU	RL 35 BLU	RL 42 BLU		KL 55/M BLU	0 IQ	)
	Back-pressure in the combustion chamber (mbar)	20038484	3897406	3897606	3788006	20038491	00041.00	3897432	3897632	3788032	20015693	20015696	20116089	20116062	20027567	0	3899210	2006011	:
RTS 90 3S	1,0										•								
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													•					
RTS 448 3S	2,9	•	•			•	•								•	•			
RTS 511 3S	5,4	•	•			•	•									•			
RTS 639 3S	5,2		•					•									•	•	
RTS 850 3S	6,7			•					•										•
RTS 1160 3S	3,9			•	•				•										
RTS 1450 3S	4,6				•					•									
		4031196	4031196		20047680	4031196	4031196	4031197			20044349		4031198		4031188	4031196	4031197	4031197	4031197
								Βl	JRNEF	R HOLI	DER PI	ATE							

#### RECOMMENDED COMBINATIONS WITH STANDARD "YELLOW FLAME" BURNERS

Description						G	AS					OIL								
			Tv	vo sta	ge				dulat nanica				Two	stage			Modu	lating	1	
		RS 50	RS 70 TC	RS 100	RS 130	RS 150	RS 50/M MZ	RS 70/M TC	RS 100/M	RS 130/M	RS 150/M	RL 50	RL 70	RL 100	RL 130	RL 50/M	RL 70/M	RL 100/M	RL 130/M	
	Back-pressure in the combustion chamber (mbar)	3784702	3785102	3785302	3785502	20044636	3781622	3789610	3789710	3789810	20044638	3474632	3475032	3475232	3475432	3471602	3477012	3477212	3477412	
RTS 448 3S	2,9	•					•					•				•				
RTS 511 3S	5,4	•					•					•				•				
RTS 639 3S	5,2		•					•					•				•			
RTS 850 3S	6,7			•					•					•				•		
RTS 1160 3S	3,9				•				•	•					•			•	•	
RTS 1450 3S	4,6				• (*)	•				• (*)	•				•				•	
					20043900					20043900					20043900				20043900	
			BURNER HOLDER PLATE										BL	JRNER	HOLD	ER PLA	ATE IN	KIT		

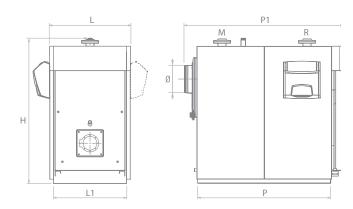
NOTE: the gas burners must be completed with the gas train. (\*) To be combined only for max 1300 kW output



Three flue gas passes steel jet burner boilers

# RTS 3S





- Single-piece steel boilers with three flue gas passes, that can be matched with jet
- 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 N0x for low polluting emissions

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.

#### **TECHNICAL DATA**

**RIELLO** 

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		20042418
RTS 115 3S	108,3	115	94,2	98,5	(1)	20031973
RTS 166 3S	157,4	166	94,8	98,5	(1)	20031974
RTS 217 3S	207,5	217	95,6	98,5	(1)	20031976
RTS 255 3S	244,0	255	95,7	98,5	(1)	20031977
RTS 349 3S	334,7	349	95,9	98,5	(1)	20031978
RTS 448 3S	427,8	448	95,5	98,5	(1)	20031979
RTS 511 3S	488,0	511	95,5	98,5	(1)	20031980
RTS 639 3S	610,2	639	95,5	98,5	(1)	20042417
RTS 850 3S	811,8	850	95,5	98,5	(1)	20044152
RTS 1160 3S	1107,8	1160	95,5	98,5	(1)	20047381
RTS 1450 3S	1384,8	1450	95,5	98,5	(1)	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) For orders please contact Sales Department.

#### **ACCESSORIES**

Description	Code
Burner flanges kit	4031188
Burner flanges kit	4031196
Burner flanges kit	4031197
Burner flanges kit	4031198
Burner flanges kit	4031391
Burner flanges kit	20043900
Burner flanges kit	20044349
Burner flanges kit	20047680

#### RIELLOtech CONTROL PANELS (to be ordered separately)

Climatic control with RIELLOtech Clima Top and RIELLOtech Clima Comfort. Thermostatic control with RIELLOtech PRIME.

Riellotech	Installation	Boiler models	Code
RIELLOtech CLIMA TOP	Vertical	All models	4031070
RIELLOtech CLIMA COMFORT	Vertical	All models	4031069
RIELLOtech PRIME	Vertical	All models	20010820
RIELLOtech PRIME ACS	Vertical	All models	20010437

For more details on control panels, please refer to page 239.

#### RECOMMENDED COMBINATIONS WITH "BLUE FLAME" LOW NOX BURNERS

Description						iAS								01					
					Modu	ılatin	g					Τv	vo sta	ge		Pr tw m	ogre o st odu	essiv age ( latin	e or g
		RS 55/M BLU TC	RS 68/M BLU	RS 120/M BLU	RS 160/M BLU	RS 55/E BLU TC	110	KS 68/E BLU IL	RS 120/E BLU TC	RS 160/E BLU TC	BG 6.1 D	BG 7.1 D	RL 25 BLU	RL 35 BLU	RL 42 BLU	1	KL 55/M BLU	RL 85/M BLU	
	Back-pressure in the combustion chamber (mbar)	20038484	3897406	3897606	3788006	20038491		3897432	3897632	3788032	20015693	20015696	20116089	20116062	20027567	0	3899210	3896011	
RTS 90 3S	1,0										•								
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													•					
RTS 448 3S	2,9	•	•			•	•								•	•			
RTS 511 3S	5,4	•	•			•	•									•			
RTS 639 3S	5,2		•					•									•	•	
RTS 850 3S	6,7			•					•										•
RTS 1160 3S	3,9			•	•				•										
RTS 1450 3S	4,6				•					•									
		4031196	4031196		20047680	4031196	4031196	4 0 3 1 1 9 7			20044349		4031198		4031188	4031196	4 0 3 1 1 9 7	4031197	4031197
								ВІ	JRNEF	RHOLI	DER PI	ATE							

#### RECOMMENDED COMBINATIONS WITH STANDARD "YELLOW FLAME" BURNERS

Description						G	AS								0	OIL				
			Τν	vo sta	ge		Modu	ulating	g mech	nanica	l cam		Two	stage		- 1	Modu	lating		
		RS 50	RS 70 TC	RS 100	RS 130	RS 150	RS 50/M MZ	RS 70/M TC	RS 100/M	RS 130/M	RS 150/M	RL 50	RL 70	RL 100	RL 130	RL 50/M	RL 70/M	RL 100/M	RL 130/M	
	Back-pressure in the combustion chamber (mbar)	3784702	3785102	3785302	3785502	20044636	3781622	3789610	3789710	3789810	20044638	3474632	3475032	3475232	3475432	3471602	3477012	3477212	3477412	
RTS 448 3S	2,9	•					•					•				•				
RTS 511 3S	5,4	•					•					•				•				
RTS 639 3S	5,2		•					•					•				•			
RTS 850 3S	6,7			•					•					•				•		
RTS 1160 3S	3,9				•				•	•					•			•	•	
RTS 1450 3S	4,6				• (*)	•				• (*)	•				•				•	
					20043900					20043900					20043900				20043900	
		BURNER HOLDER PLATE BURNER HOLDER PLATE IN KIT									KIT									

NOTE: the gas burners must be completed with the gas train. (\*) To be combined only for max 1300 kW output

ERP

LIGHT OIL

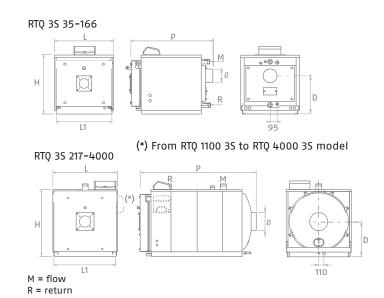
• Single-piece steel boilers

 Provided with completely wet combustion chamber with free dilation and flameinversion (square range)

Two flue gas passes steel jet burner boilers

# RTQ 3S

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.



Description	H mm	L mm	P mm	L1 mm	D mm	M	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" <sup>1</sup> / <sub>2</sub>	G2"½	200	455
RTQ 255 3S	1060	925	1580	875	525	G2" <sup>1</sup> / <sub>2</sub>	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

Maximum operating pressure 5 bar for RTQ 35 3S - RTQ 766 3S models.

#### **ACCESSORIES**

Description	Code
Burner flanges kit	3010443
Burner flanges kit	4031391
Burner flanges kit	4031395
Burner flanges kit	4031198

#### RIELLOtech CONTROL PANELS (to be ordered separately)

Climatic control with RIELLOtech Clima Top and RIELLOtech Clima Comfort. Thermostatic control with RIELLOtech PRIME.

Riellotech	Installation	Boiler models	Code
RIELLOtech CLIMA TOP	Horizontal	RTQ 3S 90-2400	4031065
RIELLOtech CLIMA TOP	Vertical	RTQ 3S 448-4000	4031070
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

For more details on control panels, please refer to page 239.

Maximum operating pressure 6 bar for RTQ 896 35 - RTQ 4000 35 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).

#### **SUGGESTED COMBINATIONS**

**RIELLO** 

Description	on							GA	S (A	.)												G	AS0	LIO (I	в)				_	
			T۱	vo s	tag	е					Мос	dula	ting							Tw	o st	age							ting al ca	
		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	GAS 9 P/M TL	GAS 10 P/M TL	RS 410/M MZ	RL 50 TL	RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 TC	RL 300/B MZ	RL 400/B MZ	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL
	Back-pressure in the combustion chamber (mbar)	3789111	3784703	3785103	3785303	3785503	3785813	3781622	3789611	3789711	3789811	3787623	3788411	3754038	3754138	20068356	3474633	3474633	3475033	3475233	3475433	3475613	3470010	3478410	3478512	3471603	3477013	3477213	3477413	20052628
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 3S	7,6													•										•						
RTQ 2700 3S	6,3													•										•						
RTQ 3000 3S	7,9														•										•					
RTQ 3500 3S	7,1															•														
RTQ 4000 3S	8,0															•														
							3010443					3010443										3010444	3010422							
														EX	TENI	DED	HEA	D												
																		4031395								4031395				
			-	BURNER FLANGE												R FL	ANG	iΕ												_

Burners must be completed by the gas train
The light oil burners must be completed with the light oil nozzles
Available also directly in an extended head version (see relative paragraph)



Two flue gas passes steel jet burner boilers

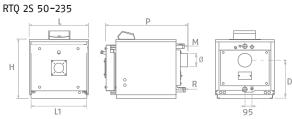
# RTQ 2S

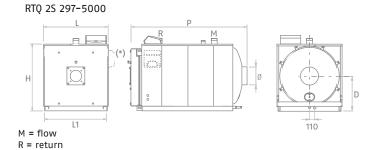






- Single-piece steel boilers, that can be matched with any fuel jet burners
- Provided with completely wet combustion chamber with free dilation and flameinversion (square range).





Description	Н	L	L1	P	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
RTQ 5000 2S	2355	2230	2180	4521	1250	650	7965

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 stove-enamelled 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**

**RIELLO** 

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.

Description	Code
Burner flanges kit	4031186
Burner flanges kit	4031188
Burner flanges kit	4031192
Burner flanges kit	4031198
Burner flanges kit	4031395
Burner flanges kit	20043900
Burner flanges kit	20047680
Burner flanges kit	20067631
Burner flanges kit	20076596
Burner flanges kit	20076618
Burner flanges kit	20076620
Burner flanges kit	20078888

#### $\label{eq:RIELLOtech CONTROL PANELS} \textbf{(to be ordered separately)}$

Climatic control with RIELLOtech Clima Top and RIELLOtech Clima Comfort. Thermostatic control with RIELLOtech PRIME.

Riellotech	Installation	Boiler models	Code
RIELLOtech CLIMA TOP	Horizontal	RTQ 2S 50-2620	4031065
RIELLOtech CLIMA TOP	Vertical	RTQ 2S 715-5000	4031070
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

For more details on control panels, please refer to page 239.

#### SUGGESTED COMBINATIONS

PRODUCT CATALOGUE

Description	GAS																			
				One s	stage							Two	tage							
	GULLIVER BS2 TL	GULLIVER BS3 TL	GULLIVER BS2D TL	GULLIVER BS3D TL	GULLIVER RS5 TL	GULLIVER RS5D TL	RS 34/1 MZ TL FS1	RS 44/1 MZ TL FS1	RS 34 MZ TL FS1	RS 44 MZ TL FS1	1. FS1	L FS1	TL FS1	TL FS1	TL FS1	TL FS1				
	GULLIV	GULLIV	GULLIV	GULLIV	GULLIV	GULLIV	RS 34/1	RS 44/7	RS 34 N	RS 44 N	RS 50 TL FS1	RS 70 TL FS1	RS 100 TL FS1	RS 130 TL FS1	RS 150 TL FS1	RS 190 TL FS1				
Back-pressure in the	20052601	20052611	3761618	3761718	20052614	20052615	3788511	3788611	3789011	3789111	3784703	3785103	3785303	3785503	20044637	20030087				
combustion chamber (mbar)	_	20	_	37	20	20	37	37	37	37	37	37	37	37	20	20				
RTQ 50 2S 0,3	•		•																	
RTQ 64 2S 0,8	•		•																	
RTQ 82 2S 0,8		•		•																
RTQ 105 2S 1,4		•		•																
RTQ 154 2S 1,6		•		•																
RTQ 203 2S 1,8					•	•	•		•											
RTQ 235 2S 2,7							•		•											
RTQ 297 2S 3,5							•	_	•											
RTQ 323 2S 3,9								•		•										
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													•							
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																-				
		4031186		4031186	4031186	4031186	4031198 (A)	4031395 (A)	4031188 (A)	4031395 (A)	4031395	4031188	4031188 (B)	20043900	20078888	20047680 (C)				
							ВЦ	RNER	FLAN	GE										

(\*) (A) (B) (C) Maximum output is 1900 kW

Burner flange 4031192 to be use for combination with RTQ 297 2S and RTQ 323 2S Burner flange 20043900 to be use for combination with RTQ 1020 2S Burner flange 20067631 to be use for combination with RTQ 2020 2S

Description						G	AS					
						Modu	lating					
	RS 34/M MZ TL FS1	RS 44/M MZ TL FS1	RS 50/M TL	RS70/M TL	RS100/M TL	RS 150/M TL FS1	RS190/M TL FS1	RS 250/M MZ TL FS1	RS 300/M C01 TC FS1	RS 500/M C01 TC FS1	RS 650/M TC C01 FS1	RS 800/M C01 TC FS1
Back-pressure in the combustion chamber (mbar)	3788711	3788811	3781623	3789611	3789711	20044639	20052616	3788411	20071010	20071545	20070525	20065144
<b>RTQ 203 2S</b> 1,8	•											
RTQ 235 2S 2,7	•											
<b>RTQ 297 2S</b> 3,5	•											
<b>RTQ 323 2S</b> 3,9		•										
RTQ 357 2S 4,1		•										
<b>RTQ 418 2S</b> 2,9		•										
<b>RTQ 467 2S</b> 3,3			•									
RTQ 537 2S 3,0				•								
<b>RTQ 597 2S</b> 5,1				•								
RTQ 715 2S 4,7												
RTQ 837 2S 8,1					•							
RTQ 920 2S 4,6					•							
RTQ 1020 2S 4,6					•							
<b>RTQ 1250 2S</b> 5,8												
RTQ 1500 2S 5,4						•						
RTQ 1700 2S 7,2							•					
RTQ 2020 2S 4,8							•(*)	•				
RTQ 2320 2S 4,2								•				
RTQ 2620 2S 6,0									•			
RTQ 2920 2S 6,3									•			
RTQ 3200 2S 7,9												
<b>RTQ 3500 2S</b> 7,9												
RTQ 4000 2S 7,7										•		
RTQ 4500 2S 8,0											•	
RTQ 5000 2S 7,9												•
	4031198 (A)	4031395 (A)	4031395	4031188	4031188 (B)	20078888	20047680 (C)	20067631	20076596	20076618	20076620	20076620
					ВІ	JRNER	FLAN	GE				

Maximum output is 1900 kW
Burner flange 4031192 to be use for combination with RTQ 297 2S and RTQ 323 2S
Burner flange 20043900 to be use for combination with RTQ 1020 2S
Burner flange 20067631 to be use for combination with RTQ 2020 2S (\*) (A) (B) (C)

Description									OIL			_	_		_		
Description	-							One o		stage							
	-		_				بر			Juge							
	12 TL	GULLIVER RG3 TL	GULLIVER RG2D TL	GULLIVER RG3D TL	GULLIVER RG4S TL	GULLIVER RG5S TL	GULLIVER RG4D TL	GULLIVER RG5D TL	RL 34/1 MZ TL FS1	FS1	FS1			_		_	_
	GULLIVER RG2 TL	R RG	R RG	R RG	R RG	R RG	R RG	R RG	MZ T	RL 34 MZ TL FS1	RL 44 MZ TL FS1	. FS1	FS1	RL 100 TL FS1	RL 130 TL FS1	RL 190 TL FS1	RL 250 TL FS1
	LLIVE	LLIVE	LLIVE	LLIVE	LLIVE	LLIVE	LLIVE	LLIVE	34/1	34 M	7 7	RL 50 TL FS1	RL 70 TL FS1	100	130 T	190	. 250
	0.0	0.0	_	9	0.0	0.0		_	R	R	R	R	R	A.	A.	R	
	619	621	20052620	622	623	625	20052624	20052626	=	1	7	33	33	33	ω, C	627	20052629
Back-pressure in the	20052619	20052621	0052	20052622	20052623	20052625	0052	0052	3470111	3470211	3470311	3474633	3475033	3475233	3475433	20052627	0052
combustion chamber (mbar)  RTQ 50 2S  0,3	- 7	7	- 2	7	7	7	7	7	m	m	m	m	m	m	m	7	7
	•																
RTQ 64 2S 0,8	(**)		•														
RTQ 82 2S 0,8		•		•													
RTQ 105 2S 1,4		•		•													
RTQ 154 2S 1,6					•		•										
RTQ 203 2S 1,8						•		•	•	•							
RTQ 235 2S 2,7									•	•							
RTQ 297 2S 3,5									•	•							
RTQ 323 2S 3,9											•						
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														•			
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																•	
RTQ 2320 2S 4,2																	•
									(A)	<b>(A)</b>				(B)	0	20047680 (C)	_
					4031186	4031186	4031186		4031198 (A)	4031198 (A)	4031192	4031395	4031188	4031188 (B)	20043900	4768	20067631
					403	403	403		403	403	403	403	403	403	200	200	200
								BURN	IER FL	ANGE							

Maximum output is 55 kW
Burner flange 4031192 to be use for combination with RTQ 297 2S and RTQ 323 2S
Burner flange 20043900 to be use for combination with RTQ 1020 2S
Burner flange 20067631 to be use for combination with RTQ 2020 2S

Description	OIL								
				MO	DULAT	ING			
	RL 28/M TL	RL 38/M TL FS1	RL 50/M TL FS1	RL 70/M TL FS1	RL 100/M TL FS1	RL 130/M TL FS1	RL 190/M TL FS1	RL 300/B MZ TC FS1	RL 400/B MZ TC FS1
Back-pressure in the combustion chamber (mbar)	3471003	3471403	3471603	3477013	3477213	3477413	20052628	3482810	3478512
<b>RTQ 50 2S</b> 0,3									
RTQ 64 2S 0,8									
RTQ 82 2S 0,8									
RTQ 105 2S 1,4									
RTQ 154 2S 1,6									
RTQ 203 2S 1,8	•								
RTQ 235 2S 2,7	•								
<b>RTQ 297 2S</b> 3,5		•							
<b>RTQ 323 2S</b> 3,9		•							
RTQ 357 2S 4,1		•							
<b>RTQ 418 2S</b> 2,9			•						
RTQ 467 2S 3,3			•						
RTQ 537 2S 3,0			•						
<b>RTQ 597 2S</b> 5,1				•					
RTQ 715 2S 4,7				•					
RTQ 837 2S 8,1					•				
RTQ 920 2S 4,6					•				
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							•		
RTQ 2320 2S 4,2									
RTQ 2620 2S 6,0								•	
RTQ 2920 2S 6,3									•
RTQ 3200 2S 7,9									•
	4031198	4031395 (A)	4031395	4031188	4031188 (B)	20043900	20047680 (C)	20076596	20076596
	BURNER FLANGE								

Burner flange 4031192 to be use for combination with RTQ 297 2S and RTQ 323 2S Burner flange 20043900 to be use for combination with RTQ 1020 2S Burner flange 20067631 to be use for combination with RTQ 2020 2S

#### **CAST IRON JET BURNER BOILERS**

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#### **ONLY EXTRA EU\***

#### **ONLY HEATING**



#### 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 (83,5 KW)

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#### 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)

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#### RTT 29 - 79

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)

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THREE FLUE GAS PASSES

#### RTT 76 - 355

RTT 76 (76 kW) RTT 195 (195 kW)
RTT 93 (93 kW) RTT 227 (227 kW)
RTT 110 (110 kW) RTT 259 (259 kW)
RTT 128 (128 kW) RTT 291 (291 kW)
RTT 145 (145 kW) RTT 323 (323 kW)
RTT 163 (163 kW) RTT 355 (355 kW)

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#### RTT 378 - 930

RTT 378 (378 kW) RTT 715 (715 kW)
RTT 448 (448 kW) RTT 773 (773 kW)
RTT 506 (506 kW) RTT 831 (831 kW)
RTT 564 (564 kW) RTT 878 (878 kW)
RTT 610 (610 kW) RTT 930 (930 kW)

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2019 EDITION

<sup>\*</sup> 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.

