CLIVET

GUIDE ***2025***

PRODUCTS AND SYSTEMS

HOME

2025

CLIVET

OFFICIAL
AIR CONDITIONING &
AIR QUALITY PARTNER

This document is dedicated to those looking for advanced and specialized solutions for heating and cooling.

Solutions able to increase the comfort level in the places where we live, work and spend our free time.

Complete year round systems, focused on substantial energy savings and less dependency on the fossil fuels used by traditional HVAC solutions, such as natural gas or oil.

INSPIRING SOLUTIONS

This document is printed every year and presents all Clivet's products with the aim of providing a basis for decisions and evaluations.

More detailed information, updated regularly, is available in the “SYSTEMS AND PRODUCTS” area at www.clivet.com and on Clivet Apps, where they can be downloaded free of charge.

To keep up to date with Clivet news, follow us on our social networks:

CLIVET. INSPIRING SOLUTIONS

HEAT PUMPS:

- ✓ Refrigerant-split
- ✓ Monobloc
- ✓ Hydro-Split
- ✓ Boilers for Hybrid heat pumps

ACCESSORY PRODUCTS TO HEAT PUMPS:

- ✓ Domestic hot water boilers
- ✓ Thermal solar

FAN COILS

HEAT PUMPS FOR DHW (Domestic Hot Water)

CONTROLLED MECHANICAL VENTILATION WITH RE-COVERY

COMFORT AND ENERGY MANAGEMENT SOLUTIONS

NATURAL COMFORT

REASONS TO BELIEVE IN A MORE COMFORTABLE FUTURE, THANKS TO CLIVET.

Over 35 years of expertise in heat pumps.

Clivet has been leading the way in heat pump innovation since 1989. We were among the first to recognise the technology's potential for efficient and sustainable comfort — and our dedication to innovation hasn't wavered since.

Purpose-built solutions.

Clivet engineer its solutions from the ground up to offer specialised systems designed for a diverse range of applications and environments. Boasting the widest range of heat-pump solutions, our flexible, adaptable approach ensures a perfect fit for your specific requirements.

Crafted in Europe.

As a European company from the start, we understand the unique needs and demands of this market. Our heat pump solutions are designed with your comfort in mind, considering everything from climate variations to specific building requirements.

A simplified product experience

Clivet systems streamline every step, from simplified design and installation to effortless operation and control. Engineered for efficiency from the ground up, Clivet delivers unparalleled ease of use, lower operating costs, and a lasting commitment to sustainability.

COMFORT FOR THE PLANET & PEOPLE

OUR NUMBERS

36
AGENCIES
IN ITALY

53.500 M²
OF PLANTS IN
FELTRE - BELLUNO
VERONA (UTA PRODUCTION)

100
COUNTRIES WE
EXPORT TO

1000
EMPLOYEESI
IN ITALY AND
ABROAD

290
WHOLESALERS WITH
CONTRACT

8 BRANCHES:
GREAT BRITAIN,
GERMANY, INDIA,
RUSSIA, UAE, CHINA,
BALKANS AND FRANCE

185
SERVICE CENTRES

2023

THE FIRST
SUSTAINABILITY
REPORT

2016
STRATEGIC ALLIANCE
WITH MIDEA GROUP

2024
MIDEA
GROUP 277 FORTUNE GLOBAL 500

48.5 BN €
OF MIDEA TURNOVER 2023

New products

The new Hydro-split heat pumps

New category of heat pumps with hydraulic connection between indoor and outdoor units, designed for easy installation without an F-GAS licence. The indoor units can be customised to the actual needs of the system and also combined with all the packaged units in the range, in a complete and highly versatile system.

TOWER Version

BOX Version

MINI Version

INVISIBLE Version

NEW PRODUCTS

Even more eco-friendly heat pumps

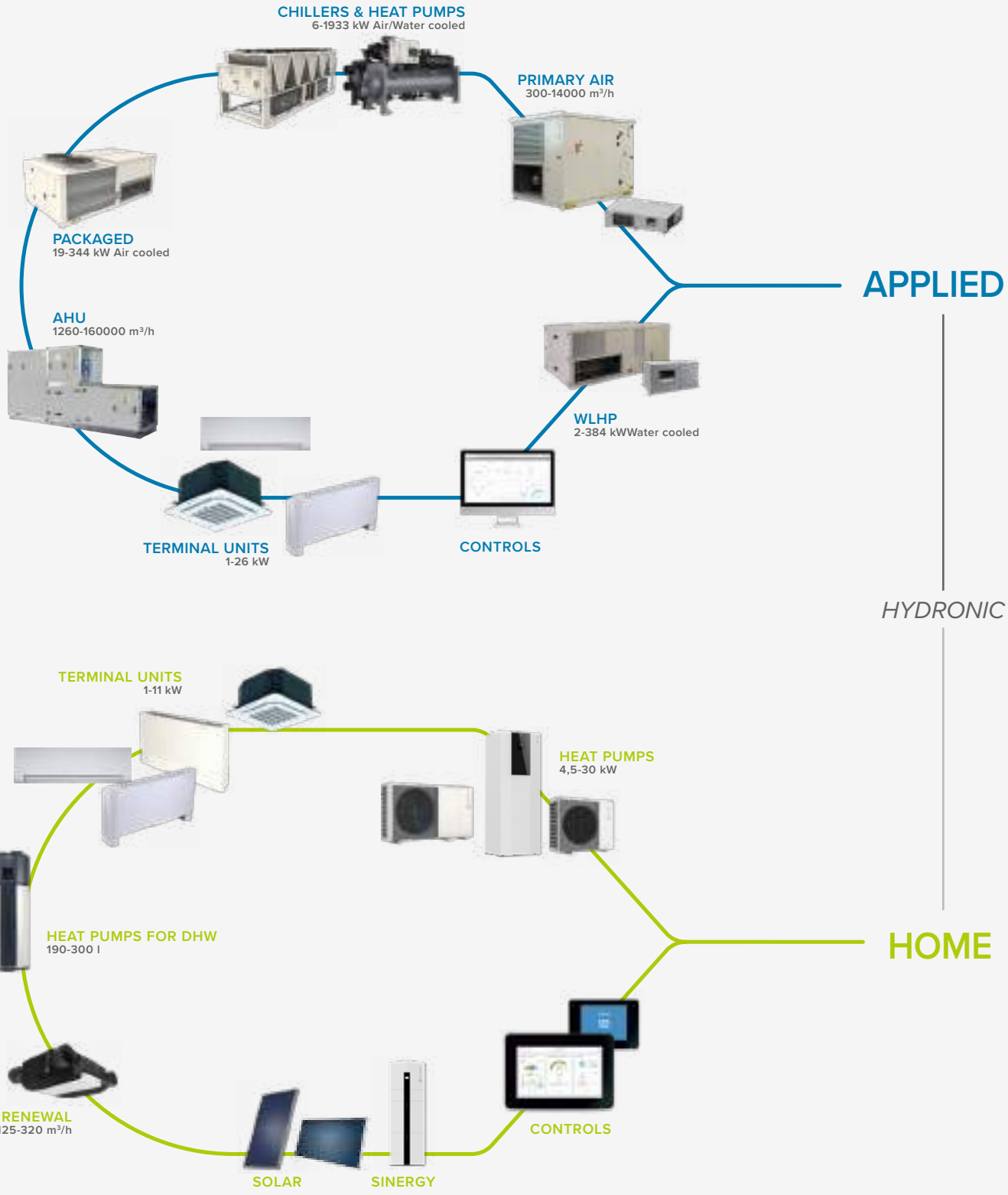
Available in both packaged and hydro-split versions, the new Edge F range with R-290 refrigerant pioneers a new technology that is even more environmentally friendly

Edge EVO 2.0 gets another update

The range of heat pumps with R-32 refrigerant is renewed with the introduction of the KJRH-120L2 controller. In addition to an improved graphic interface and advanced functionality, this component is required for coupling with the new Hydro-split modules.

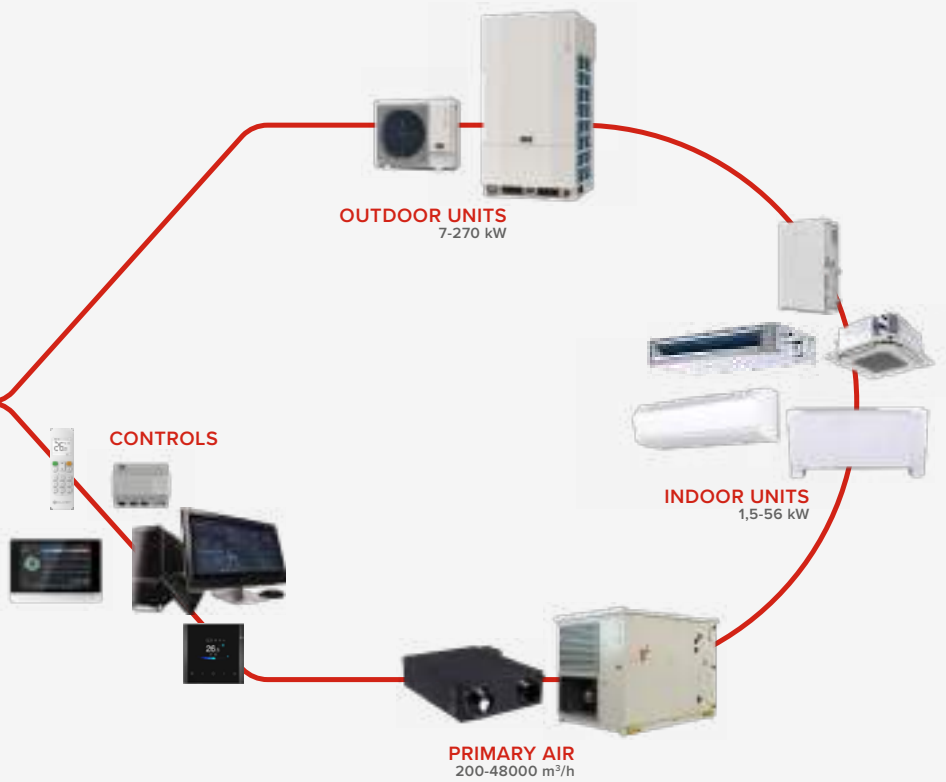
ALL TECHNOLOGIES FOR

A COMPLETE PROPOSAL



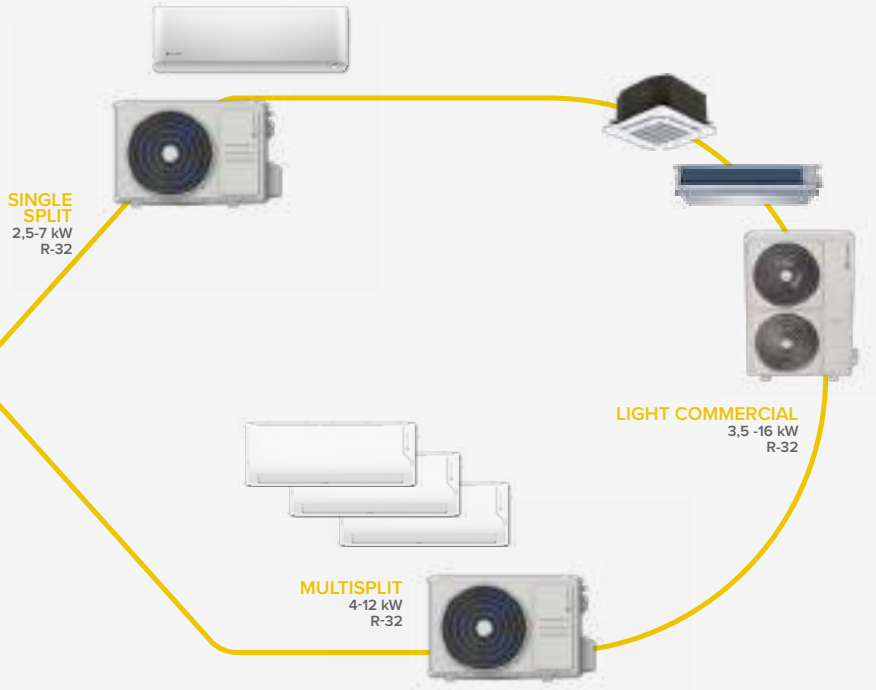
Heating, cooling, air renewal and domestic hot water production

VRF



DIRECT EXPANSION

SINGLE/MULTI|SPLIT



Available only on selected Countries: please check with our Sales Team if Clivet direct expansion VRF and SPLIT Systems are available in your Country.