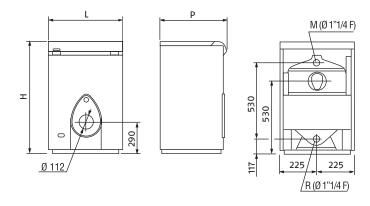
WATER-HEATERS



Three flue gas passes cast iron jet burner boilers

# Tregì 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**

PRODUCT CATALOGUE

Description	Code
Global shut-off kit	4047318

#### **SUGGESTED COMBINATIONS (\*\*\*)**

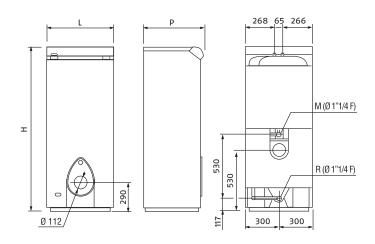
Description	OIL (*)			G	iAS		
		One s	stage		Two stage	0ne	stage
	GULLIVER RGOR	GULLIVER RG0.3	GULLIVER RG1NR	GULLIVER RG2	GULLIVER RG2KD	GULLIVER BS1	GULLIVER BS2
Back-pressure in the combustion chamber (mbar)	3736550	3735900	3736405	3737750	3738100	3761158 (**)	3761258 (**)
TREGÌ 3N 0,10	•	•				•	
TREGÌ 4N 0,17			•			•	
TREGÌ 5N 0,26			•			•	
TREGÌ 6N 0,36				•			•
TREGÌ 7N 0,42				•			•
TREGÌ 8N 0,60					•		•
TREGÌ 9N 0,23				•			
TREGÌ 10N 0,28				•			

<sup>(\*)</sup> Nozzles must be ordered separately, please contact Sales Department.
(\*\*) Low NOx: low emissions of nitrogen oxides.
(\*\*\*) N.B.: THESE COMBINATIONS ONLY HAVE AN INDICATION PURPOSE. FOR FINAL CONFIRMATION PLEASE CONTACT TECHNICAL DEPT.
NOTE: burners must be completed by the gas train.

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 stoveenamelled 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

Description	Code
Global shut-off kit	4047318

**HEAT PUMPS** 

#### **SUGGESTED COMBINATIONS (\*\*\*)**

Description			OIL (*)		GAS
		GULLIVER RGOR	GULLIVER RGO.3	GULLIVER RG1NR	GULLIVER BS1
	Back-pressure in the combustion chamber (mbar)	3736550	3735900	3736405	3761158 (**)
TREGÌ 3NK	0,10	•	•		•
TREGÌ 4NK	0,17			•	•
TREGÌ 5NK	0,26			•	•

<sup>(\*)</sup> Nozzles must be ordered separately, please contact Sales Department.

(\*\*) Low NOx: low emissions of nitrogen oxides.

(\*\*\*) N.B.: THESE COMBINATIONS ONLY HAVE AN INDICATION PURPOSE. FOR FINAL CONFIRMATION PLEASE CONTACT TECHNICAL DEPT.

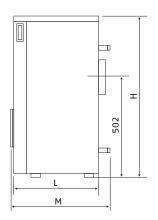
NOTE: burners must be completed by the gas train.

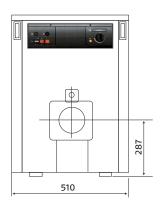


Three flue gas passes cast iron jet burner boilers

# RTT 29 - 79







- Cast-iron boilers with three flue gas
- They can be matched with oil or gas jet burner

Description	H mm	M mm	L mm	Ø mm	Net weight 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

The RTT boilers from 29 to 79 kW are forced-draught heat generators. They are formed of cast iron elements and work with gas or liquid fuel. Six different models available.

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.

#### **TECHNICAL DATA**

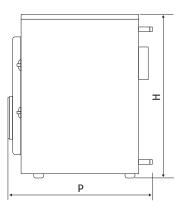
Description	Output kW	Input kW	Efficiency Pn %	Code
RTT 29	29,1	31,6	92,1	20091169
RTT 39	39,0	42,3	92,2	20091170
RTT 49	48,8	53,6	91,0	20091171
RTT 59	58,7	63,8	92,0	20091172
RTT 69	68,6	74,5	92,1	20091173
RTT 79	78,5	85,3	92,0	20091175

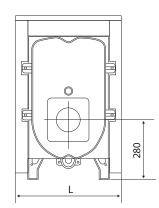
Three flue gas passes cast iron jet burner boilers

# RTT 76 - 355



PRODUCT CATALOGUE





- Cast-iron boilers with three flue gas passes
- They can be matched with oil or gas jet burner

Description	H mm	L mm	P mm	ø mm	Net weight kg
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

The RTT boilers, 76 - 355 kW, are forced draught heat generators with cast iron elements. The finned structure with three flue passes ensures optimum heat exchange, high efficiency and reduced consumption. The models from 76 to 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.

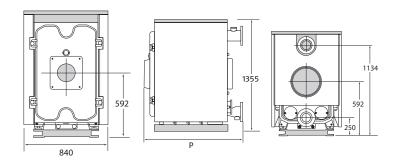
#### **TECHNICAL DATA**

Description	Output kW	Input kW	Efficiency Pn %	Code
RTT 76	76	82	92.6	20091179
RTT 93	93	101	92.1	20091181
RTT 110	110	120	91.6	20091187
RTT 128	128	138	92.7	20091189
RTT 145	145	157	92.3	20091193
RTT 163	163	177	92.0	20091302
RTT 195	195	211	92.4	20091303
RTT 227	227	246	92.3	20091304
RTT 259	259	281	92.1	20091305
RTT 291	291	316	92.1	20091306
RTT 323	323	351	92.0	20091308
RTT 355	355	385	92.2	20091309

Maximum operating pressure 6 bar.

# RTT 378 - 930





- Cast-iron boilers with three flue gas passes
- They can be matched with oil or gas jet burner

Description	H mm	L mm	P mm	ø mm	Net weight kg
RTT 378	1355	840	1300	1020	1020
RTT 448	1355	840	1460	1235	1235
RTT 506	1355	840	1620	1415	1415
RTT 564	1355	840	1780	1555	1555
RTT 610	1355	840	1940	1725	1725
RTT 663	1355	840	2100	1875	1875
RTT 715	1355	840	2260	1975	1975
RTT 773	1355	840	2420	2170	2170
RTT 831	1355	840	2580	2375	2375
RTT 878	1355	840	2740	2465	2465
RTT 930	1355	840	2900	2540	2540

The RTT boilers, 378 - 930 kW, are forced-draught heat generators with cast iron elements. The finned structure with three flue passes ensures optimum heat exchange, high efficiency and reduced consumption. The cast iron elements are supplied separately, to facilitate movement and transport.

#### **TECHNICAL DATA**

Description	Output kW	Input kW	Efficiency Pn %	Code
RTT 378	378	410	92.2	20093090
RTT 448	448	487	92.0	20091316
RTT 506	506	551	91.8	20091318
RTT 564	564	615	91.7	20091321
RTT 610	610	665	91.7	20091325
RTT 663	663	720	92.1	20091326
RTT 715	715	777	92.0	20091329
RTT 773	773	839	92.1	20091334
RTT 831	831	900	92.3	20091335
RTT 878	878	956	91.8	20091337
RTT 930	930	1013	91.8	20091339

### **CONTROL PANELS AND THERMOREGULATIONS**

6

APPLICATION		ELECTRONIC		THERM	10STATIC
	CLIMA TOP	CLIMA COMFORT	CLIMA MIX	PRIME	PRIME ACS
HORIZONTAL	•	•		•	•
VERTICAL	•	•	•		
FOR ELECTRICAL CABINET	•	•	•		
BURNER	modulating*	modulating*		one stage/ two stage (with kit code 4031067)	one stage/ two stage (with kit code 4031067)
	•	•			
CASCADE APPLICATION	immersion or clip probe	immersion or clip probe			
	•	•			
SOLAR SYSTEM	probes 2 x 20010103 1 x 4031913	probes 2 x 20010103 1 x 4031913			
	•	0			•
DHW TANK	probe 1 x 20010103	probe 1 x 20010103			probe included
DIRECT ZONE	•	•		•	•
	•	•	•		
1 <sup>st</sup> MIXED ZONE	immersion or clip probe	immersion or clip probe	immersion or clip probe		
	optional: ir	ndoor probe or remote	control RC3		
	•	•	•		
2 <sup>nd</sup> MIXED ZONE	immersion or clip probe	with kit 20102310, immersion or clip probe	with kit 20011194, immersion or clip probe		
	optional: ir	ndoor probe or remote	control RC3		
ALTERNATIVE	•	•			
SOURCE GENERATOR	for biomass: im	nmersion 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.

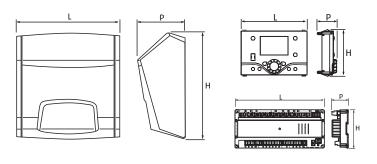
The complete compositions and the communication kits are to be checked on the specific accessories tables in the sections concerning boilers and thermal groups.

**TERMINAL UNITS** 

Control panels and thermoregulations

# **RIELLOtech Clima TOP**





• 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 TOP	360	350	165	3
RIELLOtech CLIMA TOP	360	350	165	3
CLIMA TOP	120	280	50	1
CLIMA DISPLAY	95	140	50	1

RIELLOtech Clima Top control panel is designed for complex and multi-apartment systems. It can control 1-stage burner, 2-stage burner or a modulating burner. It controls one single generator or more generators in cascade application (in case of cascade applications, it is necessary to use a RIELLOtech Clima Top for each generator, while the maximum configuration consists of 16 generators); it controls complex solar systems and the integration of different kinds of heat generators. It can manage one direct zone and two mixed and/or direct zones, with room temperature control by means of a thermostat or an indoor probe (one per zone, not included in the control panel supply). It allows an hour-programmable control of heating and DHW production.

One immersion probe and one external sensor are supplied as standard with RIELLOtech Clima Top. All RIELLOtech Clima regulating systems can be connected via BUS.

IPX4D electrical protection.

- 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, identifyable 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 specific kit
- A specific version as main control panel for boiler-room is also available (in combination with Clima Display).

#### SEE APPLICATION CHART page 246

#### **TECHNICAL DATA**

PRODUCT CATALOGUE

Description	Туре	Notes	Code
RIELLOtech CLIMA TOP	Control panel with climatic regulation - horizontal installation	(1)	4031065
RIELLOtech CLIMA TOP	Control panel with climatic regulation - vertical installation	(1)	4031070
CLIMA TOP	Climatic regulation for electrical cabinet		20010902
CLIMA DISPLAY	User interface for electrical cabinet		20010906

<sup>(1)</sup> Supplied as standard 1 immersion probe and 1 external sensor.

Description	Notes	Code
Additional mixed zone control kit (programmable expansion kit)	(1)	20011194
RIELLOtech wall-hung installation kit (to be used only for vertical installation)		20010056
Remote Control RC3 (programmable indoor probe)		20155028
Indoor probe		20012456
NTC immersion probe (10 k ohm) - 5 metres		20010068
NTC DHW-tank probe (10 k ohm) - 5 metres		20010103
Solar collector probe NTC (10 k ohm)		4031913
NTC clip probe (10 k ohm)		20008753
NTC external probe (10 k ohm)		4047947
Relais kit for modulating burner (for CLIMA TOP)	(2)	20013035

<sup>(1)</sup> It can be installed with RIELLOtech Clima TOP and MIX.(2) Supplied as standard with RIELLOtech Clima TOP (codes 4031065 and 4031070).

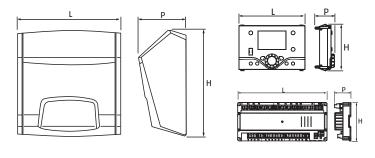
**TERMINAL UNITS** 

Control panels and thermoregulations

# **RIELLOtech Clima COMFORT**







• 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	360	350	165	3
RIELLOtech CLIMA COMFORT	360	350	165	3
CLIMA COMFORT	120	180	50	1
CLIMA DISPLAY	95	140	50	1

RIELLOtech Clima Top control panel is designed for complex and multi-apartment systems. It can control 1-stage burner, 2-stage burner or a modulating burner. It controls one single generator or more generators in cascade application (in case of cascade applications, it is necessary to use a RIELLOtech Clima Top for each generator, while the maximum configuration consists of 16 generators); it controls complex solar systems and the integration of different kinds of heat generators. It can manage one direct zone and one mixed zone as standard (plus a second mixed zone by means of a specific kit), with room temperature control by means of a thermostat or an indoor probe (one per zone, not included in the control panel supply); it allows an hour-programmable control of heating and DHW production. One immersion probe and one external sensor are supplied as standard with RIELLOtech Clima Comfort. All RIELLOtech Clima regulating systems can be connected via BUS.

IPX4D electrical protection.

- 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 specific kit
- A specific version as main control panel for boiler-room is also available (in combination with Clima Display).

#### **SEE APPLICATION CHART page 246**

#### **TECHNICAL DATA**

Description	Туре	Notes	Code
RIELLOtech CLIMA COMFORT	Control panel with climatic regulation - horizontal installation	(1)	4031064
RIELLOtech CLIMA COMFORT	Control panel with climatic regulation - vertical installation	(1)	4031069
CLIMA COMFORT	Climatic regulation for electrical cabinet		20010903
CLIMA DISPLAY	User interface for electrical cabinet		20010906

(1) Supplied as standard 1 immersion probe and 1 external sensor.

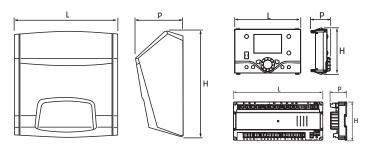
Description	Code
Programmable expansion kit (specific for Clima COMFORT)	20102310
Two stage burner management kit (to install in Riellotech Prime and Riellotech Prime ACS)	4031067
RIELLOtech wall-hung installation kit (to be used only for vertical installation)	20010056
Remote Control RC3 (programmable indoor probe)	20155028
Indoor probe	20012456
NTC immersion probe (10 k ohm) - 5 metres	20010068
NTC DHW-tank probe (10 k ohm) - 5 metres	20010103
Solar collector probe NTC (10 k ohm)	4031913
NTC clip probe (10 k ohm)	20008753
NTC external probe (10 k ohm)	4047947
Relais kit for modulating burner	20013035

**TERMINAL UNITS** 

Control panels and thermoregulations

## **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 MIX	360	350	165	3
CLIMA MIX	95	150	50	1
CLIMA DISPLAY	95	140	50	1

RIELLOtech Clima Mix is an electronic control panel that controls a mixed (or a direct) zone; it can manage one single system or the expansion of the system when connected with the already exhisting RIELLOtech Clima Top/Comfort; it can control two additional mixed (or direct) zones by means of a specific kit; room temperature control by means of a thermostat or an indoor probe (one per zone, not included in the control panel supply). It allows an hour-programmable control of heating. All RIELLOtech Clima regulating systems can be connected via BUS.

IPX4D electrical protection.

- 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 specific kit
- A specific version as main control panel for boiler-room is also available (in combination with Clima Display).

#### **SEE APPLICATION CHART page 246**

#### **TECHNICAL DATA**

Description	Туре	Code
RIELLOtech CLIMA MIX	Control panel with climatic regulation - vertical installation	20010428
CLIMA MIX	Zone regulation for electrical cabinet	20010904
CLIMA DISPLAY	User interface for electrical cabinet	20010906

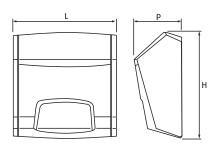
Description	Notes	Code
Additional mixed zone control kit (programmable expansion kit)	(1)	20011194
RIELLOtech wall-hung installation kit		20010056
Remote Control RC3 (programmable indoor probe)		20155028
Indoor probe		20012456
NTC immersion probe (10 k ohm) – 5 metres		20010068
NTC DHW-tank probe (10 k ohm) - 5 metres		20010103
Solar collector probe NTC (10 k ohm)		4031913
NTC clip probe (10 k ohm)		20008753
NTC external probe (10 k ohm)		4047947

<sup>(1)</sup> It can be installed with RIELLOtech clima TOP, Riellotech clima MIX, clima TOP and MIX,

Control panels and thermoregulations

# 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°.

#### **SEE APPLICATION CHART page 246**

#### TECHNICAL DATA

Description	Туре	Code
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

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)		

- (1) Two stage burner controlled by kit code 4031067.
- (2) For vertical installation turn the frontal panel by 180°.