HOME

The range Clivet HOME

Heat pumps

Refrigerant-split

	SPHERA EVO 2.0		4 ÷ 16 kW
	SPHERA EVO 2.0 Box		4 ÷ 16 kW
	SPHERA EVO 2.0 Invisible	Integr. boiler *(optional)*	4 ÷ 10 kW 24 kW (boiler)
	SPHERA EVO 2.0 EASYHybrid Box	Integr. Boiler	4 ÷ 16 kW 24 ÷ 34 kW (boiler)
	SPHERA EVO 2.0 EASYHybrid Tower	Integr. Boiler	4 ÷ 16 kW 24 ÷ 34 kW (boiler)

Monobloc

	EDGE EVO 2.0 - EXC		4 ÷ 30 kW
	EDGE F	R-290	4 ÷ 15 kW

Hydro-split

	TOWER Version*NEW*	R-290 *(optional)*	4 ÷ 16 kW
	BOX Version*NEW*	R-290 *(optional)*	4 ÷ 16 kW
	INVISIBLE Version*NEW*	R-290 *(optional)* Integr. boiler *(optional)*	4 ÷ 10 kW 24 ÷ 34 kW (boiler)
	MINI Version*NEW*	R-290 *(optional)*	4 ÷ 16 kW

Boilers for Hybrid heat pumps

	Gas Boiler FE	24 ÷ 34 kW
	Gas Boiler UC	24 ÷ 200 kW

Accessory products for heat pumps

	Boilers for domestic hot water	200 ÷ 1.000 l
	ELFOSUN[3] - thermal solar	2 ÷ 2,5 m²

Fan-coils

	MOOD		DC Motor	2,7 ÷ 4,9 kW
	ELFORoom[2]		DC Motor	0,9 ÷ 3,7 kW
	AURA	AC Motor	DC Motor	1,5 ÷ 8,3 kW
	ELFOSPACE BOX3		DC Motor	3,0 ÷ 11,2 kW

Heat pumps for domestic hot water

	AQUA Plus	190-300 l

Controlled Mechanical Ventilation with recovery

	ELFOFRESH EVO	Full Inverter DC	125 ÷ 320 m³/h

Comfort management solutions

	HID-TConnect[2]	-
	CONTROL4 NRG	-
	Sinergy - storage for solar photovoltaics	5 ÷ 20 kWh

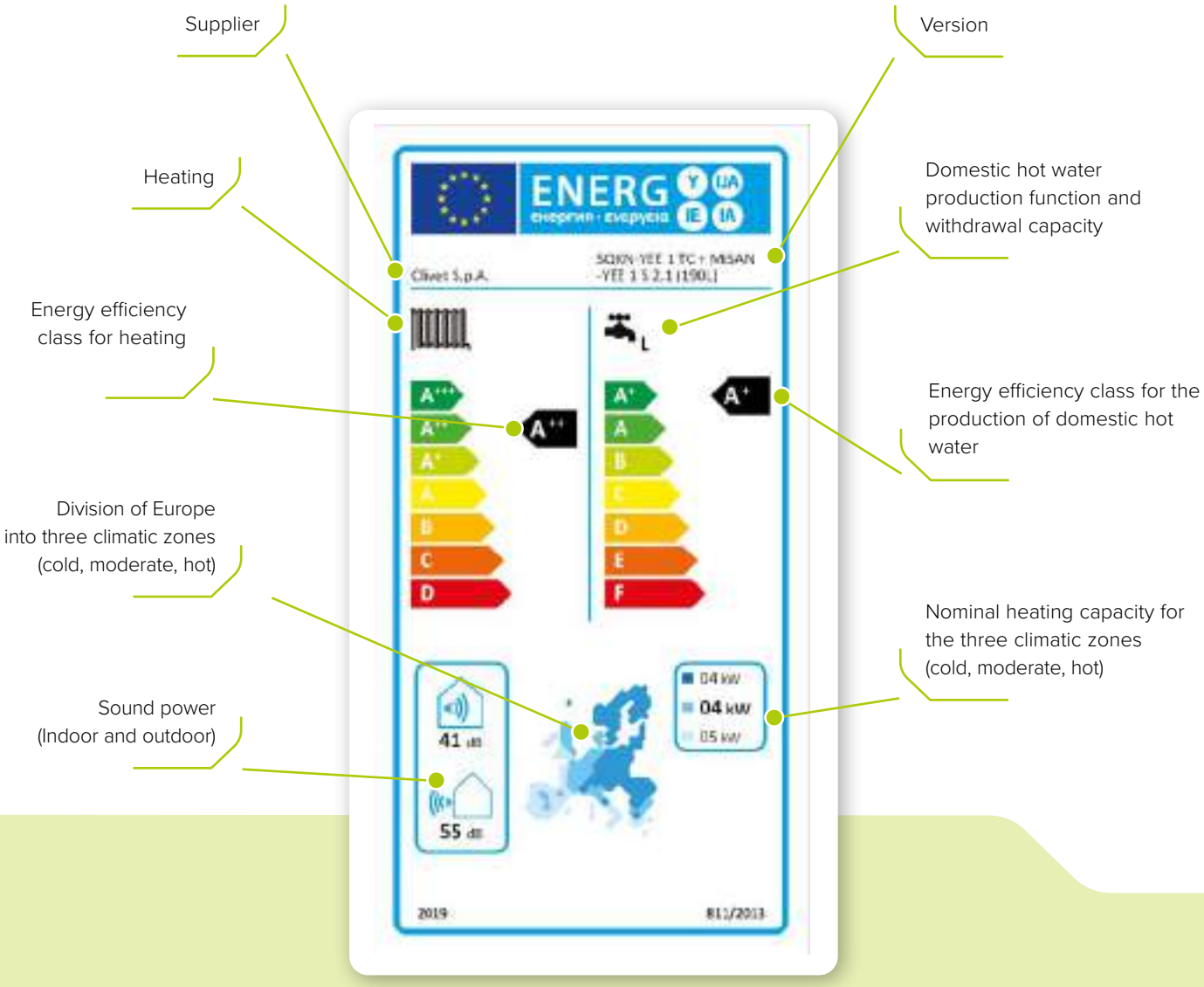
For the symbols, see the Icon Key at the back of the catalogue

ErP - Energy Related Products

The Delegated Regulations on ErPs (Energy-related Products) came into force on 26 September 2015 and are aimed at reducing energy consumption and supporting the most efficient solutions.
The regulations apply to heat generators used to heat rooms, appliances for domestic hot water production and systems consisting of a combination of several elements:

- ✓ All appliances with rated heating capacity up to 400 kW and boilers up to 2000 litres must comply with the requirements for environmentally compatible design, also based on minimum seasonal energy efficiency values;
- ✓ Only appliances with heating capacity up to 70 kW and boilers up to 500 litres must also comply with maximum noise level values (for heat pumps) and energy labelling.

Clivet's specialised systems considerably exceed the strict requirements of these directives.



PRODUCT LABEL

It indicates the seasonal energy efficiency of a product according to a scale ranging from A+++ to D: it distinguishes heating efficiency from heating for the production of domestic hot water (DHW), reporting both in the case of products that can provide both services.

It also reports other useful information such as capacity and consumption in the various climate zones, noise levels, etc.

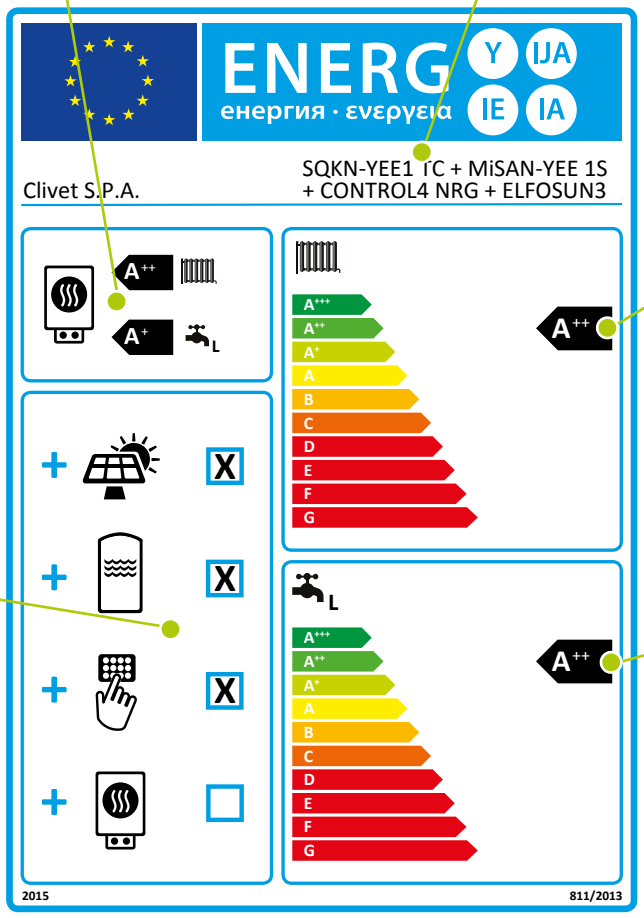
Energy efficiency class of the appliance for heating and for the production of domestic hot water

Models that are part of the system

Overall heating energy efficiency class

Information on whether a solar manifold, a hot water tank, a temperature control device and/or an appliance for additional heating can be included in the set

Energy efficiency class for the production of domestic hot water as a whole



SYSTEM LABEL

Indicates the energy efficiency for the installed system.
A system is the set of single products, in any combination, operating as a whole.
For instance, a heat pump, a boiler, a thermal solar system and electronic control for the system: if they work as a single system, their energy performance can be calculated as a combination of the individual components.

Clivet's complete system approach, which is based on the energy benefits of controlled mechanical ventilation with thermodynamic recovery and control over the entire system, allows for higher seasonal efficiency levels compared to those required by current directives.