WATER-HEATERS

#### **APPLICATION CHART FOR RIELLOtech control panels and thermoregulation**

	MODULAR BOILERS IN CASCADE	SOLAR SYSTEM	DHW STORAGE CYLINDER	DIRECT ZONE	1 <sup>st</sup> MIXED ZONE	2 <sup>nd</sup> MIXED ZONE
RIELLOtech CLIMA TOP			<b>O</b> R			
RIELLOtech CLIMA COMFORT			<b>O</b> R			With additional mixed zone control kit
RIELLOtech CLIMA MIX						With additional mixed zone control kit
RIELLOtech PRIME				-		
RIELLOtech PRIME ACS			<b>O</b> R			
COMPULSORY ACCESSORIES	1 NTC clip probe	2 NTC DHW-tank probes and 1 NTC solar collector probe	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 indoor probe or RC3 Remote Control	1 indoor probe or RC3 Remote Control

**HEAT PUMPS** 

# **FLUE OPTIONS**

2019 EDITION

#### SINGLE FLUE GAS EXHAUST SYSTEM OR DOUBLE SUCTION/DISCHARGE Ø80 mm

Drawing	Description	Material (*)	40.		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
Ā	Ø80 mm T-junction kit	PP	•	•	(2)	20132513
	Ø80 mm T-junction closure kit for condensate drain	Met	•	•	(2)	20132514

<sup>(\*)</sup> 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

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

**TERMINAL UNITS** 

#### 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
	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
	Universal tile for sloping roofs	Nylon	•	•		20132050
	Wall discharge terminal Ø80/125 mm	PP/ABS	•	•	(2)	20131098
	Element kit Ø80/125 mm connection to flue	PP	•	•	(2)	20132520

<sup>(\*)</sup> 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

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

# 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

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

<sup>(\*)</sup> PP material: Colour may change over time because of sun 3 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

**TERMINAL UNITS** 

# 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
	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		•	•	(2)	20131147
	Adaptor Ø80/Ø110 mm			•	(2)	20131238
	Double adaptor Ø110/110 mm – concentric Ø110/160 mm		•	•	(2)	20131059
	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
	Tile Ø160 mm 25-45% slope	_	•	•		20131145
	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

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

**HEAT PUMPS** 

# 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	РР	20062447
	T connection Ø160 mm with condensate drain and chimney support	PP	20063419
	T connection Ø160 mm with condensate drain	РР	20062448

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# PLASTIC FLUE SYSTEM Ø200 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Eccentric adapter Ø200-160 mm	PP	20062566
	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
<b>©</b> 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
	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
The state of the s	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
	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
(1)	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
offo	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
Q	Wall cover Ø160 mm	20062512
Q	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** 

**HOT AIR GENERATORS** 



GAS HOT AIR GENERATORS

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# **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)\*

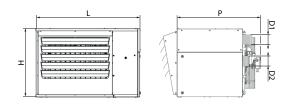
page 268

(\*) Max useful power at 80-60 °C

High efficiency indoor gas hot air generators

# **GP Condens**





- 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	80	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 safety.

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		Furnace output kW			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 270.

# **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

# **FLUE GAS EXHAUST/SUCTION LINE ACCESSORIES**

Drawing	Description	Code						
CONCENTRIC SYSTEM								
8 670	100/100 concentric on wall	20032161						
125	Fitting Ø80/100	20139281						
8 P P P P P P P P P P P P P P P P P P P	100/100 concentric on roof							
DOUBLE SYSTEM								
500	Discharge/suction pipe Ø80 x 500 mm	20139278						
142	Terminal Ø80	20139279						
142	Terminal Ø100	20139280						
176 8	Bend Ø80	20139283						
1000	Discharge/suction pipe Ø80 x 1000 mm	20139285						
9	Bend Ø80	20139287						
194 9 9	Roof terminal Ø80	20139289						
1900	Discharge/suction pipe Ø100 x 1000 mm	4155552						
500	Discharge/suction pipe Ø100 x 500 mm	4155554						
g .	Bend Ø100							
9	Bend Ø100							
194 B B B B B B B B B B B B B B B B B B B	Roof terminal Ø100							

# **INSTALLATION DIAGRAMS FLUE GAS EXHAUST/SUCTION**

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FRONT WALL PIPES																								
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GP CONDENS 30		•		•							•			•		•			•					
GP CONDENS 40		•		•							•			•		•		(	•					
GP CONDENS 50		•		•							•			•		•		•	•					
GP CONDENS 60		•		•							•			•		•		•	•					
GP CONDENS 90						•	)		•					•							•		•	1
GP CONDENS 120						•	)		•					•							•		•	
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	2013	201	201	201	415!	415!	415!	201	201	201	201	201	200	415!	415!	415!	201	201	201	201	415!	415!	415!	201
								lue	e gas exhaust/air suction concentric				n		Doub	le fl	ue ga	as ex	hau	st/a	ir			
GP CONDENS 30	•	•	•	•					•	•	•	onc	entr	IC			•	•	•	suc	tion			$\overline{}$
GP CONDENS 40	•	•	•	•					•	•	•	•	•				•	•	•	•				$\vdash$
GP CONDENS 50	•	•	•	•					•	•	•	•	•				•	•	•	•				+-
GP CONDENS 60	•	•	•	•					•	•	•	•	•				•	•	•	•				+
GP CONDENS 90					•	•	•	•	•	•			•	•	•	•					•	•	•	•
GP CONDENS 120					•	•	•	•	•	•			•	•	•	•					•	•	•	•
PIPES ON ROOF																								
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	2013	2013		2013	2013	2013	2015	5	4155	4155	4155		4155	2013	2013	2013		2013	2013	4155	4155		4155	4155
	Flue gas exhaust/air suction concentric Flue gas discharge																							
GP CONDENS 30	•	•		•	•	•	•	•							•	•		•	•					
GP CONDENS 40	•	•		•	•	•	•								•	•		•	•					
GP CONDENS 50	•	•		•	•	•	•								•	•		•	•					
GP CONDENS 60	•	•		•	•	•	•	• [							•	•		•	•					
GP CONDENS 90			$\perp$						•	•	•		•	•						•	•		•	•
GP CONDENS 120									•	•	•		•	•						•	•		•	•



**HEAT PUMPS** 

AIR	CON	١DI	ITIC	MI	NG



AIR CONDITIONERS

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# **AIR CONDITIONERS**



# AIR CONDITIONERS FOR SMALL- AND MEDIUM-SIZED ROOMS

	WALL-MOUNTED	CASSETTE	DUCTED	CEILING-FLOOR		
MONO INVERTER R32	AARIA MONO PLUS AMW  AARIA AMW 25 PLUS SET AARIA AMW 35 PLUS SET AARIA AMW 50 PLUS SET  NEW  Page 276  AARIA START  AARIA START 25 AARIA START 35 AARIA START 50 AARIA START 70  NEW  Page 281	AARIA MONO PLUS AMK  AARIA AMK 35 P SET AARIA AMK 50 P SET  NEW  page 278	AARIA MONO PLUS AMD  AARIA AMD 35 P SET AARIA AMD 50 P SET  NEW  page 280			
MONO INVERTER R410A	AARIA MONO WALL-MOUNTED  AARIA AMW 25 SET AARIA AMW 35 SET AARIA AMW 50 SET  WHILE STOCKS LAST  page 283	AARIA MONO CASSETTE  AARIA AMK 35 SET AARIA AMK 50 SET  WHILE STOCKS LAST  page 284	AARIA MONO DUCTED  AARIA AMD 35 SET AARIA AMD 50 SET  WHILE STOCKS LAST  page 285	AARIA MONO FLOOR-CEILING AARIA AMS 35 SET AARIA AMS 50 SET  WHILE STOCKS LAST  page 286		
MULTI INVERTER R32	AARIA MULTI PLUS WALL-MOUNTED AMW 20 P AMW 25 P AMW 35 P AMW 50 P NEW	AARIA MULTI PLUS CASSETTE  AMK 25 P AMK 35 P AMK 50 P  NEW  page 287	AARIA MULTI PLUS DUCTED  AMD 25 PA AMD 35 PA AMD 50 PA  NEW  page 287			
MULTI INVERTER R410A	AARIA MULTI WALL-MOUNTED  AMW 20 AMW 25 AMW 35 AMW 50  WHILE STOCKS LAST page 289	AARIA MULTI CASSETTE  AMK 25 AMK 35 AMK 50 AMK 70  WHILE STOCKS LAST  page 289	AARIA MULTI DUCTED  AMD 25 AMD 35 AMD 50 AMD 50  WHILE STOCKS LAST page 289	AARIA MULTI FLOOR-CEILING  AMS 35 AMS 50 AMS 70  WHILE STOCKS LAST page 289		

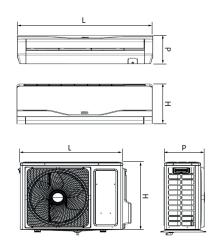
**ERP** 

# RIELLO

Wall-mounted mono inverter air conditioners

# **AARIA MONO PLUS-AMW**

NEW



- 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 °C
- AUTORESTART function in case of power failure
- Outdoor unit complete with attachment covers.

**HEAT PUMPS** 

# **TECHNICAL DATA**

Description	Output in cooling (T=+35 °C) kW	Annual consump. 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**

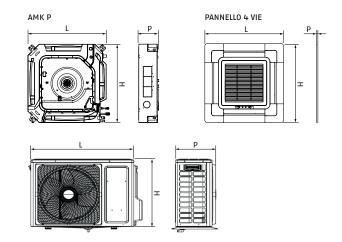
Description	Code
Air conditioner Wi-Fi interface kit for model AMW P	20133559

# Cassette mono inverter air conditioners

# **AARIA MONO PLUS-AMK**

NEW







- Monosplit Inverter with cassettes
- R32 heat pump, low environmental impact
- With remote control
- Condensate drain pump on the unit

Description	Unit	Н	L	P	Net weight
•	type	mm	mm	mm	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

**HEAT PUMPS** 

# **TECHNICAL DATA**

Description	Output in cooling (T=+35 °C) KW	Annual consump. 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
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++	A	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.

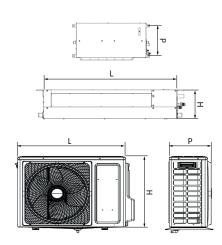
Prices do not include the WEEE contribution.

Duct-connected mono inverter air conditioners

# **AARIA MONO PLUS-AMD**

NEW







- 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	Annual consumption	Output in heating	Annual consump-	Unit type	Liquid attach-	Gas attach-	L/H max		ergy icy class	Code
	(T=+35 °C) kW	/	(Pdesign T=-10 °C) kW	tion kWh/year		ments mm	ments mm	m	SEER %≋	SCOP %≋	
AMD 35 PA	3,5	187	3	1025	Indoor				A++	A	2015142
AARIA MONO 35 PLUS					Outdoor						2015155
AARIA AMD 35 PA SET						6,35	9,52	15/10			2016158
AMD 50 PA	5	264	4,5	1425	Indoor				A++	A	2015142
AARIA MONO 50 PLUS					Outdoor						2015155
AARIA AMD 50 PA SET						6,35	12,7	25/15			2016158

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone.

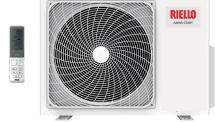
The performances refer to the following conditions:

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.

COMPLEMENTARY ITEMS







PRODUCT CATALOGUE

- Monosplit wall-mounted inverter
- R32 heat pump, low environmental impact
- Energy efficiency class A++/A+

 •	

Wall-mounted mono inverter air conditioners

NEW

**AARIA START** 

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

# **TECHNICAL DATA**

**RIELLO** 

Description	Output in cooling	Annual consump.	Output in heating	Annual consump-	Unit type	Liquid attach-	Gas attach-	L/H max m		ergy icy class	Code
	(T=+35 °C) kW	kWh/year	(Pdesign T=-10 °C) kW	tion kWh/ year		ments mm	ments mm		SEER &	SCOP &S≋	
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.

# **ACCESSORIES**

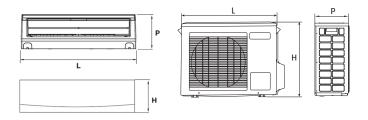
Description	Code
Air conditioner Wi-Fi interface kit	20133559

Wall-mounted air conditioner

# **AARIA MONO-AMW**

WHILE STOCKS LAST







- Ionisator
- Wall-mounted Monosplit Inverter
- Heat pump R410A
- High energy efficiency class: A++/A+, for low consumption

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMW 25	Indoor	272	805	205	9
AARIA MONO 25 N	Outdoor	543	783	255	29
AMW 35	Indoor	272	805	205	9
AARIA MONO 35 N	Outdoor	543	783	255	32
AMW 50	Indoor	310	960	235	11,5
AARIA MONO 50 N	Outdoor	688	810	288	43

The wall-mounted air conditioners AARIA MONO-AMW have been specifically designed as a high level product for medium to small sized residential rooms, to ensure high energy efficiency together with a stylish design.

Thanks to the INVERTER technology, which is among the best on the market, this product range reaches high efficiency energy levels classified A++/A+. It is available in three power sizes from 2.5 kW up to 5.0 kW.

The fan of the internal wall-mounted unit has 4 speeds, which allow to reach low noise levels of 28 dB(A) at the ultra minimum speed (not available on the model 50). The outdoor unit is equipped with a high-efficiency revolving compressor that minimizes vibrations and is provided with a top quality sound-absorbing insulation.

- SEER/SCOP coefficient up to 6,4/4,0
- SOFT function for ultra low-noise operation
- DRY function for dehumidification
- AUTORESTART function in case of power failure
- POWER mode: for a quick achievement of the set temperature
- Internal unit with LED DISPLAY
- Outdoor unit provided with connections cover
- Infrared remote control panel as standard

#### **TECHNICAL DATA**

Description	Cooling capacity	Annual consump.	Heating capacity (Pdesign T=-10 °C)	consumption	Unit type	Liquid connect.	Gas connect.	L/H max		ergy icy class	Code
	(T=+35 °C) kW	kWh/year	kW	kWh/year		mm	mm	m	SEER ‰≋	SCOP &S≋	
AMW 25	2,7	157	2,4	830	Indoor				A++	A+	20062239
AARIA MONO 25 N					Outdoor						20080382
AARIA AMW 25 SET						6,35	9,52	15/10			20065212
AMW 35	3,6	211	3,2	1114	Indoor				A++	A+	20062241
AARIA MONO 35 N					Outdoor						20080384
AARIA AMW 35 SET						6,35	9,52	15/10			20065213
AMW 50	5,2	308	5,2	1832	Indoor				A++	A+	20062243
AARIA MONO 50 N					Outdoor						20080385
AARIA AMW 50 SET						6,35	12,7	25/15			20065214

Data and efficiency class are declared conforming to EN 14825 rules for temperate climate zone. Performance values refer to the following conditions:

- Cooling: internal unit inlet air temperature 27 °C Td.b., 19 °C Tw.b.

- Heating: internal unit inlet air temperature 20 °C Td.b.

**TERMINAL UNITS** 

RIELLO

Cassette air conditioner

# AARIA MONO-AMK

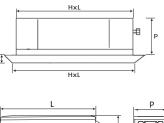
WHILE STOCKS LAST

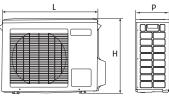






- Cassette Monosplit Inverter
- Heat pump R410A
- · Condensate drain pump on board
- · High energy efficiency class for low consumption
- Infrared remote control panel as standard





Description	Unit	Н	L	Р	Net weight
	type	mm	mm	mm	kg
AMK 35 N	Indoor	570	570	260	19
AARIA MONO 35 N	Outdoor	543	783	255	32
Cover panel		700	700	60	2
AMK 50 N	Indoor	570	570	260	19
AARIA MONO 50 N	Outdoor	688	810	288	43
Cover panel		700	700	60	2

The cassette air conditioners range AARIA MONO-AMK has been designed for medium to small sized residential rooms, to ensure high energy efficiency together with a functional design.

Thanks to the INVERTER technology, which is among the best on the market, this product range reaches high efficiency energy

AARIA MONO-AMK is available in two power sizes from 3,5 kW to 5,0 kW.

The three-speed centrifugal fan of the internal unit reaches very low noise levels at the ultra minimum speed. The internal unit is ultra compact, 260 mm deep, with a cover panel of 700x700 mm.

The outdoor unit is equipped with a high-efficiency revolving compressor that minimizes vibrations and is provided with a top quality sound-absorbing insulation.

- High seasonal efficiency in heating and cooling
- SOFT function for ultra low noise operation
- DRY function for dehumidification
- AUTORESTART function in case of power failure
- POWER mode: for a quick achievement of the set temperature
- Outdoor unit provided with connections cover
- Infrared remote control panel as standard
- Hard-wired remote control panel available as an accessory

# **TECHNICAL DATA**

Description	Cooling capacity	Heating capacity	Unit type	Liquid connect.	Gas connect.	L/H max		ergy icy class	Code
	(T=+35 °C) kW	(Pdesign T=-10 °C) kW		mm	mm	m	SEER &	SCOP ‰≋	
AMK 35 N	3,5	3,4	Indoor				A++	А	20080394
AARIA MONO 35 N			Outdoor						20080384
Cover panel									20032658
AARIA AMK 35 SET				6,35	9,52	15/10			20065224
AMK 50 N	5	4,7	Indoor				А	А	20080395
AARIA MONO 50 N			Outdoor						20080385
Cover panel									20032658
AARIA AMK 50 SET				6,35	12,7	25/15			20065225

Data and efficiency class are declared conforming to EN 14825 rules for temperate climate zone. Performance values refer to the following conditions:

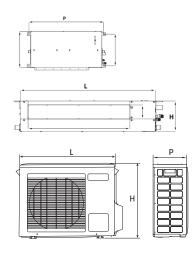
- Cooling: internal unit inlet air temperature 27 °C Td.b., 19 °C Tw.b. Heating: internal unit inlet air temperature 20 °C Td.b.

Duct-connected air conditioner

# **AARIA MONO-AMD**

WHILE STOCKS LAST







- Duct-connected Inverter Monosplit
- Heat pump R410A
- 185 mm high internal unit
- Condensate drain pump on board
- High energy efficiency class for low consumption
- Hard-wired remote control panel as standard

Description	Unit type	H L mm		P mm	Net weight kg	
AMD 35 AN Indo		185	850	420	17	
AARIA MONO 35 N	ARIA MONO 35 N Outdoor		783	255	32	
AMD 50 AN	Indoor	185	1170	420	22	
AARIA MONO 50 N	Outdoor	688	810	288	43	

The duct-connected air conditioner range AARIA MONO-AMD has been designed for medium to small sized residential rooms, to ensure high energy efficiency together with a functional design.

Thanks to the INVERTER technology, which is among the best on the market, this product range reaches high efficiency energy

AARIA MONO-AMD is available in two power sizes from 3,5 kW to 5,0 kW. The three-speed ducted fan of the internal unit reaches very low noise levels. The internal unit, only 185 mm high, is one of the most compact on the market in its product category. The outdoor unit is equipped with a high-efficiency revolving compressor that minimizes vibrations and is provided with a top quality sound-absorbing insulation.

- High seasonal efficiency in heating and cooling
- SOFT function for ultra low noise operation
- DRY function for dehumidification
- AUTORESTART function in case of power failure
- POWER mode: for a quick achievement of the set temperature
- Outdoor unit provided with connections cover
- Hard-wired remote control panel as standard
- Infrared remote control panel available as an accessory

#### **TECHNICAL DATA**

Description	Cooling capacity	Heating capacity	Unit type	Liquid connect.	Gas connect.	L/H max	Energy efficiency class		Code
	(T=+35 °C) kW	(Pdesign T=-10 °C) kW		mm	mm	m	SEER &≈≋	SCOP ‰≋	
AMD 35 AN	3,5	3	Indoor				A+	А	20081542
AARIA MONO 35 N			Outdoor						20080384
AARIA AMD 35 A SET				6,35	9,52	15/10			20065219
AMD 50 AN	5	5,5	Indoor				A+	A+	20081543
AARIA MONO 50 N			Outdoor						20080385
AARIA AMD 50 A SET				6,35	12,7	25/15			20065220

Data and efficiency class are declared conforming to EN 14825 rules for temperate climate zone. Performance values refer to the following conditions:

- Cooling: internal unit inlet air temperature 27 °C Td.b., 19 °C Tw.b. Heating: internal unit inlet air temperature 20 °C Td.b.

**TERMINAL UNITS** 

RIELLO

Ceiling / floor air conditioner

# **AARIA MONO-AMS**

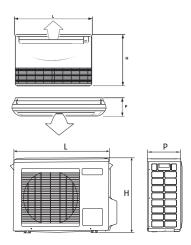
WHILE STOCKS LAST







- Ceiling-floor Monosplit Inverter
- Heat pump R410A
- High energy efficiency class for low consumption
- Infrared remote control panel as standard



Description	Unit type	H mm	L mm	P mm	Net weight kg	
AMS 35 N	Indoor	655	990	199	26	
AARIA MONO 35 N	Outdoor	543	783	255	32	
AMS 50 N	Indoor	655	990	199	28	
AARIA MONO 50 N	Outdoor	688	810	288	43	

The ceiling / floor air conditioners range AARIA MONO-AMS has been designed for medium to small sized residential rooms to ensure high energy efficiency together with a functional design.

Thanks to the INVERTER technology, which is among the best on the market, this product range reaches high efficiency energy

AARIA MONO-AMS is available in two power sizes from 3,5 kW to 5,0 kW.

The three-speed fan of the internal unit reaches very low noise levels.

The outdoor unit is equipped with a high-efficiency revolving compressor that minimizes vibrations and is provided with a top quality sound-absorbing insulation.

- High seasonal efficiency in heating and cooling
- DRY function for dehumidification
- AUTORESTART function in case of power failure
- POWER mode: for a quick achievement of the set temperature
- Outdoor unit provided with connections cover
- Infrared remote control panel as standard
- Hard-wired remote control panel available as an accessory

#### **TECHNICAL DATA**

Description Cooling capaci (T=+35 °C) kW	Cooling capacity (T=+35 °C)	/ Heating capacity (Pdesign T=-10 °C) kW	Unit type	Liquid connect. mm	Gas connect. mm	L/H max m	Energy efficiency class		Code
	kW						SEER &	SCOP %≋	
AMS 35 N	3,5	3,4	Indoor				A++	А	20080402
AARIA MONO 35 N			Outdoor						20080384
AARIA AMS 35 SET				6,35	9,52	15/10			20065221
AMS 50 N	5,0	4,7	Indoor				A+	А	20080403
AARIA MONO 50 N			Outdoor						20080385
AARIA AMS 50 SET				6,35	12,7	25/15			20065222

Data and efficiency class are declared conforming to EN 14825 rules for temperate climate zone. Performance values refer to the following conditions:

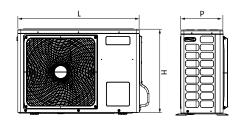
- Cooling: internal unit inlet air temperature 27 °C Td.b., 19 °C Tw.b. Heating: internal unit inlet air temperature 20 °C Td.b.

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	688	810	288	43
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

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: up to -25 °C in heating and +46 °C in cooling (except model 250 P)
- Compact dimensions
- High energy efficiency class for low consumption.

#### TECHNICAL DATA

Description	Unit type	Indoor unit combina- tion	Output in cooling kW	Output in heating (Pdesign) kW	Liquid attach- ments mm	Gas attach- ments mm	L/H max	Ene efficien SEER S⊝≋	rgy cy class SCOP &S≋	Note	Code
AARIA MULTI 250 P	DUAL (1:2)	2 x 3,5	5	5,2	2 x 6,35	2 x 9,52	20/15	A++	A+		20151417
AARIA MULTI 355 P	TRIAL (1:3)	3x2,5	5,5	4,7	3x6,35	3x9,52	25/15	A++	A+	(D)	20151418
AARIA MULTI 370 P	TRIAL (1:3)	3x2,5	7,0	6,0	3x6,35	3x9,52	25/15	A++	A+	(D)	20151419
AARIA MULTI 475 P	QUADRI (1:4)	4x2,5	7,5	6,3	4x6,35	3x9,52+1x12,7	25/15	A++	A+	(D)	20151420
AARIA MULTI 485 P	QUADRI (1:4)	4x2,5	8,5	7,0	4x6,35	3x9,52+1x12,7	25/15	A++	A+	(D)	20151421

(D) Indicative availability form June 2019. To be confirmed

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**



**RIELLO** 

Description	Output in cooling kW	Output in heating (Pdesign) kW	Absorbed power W	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMW 20 P	2,0	2,3	25	600	280/855/200	6,35	9,52	20148316
AMW 25 P	2,5	2,8	25	600	280/855/200	6,35	9,52	20127839
AMW 35 P	3,5	3,8	25	650	280/855/200	6,35	9,52	20127841
AMW 50 P	5,2	6,0	40	900	332/997/230	6,35	12,70	20127842

#### **TECHNICAL DATA OF DUCTED INDOOR UNITS**



Description	Output in cooling kW	Output in heating (Pdesign) kW	Absorbed power W	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMD 25 PA	2,5	3	17	530	185/850/420	6,35	9,52	20151422
AMD 35 PA	3,5	4	28	600	185/850/420	6,35	9,52	20151424
AMD 50 PA	5	5,5	55	900	185/1170/420	6,35	12,70	20151425

#### **TECHNICAL DATA OF INDOOR CASSETTE UNITS**



Description	Output in cooling kW	Output in heating (Pdesign) kW	Absorbed power W	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	510	260/570/570	6,35	9,52	20151428
Pannello 4 vie AMK					60/700/700			20151431
SET AMK 25 P								20154918
AMK 35 P	3,5	4	35	620	260/570/570	6,35	9,52	20151429
Pannello 4 vie AMK					60/700/700			20151431
SET AMK 35 P								20154921
AMK 50 P	5	5,5	38	700	260/570/570	6,35	12,70	20151430
Pannello 4 vie AMK 25-35-50 P								20151431
SET AMK 50 P								20154920

#### **ACCESSORIES**

Drawing	Description	Notes	Code
	Wi-Fi conditioner interface kit for AMW P models		20133559
O S ()  O S ()	Wired remote control for AMK P models	(D)	20151469

(D) Indicative availability form May 2019. To be confirmed
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.

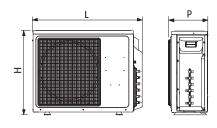
Prices do not include the WEEE contribution.

Multi inverter air conditioners

### **AARIA MULTI**

WHILE STOCKS LAST







- Mono/multisplit DC inverter air conditioner
- Mono/multi range of up to 5 indoor units

Description	H mm	L mm	P mm	Net weight kg
AARIA MULTI 355 MN	688	886	289	44
AARIA MULTI 370 MN	730	940	345	53
AARIA MULTI 475 MN	840	948	340	74
AARIA MULTI 485 MN	840	948	340	76
AARIA MULTI 595 MN	840	948	340	77
AARIA MULTI 5120 MN	830	1008	410	90

The AARIA MULTI 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, cassettes, floorstanding and ceiling models. AARIA MULTI is available in 6 versions with from 5.4 to 12 kW of delivered cooling capacity, providing state-of-the-art energy performances.

The seasonal performance index arrives at Class A++/A, with excellent cooling and heating values.

The range provides a wide operating range from -15° to 46 °C for perfect well-being, both in summer and in winter. The metal outdoor unit that is pre-coated to withstand the elements has attachment covers and a plastic front grille. The high efficiency  ${\bf TWIN} \ {\bf ROTARY} \ {\bf compressor} \ {\bf can} \ {\bf reduce} \ {\bf vibrations} \ {\bf to} \ {\bf a} \ {\bf minimum}.$ 

- Wide range of condensing units up to 5 connections for the indoor units
- Wide range of indoor units: wall, cassette, duct-connected and ceiling models
- DC Inverter technology
- High SCOP and SEER
- Up to 100 m long pipes
- Operating limit of the outdoor unit: up to -15 °C in heating and +46 °C in cooling
- Compact dimensions
- High energy efficiency class for low consumption.

#### **TECHNICAL DATA**

Description	Туре	Indoor unit combination	Output in cooling	Output in heating	Liquid at- tachments	Gas attachments mm	L/H max		ergy icy class	Code
			kW	kW	mm			SEER &S≋	SCOP &§≋	
AARIA MULTI 355 MN	TRIAL (1:3)	3 x 2,5	5,4	6,5	3x6,35	3 x 9,52	25/15	A++	A+	20080388
AARIA MULTI 370 MN	TRIAL (1:3)	3 x 2,5	6,8	8,0	3x6,35	3 x 9,52	25/15	A++	A+	20080389
AARIA MULTI 475 MN	QUADRI (1:4)	3 x 2,5	7,6	8,6	4x6,35	3x9,52+1x12,7	25/15	A++	A	20080390
AARIA MULTI 485 MN	QUADRI (1:4)	4 x 2,5	8,8	9,8	4x6,35	3x9,52+1 x 12,7	25/15	A++	A+	20080391
AARIA MULTI 595 MN	PENTA (1:5)	4 x 2,5	10	10,7	5x6,35	4x9,52+1x12,7	25/15	A++	A+	20080392
AARIA MULTI 5120 MN	PENTA (1:5)	5 x 2,5	12,2	12,7	5x6,35	3x9,52+2x12,7	25/15	A++	A	20097776

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone.

Prices do not include the WEEE contribution.

For each individual configuration please check whether make use of the thermal account or the tax deduction for the direct replacement of the system or

WATER-HEATERS

#### **TECHNICAL DATA OF WALL-MOUNT INDOOR UNITS**



**RIELLO** 

Description	Output in cooling kW	Output in heating kW	Absorbed power W	Electrical supply V-Ph-Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ø mm	Gas piping Ø mm	Code
AMW 20	2,00	2,30	16	230/1/50	630	272/798/205	6,35	9,52	20064585
AMW 25	2,60	2,80	16	230/1/50	630	272/805/205	6,35	9,52	20062239
AMW 35	3,50	3,80	16	230/1/50	700	272/805/205	6,35	9,52	20062241
AMW 50	4,90	5,10	40	230/1/50	900	310/960/235	6,35	12,7	20062243

#### TECHNICAL DATA OF CEILING/FLOOR INDOOR UNITS



Description	Output in cooling kW	Output in heating kW	Absorbed power W	Electrical supply V-Ph-Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ø mm	Gas piping Ø mm	Code
AMS 35 N	3,50	3,90	90	230/1/50	650	655/990/199	6,35	9,52	20080402
AMS 50 N	5,00	5,50	75	230/1/50	800	655/990/199	6,35	12,7	20080403
AMS 70 N	6,30	7,10	100	230/1/50	800	655/990/199	9,52	15,88	20080404

#### TECHNICAL DATA OF DUCTED INDOOR UNITS



Description	Output in cooling kW	Output in heating kW	Absorbed power W	Electrical supply V-Ph-Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ø mm	Gas piping Ø mm	Code
AMD 25 AN	2,50	2,90	25	230/1/50	550	185/850/420	6,35	9,52	20081541
AMD 35 AN	3,50	4,00	25	230/1/50	550	185/850/420	6,35	9,52	20081542
AMD 50 AN	5,00	5,50	45	230/1/50	850	185/1170/420	6,35	12,7	20081543
AMD 70 AN	6,50	7,00	45	230/1/50	1000	185/1170/420	9,52	15,88	20081544

#### **TECHNICAL DATA OF INDOOR CASSETTE UNITS**



Description	Output in cooling kW	Output in heating kW	Absorbed power W	Electrical supply V-Ph-Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ø mm	Gas piping Ø mm	Code
AMK 25 N	2,6	2,9	30	230/1/50	620	570/570/260	6,35	9,52	20080393
Panel						700/700/60			20032658
SET AMK 25									20065226
AMK 35 N	3,5	3,7	30	230/1/50	620	570/570/260	6,35	9,52	20080394
Panel						700/700/60			20032658
SET AMK 35 N									20065227
AMK 50 N	5	5,2	65	230/1/50	680	570/570/260	6,35	12,7	20080395
Panel						700/700/60			20032658
SET AMK 50 N									20065229
AMK 70 N	6,5	7,1	160	230/1/50	1300	840/840/240	9,52	15,88	20080396
Panel									20064589
SET AMK 70									20065230

#### **ACCESSORIES**

Drawing	Description	Notes	Code
© 6.5.3 "2 U 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Wired remote control for AMK-AMS models	(D)	20151469
	Infrared control with receiver panel for AMD models		20064592
	Touchscreen (compatible with models starting from AARIA MULTI 355)		20133642

- (D) Indicative availability form May 2019. To be confirmed
  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.



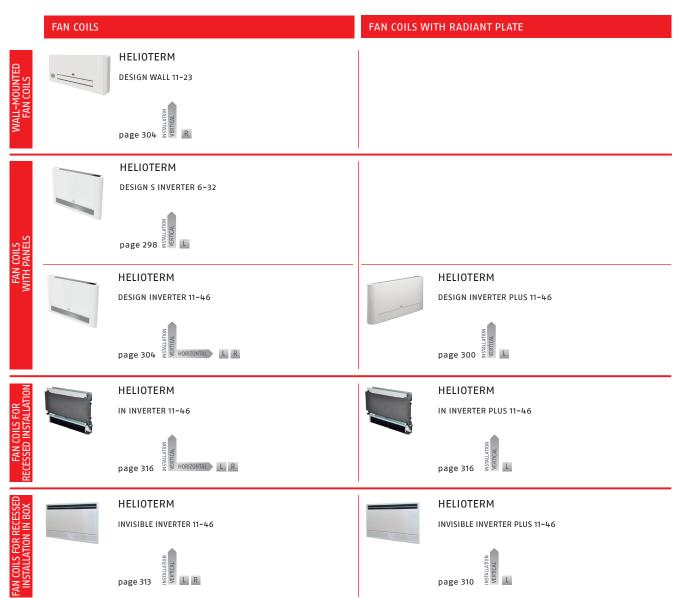
TERMINAL UNITS	<u> 111</u>
FAN COILS	294
TAIN COILS	
DUCTABLE FAN COILS	323
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### **FAN COILS**

**RIELLO** 



#### FOR HEATING AND COOLING RESIDENTIAL SYSTEMS



TERMINAL UNITS

**RIELLO** 

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### **FAN COILS**

#### FOR HEATING AND COOLING COMMERCIAL SYSTEMS

#### COMMERCIAL





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RCM NX

RCM 15NX-55NX

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RCI NX

RCI 15NX-55NX

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FCU N

FCU 09-43

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RK N HYDROLINE

RK 24N-96N

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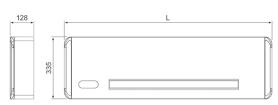
WATER-HEATERS



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 spaces.

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 wall-mounted control CPD 35 (Design Wall 11P, 17P, 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 wall-mounted remote control.

- 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 WALL-MOUN	ITED CONTROL CPI	D 35					
DESIGN WALL 11 P	1140	1610	2780	320	39,7-24,9	(A)	20117222
DESIGN WALL 17 P	1620	2350	4120	430	42,4-25,2	(A)	20117224
DESIGN WALL 23 P	2340	3250	5720	540	42,6-25,8	(A)	20117225

Performance refer to the following conditions: (1) Room air temperature 27 °C Tb.s. and 19 °C Tb.u.

- Air temperature 20 °C Tb.s. and the same water flow rate achieved in cooling mode. Air temperature 20 °C Tb.s.

- Air flow rate measured with cleaned filters. According to UNI EN ISO 7779:2001. Mandatory accessory for Design Wall 11P, 17P, 23P.

#### **ACCESSORIES**

Drawing	Decription	Notes	Code
.53	CPD 35 (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 through the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fancoils thanks to the on board electronic board CSD 35.	(A)	20116410
4	2 - ways taps kit		20117090
	Motorized 2 – ways valve kit		20099250
44	Motorized 3 – ways valve kit		20099251

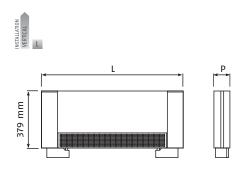
(A) Mandatory accessory for Design Wall 11P, 17P, 23P.

RIELLO

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.

- 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

#### **ACCESSORIES**

Drawing	Decription	Notes	Code
- + % 0	CBD 25: 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.		20116409
238  - +   * 0   Acces   None C   49 494	CBD 35: TOUCH LCD electronic on board control panel with continuous modulation. 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.		20116408
53	CPD 35 (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) fancoils thanks to the on board electronic board CSD 35.	(1)	20116410
0 *	CSD 35 (SLAVE): Electronic remoting board with continuous modulation for remote connection with the wall-hung control CPD 35. It is possible to connect max 30 electronic board to one control panel CPD 35.	(1)(2)	20116411
	CDI 15: Electronic remoting board with dry contacts	(2)	20116412
	CDI 15: Electronic remoting board with input 0 - 10V		20116413
	CI 15: Control panel for recessed installation	(1)	20147241
	CDI 15: Electronic remoting board	(1)(2)	20116412
	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
	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
<b>L</b>	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013458
	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

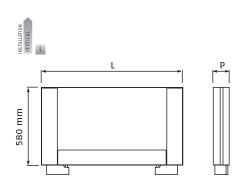
Both codes are necessary for the first fan coil It must be installed 1 piece for every remoted fan coil

### RIELLO

Fan coil

# **Design Inverter Plus**





 Tangential fan coils with radiant plate and Brushless inverter motor

Description	Н	L	Р
	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 two colours (white and silver), 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 in the white version and in metal sheet in the silver version; the front delivery grille is made of aluminium.