CLIVET COMBINES THE BEST TECHNOLOGY

with an excellent product quality and performance certification system

The innovation for which Clivet has always stood out, is supported by an industrial framework that has adopted the standards envisaged by ISO 9001, since 1996, guaranteeing a quality management system designed to control company processes so that they are targeted at improving the efficacy and efficiency of the organisation, as well as at client satisfaction. In 2021 the Innovation Centre, Clivet's new centre for technological innovation, was officially opened with two new test rooms where Clivet can carry out functional, performance, acoustic, vibration and stress tests, with air temperatures from -20°C to +60°C, for units up to 2.5 MW with new refrigerants with a low environmental impact. Customers can attend the tests both at the Innovation Centre and online.

Clivet uses latest generation sheet metal folding, press and cutting machines for the mechanical production of its components. High product quality standards are also guaranteed by the use of patented electronic controls.
Clivet only uses non-toxic and low environmental impact alloys for soldering, insulation and gases that comply with the strictest European standards, and the best components available on the market.

They optimise the solution based on the needs of the **various applications** and integrate it in specialised products and in complete dedicated systems:

With the aim of providing Customer satisfaction, Clivet S.p.A. has supplemented and certified its Quality, Environment and Safety Management Systems, in accordance with the ISO 9001, ISO 14001 and ISO 45001 International Standards.

Clivet is committed in promoting the green building principles and has become a member of GBC Italia. This organization collaborates with **GBC Italia**,, the U.S. nonprofit organization that promotes worldwide the **LEED®** system of independent certification.

In 2015, Clivet became a partner of **CasaClima**, as a result, Clivet is now part of a network of companies renowned for their technical expertise and constant focus on sustainable home management.
Where applicable.
https://www.agenziacasaclima.it/en

KEYMARK is a mark recognized in many European countries for the provision of incentives for the installation of heat pumps for room heating and the production of domestic hot water.
The countries that recognize the mark and the Certified Products are available on https://keymark.eu/en/products/heatpumps/heat-pumps. Where applicable.

Clivet participates in the EUROVENT "Liquid Chilling Packages and Heat Pumps", "Rooftops", "Air Handling Units" and "VRF" Certification programmes. The products concerned feature in the EUROVENT guide to certified products and on the website www.eurovent-certification.com. The programmes cover water chillers and heat pumps up to the limits set by the purpose of each programme.
Where applicable.
Check the validity of the current certificate: www.eurovent-certification.com

The wide range of Clivet products and complete systems comply with the requirements of the implementing measures for ErP (Energy related Products) Directives 2009/125/EC (Eco-design) and 2010/30/EU (Energy labelling), whose purpose is to reduce the energy consumption of products for heating, cooling, ventilation and hot water production, encouraging the user towards energy-efficient choices.
Directives 2009/125/EC and 2010/30/EU include the following Regulations: (EU) 206/2012, (EU) 626/2011; (EU) 811/2013, (EU) 812/2013, (EU) 813/2013, (EU) 814/2013; (EU) 1253/2014, (EU) 1254/2014; (EU) 2016/2281.

Clivet is involved in the OLTRE IL GREEN project to promote sustainability and the circular economy together with the other members of SAFE, the system of consortia for the circular economy that works to raise awareness on environmental issues, waste management and recovery, education and training on environmental protection, and research on environmental protection.

A solution for every home

NEW BUILDINGS

Building and system working together as one

Solutions designed to be fully **integrated into the configuration of each house**, following specific requirements that may depend on the climate, the need for mechanical ventilation or dehumidification, structural insulation, the presence of renewable sources and much more.
These systems are complete and highly customisable: they are already **conceived at the design stage** to not only fulfil Heating, Cooling and Domestic Hot Water production, but also Ventilation, Air renewal and heat recovery. They are also optimised to provide maximum efficiency and quiet operation, as well as the lowest possible consumption levels.

- ✓ SPHERA EVO 2.0
- ✓ SPHERA EVO 2.0 Invisible
- ✓ Edge EVO 2.0 / Edge F
- ✓ TOWER Version / INVISIBLE Version
- ✓ ELFOSun^3
- ✓ ELFOFresh EVO
- ✓ AQUA Plus

RENOVATIONS

Turn your ideas into reality and create comfort

Solutions designed to **enhance systems in existing houses by also intervening on the distribution and control system**, which require building works such as renovating the distribution system, installing an intelligent management system or creating a thermal cladding system.
Incentives make these interventions extremely cost-effective, even with low investments.
These are cutting-edge systems that significantly increase comfort levels: they are **designed at the renovation stage** to replace the Heating system and the production of Domestic Hot Water, but also to add cooling, renewable energy sources (e.g. solar panels) or intelligent management systems such as CONTROL4 NRG

- ✓ SPHERA EVO 2.0
- ✓ SPHERA EVO 2.0 Box
- ✓ SPHERA EVO 2.0 EASYHybrid Tower
- ✓ Edge EVO 2.0 / Edge F
- ✓ TOWER Version / BOX Version
- ✓ Edge EVO 2.0 Versione Hybrid
- ✓ ELFOSun^3
- ✓ ELFOFresh EVO

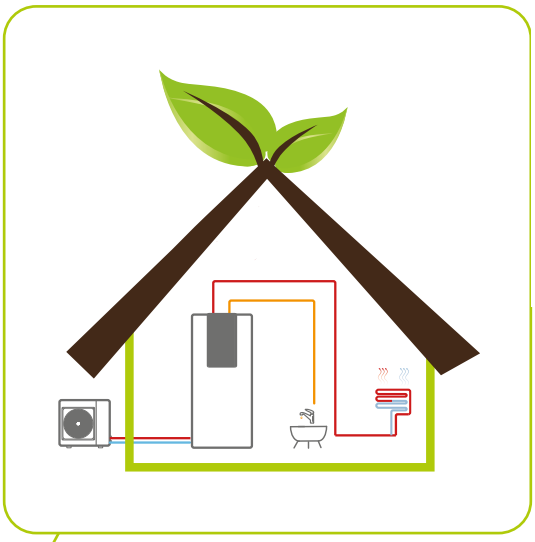
REPLACEMENTS

Get maximum results with minimum effort

Solutions designed to **update old generators without modifying the system**, using stage-of-the-art products that require similar overall dimensions and no significant masonry works. Incentives and extremely quick intervention times clearly make this an obvious choice.
These systems are very versatile and can adapt to any existing facilities: they simply replace the generator that provides Heating and Domestic Hot Water, improving comfort and efficiency, as well as ensuring peace of mind.

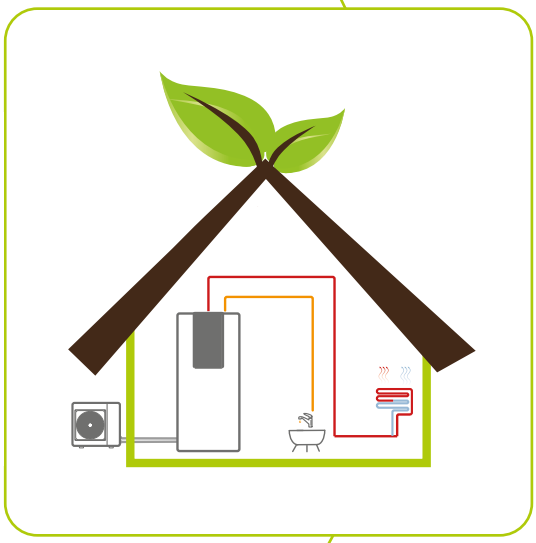
- ✓ SPHERA EVO 2.0 Box
- ✓ SPHERA EVO 2.0 EASYHybrid Box
- ✓ SPHERA EVO 2.0 EASYHybrid Tower
- ✓ SPHERA EVO 2.0 Box Hybrid
- ✓ Edge EVO 2.0 / Edge F
- ✓ TOWER Version / INVISIBLE Version / BOX Version
- ✓ AQUA Plus

Three solutions for every need



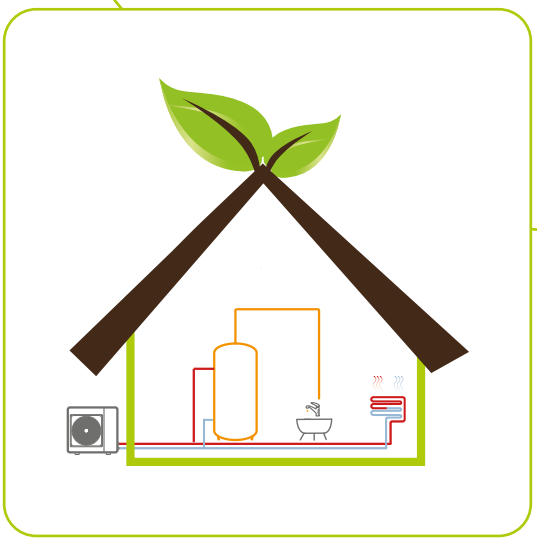
HYDRO-SPLIT

The system consists of an outdoor unit and an indoor unit, which are connected by hydraulic connection in which water flows. This type of solution is complete and very easy to install, while still being highly versatile.
The installation does not require an F-GAS licence and is a good compromise between plug&play systems and more complex installations.



REFRIGERANT-SPLIT

The system consists of an outdoor unit and an indoor unit, which are connected by connections in which refrigerant flows. This type of solution is extremely flexible and guarantees various installation possibilities.
The installation requires an F-GAS licence and is perfect for professionals used to working with systems requiring this type of technology.



MONOBLOC

The system consists of an outdoor unit that directly supplies the system through piping in which water flows. This type of solution is plug&play and very easy to install.
The installation does not require an F-GAS licence and is perfect for non-invasive interventions on the building.