- FULL FLAT with an automatic suction system
- Depth of 13 cm
- Terminal with radiating effect
- Available in two colours: white and silver
- Easy to remove and clean the filters
- Touch Display commands

**TERMINAL UNITS** 

#### **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	Power heating 70 °C-60 °C (4) Watt	Maximum air flow rate (5) m³/h	Sound pressure irradiation max-min (6) dB(A)	Code
TECHNICAL DATA WITH PERFO	RMANCE SETT	ING (FOR CO	MERCIAL RO	OMS)			
WHITE FAN COIL WITH RADIANT H	EAT PLATE AND	AUTOMATIC AIR	VENTILATION				
DESIGN INVERTER PLUS 11B	1095	1415	2420	540	197	42,2-24,2	20116258
DESIGN INVERTER PLUS 21B	2120	2775	4670	670	389	43,1-25,3	20116260
DESIGN INVERTER PLUS 33B	3310	3905	6635	780	560	45,5-25,6	20116261
DESIGN INVERTER PLUS 40B	3875	4665	7855	920	699	45,9-26,3	20116263
DESIGN INVERTER PLUS 46B	4560	5705	9645	1080	787	47,2-27,6	20116264
SILVER-GREY FAN COIL WITH RAD	IANT HEAT PLAT	E AND AUTOMAT	TIC AIR VENTILA	TION			
DESIGN INVERTER PLUS 11A	1095	1415	2420	540	197	42,2-24,2	20069338
DESIGN INVERTER PLUS 21A	2120	2775	4670	670	389	43,1-25,3	20069339
DESIGN INVERTER PLUS 33A	3310	3905	6635	780	560	45,5-25,6	20069340
DESIGN INVERTER PLUS 40A	3875	4665	7855	920	699	45,9-26,3	20069341
DESIGN INVERTER PLUS 46A	4560	5705	9645	1080	787	47,2-27,6	20069342

TECHNICAL DATA WITH COMFORT SETTING (FOR RESIDENTIAL ROOMS)									
WHITE FAN COIL WITH RADIANT HEAT PLATE									
DESIGN INVERTER PLUS 11B	830	1150	2020	540	162	39,4-24,2	20116258		
DESIGN INVERTER PLUS 21B	1760	2460	4150	670	320	40,2-25,3	20116260		
DESIGN INVERTER PLUS 33B	2650	3410	5800	780	461	42,2-25,6	20116261		
DESIGN INVERTER PLUS 40B	3340	4400	7500	920	576	42,5-26,3	20116263		
DESIGN INVERTER PLUS 46B	3800	5200	8600	1080	648	43,9-27,6	20116264		
SILVER-GREY FAN COIL WITH RADI	ANT HEAT PLAT	E							
DESIGN INVERTER PLUS 11A	830	1150	2020	540	162	39,4-24,2	20069338		
DESIGN INVERTER PLUS 21A	1760	2460	4150	670	320	40,2-25,3	20069339		
DESIGN INVERTER PLUS 33A	2650	3410	5800	780	461	42,2-25,6	20069340		
DESIGN INVERTER PLUS 40A	3340	4400	7500	920	576	42,5-26,3	20069341		
DESIGN INVERTER PLUS 46A	3800	5200	8600	1080	648	43,9-27,6	20069342		

- 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

TERMINAL UNITS

#### **ACCESSORIES**

**RIELLO** 

Drawing	Decription	Notes	Code
123 [-+ * 0]	CBD 25: 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.		20116409
23.6 - + * •	CBD 35: TOUCH LCD electronic on board control panel with continuous modulation. 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.		20116408
123 Cres	CPD 35 (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) fancoils thanks to the on board electronic board CSD 35.	(1)	20116410
• •	CSD 35 (SLAVE): Electronic remoting board with continuous modulation for remote connection with the wall-hung control CPD 35. It is possible to connect max 30 electronic board to one control panel CPD 35.	(1)(2)	20116411
	CDI 15: Electronic remoting board with dry contacts	(2)	20116412
	CDI 15: Electronic remoting board with input 0 - 10V		20116413
	CI 15: Control panel for recessed installation	(1)	20147241
	CDI 15: Electronic remoting board	(1)(2)	20116412
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-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
1 4 . 1	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013458
	Silver-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013459
	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
	Silver 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.		20069421
	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
(1) Both codes are n	ecessary for the first fan coil		

- 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

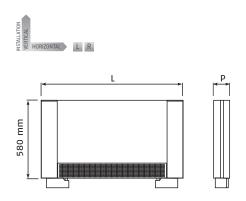
Drawing	Description			Size		_	Colo	our	Code
		11	21	33	40	46	Silver/Grey	White	
		•						•	20116460
		•					•		4013461
	Back-cover panel kit for the models Design Inverter and Design Inverter Plus		•					•	20116461
			•				•		4013463
				•				•	20116462
				•			•		4013465
					•			•	20116463
					•		•		4013467
						•		•	20116464
						•	•		4013469

RIELLO

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 two colours (white and silver), 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 in the white colour version and the silver version; the front delivery grille is made of aluminium.

- Extremely thin
- Depth of 13 cm
- Available in two colours: white and silver
- Units can be installed both vertically and horizontally
- Ease of installation with left connections
- Easy to remove and clean the filters
- Touch Display commands

**TERMINAL UNITS** 

#### **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						
ECHNICAL DATA WITH PERFORMANCE SETTING (FOR COMMERCIAL ROOMS)												
WHITE FAN COIL												
DESIGN INVERTER 11B	1095	1415	2420	197	42,2-24,2	20116254						
DESIGN INVERTER 21B	2120	2775	4670	389	43,1-25,3	20116244						
DESIGN INVERTER 33B	3310	3905	6635	560	45,5-25,6	20116246						
DESIGN INVERTER 40B	3875	4665	7855	699	45,9-26,3	20116250						
DESIGN INVERTER 46B	4560	5705	9645	787	47,2-27,6	20116252						
SILVER-GREY FAN COIL												
DESIGN INVERTER 11A	1095	1415	2420	197	42,2-24,2	20116845						
DESIGN INVERTER 21A	2120	2775	4670	389	43,1-25,3	20116924						
DESIGN INVERTER 33A	3310	3905	6635	560	45,5-25,6	20116925						
DESIGN INVERTER 40A	3875	4665	7855	699	45,9-26,3	20116928						
DESIGN INVERTER 46A	4560	5705	9645	787	47,2-27,6	20116929						
			1									

TECHNICAL DATA WITH COMFORT SETTING (FOR RESIDENTIAL ROOMS)										
WHITE FAN COIL										
DESIGN INVERTER 11B	830	1090	1890	162	39,4-24,2	20116254				
DESIGN INVERTER 21B	1760	2350	3990	320	40,2-25,3	20116244				
DESIGN INVERTER 33B	2650	3190	5470	461	42,2-25,6	20116246				
DESIGN INVERTER 40B	3340	4100	6980	576	42,5-26,3	20116250				
DESIGN INVERTER 46B	3800	4860	8300	648	43,9-27,6	20116252				
SILVER-GREY FAN COIL										
DESIGN INVERTER 11A	830	1090	1890	162	39,4-24,2	20116845				
DESIGN INVERTER 21A	1760	2350	3990	320	40,2-25,3	20116924				
DESIGN INVERTER 33A	2650	3190	5470	461	42,2-25,6	20116925				
DESIGN INVERTER 40A	3340	4100	6980	576	42,5-26,3	20116928				
DESIGN INVERTER 46A	3800	4860	8300	648	43,9-27,6	20116929				

- 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

2019 EDITION

## **RIELLO**

#### ACCESSORIES

Drawing	Decription	Notes	Code
	CBD 25: 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.		20116409
236 - + * o	CBD 35: TOUCH LCD electronic on board control panel with continuous modulation. 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.		20116408
23 cores	CPD 35 (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) fancoils thanks to the on board electronic board CSD 35.	(1)	20116410
• •	CSD 35 (SLAVE): Electronic remoting board with continuous modulation for remote connection with the wall-hung control CPD 35. It is possible to connect max 30 electronic board to one control panel CPD 35.	(1)(2)	20116411
	CDI 15: Electronic remoting board with dry contacts	(2)	20116412
	CDI 15: Electronic remoting board with input 0 - 10V		20116413
	Cl 15: Control panel for recessed installation	(1)	20147241
	CDI 15: Electronic remoting board	(1)(2)	20116412
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
	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
1.6.1	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013458
	Silver-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013459
	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
	Silver 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.		20069421
	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
	Condensate drain 46 for horizontal installation	(3)	20025189
$\bigcap$	Cables kit for right-side connections. It is compulsory for the connections reversal.		20069415

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

Drawing	Description			Size			Colo	ur	Code
		11	21	33	40	46	Silver/Grey	White	
		•						•	20116460
		•					•		4013461
			•					•	20116461
			•				•		4013463
	Back-cover panel kit for the models			•				•	20116462
	Design Inverter and Design Inverter Plus			•			•		4013465
					•			•	20116463
					•		•		4013467
						•		•	20116464
						•	•		4013469



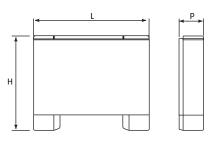
Fan coils with panels

### RCM NX





Fan coils



Description	Н	L	Р
	mm	mm	mm
RCM 15 NX	657	830	220
RCM 25 NX	657	1030	220
RCM 36 NX	657	1030	220
RCM 38 NX	657	1230	220
RCM 46 NX	657	1230	220
RCM 55 NX	657	1430	220

RCM NX is a fan coil line designed for modern heating and cooling installations in offices, hotels and shops. The sizes 15, 25, 38 and 55 are equipped with a 5-speeds fan to provide the best choice between performance and noiseless operation. The pleasant and simple design perfectly fits all environments. It comes in 7 versions with a wide range of available accessories and can be installed both vertically and horizontally (with hydraulic connections on the left side supplied as standard, that can be reversible on the worksite), thus allowing the maximum flexibility of installation solutions. The fan coils of RCM NX line have a supporting structure made of zinc-coated sheet and are equipped with a zinc-coated steel cabinet wrapped in plastic film with plastic grid (ABS).

- Wide range of models
- 5-speeds fan (sizes 15, 25, 38 and 55)
- Best choice thanks to performance and noiseless operation
- It can be both vertically and horizontally installed
- Connections can be reversible on the worksite
- Wide range of accessories
- Filters easy to disassemble and clean

#### **TECHNICAL DATA**

Description	Power	cooling	Power	heating	Air flow rate	Fan type	Fan speed	Code
	max (W)	min (W)	max (W)	min (W)	max-min m³/h		nr.	
FAN COILS 2 PIPES								
RCM 15 NX	1.490	830	2.090	1.140	350 - 125	tangential	5	2008115
RCM 25 NX	2.540	1.390	3.180	1.700	460 - 215	centrifugal	5	2008142
RCM 36 NX	3.600	2.100	4.380	2.560	706 - 335	centrifugal	3	2008142
RCM 38 NX	3.700	2.070	5.290	2.860	745 - 350	centrifugal	5	2008142
RCM 46 NX	4.500	3.000	6.400	4.050	965 - 531	centrifugal	3	2008142
RCM 55 NX	5.450	2.600	8.080	4.000	1.195 - 525	centrifugal	5	2008142
FAN COILS 4 PIPES							•	
RCM 15 NX 4T	1470	750	1510	600	350 <b>-</b> 125	tangential	5	20081439
RCM 25 NX 4T	2060	1190	2870	1830	460 - 215	centrifugal	5	2008144
RCM 36 NX 4T	2740	1700	3850	2500	706 - 335	centrifugal	3	2008144
RCM 38 NX 4T	3330	2020	4270	2730	745 <b>-</b> 350	centrifugal	5	2008144
RCM 46 NX 4T	3780	2650	5000	3360	965 - 531	centrifugal	3	2008144
RCM 55 NX 4T	5000	2750	6100	3900	1195 - 525	centrifugal	5	2008144

Performance refer to the following conditions:

- ormance refer to the following conditions: fan speed: maximum; cooling: flow water 7 °C; inlet air temperature 27 °C Td.b./ 19 °C Tw.b.; (At water 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.

**TERMINAL UNITS** 

#### **ACCESSORIES**

PRODUCT CATALOGUE

Notes	Code
	20081500
(1)	20081502
(1)	20081504
(1)	20081506
(1)	20081508
	20081510
	20081511
	20081512
	20081513
	20035946
	20035947
	20035948
	20035949
	20081514
	20081515
	20081516
	20081517
	(1) (1) (1)

<sup>(1)</sup> It is necessary to order also the "Supports kit"

#### **CONTROLS**

Description	Notes	Code
2 pipes "Plus" control (wall-mounted)	(1)	20081464
2 pipes "Plus" control (biult-in)	(1)	20081467
4 pipes "Plus" control (wall-mounted)	(1)	20081466
4 pipes "Plus" control (biult-in)	(1)	20081469
Water probe kit		20083809
Air probe kit	(2)	20083816
Winter/summer switch kit		20081496
Multiple kit	(3)	20081499

Not included the water probe kit code 20083809. Sensor for remote reading. One control for each fan coil.

TERMINAL UNITS

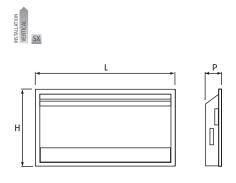
Fan coil

# **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

20025171

20116423

#### **TECHNICAL DATA**

PRODUCT CATALOGUE

Description	Power cooling 7 °C-12 °C (1) Watt	Power heating 50 °C (2) Watt	Power heating 70 °C-60 °C (3) Watt	Power heating 70 °C-60 °C (4) Watt	Maximum air flow rate (5) m³/h	Sound pressure irradiation max-min (6) db(A)	Code			
TECHNICAL DATA WITH PERFORMANCE SETTING (FOR COMMERCIAL ROOMS)										
WHITE FAN COIL WITH TEMPLATE FOR	RECESSED INST	ALLATION IN TH	E WALL							
INVISIBLE INVERTER PLUS 11	1095	1415	2420	540	197	42,2-24,2	20069374			
BOX (for recessed installation)							20025164			
FRONTAL PANEL AND GRID							20116418			
INVISIBLE INVERTER PLUS 21	2120	2775	4670	670	389	43,1-25,3	20069375			
BOX (for recessed installation)							20025166			
FRONTAL PANEL AND GRID							20116419			
INVISIBLE INVERTER PLUS 33	3310	3905	6635	780	560	45,5-25,6	20069376			
BOX (for recessed installation)							20025167			
FRONTAL PANEL AND GRID							20116420			
INVISIBLE INVERTER PLUS 40	3875	4665	7855	920	699	45,9-26,3	20069377			
BOX (for recessed installation)							20025169			
FRONTAL PANEL AND GRID							20116421			
INVISIBLE INVERTER PLUS 46	4560	5705	9645	1080	787	47,2-27,6	20069378			
BOX (for recessed installation)							20025171			
FRONTAL PANEL AND GRID							20116423			
TECHNICAL DATA WITH PERFORM	ANCE SETTING	G (FOR RESID	ENTIAL ROOM	S)						
WHITE FAN COIL WITH TEMPLATE FOR	RECESSED INST	ALLATION IN TH	E WALL							
INVISIBLE INVERTER PLUS 11	830	1090	1890	540	162	39,4-24,2	20069374			
BOX (for recessed installation)							20025164			
FRONTAL PANEL AND GRID							20116418			
INVISIBLE INVERTER PLUS 21	1760	2350	3990	670	320	40,2-25,3	20069375			
BOX (for recessed installation)							20025166			
FRONTAL PANEL AND GRID							20116419			
INVISIBLE INVERTER PLUS 33	2650	3190	5470	780	461	42,2-25,6	20069376			
BOX (for recessed installation)							20025167			
FRONTAL PANEL AND GRID							20116420			
INVISIBLE INVERTER PLUS 40	3340	4100	6980	920	576	42,5-26,3	20069377			
BOX (for recessed installation)							20025169			
FRONTAL PANEL AND GRID							20116421			
INVISIBLE INVERTER PLUS 46	3800	4860	8300	1080	648	43,9-27,6	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

  (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 Air temperature 20 °C and the same water flow rate achieved in cooling mode Air temperature 20 °C and the same water flow rate achieved in cooling mode Air temperature 20 °C Air temperature 20 °C; Main fan in "off"
  Air flow rate measured with cleaned filters
  According to UNI EN ISO 7779:2001

**BOX** (for recessed installation)

FRONTAL PANEL AND GRID

#### **ACCESSORIES**

**RIELLO** 

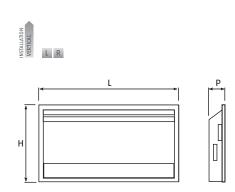
Drawing	Decription	Notes	Code
23	CPD 35 (MASTER): TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fancoils thanks to the on board electronic board CSD 35.	(1)	20116410
• •	CSD 35 (SLAVE): Electronic remoting board with continuous modulation for remote connection with the wall-hung control CPD 35. It is possible to connect max 30 electronic board to one control panel CPD 35.	(1)(2)	20116411
	CDI 15: Electronic remoting board with dry contacts	(2)	20116412
T a B	CDI 15: Electronic remoting board with input 0 - 10V		20116413
2276	CI 15: Control panel for recessed installation	(1)	20147241
	CDI 15: Electronic remoting board	(1)(2)	20116412
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
	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

- 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	P
	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

WATER-HEATERS

#### **TECHNICAL DATA**

**RIELLO** 

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
TECHNICAL DATA WITH PERFORMANC	E SETTING (FOR (	COMMERCIAL R	OOMS)			
WHITE FAN COIL WITH TEMPLATE FOR REC	ESSED INSTALLATION	N IN THE WALL				
INVISIBLE INVERTER 11	1095	1415	2420	197	42,2-24,2	20069349
BOX (for recessed installation)						20025164
FRONTAL PANEL AND GRID						20116418
INVISIBLE INVERTER 21	2120	2775	4670	389	43,1-25,3	20069370
BOX (for recessed installation)						20025166
FRONTAL PANEL AND GRID						20116419
INVISIBLE INVERTER 33	3310	3905	6635	560	45,5-25,6	20069371
BOX (for recessed installation)						20025167
FRONTAL PANEL AND GRID						20116420
INVISIBLE INVERTER 40	3875	4665	7855	699	45,9-26,3	20069372
BOX (for recessed installation)						20025169
FRONTAL PANEL AND GRID						20116421
INVISIBLE INVERTER 46	4560	5705	9645	787	47,2-27,6	20069373
BOX (for recessed installation)						20025171
FRONTAL PANEL AND GRID						20116423

TECHNICAL DATA WITH PERFORMANCE SETTING (FOR RESIDENTIAL ROOMS)
WHITE FAN COIL WITH TEMPLATE FOR RECESSED INSTALLATION IN THE WALL

WHITE FAN COIL WITH TEMPLATE FOR RECESSED INSTALLATION IN THE WALL								
INVISIBLE INVERTER 11	830	1090	1890	162	39,4-24,2	20069349		
BOX (for recessed installation)						20025164		
FRONTAL PANEL AND GRID						20116418		
INVISIBLE INVERTER 21	1760	2350	3990	320	40,2-25,3	20069370		
BOX (for recessed installation)						20025166		
FRONTAL PANEL AND GRID						20116419		
INVISIBLE INVERTER 33	2650	3190	5470	461	42,2-25,6	20069371		
BOX (for recessed installation)						20025167		
FRONTAL PANEL AND GRID						20116420		
INVISIBLE INVERTER 40	3340	4100	6980	576	42,5-26,3	20069372		
BOX (for recessed installation)						20025169		
FRONTAL PANEL AND GRID						20116421		
INVISIBLE INVERTER 46	3800	4860	8300	648	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

#### **ACCESSORIES**

Drawing	Decription	Notes	Code
**** m****	CPD 35 (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) fancoils thanks to the on board electronic board CSD 35.	(1)	20116410
• •	CSD 35 (SLAVE): Electronic remoting board with continuous modulation for remote connection with the wall-hung control CPD 35. It is possible to connect max 30 electronic board to one control panel CPD 35.	(1)(2)	20116411
	CDI 15: Electronic remoting board with dry contacts	(2)	20116412
	CDI 15: Electronic remoting board with input 0 - 10V		20116413
4.4. 10775	Cl 15: Control panel for recessed installation	(1)	20147241
	CDI 15: Electronic remoting board	(1)(2)	20116412
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
Ŏ	Cables kit for right-side connections. It is compulsory for the connections reversal.		20069415

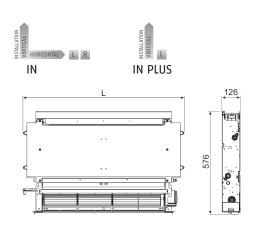
Both codes are necessary for the first fan coil It must be installed 1 piece for every remoted fan coil



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

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

TERMINAL UNITS

#### **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	Power heating 70 °C-60 °C (4) Watt	Maximum air flow rate (5) m³/h	Sound pressure irradiation max-min (6) dB(A)	Code
TECHNICAL DATA WITH PERF	ORMANCE SET	TING (FOR COM	1MERCIAL ROO	MS)			
FAN COIL FOR RECESSED INSTAL	LATION						
IN INVERTER 11	1095	1415	2420	-	197	42,2-24,2	20069349
IN INVERTER 21	2120	2775	4670	-	389	43,1-25,3	20069370
IN INVERTER 33	3310	3905	6635	-	560	45,5-25,6	20069371
IN INVERTER 40	3875	4665	7855	-	699	45,9-26,3	20069372
IN INVERTER 46	4560	5705	9645	-	787	47,2-27,6	20069373
			-			· ·	

TECHNICAL DATA WITH COMFORT SETTING (FOR RESIDENTIAL ROOMS)									
FAN COIL FOR RECESSED INSTALL	FAN COIL FOR RECESSED INSTALLATION								
IN INVERTER 11	830	1090	1890	-	162	39,4-24,2	20069349		
IN INVERTER 21	1760	2350	3990	-	320	40,2-25,3	20069370		
IN INVERTER 33	2650	3190	5470	-	461	42,2-25,6	20069371		
IN INVERTER 40	3340	4100	6980	-	576	42,5-26,3	20069372		
IN INVERTER 46	3800	4860	8300	-	648	43,9-27,6	20069373		

TECHNICAL DATA WITH PERFORMANCE SETTING (FOR COMMERCIAL ROOMS)								
FAN COIL WITH RADIANT HEAT PLATE FOR RECESSED INSTALLATION								
IN INVERTER PLUS 11	1095	1415	2420	-	197	42,2-24,2	20069374	
IN INVERTER PLUS 21	2120	2775	4670	-	389	43,1-25,3	20069375	
IN INVERTER PLUS 33	3310	3905	6635	-	560	45,5-25,6	20069376	
IN INVERTER PLUS 40	3875	4665	7855	-	699	45,9-26,3	20069377	
IN INVERTER PLUS 46	4560	5705	9645	-	787	47,2-27,6	20069378	

TECHNICAL DATA WITH COMFORT SETTING (FOR RESIDENTIAL ROOMS)								
FAN COIL WITH RADIANT HEAT PLATE FOR RECESSED INSTALLATION								
IN INVERTER PLUS 11	830	1090	1890	540	162	39,4-24,2	20069374	
IN INVERTER PLUS 21	1760	2350	3990	670	320	40,2-25,3	20069375	
IN INVERTER PLUS 33	2650	3190	5470	780	461	42,2-25,6	20069376	
IN INVERTER PLUS 40	3340	4100	6980	920	576	42,5-26,3	20069377	
IN INVERTER PLUS 46	3800	4860	8300	1080	648	43,9-27,6	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

#### **ACCESSORIES**

**RIELLO** 

Drawing	Decription	Notes	Code
*23 10 ************************************	CPD 35 (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) fancoils thanks to the on board electronic board CSD 35.	(1)	20116410
• •	CSD 35 (SLAVE): Electronic remoting board with continuous modulation for remote connection with the wall-hung control CPD 35. It is possible to connect max 30 electronic board to one control panel CPD 35.	(1)(2)	20116411
	CDI 15: Electronic remoting board with dry contacts	(2)	20116412
	CDI 15: Electronic remoting board with input 0 - 10V		20116413
	CI 15: Control panel for recessed installation	(1)	20147241
	CDI 15: Electronic remoting board	(1)(2)	20116412
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 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
TO THE	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
	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
	Cables kit for right-side connections for IN model (not for PLUS model). It is compulsory for the connections reversal.		20069415

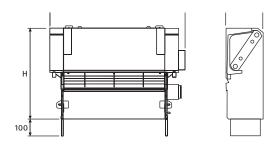
- Both codes are necessary for the first fan coil It must be installed 1 piece for every remoted fan coil

Drawing	Description		Size				Code
		11	21	33	40	46	
							4013481
	90° air-inlet kit for recessed models IN Inverter (not for Plus models)		•				4013482
				•			4013483
					•		4013484
						•	4013485
	Upper inlet kit for recessed models IN Inverter	•					4013486
			•				4013487
				•			4013488
					•		4013489
						•	4013490
		•					4013491
	Suction kit for recessed models IN Inverter (not for Plus model)		•				4013492
				•			4013493
					•		4013494
						•	4013495

Fan coils for recessed installattion

### **RCI NX**





• Fan coils for recessed installation

Description	Н	1	Р
bescription	mm	mm	mm
RCI 15 NX	518	600	220
RCI 25 NX	518	800	220
RCI 36 NX	518	800	220
RCI 38 NX	518	1000	220
RCI 46 NX	518	1000	220
RCI 55 NX	518	1200	220

The RCI NX fan coils are a specific line for recessed installation for modern heating and cooling solutions, designed for offices, hotels and shops. They are the ideal solution for the installation in places where it is necessary to hide the fan coil to meet the most complex architectural requirements without affecting the effective control of the comfort.

The sizes 15, 25, 38 and 55 are equipped with a 5-speeds fan to ensure the best choice thanks to performance and noiseless operation. All 7 models, available with a wide range of accessories, can be installed both vertically and horizontally (with hydraulic connections on the left side supplied as standard, that can be reversible on the worksite), thus allowing the maximum flexibility of installation solutions.

All RCI NX fan coils have a supporting structure made of zinc-coated sheet.

- Wide range of models
- 5-speeds fan (sizes 15, 25, 38 and 55)
- Best choice thanks to performance and noiseless operation
- It can be both vertically and horizontally installed
- Connections can be reversible on the worksite
- Wide range of accessories
- Filters easy to disassemble and clean.

#### **TECHNICAL DATA**

**RIELLO** 

Description	Power	Power cooling		heating	Air flow rate	Fan type	Fan speed	Code
	max (W)	min (W)	max (W)	min (W)	max-min m³/h		nr.	
FAN COILS 2 PIPES								
RCI 15 NX	1.490	830	2.090	1.140	350 - 125	tangential	5	20081431
RCI 25 NX	2.540	1.390	3.180	1.700	460 - 215	centrifugal	5	20081432
RCI 36 NX	3.600	2.100	4.380	2.560	706 - 335	centrifugal	3	20081433
RCI 38 NX	3.700	2.070	5.290	2.860	745 - 350	centrifugal	5	20081434
RCI 46 NX	4.500	3.000	6.400	4.050	965 - 531	centrifugal	3	20081436
RCI 55 NX	5.450	2.600	8.080	4.000	1.195 - 525	centrifugal	5	20081437
FAN COILS 4 PIPES					*			
RCI 15 NX 4T	1470	750	1510	600	350 - 125	tangential	5	20081447
RCI 25 NX 4T	2060	1190	2870	1830	460 - 215	centrifugal	5	20081450
RCI 36 NX 4T	2740	1700	3850	2500	706 - 335	centrifugal	3	20081454
RCI 38 NX 4T	3330	2020	4270	2730	745 - 350	centrifugal	5	20081455
RCI 46 NX 4T	3780	2650	5000	3360	965 - 531	centrifugal	3	20081456
RCI 55 NX 4T	5000	2750	6100	3900	1195 - 525	centrifugal	5	20081458

- 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 water 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
Supports kit	20081501
Valve kit for 2 pipes installations, 15-36 models	20035946
Valve kit for 2 pipes installations, 38-65 models	20035947
Valve kit for 4 pipes installations, 15-36 models	20035948
Valve kit for 4 pipes installations, 38-55 models	20035949

#### **CONTROLS**

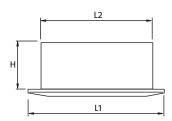
Description	Notes	Code
2 pipes "Plus" control (wall-mounted)	(1)	20081464
4 pipes "Plus" control (wall-mounted)	(1)	20081466
Water probe kit		20083809
Air probe kit	(2)	20083816
Winter/summer switch kit		20081496
Multiple kit	(3)	20081499

- Not included the water probe kit code 20083809. Sensor for remote reading. One control for each fan coil.

Fan coils - Cassette

# **RK N Hydroline**





• "Cassette" fan coils

Description	Н	L1	L2
Description	mm	mm	mm
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

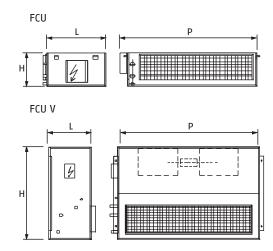
- Not included the water probe kit code 20083809.
- Sensor for remote reading. One control for each fan coil.

**HEAT PUMPS** 

Ductable fan coils

### FCU N





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 INSTALLA	MODELS FOR HORIZONTAL INSTALLATION									
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 INSTALLATION	N				*					
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)

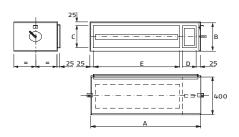
#### **ACCESSORIES**

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

<sup>(</sup>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.

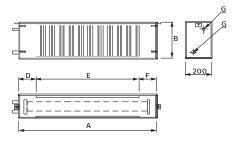
#### 2-WAYS INTAKE PLENUM WITH AIR DAMPER FOR FRESH AIR

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						
	Α	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			

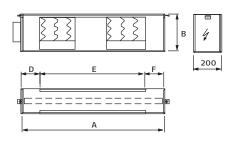
Destination	Description	Code
Model 09	Re-heating 2 rows water coils for FCU 09	4015942
Models 15-17	Re-heating 2 rows water coils for FCU 15-17	4015943
Model 21	Re-heating 2 rows water coils for FCU 21	4015944
Model 24	Re-heating 2 rows water coils for FCU 24	4015945
Models 36-43	Re-heating 2 rows water coils for FCU 36-43	4015946



Model	(inlet air te	Power heating Dimensions inlet air temperature mm 20 °C)		perature				
	kcal/h	kW	А	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)

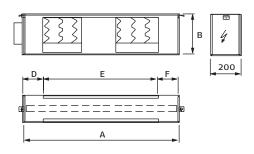
Destination	Description	Code
Model 09	Re-heating electric coil, single stage for FCU 09	4015947
Models 15-17	Re-heating electric coil, single stage for FCU 15-17	4015948
Model 21	Re-heating electric coil, single stage for FCU 21	4015949
Model 24	Re-heating electric coil, single stage for FCU 24	4015950
Models 36-43	Re-heating electric coil, single stage for FCU 36-43	4015951



Model	Power heating (inlet air temperature 20 °C)			[	imensior mm	าร	
	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

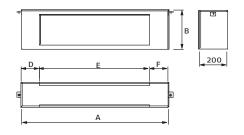


Model	Power heating (inlet air temperature 20 °C)			Ι	Dimensior mm	is	
	kcal/h	kW	Α	В	D	Е	F
Model 09	5.160	6,0	614	295	83	440	91
Models15-17	7.740	9,0	974	295	83	800	91
Model 21	7.740	9,0	1074	322	133	800	141
Model 24	10.320	12,0	1314	322	118	1070	126
Models 36-43	10.320	12,0	1314	372	118	1070	126

#### **OUTLET PLENUM**

**RIELLO** 

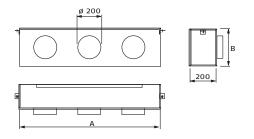
Destination	Description	Code
Model 09	Outlet plenum for FCU 09	4015957
Models 15-17	Outlet plenum for FCU 15-17	4015958
Model 21	Outlet plenum for FCU 21	4015959
Model 24	Outlet plenum for FCU 24	4015960
Models 36-43	Outlet plenum for FCU 36-43	4015961



Model	Dimensions mm					
	A B D E F					
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**

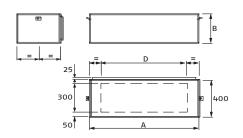
Destination	Description	Code
Model 09	Outlet plenum for round ducts for FCU 09	4015962
Models 15-17	Outlet plenum for round ducts for FCU 15-17	4015963
Model 21	Outlet plenum for round ducts for FCU 21	4015964
Model 24	Outlet plenum for round ducts for FCU 24	4015965
Models 36-43	Outlet plenum for round 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

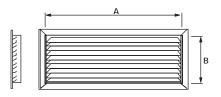


Model			
	А	В	D
Model 09	550	278	500
Models 15-17	910	278	800
Model 21	1010	302	800
Model 24	1250	302	1200
Models 36-43	1250	328	1200

HEAT PUMPS

#### INTAKE GRID WITH FIXED WINGS (FOR INTAKE PLENUM)

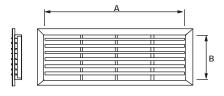
Destination	Description	Code
Model 09	Intake grid for FCU 09	4015972
Models 15-17-21	Intake grid for FCU 15-17-21	4015973
Models 24-36-43	Intake grid for FCU 24-36-43	4015974



	Model	Dimensions mm			
		А	В		
Мо	del 09	500	300		
Мо	dels 15-17-21	800	300		
Мо	dels 24-36-43	1200	300		

# OUTLET GRID WITH ADJUSTABLE WINGS (FOR OUTLET PLENUM) (TO INSTALL AFTER: "OUTLET PLENUM" OR AFTER "RE-HEATING OPERATION")

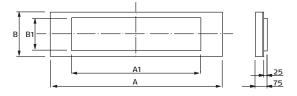
Destination	Description	Code
Model 09	Delivery grid for FCU 09	4015975
Models 15-17-21	Delivery grid for FCU 15-17-21	4015976
Models 24-36-43	Delivery grid for FCU 24-36-43	4015977



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 <b>4015978</b>	
Model 09	Adapter frame for FCU 09		
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   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		

Ö

WATER-HEATERS

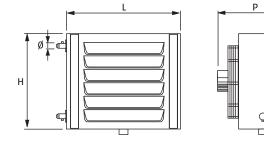
TERMINAL UNITS



Water hot air generators

### Nuovo Acu-Nuovo Acu F





- Heating and cooling versions
- Helicoidal fan

Description	H mm	L mm	P mm	Ø mm	Net weight kg
NUOVO ACU 12M	390	555	370	1"	14
NUOVO ACU 22M	440	605	396	1"	16
NUOVO ACU 32M	490	655	402	1"	19
NUOVO ACU 42M	540	705	402	1"	23
NUOVO ACU 52M	590	755	402	1"	25
NUOVO ACU 62M	640	805	402	1"	29
NUOVO ACU 72T	690	855	460	1"	40
NUOVO ACU 82T	690	1205	460	1" 1/4	58
NUOVO ACU 92T	690	1405	460	1" 1/4	70
NUOVO ACU 13M	390	555	370	1"	15
NUOVO ACU 23M	440	605	396	1"	18
NUOVO ACU 33M	490	655	402	1"	21
NUOVO ACU 43M	540	705	402	1"	24
NUOVO ACU 53M	590	755	402	1"	28
NUOVO ACU 63M	640	805	402	1" 1/4	32
NUOVO ACU 73T	690	855	460	1" 1/4	43
NUOVO ACU 83T	690	1205	460	1" 1/4	63
NUOVO ACU 93T	690	1405	460	1" 1/4	76
NUOVO ACU 23F	440	605	396	1"	18
NUOVO ACU 33F	490	655	402	1"	21
NUOVO ACU 43F	540	705	402	1"	24
NUOVO ACU 63F	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.

 $The \,NUOVO\,ACU\,consists\,of 2-ranks\,copper\,coils\,for\,standard\,applications\,and\,of\,3-ranks\,coils\,for\,applications\,with\,low\,temperature$ 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 (6 models)
- Double fan for 82T, 83T, 92T, 93T versions
- Wide range of accessories

#### The range consists of:

- 9 models with 2 row coils with output from 13,2 to 92,1 kW
- 9 models with 3 row coils with output from 17,3 to 114,9 kW
- 4 models for cooling with 3 row coils with output from 19,6 to 42,2 kW.

#### **TECHNICAL DATA (HEATING VERSION)**

Description	Power heating (*) kW	Air flow rate (**) m³/h	Motor	Nr. revs/min (***)	Code		
WATER HOT AIR GENERATOR WITH COPPER 2	WATER HOT AIR GENERATOR WITH COPPER 2 ROW COILS						
NUOVO ACU 12M	13,2	1.750	single-phase	1400-900-700	4152421		
NUOVO ACU 22M	17,7	2.450	single-phase	1400-900-700	4152423		
NUOVO ACU 32M	22,0	2.800	single-phase	1400-900-700	4152425		
NUOVO ACU 42M	28,3	3.600	single-phase	1400-900-700	4152427		
NUOVO ACU 52M	33,0	3.950	single-phase	1400-900-700	4152429		
NUOVO ACU 62M	40,5	5.200	single-phase	1400-900-700	4152431		
NUOVO ACU 72T	49,2	6.700	three-phase	900-700	4152413		
NUOVO ACU 82T	70,1	8.450	three-phase	900-700	4152415		
NUOVO ACU 92T	92,1	12.500	three-phase	900-700	4152417		
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	4152418		

<sup>(\*)</sup> Performance refer to the following conditions: ΔT water 85-70 °C, inlet air temparature +15 °C, 50% r.h., 1013 mbar, fan at the maximum speed. (\*\*) Performance refer to fan at the maximum speed. (\*\*\*) The variation of revolutions number can be obtained by applying specific accessories.