OVERVIEW OF THE HEAT PUMP RANGE

		Model		Refrig.	T_{WATER} MAX	T_{EXT}/T_{WATER}	Size										
							2.1	3.1	4.1	5.1	6.1M/T	7.1M/T	8.1M/T	9.1	10.1	12.1	14.1
Refrigerant-split	SPHERA EVO 2.0	Tower Box		R-32	Full El.: 65 °C Hybrid: 75 °C	A7/W35	6,26	7,41	9,11	10,3	14,6	15,5	16,8	-	-	-	-
						A-7/W35	6,25	6,97	8,35	9,30	13,9	14,1	14,3	-	-	-	-
						A35/W18	6,88	7,65	11,1	12,0	15,0	15,3	16,4	-	-	-	-
						A35/W7	6,14	6,39	7,94	9,10	11,8	12,9	14,2	-	-	-	-
		Invisible		R-32	Full El.: 65 °C Hybrid: 75 °C	A7/W35	6,26	7,41	9,11	10,3	-	-	-	-	-	-	-
						A-7/W35	6,25	6,97	8,35	9,30	-	-	-	-	-	-	-
						A35/W18	6,88	7,65	11,1	12,0	-	-	-	-	-	-	-
						A35/W7	6,14	6,39	7,94	9,10	-	-	-	-	-	-	-
	EASYHYBRID	Tower Box		R-32	Full El.: 65 °C Hybrid: 80 °C	A7/W35	6,26	7,41	9,11	10,3	14,6	15,5	16,8	-	-	-	-
						A-7/W35	6,25	6,97	8,35	9,30	13,9	14,1	14,3	-	-	-	-
						A35/W18	6,88	7,65	11,1	12,0	15,0	15,3	16,4	-	-	-	-
						A35/W7	6,14	6,39	7,94	9,10	11,8	12,9	14,2	-	-	-	-
Monobloc	EDGE	EVO 2.0 - EXC		R-32	Full El.: 65 °C Hybrid: 75 °C	A7/W35	6,26	7,41	9,11	10,3	14,6	15,5	16,8	20,7	24,9	29,1	31,8
						A-7/W35	4,99	6,21	7,27	8,31	11,0	12,7	13,9	19,9	21,3	23,5	23,3
						A35/W18	7,65	7,65	11,1	12,0	15,0	15,3	16,4	21,7	26,6	29,2	31,9
						A35/W7	6,14	7,11	7,94	8,67	11,5	12,4	14,0	17,1	21,0	26,0	29,7
		F		R-290	Full El.: 75 °C Hybrid: 80 °C	A7/W35	6,86	7,70	10,4	11,1	14,7	16,0	17,6	-	-	-	-
						A-7/W35	5,56	6,18	8,74	8,89	11,1	12,1	13,2	-	-	-	-
						A35/W18	7,84	9,75	11,4	12,1	16,4	17,3	18,6	-	-	-	-
						A35/W7	5,66	7,14	8,19	8,76	12,0	12,7	14,3	-	-	-	-

Note:

Reference conditions:

Heating T_{EXT} 7 °C BS/6 °C BU - T_{WATER} 35 °C/30 °C and T_{EXT} 7 °C BS/6 °C BU - T_{WATER} 35 °C/30 °C
Cooling T_{EXT} 35 °C - T_{WATER} 18 °C/23 °C and T_{EXT} 35 °C - T_{WATER} 7 °C/12 °C

Data include defrosting cycles

Heat pumps:

✓ Refrigerant-split

✓ Monobloc

✓ Hydro-Split

✓ Boilers for Hybrid heat pumps

Accessory products to heat pumps:

✓ Domestic hot water boilers

✓ Thermal solar

REFRIGERANT-SPLIT

SPHERA EVO 2.0

SPHERA EVO 2.0 BOX

SPHERA EVO 2.0 INVISIBLE

SPHERA EVO 2.0
EASYHYBRID BOX

SPHERA EVO 2.0
EASYHYBRID TOWER

SPHERA EVO 2.0

SQKN-YEE 1 TC + MiSAN-YEE 1 S 2.1÷8.1

Air-to-water Refrigerant-split heat pump with DHW tank for heating, cooling and domestic hot water production

ENERGY SAVING


Integration Heating/DHW


Cascade

Smart Grid ready

€-Switch

COMFORT


Hot Cold


DHW


Silent

RELIABILITY


Backup heater (optional)


025


ProdottiQualità CasaClima

HEALTH


Renewable Energy (Full electric version)

CONVENIENCE


Weekley Timer


Contemporaneity (Hybrid Version)


Instant DHW (Hybrid Version)


Integrated DHW tank

MANAGEMENT AND CONNECTIVITY


Input ON/OFF

Port Modbus


Control via App


management CONTROL4 NRG

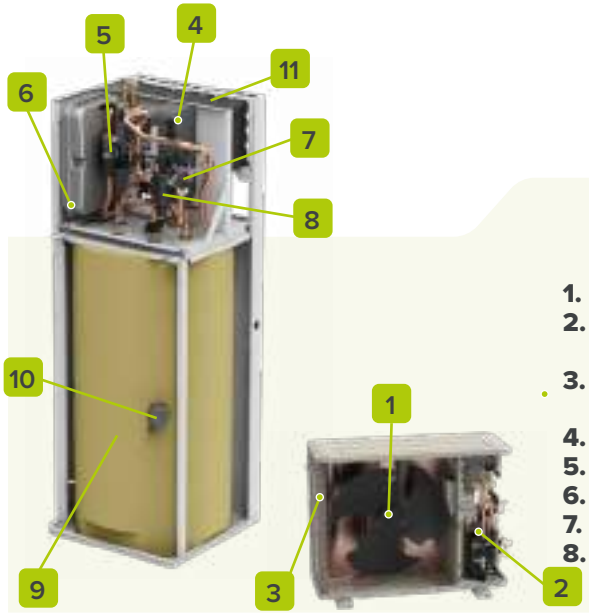

Clivet Eye monitoring


User interface / thermostat

- ✓ Energy efficiency at the highest level
- ✓ Designed not to disturb, operating very quietly
- ✓ Suitable for every need, thanks to the dual version with 190-litre or 250-litre DHW storage tank
- ✓ Compact outdoor unit requiring very little installation space
- ✓ Simultaneous operation in system and DHW (Hybrid version)

Everything under control

The discreet and effective warning LED on the front of the unit indicates the unit's operating status in real time.
If the LED is pulsing white the unit is in stand-by or operating normally, if the LED is orange with quick pulsing there is a fault.



1. Inverter DC fan
2. Inverter DC twin-rotary compressor
3. Air-gas finned exchanger (blue fin treatment)
4. Gas/water plate exchanger
5. Inverter DC high efficiency pump
6. 12-litre system expansion tank NEW
7. 3-way valve
8. Magnetic dirt separator filter
9. 190L/250L DHW tank with coil
10. 2 kW DHW safety heater
11. 15-litre inertial tank NEW

configurations

DHW STORAGE TANK:

ACS190	190 liter DHW tank
ACS250	250 liter DHW tank

Note: there is no standard configuration

OUTDOOR UNIT POWER SUPPLY (size 6.1÷8.1):

220M	**Power supply 230/1/20 (standard)**
400TN	Power supply 400/3/50+N

BACK-UP ELECTRIC HEATER (integrated in the unit):

-	**No heater (standard)**
EH024	2/4 kW back-up heater
EH3	3 kW back-up heater
EH6	6 kW back-up heater
EH9	9 kW back-up heater

accessories

	SOLX	Thermal solar management kit
	KCSX	Kit for secondary circuit (1 liter circuit breaker + circulation pump)
	KIRE2HLX	Two-zone distribution kit: direct + mixed
	KIRE2HX	Double zone distribution unit: direct + direct
	ACI40X	40 liter system inertial storage tank
	DI50-2X	50 liter hydraulic separator
	COFX	Aesthetic cover for inertial storage tank
	T1BX	10m water temperature probe
	T1B30X	30m water temperature probe

	VDACSX	Thermostated diverter valve for DHW
	DTX	Drain pan with antifreeze electrical heater
	APAVX	Kit of antivibration mounts for floor installation
	ASTFX	Antivibration mounts kit for installation on the brackets for wall installation or drain pan
	KSIPX	Kit with wall fixing brackets
	HTC2WX	White HID-TConnect2 chronothermostat for temperature control
	SWCX	Receiver / IoT switch SwitchConnect

technical data

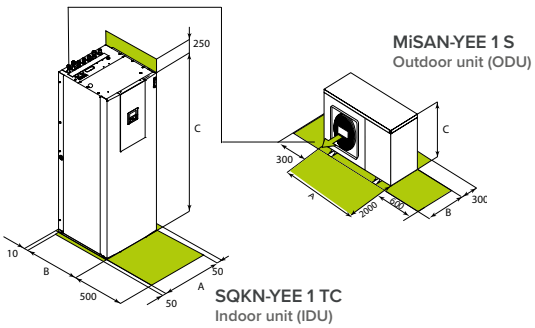
Size - Set					2.1		3.1		4.1		5.1		6.1	7.1	8.1
				DHW tank	190L	250L	190L	250L	190L	250L	190L	250L	250L	250L	250L
Heating	Capacity	Water 35/30 °C	Nominal / Maximum	kW	4,32 / 6,26		6,18 / 7,41		8,30 / 9,11		10,1 / 10,3		12,1 / 14,6	14,5 / 15,5	16,0 / 16,8
	COP	Outdoor air 7 °C	Nominal	-	5,42		5,21		5,31		5,01		5,00	4,70	4,55
	Capacity	Water 35/30 °C	Nominal / Maximum	kW	4,17 / 6,25		6,05 / 6,97		7,33 / 8,35		8,20 / 9,30		10,5 / 13,9	12,2 / 14,1	13,4 / 14,3
	COP	Outdoor air -7 °C	Nominal	-	3,16		3,00		3,23		3,07		3,13	2,82	2,74
	Capacity	Water 45/40 °C	Nominal / Maximum	kW	4,16 / 5,96		6,03 / 7,13		8,22 / 8,98		10,0 / 10,3		12,3 / 14,5	14,0 / 15,7	16,0 / 16,6
	COP	Outdoor air 7 °C	Nominal	-	3,93		3,83		3,95		3,86		3,80	3,65	3,60
Cooling	Capacity	Water 18/23 °C	Nominal / Maximum	kW	4,55 / 6,88		6,44 / 7,65		8,10 / 11,1		10,0 / 12,0		12,1 / 15,0	13,8 / 15,3	14,8 / 16,4
	EER	Outdoor air 35 °C	Nominal	-	6,08		5,24		5,12		4,77		4,02	3,70	3,65
	Capacity	Water 7/12 °C	Nominal / Maximum	kW	4,26 / 6,14		6,25 / 6,39		7,46 / 7,94		9,10 / 9,10		11,8 / 11,8	12,9 / 12,9	14,2 / 14,2
	EER	Outdoor air 35 °C	Nominal	-	3,50		3,09		3,33		3,09		2,75	2,55	2,45
DHW	Net tank capacity			l	190	250	190	250	190	250	190	250	250	250	250
	Water mixed at 40 °C (V40)[1]			l	204	269	204	269	204	269	204	269	269	269	269
	Heating time			h:min	2:30	2:25	2:30	2:25	2:08	2:05	2:08	2:05	1:46	1:46	1:46
Electrical power for meter sizing				kW	2,20		2,60		3,30		3,60		5,40	5,70	6,10
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	A++		A++		A++		A++		A++	A++	A++
		Annual energy consumption		-	2.542		3.283		3.824		4.749		6.793	7.380	7.915
		SCOP		-	3,32		3,54		3,72		3,73		3,56	3,52	3,48
		ηs (seasonal output)		%	130		138		146		146		139	138	136
	Heating Water 35 °C	Energy class		-	A+++		A+++		A+++		A+++		A+++	A+++	A+++
		Annual energy consumption		-	2.161		2.502		3.141		3.747		4.994	5.868	6.602
		SCOP		-	5,13		5,15		5,32		5,27		5,00	4,91	4,89
		ηs (seasonal output)		%	202		203		210		208		196	193	193
	DHW	Energy class		-	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
		Withdrawal profile		-	L	XL	L	XL	L	XL	L	XL	XL	XL	XL
Size - Indoor unit					A	A	A	A	A	A	A	A	B	B	B
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1										
Water flow-rate		Water 35/30 °C	Nominal	l/s	0,21		0,30		0,41		0,49		0,57	0,67	0,75
Pump available pressure		Outdoor air 7 °C	Nominal	kPa	31,2		36,5		33,1		31,0		25,7	31,7	22,6
Minimum system water content				l	40		40		40		40		40	40	40
Expansion tank capacity				l	8		8		8		8		8	8	8
Sound power			Nominal	dB(A)	41		41		41		41		41	41	41
Sound pressure @1m			Nominal	dB(A)	26		26		26		26		26	26	26
Size - Outdoor unit					2.1		3.1		4.1		5.1		6.1	7.1	8.1
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1										
Sound power			Minimum / Nominal	dB(A)	50 / 55		51 / 57		52 / 58		52 / 60		54 / 63	54 / 64	54 / 66
Sound pressure @1m			Minimum / Nominal	dB(A)	37 / 42		38 / 44		39 / 45		39 / 47		41 / 50	41 / 51	41 / 53
Operating range															
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65		25 / 65		25 / 65		25 / 65		25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 75		25 / 75		25 / 75		25 / 75		25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25		5 / 25		5 / 25		5 / 25		5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35		-25 / 35		-25 / 35		-25 / 35		-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43		-25 / 43		-25 / 43		-25 / 43		-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43		-5 / 43		-5 / 43		-5 / 43		-5 / 43	-5 / 43	-5 / 43

Data according to EN 14511:2018 and EN 14825:2016

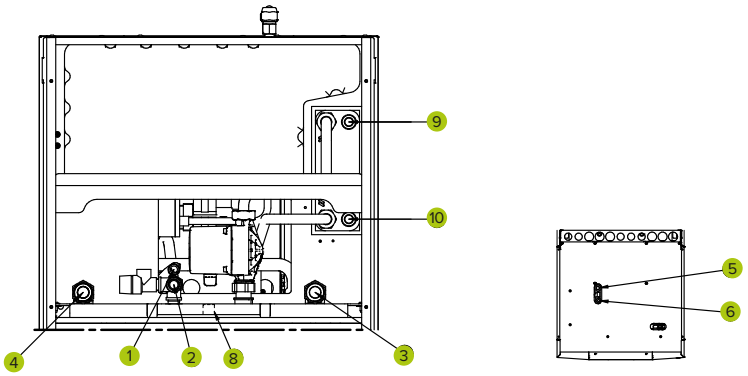
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).
Energy classes with energy assistant for Clivet Smart Home

(1) Data according to EN 16147: amount of water at 40 °C with the same enthalpy content as the water coming out of the Boiler at a temperature higher than 40 °C

dimensions and connections



For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.



1. Domestic hot water outlet M 1/2"
2. Water supply system inlet F 1/2"
3. Return from user side system M 1"
4. Supply to user system M 1"
5. Suction connection, 1/8" SAE
6. Liquid line connection, 3/8" SAE
7. Electrical line inlet
8. DHW circulation circuit inlet M 3/4"
9. Return from solar system M 3/4"
10. Supply to solar system M 3/4"
11. Unit control keypad

Size - Set (400TN version)					6.1	7.1	8.1
				DHW tank	250L	250L	250L
Heating	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**12,1 / 14,6**	**14,5 / 15,5**	**16,0 / 16,8**
	COP	Outdoor air 7 °C	Nominal	-	5,00	4,70	4,55
	Capacity	Water 35/30 °C	Nominal / Maximum	kW	10,5 / 13,9	12,2 / 14,1	13,4 / 14,3
	COP	Outdoor air -7 °C	Nominal	-	3,13	2,82	2,74
	Capacity	Water 45/40 °C	Nominal / Maximum	kW	12,3 / 14,5	14,0 / 15,7	16,0 / 16,6
	COP	Outdoor air 7 °C	Nominal	-	3,80	3,65	3,60
Cooling	Capacity	Water 18/23 °C	Nominal / Maximum	kW	**12,1 / 15,0**	**13,8 / 15,3**	**14,8 / 16,4**
	EER	Outdoor air 35 °C	Nominal	-	4,02	3,70	3,65
	Capacity	Water 7/12 °C	Nominal / Maximum	kW	11,8 / 11,8	12,9 / 12,9	14,2 / 14,2
	EER	Outdoor air 35 °C	Nominal	-	2,75	2,55	2,45
DHW	Net tank capacity			l	250	250	250
	Water mixed at 40 °C (V40)[1]			l	269	269	269
	Heating time			h:min	1:46	1:46	1:46
Electrical power for meter sizing				kW	5,40	5,70	6,10
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	**A++**	**A++**	**A++**
		Annual energy consumption		-	6.793	7.380	7.915
		SCOP		-	3,56	3,52	3,48
		ηs (seasonal output)		%	139	138	136
	Heating Water 35 °C	Energy class		-	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	4.994	5.868	6.602
		SCOP		-	5,00	4,91	4,89
		ηs (seasonal output)		%	196	193	193
	DHW	Energy class		-	**A+**	**A+**	**A+**
		Withdrawal profile		-	XL	XL	XL

Size - Indoor unit				6.1	7.1	8.1
Power supply	Voltage/Frequency/Phases		V/Hz/n°		230/50/1	
Water flow-rate	Water 35/30 °C	Nominal	l/s	0,57	0,67	0,75
Pump available pressure	Outdoor air 7 °C	Nominal	kPa	25,7	31,7	22,6
Minimum system water content			l	40	40	40
Expansion tank capacity			l	8	8	8
Sound power		Nominal	dB(A)	41	41	41
Sound pressure @1m		Nominal	dB(A)	26	26	26

Size - Outdoor unit				6.1	7.1	8.1
Power supply	Voltage/Frequency/Phases		V/Hz/n°		400/50/3+N	
Sound power		Minimum / Nominal	dB(A)	54 / 63	54 / 64	54 / 66
Sound pressure @1m		Minimum / Nominal	dB(A)	41 / 50	41 / 51	41 / 53

Operating range							
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43

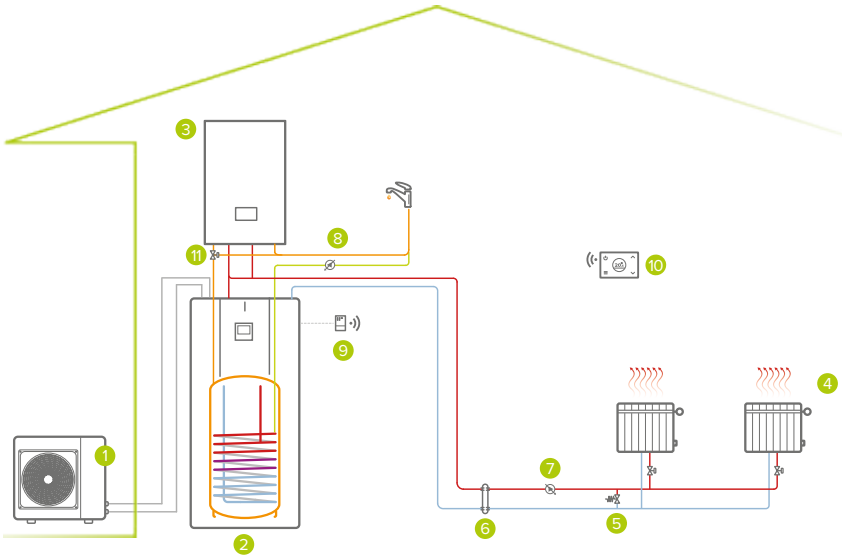
Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281). Energy classes with Control4 NRG system control

(1) Data according to EN 16147: amount of water at 40 °C with the same enthalpy content as the water coming out of the Boiler at a temperature higher than 40 °C

Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	Indoor unit ACS190	AxCxB	mm	600x1.696x612	600x1.696x612	600x1.696x612	600x1.696x612	600x2.010x6112	600x2.010x6112	600x2.010x6112
	Indoor unit ACS250	AxCxB	mm	-	-	-	-	600x2.010x6112	600x2.010x6112	600x2.010x6112
	Outdoor unit	AxCxB	mm	920x712x400	920x712x400	1.042x866x444	1.042x866x444	1.042x866x444	1.042x866x444	1.042x866x444
Operating weight	Indoor unit ACS190		kg	417	417	417	417	422	422	422
	Indoor unit ACS250		kg	-	-	-	-	425	425	425
	Outdoor unit		kg	58	58	77	77	112	112	112
Max / min equivalent length		L	m	30 / 2	30 / 2	30 / 2	30 / 2	30 / 2	30 / 2	30 / 2
Max difference in level ODU / IDU		H	m	25	25	25	25	25	25	25
Refrigerant precharge			type / GWP	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675
			kg	1,50	1,50	1,65	1,65	1,84	1,84	1,84
			CO^2 tons	1,05	1,05	1,10	1,10	1,24	1,24	1,24
Equivalent pipe length with pre-charging only			m	15	15	15	15	15	15	15
External diameters	Refrigerant piping	Liquid	inch	1/4”	1/4”	3/8”	3/8”	3/8”	3/8”	3/8”
		Gas	inch	5/8”	5/8”	5/8”	5/8”	5/8”	5/8”	5/8”
	Indoor unit	Water (System)	inch	1”	1”	1”	1”	1”	1”	1”
		Water (DHW)	inch	3/4”	3/4”	3/4”	3/4”	3/4”	3/4”	3/4”

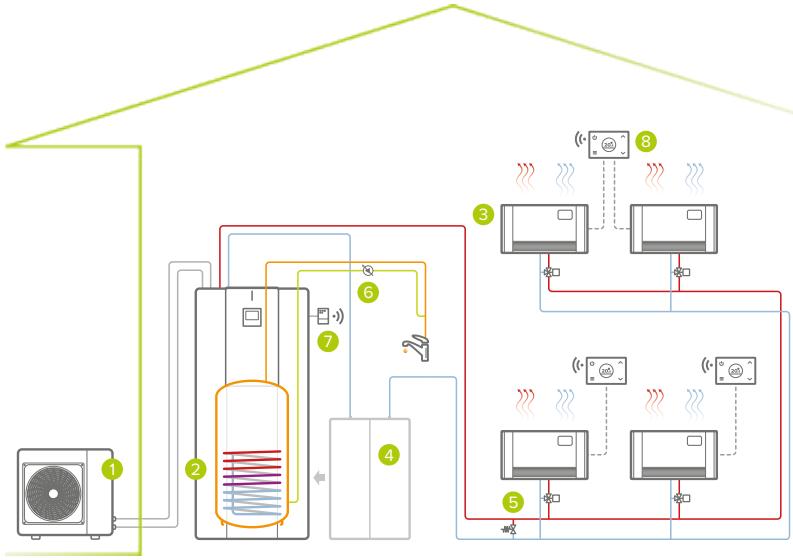
Check in the manual if the indoor unit requires a minimum installation surface

system diagrams



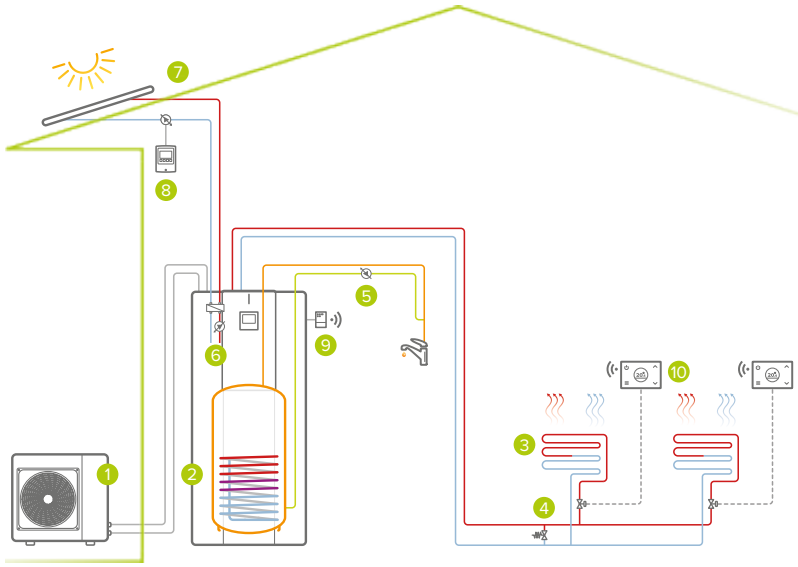
Hybrid single-zone system: Heating / DHW