#### **TECHNICAL DATA (COOLING VERSION)**

Description	Power heating (*) kW	Power cooling (**) kW	Air flow rate m³/h	Motor	Nr. revs/min	Code
WATER HOT AIR GENERATOR WITH COPPER 3 I	ROW COILS FOR CO	DLING				
NUOVO ACU 23F	19,6	10,2	1.520	single-phase	900	4152501
NUOVO ACU 33F	24,5	12,9	1.900	single-phase	900	4152502
NUOVO ACU 43F	27,9	15,1	2.000	single-phase	900	4152503
NUOVO ACU 63F	42,2	21,5	3.150	single-phase	900	4152504

Performance refer to the following conditions:  $\Delta T$  water 85–70 °C, inlet air temparature +15 °C, 50% r.h., 1013 mbar. Performance refer to the following conditions:  $\Delta T$  water 7–12 °C, inlet air temperature +30 °C, 60% r.h., 1013 mbar.

#### **ACCESSORIES**

**RIELLO** 

Description	Destination	Code
Single-phase speed regulator kit (4 positions)	NUOVO ACU 12M-13M - NUOVO ACU 22M-23M-23F NUOVO ACU 32M-33M-33F - NUOVO ACU 42M-43M-43F NUOVO ACU 52M-53M - NUOVO ACU 62M-63M-63F	20092637
Three-phase control panel kit	NUOVO ACU T	4155602
Three-phase speed manual selector kit	NUOVO ACU T	4155604
Support brackets	NUOVO ACU - NUOVO ACU F - All models	4155606
Ceiling installation kit	NUOVO ACU 12M-13M	4155609
Ceiling installation kit	NUOVO ACU 22M-23M	4155611
Ceiling installation kit	NUOVO ACU 32M-33M	4155613
Ceiling installation kit	NUOVO ACU 42M-43M	4155615
Ceiling installation kit	NUOVO ACU 52M-53M	4155617
Ceiling installation kit	NUOVO ACU 62M-63M	4155619
Ceiling installation kit	NUOVO ACU 72T-73T	4155620
Ceiling installation kit	NUOVO ACU 82T-83T	4155622
Ceiling installation kit	NUOVO ACU 92T-93T	4155624
Vertical dampers kit	NUOVO ACU 12M-13M	4155626
Vertical dampers kit	NUOVO ACU 22M-23M-23F	4155628
Vertical dampers kit	NUOVO ACU 32M-33M-33F	4155630
Vertical dampers kit	NUOVO ACU 42M-43M-43F	4155632
Vertical dampers kit	NUOVO ACU 52M-53M	4155634
Vertical dampers kit	NUOVO ACU 62M-63M-63F	4155636
Vertical dampers kit	NUOVO ACU 72T-73T	4155638
Vertical dampers kit	NUOVO ACU 82T-83T	4155640
Vertical dampers kit	NUOVO ACU 92T-93T	4155642



SYSTEM	COMPL	<b>EMENT</b>	ARY I	TEMS	Û
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REMOTE CONTROLS	335
PLATE HEAT-EXCHANGERS	339
WATER CIRCULATORS	345

PRODUCT CATALOGUE

**HEAT PUMPS** 

WALL-HUNG BOILERS

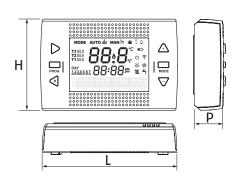
### **REMOTE CONTROLS**

PRODUCT CATALOGUE

Smart remote control

### **RICLOUD**





- Modulating control system
- Remote boiler interface
- Possibility to manage via App

Description	H	L	P
	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

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	20047522

**TERMINAL UNITS** 

#### **RANGE DESCRIPTION**

Drawing	Description	Code
RELID	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
NELLO  NELO  NELLO  NEL	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
RIGOUD	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
RIGIOUD	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.	20047522

<sup>(\*)</sup> Via BUS connection. (\*\*) In case of on-off functioning.

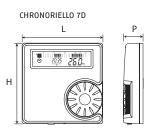
Thermostats and chronostats

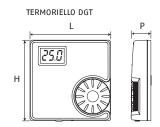
### ChronoRiello





• 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.

#### **CHRONORIELLO 7D**

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 segments.

#### **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

### PLATE HEAT-EXCHANGERS



WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

Plate heat-exchanger

## Riello HEATgate



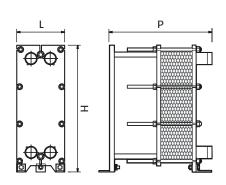


 Plate heat-exchangers for heat generators, heat pumps and solar applications

Description	Plates Nr.	Н	L	P
	from - to	mm	mm	mm
SP 20	11 - 29	470	200	252
JP 20	41 - 49	470	200	352
	17 - 27	755	200	251
SP 30	37	755	200	351
	53 - 69	755	200	552
	25 - 39	950	400	408
CD 2E	45 - 65	950	400	548
P 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							
Description	Plates Nr.	DN	MIX (*) %	Weight kg	Kit typ		Code
					Insulation	Feet	
HEAT-EXCHANGER AISI 316 L, WITH EPD				22	KIT C1	I/IT D1	20016720
SP 20 - DN32 29 (29A) E SP 20 - DN32 41 (41A) E	29	DN32	100	33		KIT P1	20016729
	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, WI	TH 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	20140420
SP 35 - DN50 95 (95A) N					KIT C19		
	105	DN50	100	143	KIT C20	KIT P2	20140423
SP 35 - DN50 121 (121A) N	121	DN50	100	151		KIT P2	
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	20140426
SP 40 - DN65 93 (93A) N	93	DN65	100	166	KIT C8	KIT P2	20140427
SP 40 - DN65 99 (99A) N	99	DN65	100	171	KIT C8	KIT P2	20140428
SP 40 - DN65 111 (111A) N	111	DN65	100	185	KIT C21	KIT P2	20140429
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 97 (97A) N	107	DN100	100	517	KIT C15	KIT P3	20140441
SP 60 - DN100 107 (107A) N	117	DN100	100	521	KIT C16	KIT P3	20083250
SP 60 - DN100 117 (117A) 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

<sup>(\*) %</sup> of high efficiency plates on the total (\*\*) See matching table with insulation kit page 342



#### **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

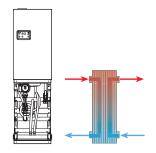
Instal	lation	power
IIIStai	iauon	power

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



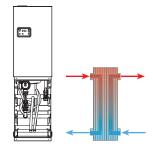
#### CONDENSING BOILER ON LOW TEMPERATURE INSTALLATION

#### 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	H₂O	60	40	≤10
	Secondary	H₂O	30	40	≤ 31



NOTE: check ever the pressure drop

#### SOLAR THERMAL WITH SWIMMING POOL

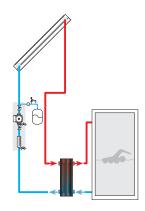
#### Installation power

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

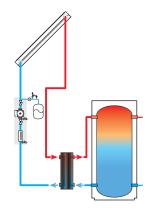
#### Installation power

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		



#### INSTANTANEOUS DHW PRODUCTION

#### Installation power

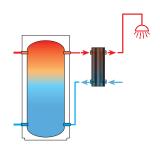
**RIELLO** 

kW	Code	Model
50	20016734	SP 30 - DN32 17 (17A) E
75	20016735	SP 30 - DN32 27 (27A) E
115	20016736	SP 30 - DN32 37 (37A) E
130	20014230	SP 40 - DN65 19 (19A) N
150	20014218	SP 40 - DN65 23 (23A) N
180	20014219	SP 40 - DN65 27 (27A) N
240	20014235	SP 40 - DN65 35 (35A) N
350	20014232	SP 40 - DN65 47 (47A) N
450	20140425	SP 40 - DN65 67 (67A) N
525	20140427	SP 40 - DN65 93 (93A) N
600	20140429	SP 40 - DN65 111 (111A) N

NOTE: check ever the pressure drop

#### Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	H₂O	50	30	≤ 20
Secondary	H₂O	10	43	≤ 20



### WATER CIRCULATORS



### SINGLE PUMP

#### VEGA RMXA-RMYA



VARIABLE SPEED

4,1 - 7,9 H<sub>MAX</sub> (mca)

page 346



VEGA RMDA

5,0 - 12,0 H<sub>MAX</sub> (mca)

page 349



#### VEGA RGDA



5,4 - 17,3 H<sub>MAX</sub> (mca)

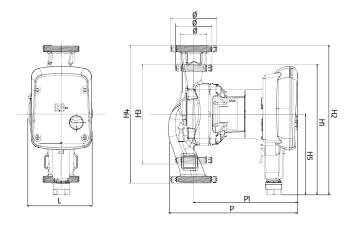
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2019 EDITION

### **Water Circulators**

### Vega RMXA-RMYA







- Domestic electronic single pump
- ErP ready

Description	H1 mm	H2 mm	H3 mm	H4 mm	H5 mm	L mm	P mm	P1 mm	Ø mm	Net weight kg
VegA RMXA 25-40	_	195	-	180	105	94	161	127	DN25	2
VegA RMXA 25-60	_	195	-	180	105	94	161	127	DN25	2
VegA RMXA 32-40	_	195	-	180	105	94	161	127	DN32	2,275
VegA RMXA 32-60	-	195	_	180	105	94	161	127	DN32	2,275
VegA RMXA 32-80	-	195	_	180	105	94	169	135	DN32	2,425
VegA RMYA 15-40	170	_	130	-	105	94	161	127	DN15	1,9
VegA RMYA 15-60	170	_	130	-	105	94	161	127	DN15	1,9
VegA RMYA 15-80	170	_	130	-	105	94	169	135	DN15	2,15
VegA RMYA 25-40	170	_	130	-	105	94	161	127	DN25	2
VegA RMYA 25-60	170	-	130	-	105	94	161	127	DN25	2
VegA RMYA 25-80	170	-	130	-	105	94	169	135	DN25	2,15

These circulators are able to automatically adapt their speed, depending on the system pressure request. Riello VegA has a permanent magnet rotor: in this way we have an energy savings up to 82% compared to standard circulation

#### Main characteristics:

- Glandless circulator with screwed connections and EC motor
- Night function: pump runs in setback operation at minimum speed
- Simple adjustment: the performance is determined according to the needs of the installation
- Motor torque higher than a standard circulator
- Compatible with systems regulated by thermostatic zone valves
- The electrical connection can be made either on the right or on the left of the control box (single-phase 230 V-50 Hz)
- Electrical wiring is possible without the use of any tools.

- Maximum operating pressure: 6 bar
  Operating temperature: from -10 °C to + 95 °C
  Protection class: IP X2D.

**HEAT PUMPS** 

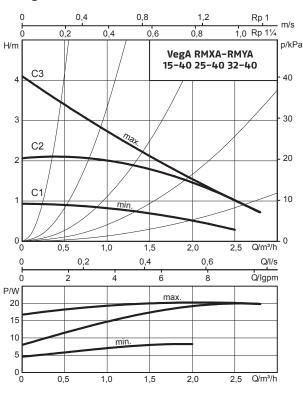
**TERMINAL UNITS** 

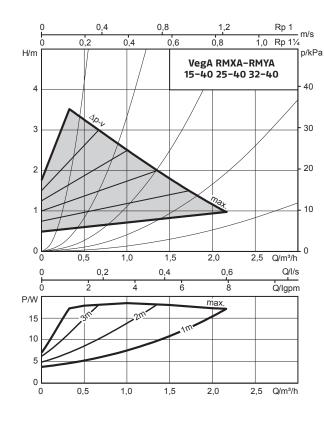
#### **TECHNICAL DATA**

Description	Flow rate Q max m³/h	H max mca	Code
VegA RMXA 25-40	2,8	4,1	20061642
VegA RMXA 25-60	3,8	6	20061645
VegA RMXA 32-40	2,8	4,1	20061643
VegA RMXA 32-60	3,8	6	20061646
VegA RMXA 32-80	4,9	7,9	20061647
VegA RMYA 15-40	2,8	4,1	20061653
VegA RMYA 15-60	3,8	6	20061649
VegA RMYA 15-80	4,9	7,9	20061651
VegA RMYA 25-40	2,8	4,1	20061648
VegA RMYA 25-60	3,8	6	20061650
VegA RMYA 25-80	4,9	7,9	20061652
CONNECTIONS			
BCT 15 pipe connection (DN15)			4322910
BCT 25 pipe connection (DN25)			4322904
BTCT 32 pipe connection (DN32)			4322906

#### **HYDRAULIC PERFORMANCE**

VegA RMXA 25-40 32-40 VegA RMYA 15-40 25-40

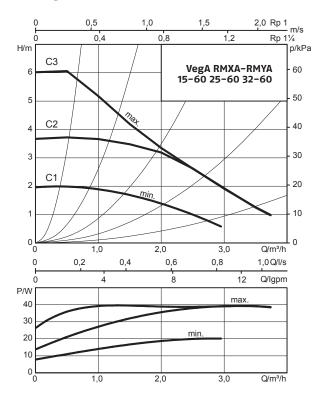


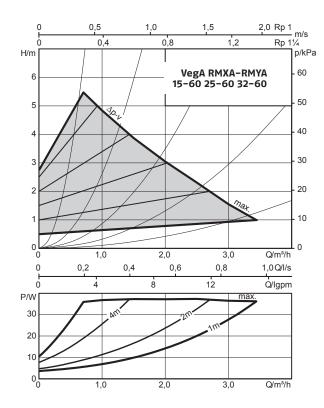


**TERMINAL UNITS** 

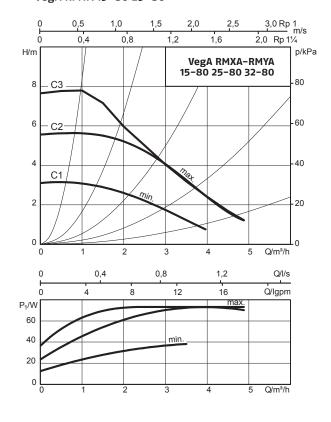
#### VegA RMXA 25-60 32-60 VegA RMYA 15-60 25-60

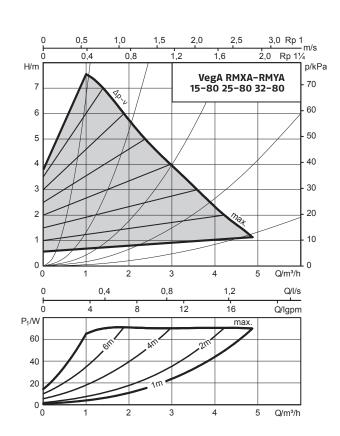
**RIELLO** 





#### VegA RMXA 32-80 VegA RMYA 15-80 25-80

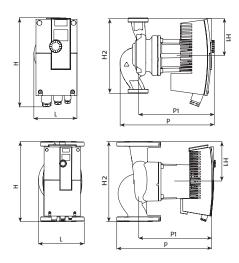




**Water Circulators** 

### VegA RMDA







- High efficiency single pump
- ErP ready

Description	H mm	H1 mm	H2 mm	L mm	P mm	P1 mm	Ø mm	Net weight kg
VegA RMDA 32-60	203	90	180	102	225	181	1" 1/4	4,2
VegA RMDA 32-70	226	110	220	118	251	203	DN32	9
VegA RMDA 32-90	226	90	180	115	251	200	1'' 1/4	5,5
VegA RMDA 40-30	203	110	220	150	252	176	DN40	8,3
VegA RMDA 40-60	226	110	220	150	278	202	DN40	9,2
VegA RMDA 40-80	256	125	250	150	327	252	DN40	14
VegA RMDA 50-70	256	140	280	165	339	256	DN50	15,5
VegA RMDA 50-80	256	140	280	165	339	256	DN50	15,5
VegA RMDA 65-80	256	140	280	175	349	256	DN65	17,5
VegA RMDA 65-90	320	170	340	186	418	325	DN65	29
VegA RMDA 80-90	320	180	360	203	429	328	DN80	31

Range of electronic circulators with high efficiency motor that guarantee high performance and energy saving (up to 80% compared to traditional pump) thanks to an electronic management system that allows to adjust the power of the rotor. Possibility to select the differential pressure regulation according to a specific prevalence interval (Δp-v), a constant pressure  $(\Delta p-c)$  or by a measured fluid temperature  $(\Delta p-T)$ .

Circulators suitable for hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems.

#### Technical characteristics

- Permanent lubrication of bearings
- Low energy consumption
- Silent operation
- Automatic anti-lock system
- Systems equipped with memory for storage the operating data / anomaly
- Easy electrical connections
- Automation: 230 V at 50 Hz

#### Limits of use

- Maximum operating pressure: 10 bar
- Temperature range: from -10 °C to 110 °C
- Protection class: IP 55

#### **TECHNICAL DATA**

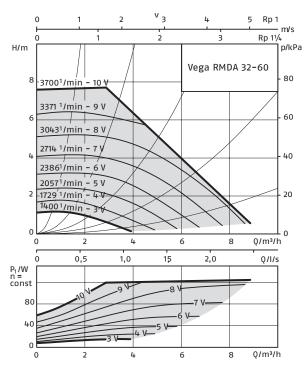
**RIELLO** 

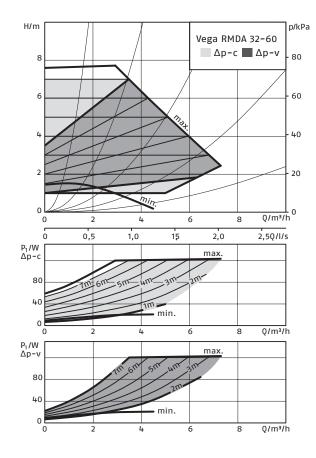
Description	Volume flow Q max m³/ h	H max mca	Notes	Code
VegA RMDA 32-60	9	7		20045841
VegA RMDA 32-70	15	9		20061669
VegA RMDA 32-90	12	12		20045842
VegA RMDA 40-30	13	5		20045843
VegA RMDA 40-60	16	8		20045844
VegA RMDA 40-80	22	12		20045845
VegA RMDA 50-70	27	9		20045846
VegA RMDA 50-80	29	12		20045847
VegA RMDA 65-80	29	12		20061671
VegA RMDA 65-90	44	10		20045849
VegA RMDA 80-90	61	12		20045850
Comunication module			(1)	20045865

<sup>(1)</sup> The module has a 0-10 V input for ON-OFF remote: allows the management of two electric motors. Order one for each motor.