1 outdoor unit
2 indoor unit
3 instantaneous boiler *(Hybrid version)*
4 heating area
5 bypass*
6 hydraulic separator (optional)
7 secondary circuit pump*
8 DHW recirculation pump*
9 SwitchConnect Wi-Fi receiver (optional)
10 HID-TConnect2 Wi-Fi chronothermostat (optional)
11 Thermostated diverter valve for DHW (optional)



Full electric single-zone system: Heating / Cooling / DHW

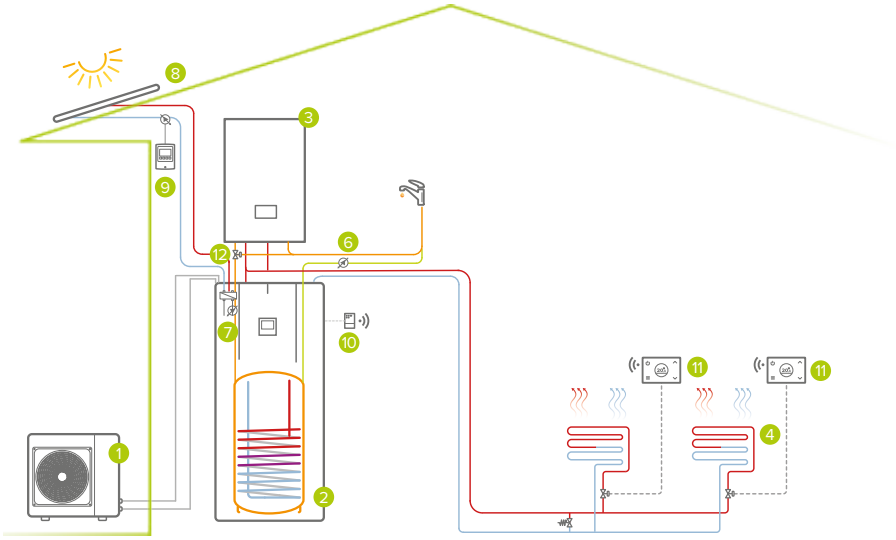
1 outdoor unit
2 indoor unit
3 heating/cooling zone
4 system inertial storage (optional)
5 bypass*
6 DHW recirculation pump*
7 SwitchConnect Wi-Fi receiver (optional)
8 HID-TConnect2 Wi-Fi chronothermostat (optional)



Full electric single-area system with thermal solar: Heating / Cooling / DHW

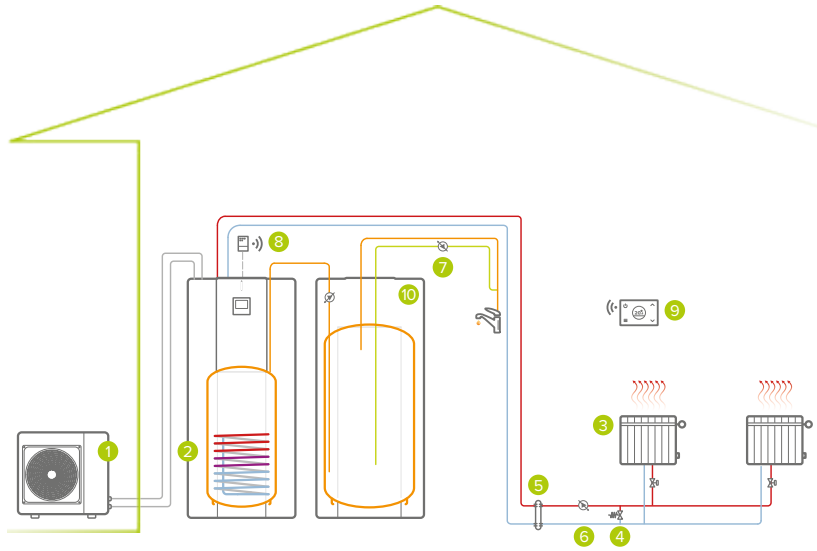
1 outdoor unit
2 indoor unit
3 heating/cooling zone
4 bypass*
5 DHW recirculation pump*
6 solar connection kit (optional)
7 ELFOSun^3 thermal solar (optional)
8 solar circulation kit (optional)
9 SwitchConnect Wi-Fi receiver (optional)
10 HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply



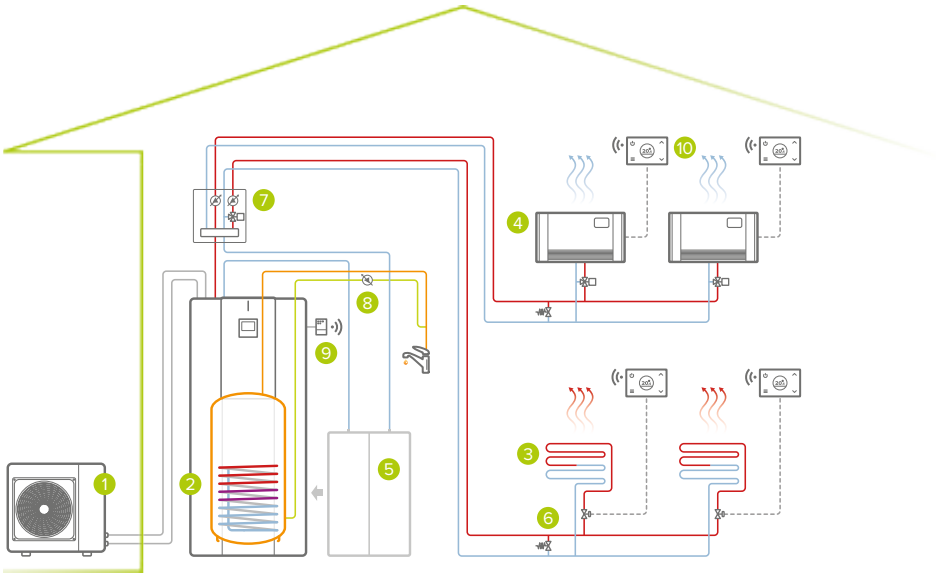
Hybrid single-area system with thermal solar:
Heating / Cooling / DHW

1 outdoor unit
2 indoor unit
3 instantaneous boiler *(Hybrid version)*
4 heating/cooling zone
5 bypass*
6 DHW recirculation pump (optional)
7 kit di collegamento solare (opzionale)
8 ELFOSun^3 thermal solar (optional)
9 solar circulation kit (optional)
10 SwitchConnect Wi-Fi receiver (optional)
11 HID-TConnect2 Wi-Fi chronothermostat (optional)
12 Thermostated diverter valve for DHW (optional)



Full electric single-zone system with additional DHW boiler:
Heating / DHW

1 outdoor unit
2 indoor unit
3 heating/cooling zone
4 bypass*
5 hydraulic separator (optional)
6 secondary circuit pump*
7 DHW recirculation pump*
8 SwitchConnect Wi-Fi receiver (optional)
9 HID-TConnect2 Wi-Fi chronothermostat (optional)
10 Additional 250 liter DHW tank (optional)



Full electric two-zone system:
Heating / Cooling / DHW

1 outdoor unit
2 indoor unit
3 heating area
4 cooling zone
5 system inertial storage (optional)
6 bypass*
7 kit for managing 2 areas (optional)
8 DHW recirculation pump*
9 SwitchConnect Wi-Fi receiver (optional)
10 HID-TConnect2 Wi-Fi chronothermostat (optional)

Note: solar connection kit and booster kit can coexist

*from external supply

SPHERA EVO 2.0 BOX

SQKN-YEE 1 BC + MiSAN-YEE 1 S 2.1÷8.1

Wall-mounted air-to-water Refrigerant-split heat pump for heating, cooling and domestic hot water production

ENERGY SAVING
- Solar integration (optional - DHW tank)
- Cascade
- Smart Grid ready
- €-Switch

COMFORT
- Hot Cold
- DHW
- Silent

RELIABILITY
- Backup heater (optional)
- 025
- ProdottiQualità CasaClima

HEALTH
- Renewable Energy (Full electric version)

CONVENIENCE
- Weekley Timer
- Contemporaneity (Hybrid Version)
- Instant DHW (Hybrid Version)

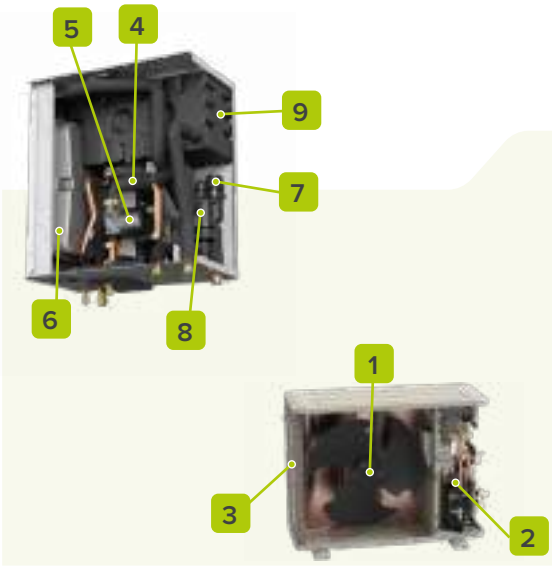
MANAGEMENT AND CONNECTIVITY
- Input ON/OFF
- Port Modbus
- Control via App
- management CONTROL4 NRG
- Clivet Eye monitoring
- User interface / thermostat

ErP

- ✓ It does not need to be coupled to a boiler if DHW is produced by the boiler (Hybrid version)
- ✓ Energy efficiency at the highest level
- ✓ Designed not to disturb, operating very quietly
- ✓ Can be combined with DHW tanks of a volume suitable for the application in which it is to be installed
- ✓ Up to 6 units can be connected in cascade, for demands up to 100 kW

Ideal with AQUA PLUS

SPHERA EVO Box 2.0 is an excellent alternative for installations where it is not possible to install the tower or uncased version.
Combined with AQUA Plus, the heat pump for domestic hot water production, SPHERA EVO Box 2.0 offers the advantage of a system that provides simultaneous heating or cooling and domestic hot water production.



1. Inverter DC fan
2. Inverter DC twin-rotary compressor
3. Air-gas finned exchanger (blue fin treatment)
4. Gas/water plate exchanger
5. Inverter DC high efficiency pump
6. 12-litre system expansion tank NEW
7. 3-way valve
8. Magnetic dirt separator filter
9. 15-litre inertial tank NEW

configurations

OUTDOOR UNIT POWER SUPPLY (size 6.1÷8.1):

200M	**Power supply 230/1/20 (standard)**
400TN	Power supply 400/3/50+N

PUMP:

-	**Standard pump (standard)**
1PUM	Pump with larger available head

BACK-UP ELECTRIC HEATER (integrated in the unit):

-	**No heater (standard)**
EH024	2/4 kW back-up heater
EH3	3 kW back-up heater
EH6	6 kW back-up heater
EH9	9 kW back-up heater

accessories

	ACS200X	200 liter DHW tank
	ACS300X	300 liter DHW tank
	ACS500X	500 liter DHW tank
	SCS08X	Solar coil for ACS200X/ACS300X DHW tank
	SCS12X	Solar coil for ACS500X DHW tank
	KCSX	Kit for secondary circuit (1 liter circuit breaker + circulation pump)
	KIRE2HLX	Two-zone distribution kit: direct + mixed
	KIRE2HX	Double zone distribution unit: direct + direct
	ACI40X	40 liter system inertial storage tank
	DI50-2X	50 liter hydraulic separator
	T1BX	10m water temperature probe
	T1B30X	30m water temperature probe

	VDACSX	Thermostated diverter valve for DHW
	DTX	Drain pan with antifreeze electrical heater
	APAVX	Kit of antivibration mounts for floor installation
	ASTFX	Antivibration mounts kit for installation on the brackets for wall installation or drain pan
	KSIPX	Kit with wall fixing brackets
	KISX	Kit di installazione semplificata con raccordi per SPHERA EVO 2.0 Box Hybrid
	HTC2WX	White HID-TConnect^2 chronothermostat for temperature control
	SWCX	Receiver / IoT switch SwitchConnect
	ANEDX	Electronic anode

technical data

Size - Set					2.1	3.1	4.1	5.1	6.1	7.1	8.1
Heating	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**4,32 / 6,26**	**6,18 / 7,41**	**8,30 / 9,11**	**10,1 / 10,3**	**12,1 / 14,6**	**14,5 / 15,5**	**16,0 / 16,8**
	COP	Outdoor air 7 °C	Nominal	-	5,42	5,21	5,31	5,01	5,00	4,70	4,55
	Capacity	Water 35/30 °C	Nominal / Maximum	kW	4,17 / 6,25	6,05 / 6,97	7,33 / 8,35	8,20 / 9,30	10,5 / 13,9	12,2 / 14,1	13,4 / 14,3
	COP	Outdoor air -7 °C	Nominal	-	3,16	3,00	3,23	3,07	3,13	2,82	2,74
	Capacity	Water 45/40 °C	Nominal / Maximum	kW	4,16 / 5,96	6,03 / 7,13	8,22 / 8,98	10,0 / 10,3	12,3 / 14,5	14,0 / 15,7	16,0 / 16,6
	COP	Outdoor air 7 °C	Nominal	-	3,93	3,83	3,95	3,86	3,80	3,65	3,60
Cooling	Capacity	Water 18/23 °C	Nominal / Maximum	kW	**4,55 / 6,88**	**6,44 / 7,65**	**8,10 / 11,1**	**10,0 / 12,0**	**12,1 / 15,0**	**13,8 / 15,3**	**14,8 / 16,4**
	EER	Outdoor air 35 °C	Nominal	-	6,08	5,24	5,12	4,77	4,02	3,70	3,65
	Capacity	Water 7/12 °C	Nominal / Maximum	kW	4,26 / 6,14	6,25 / 6,39	7,46 / 7,94	8,67 / 9,10	11,8 / 11,8	12,9 / 12,9	14,2 / 14,2
	EER	Outdoor air 35 °C	Nominal	-	3,50	3,09	3,33	3,09	2,75	2,55	2,45
Electrical power for meter sizing				kW	2,20	2,60	3,30	3,60	5,40	5,70	6,10
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**
		Annual energy consumption		-	2.542	3.283	3.824	4.749	6.793	7.380	7.915
		SCOP		-	3,32	3,54	3,72	3,73	3,56	3,52	3,48
		ηs (seasonal output)		%	130	138	146	146	139	138	136
	Heating Water 35 °C	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	2.161	2.502	3.141	3.747	4.994	5.868	6.602
		SCOP		-	5,13	5,15	5,32	5,27	5,00	4,91	4,89
		ηs (seasonal output)		%	202	203	210	208	196	193	193

Size - Indoor unit				A	A	A	A	B	B	B
Power supply	Voltage/Frequency/Phases		V/Hz/n°				230/50/1			
Water flow-rate	Water 35/30 °C	Nominal	l/s	0,21	0,30	0,41	0,49	0,57	0,67	0,75
Pump available pressure	Outdoor air 7 °C	Nominal	kPa	31,2	36,5	33,1	31,0	25,7	31,7	22,6
Minimum system water content			l	40	40	40	40	40	40	40
Expansion tank capacity			l	8	8	8	8	8	8	8
Sound power		Nominal	dB(A)	41	41	41	41	41	41	41
Sound pressure @1m		Nominal	dB(A)	26	26	26	26	26	26	26

Size - Outdoor unit				2.1	3.1	4.1	5.1	6.1	7.1	8.1
Power supply	Voltage/Frequency/Phases		V/Hz/n°				230/50/1			
Sound power		Minimum / Nominal	dB(A)	50 / 55	51 / 57	52 / 58	52 / 60	54 / 63	54 / 64	54 / 66
Sound pressure @1m		Minimum / Nominal	dB(A)	37 / 42	38 / 44	39 / 45	39 / 47	41 / 50	41 / 51	41 / 53

Operating range											
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43

Size - Set (400TN version)					6.1	7.1	8.1
Heating	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**12,1 / 14,6**	**14,5 / 15,5**	**16,0 / 16,8**
	COP	Outdoor air 7 °C	Nominal	-	5,00	4,70	4,55
	Capacity	Water 35/30 °C	Nominal / Maximum	kW	10,5 / 13,9	12,2 / 14,1	13,4 / 14,3
	COP	Outdoor air -7 °C	Nominal	-	3,13	2,82	2,74
	Capacity	Water 45/40 °C	Nominal / Maximum	kW	12,3 / 14,5	14,0 / 15,7	16,0 / 16,6
	COP	Outdoor air 7 °C	Nominal	-	3,80	3,65	3,60
Cooling	Capacity	Water 18/23 °C	Nominal / Maximum	kW	**12,1 / 15,0**	**13,8 / 15,3**	**14,8 / 16,4**
	EER	Outdoor air 35 °C	Nominal	-	4,02	3,70	3,65
	Capacity	Water 7/12 °C	Nominal / Maximum	kW	11,8 / 11,8	12,9 / 12,9	14,2 / 14,2
	EER	Outdoor air 35 °C	Nominal	-	2,75	2,55	2,45
Electrical power for meter sizing				kW	5,40	5,70	6,10
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	**A++**	**A++**	**A++**
		Annual energy consumption		-	6.793	7.380	7.915
		SCOP		-	3,56	3,52	3,48
		ηs (seasonal output)		%	139	138	136
	Heating Water 35 °C	Energy class		-	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	4.994	5.868	6.602
		SCOP		-	5,00	4,91	4,89
		ηs (seasonal output)		%	196	193	193

Size - Indoor unit					B	B	B
Power supply		Voltage/Frequency/Phases		V/Hz/n°		230/50/1	
Water flow-rate		Water 35/30 °C	Nominal	l/s	0,57	0,67	0,75
Pump available pressure		Outdoor air 7 °C	Nominal	kPa	25,7	31,7	22,6
Minimum system water content				l	40	40	40
Expansion tank capacity				l	8	8	8
Sound power			Nominal	dB(A)	41	41	41
Sound pressure @1m			Nominal	dB(A)	26	26	26

Size - Outdoor unit					6.1	7.1	8.1
Power supply		Voltage/Frequency/Phases		V/Hz/n°		400/50/3+N	
Sound power			Minimum / Nominal	dB(A)	54 / 63	54 / 64	54 / 66
Sound pressure @1m			Minimum / Nominal	dB(A)	41 / 50	41 / 51	41 / 53

Operating range							
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43

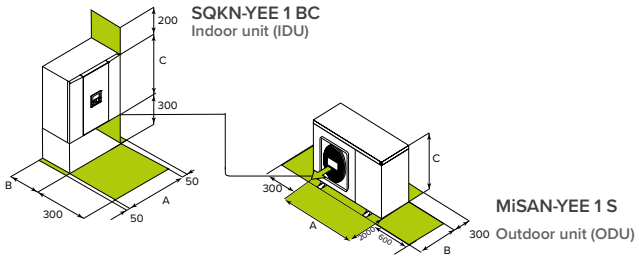
Data according to EN 14511:2018 and EN 14825:2016

The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).

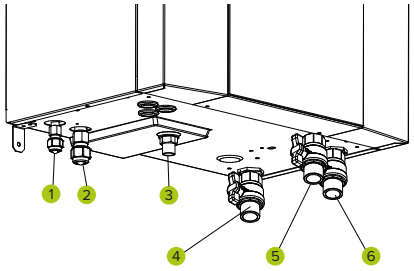
dimensions and connections

Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	547x604x389	547x604x389	547x604x389	547x604x389	547x604x389	547x604x389	547x604x389
	Outdoor unit	AxCxB	mm	920x712x400	920x712x400	1.042x866x444	1.042x866x444	1.042x866x444	1.042x866x444	1.042x866x444
Weight	Indoor unit		kg	60	60	60	60	62	62	62
	Outdoor unit		kg	58	58	77	77	112	112	112
Max / min equivalent length		L	m	30 / 2	30 / 2	30 / 2	30 / 2	30 / 2	30 / 2	30 / 2
Max difference in level ODU / IDU		H	m	25	25	25	25	25	25	25
Refrigerant precharge			type / GWP	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675
			kg	1,50	1,50	1,65	1,65	1,84	1,84	1,84
			CO^2 tons	1,05	1,05	1,10	1,10	1,24	1,24	1,24
Equivalent pipe length with pre-charging only			m	15	15	15	15	15	15	15
External dia-meters	Refrigerant piping	Liquid	inch	1/4”	1/4”	3/8”	3/8”	3/8”	3/8”	3/8”
		Gas	inch	5/8”	5/8”	5/8”	5/8”	5/8”	5/8”	5/8”
	Indoor unit	Water (System)	inch	1”	1”	1”	1”	1”	1”	1”
		Water (DHW)	inch	3/4”	3/4”	3/4”	3/4”	3/4”	3/4”	3/4”

Check in the manual if the indoor unit requires a minimum installation surface

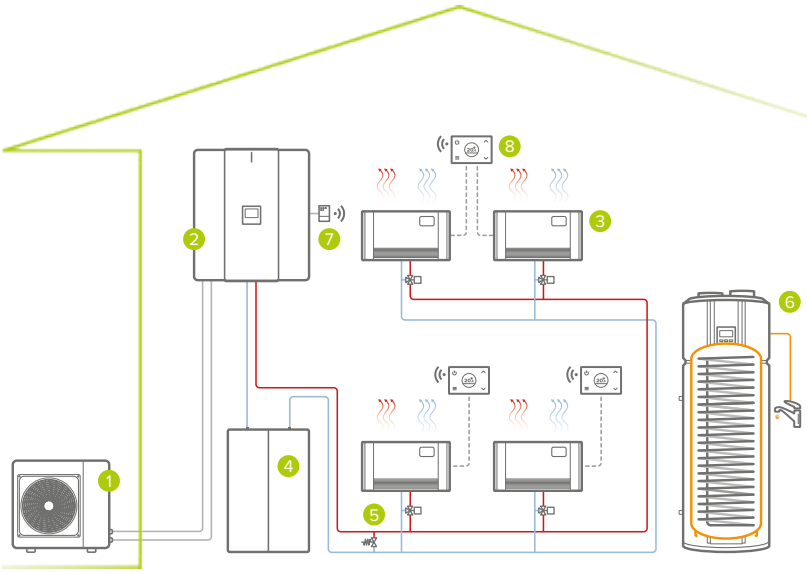


For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.