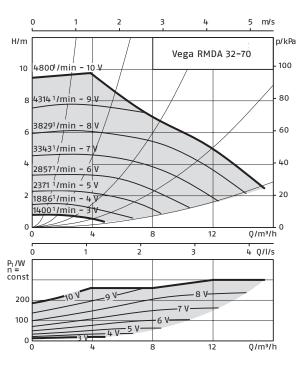
#### **HYDRAULIC PERFORMANCE**

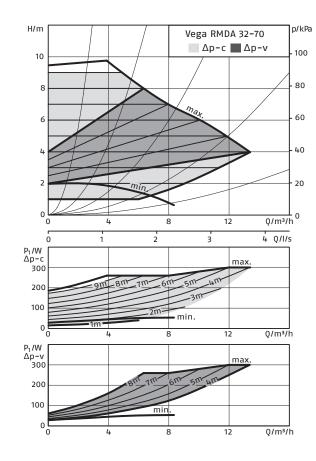
#### VegA RMDA 32-60



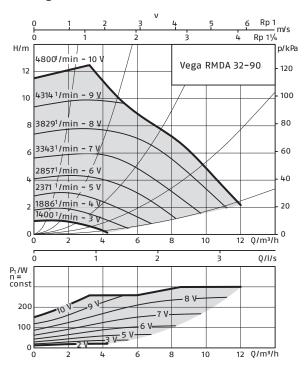


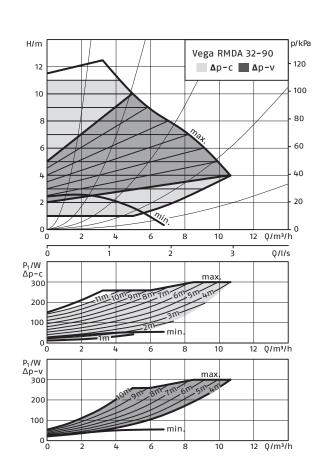
#### VegA RMDA 32-70





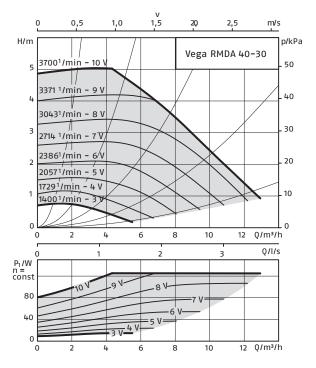
#### VegA RMDA 32-90

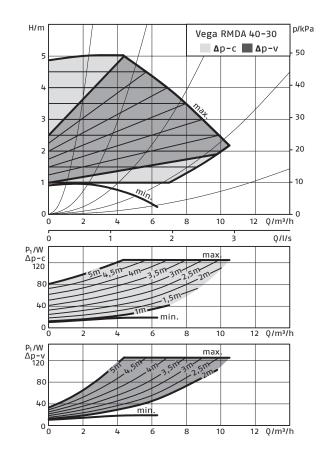




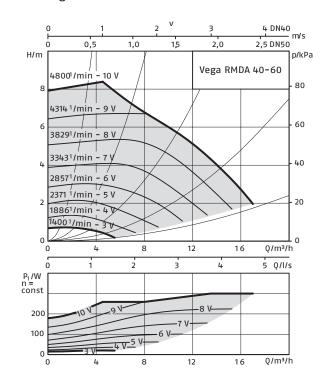
#### VegA RMDA 40-30

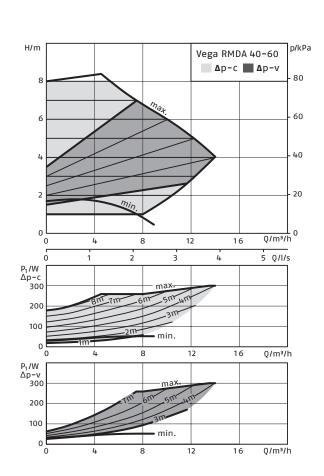
**RIELLO** 



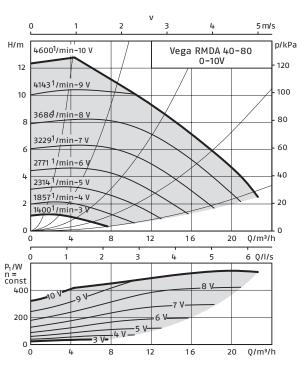


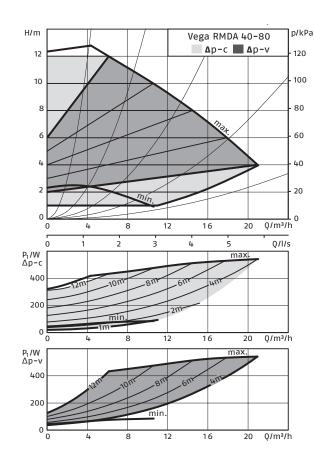
#### VegA RMDA 40-60



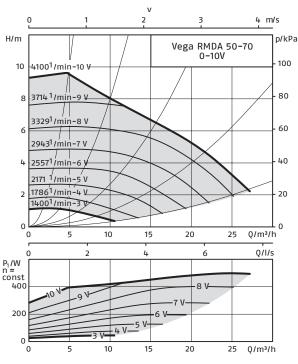


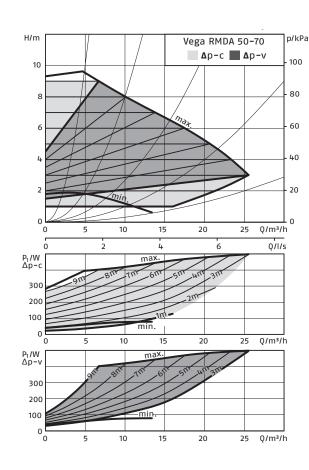
#### VegA RMDA 40-80





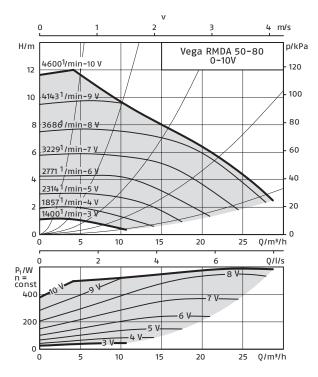
#### VegA RMDA 50-70

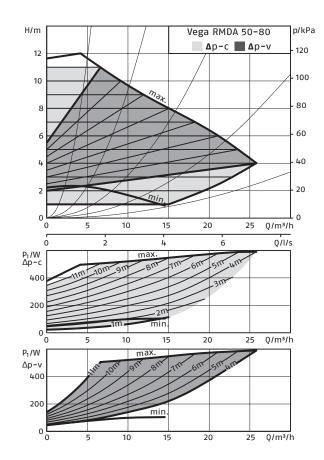




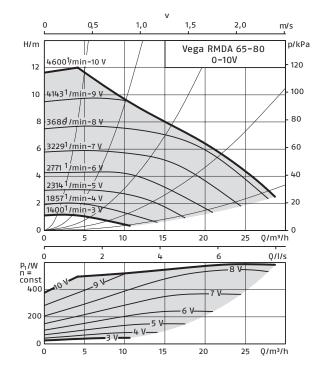
#### VegA RMDA 50-80

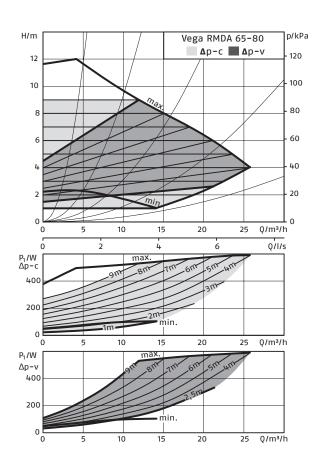
**RIELLO** 



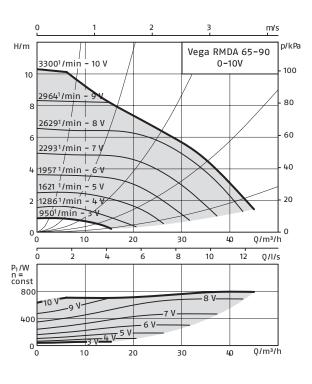


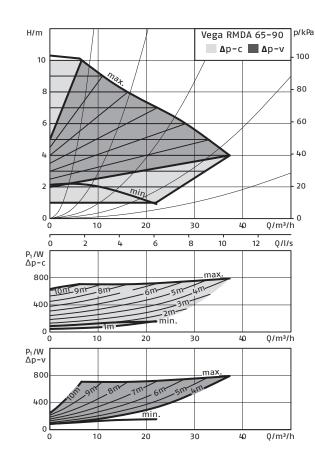
#### VegA RMDA 65-80



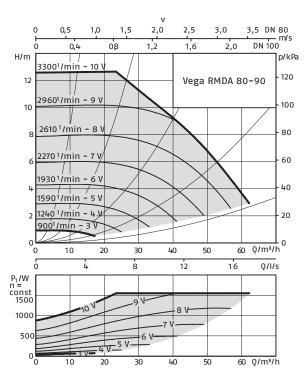


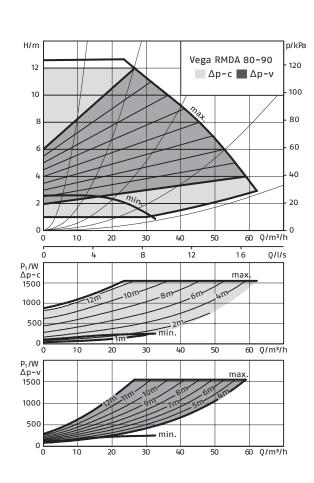
#### VegA RMDA 65-90





#### VegA RMDA 80-90

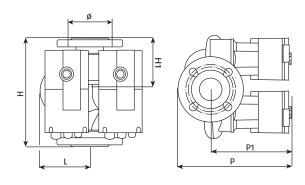




**Water Circulators** 

### VegA RGDA





- Electronic double pump
- ErP ready

Description	H mm	H1 mm	L mm	P mm	P1 mm	ø mm	Net weight kg
VegA RGDA 40-60	220	110	125	275	199	DN40	17
VegA RGDA 40-80	250	125	151	327	252	DN40	25
VegA RGDA 50-60	240	120	125	287	203	DN50	19
VegA RGDA 50-70	280	140	159	339	256	DN50	27
VegA RGDA 50-80	280	140	159	339	256	DN50	27
VegA RGDA 65-90	340	170	221	389	309	DN65	51
VegA RGDA 80-90	360	180	235	429	328	DN80	61

Range of electronic circulators with high efficiency motor that guarantee high performance and energy saving (up to 80% compared to traditional pump) thanks to an electronic management system that allows to adjust the power of the rotor. Possibility to select the differential pressure regulation according to a specific prevalence interval (Δp-v), a constant pressure

(Δp-c) or by a measured fluid temperature (Δp-T). Circulators suitable for hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems.

#### Technical characteristics

- Permanent lubrication of bearings
- Low energy consumption
- Silent operation
- Automatic anti-lock system
- Systems equipped with memory for storage the operating data / anomaly
- Easy electrical connections
- Automation: 230 V at 50 Hz

#### Limits of use

- Maximum operating pressure: 10 bar
- Temperature range: from -10 °C to 110 °C
- Protection class: IP 55

**HEAT PUMPS** 

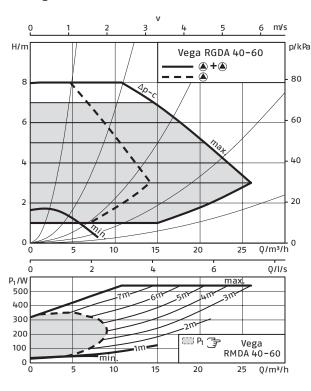
#### **TECHNICAL DATA**

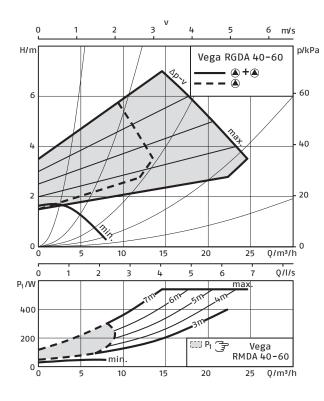
Description	Volume flow Q max. m³/h	H max mca	Notes	Code
VegA RGDA 40-60	25	8		20103242
VegA RGDA 40-80	33	12		20103227
VegA RGDA 50-60	25	8		20103256
VegA RGDA 50-70	38	9		20103247
VegA RGDA 50-80	39	12		20103230
VegA RGDA 65-90	65	10		20103231
VegA RGDA 80-90	106	12		20103237
Comunication module			(1)	20045865

<sup>(1)</sup> The module has a 0-10 V input for ON-OFF remote: allows the management of two electric motors. Order one for each motor.

#### **HYDRAULIC PERFORMANCE**

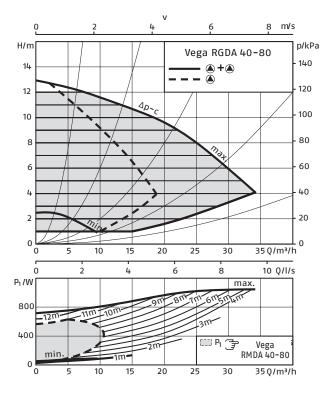
#### VegA RGDA 40-60

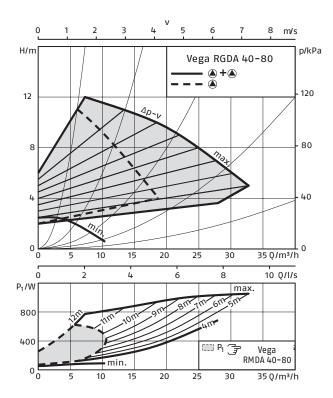




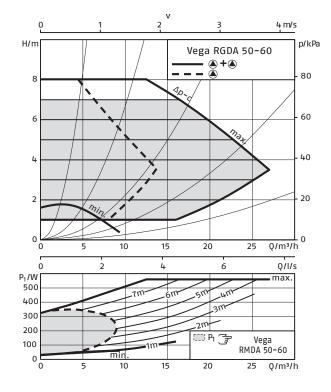
#### VegA RGDA 40-80

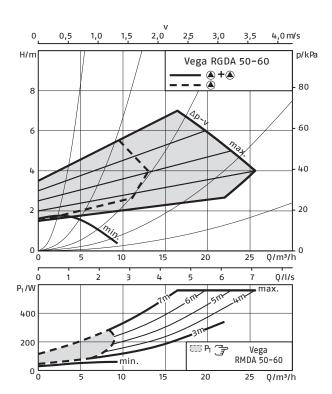
**RIELLO** 

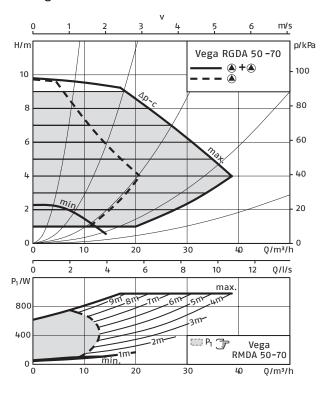


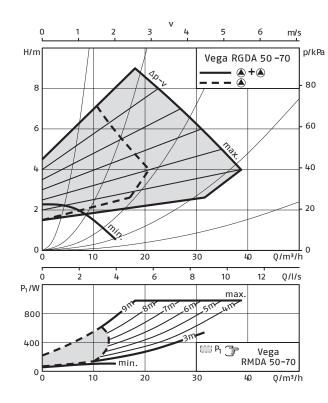


#### VegA RGDA 50-60

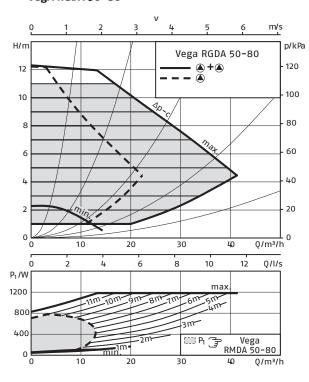


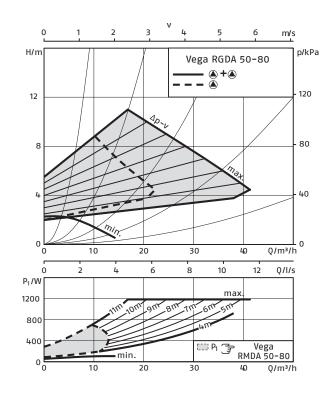






#### VegA RGDA 50-80

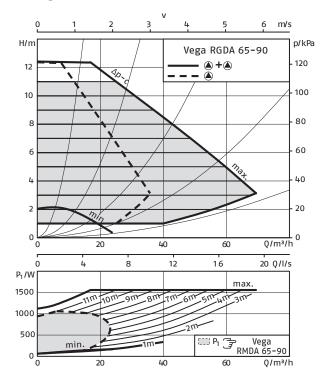


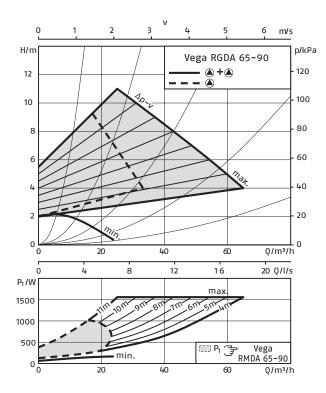


**TERMINAL UNITS** 

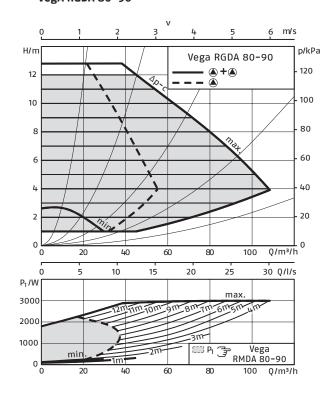
#### VegA RGDA 65-90

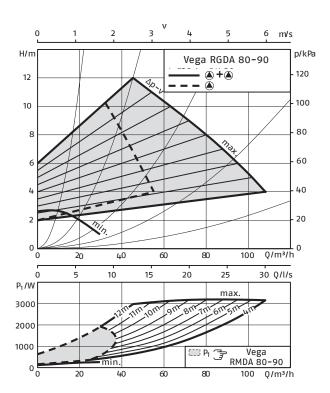
**RIELLO** 





#### VegA RGDA 80-90





# Certificate

Standard ISO 9001:2015

Certificate No. 39 00 2281611

TÜV Rheinland Italia S.r.l. certifies:

Certificate Holder: RIELLO S.p.A

HQ

Via Ing. Pilade Riello, 7

37045 San Pietro di Legnago (VR)

Italy

Design, manufacture sales and service of: burners for residential Scope:

> heating and for commercial and industrial application; wall hung boilers and water heaters; units, floor-standing boilers and heating systems; solar collectors and solar boilers. Sales and assistance of its own brand traded products for heating; products for conditioning and cooling, products for cogeneration and trigeneration; system accessories; spare parts and accessories; moduls, solar inverter

and structures for photovoltaic systems.

IAF sector: 18

> Proof has been furnished by means of an audit that the requirements according to ISO 9001:2015 are fulfilled.

The due date for all future audits is 11-19.

The certificate is valid from 2016-12-11 until 2019-12-10. Validity:

First certification 1992.

2017-01-13

TÜV Rheinland Italia S.r.l., Via E. Mattei, 3 I - 20010 Pogliano Milanese (MI)









Note	

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