1. Refrigerant - liquid pipe
2. Refrigerant - gas pipe
3. Domestic hot water - return from exchanger
4. DHW exchanger return Ø 1”
5. Supply to system Ø 1”
6. Return from system Ø 1”

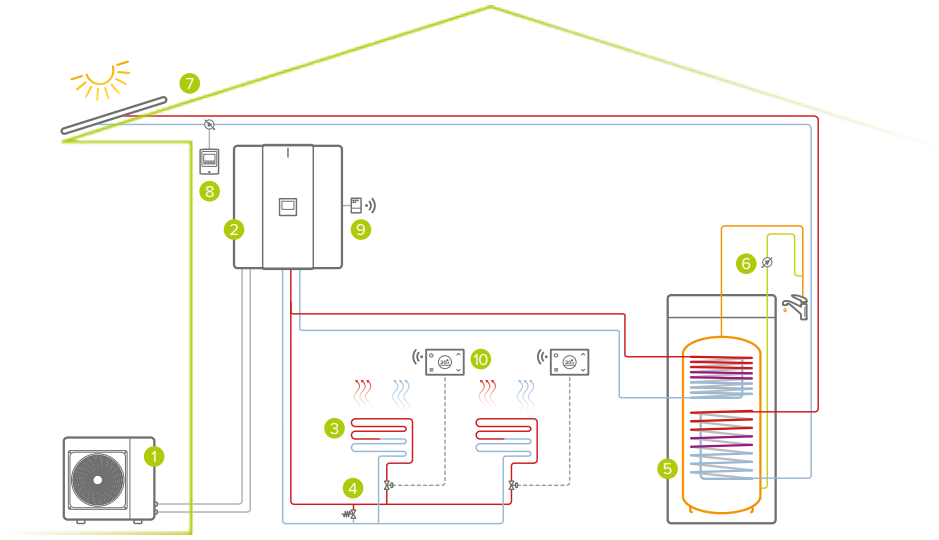
system diagrams



Full electric single-zone system:
Heating / Cooling / DHW

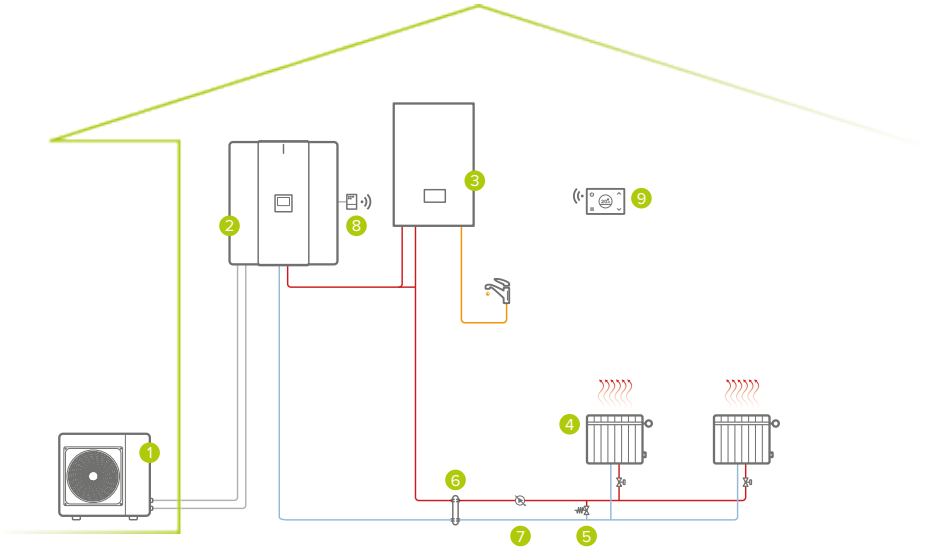
1 outdoor unit
2 indoor unit
3 heating/cooling zone
4 system inertial storage (optional)
5 bypass*
6 heat pump for DHW
7 SwitchConnect Wi-Fi receiver (optional)
8 HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply



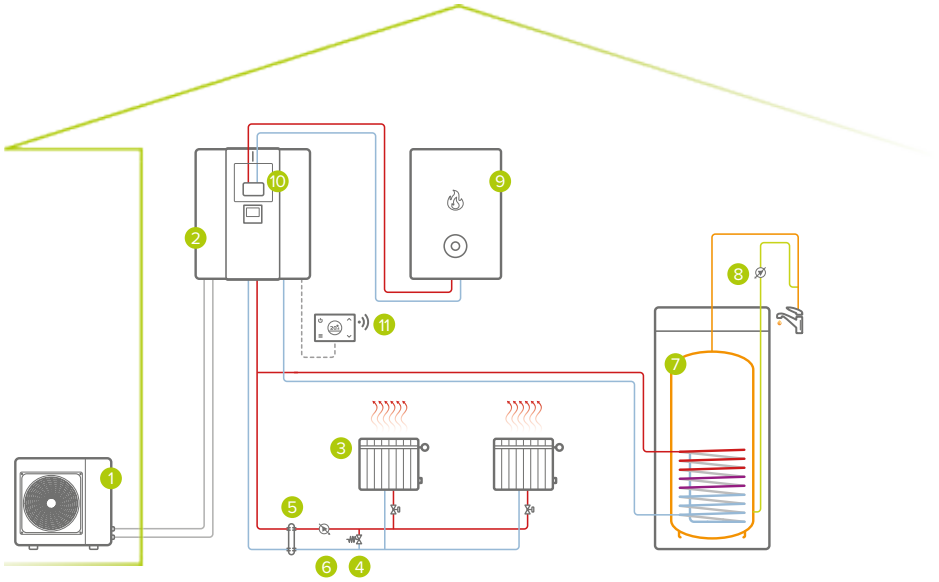
Full electric single-area system with thermal solar:
Heating / Cooling / DHW

1 outdoor unit
2 indoor unit
3 heating/cooling zone
4 bypass*
5 DHW boiler with solar coil (optional)
6 DHW recirculation pump*
7 ELFOSun³ thermal solar (optional)
8 solar circulation kit (optional)
9 SwitchConnect Wi-Fi receiver (optional)
10 HID-TConnect2 Wi-Fi chronothermostat (optional)



Hybrid single-zone system:
Heating / DHW

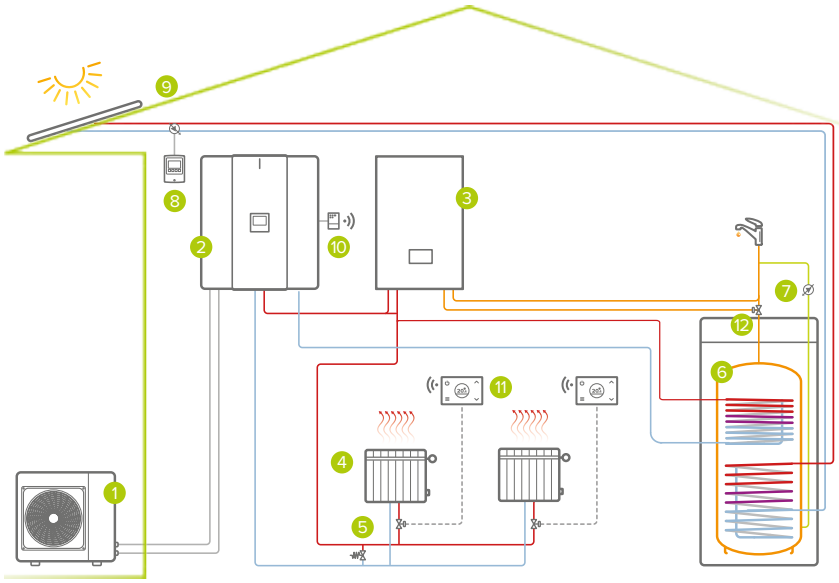
1 outdoor unit
2 indoor unit
3 instantaneous boiler (Hybrid version)
4 heating area
5 bypass*
6 hydraulic separator (optional)
7 secondary circuit pump*
8 SwitchConnect Wi-Fi receiver (optional)
9 HID-TConnect2 Wi-Fi chronothermostat (optional)



Hybrid single-zone system:
Heating / DHW

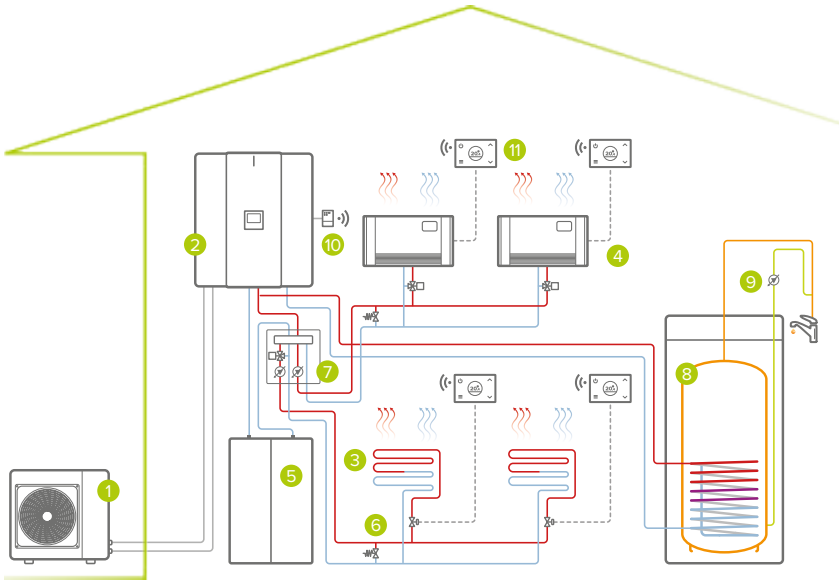
1 outdoor unit
2 indoor unit
3 heating area
4 bypass*
5 hydraulic separator (optional)
6 secondary circuit pump*
7 DHW tank (optional)
8 DHW recirculation pump*
9 boiler heating only*
10 kit for management of a boiler from another supplier (optional)
11 HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply



Hybrid single-zone system:
Heating / Cooling / DHW

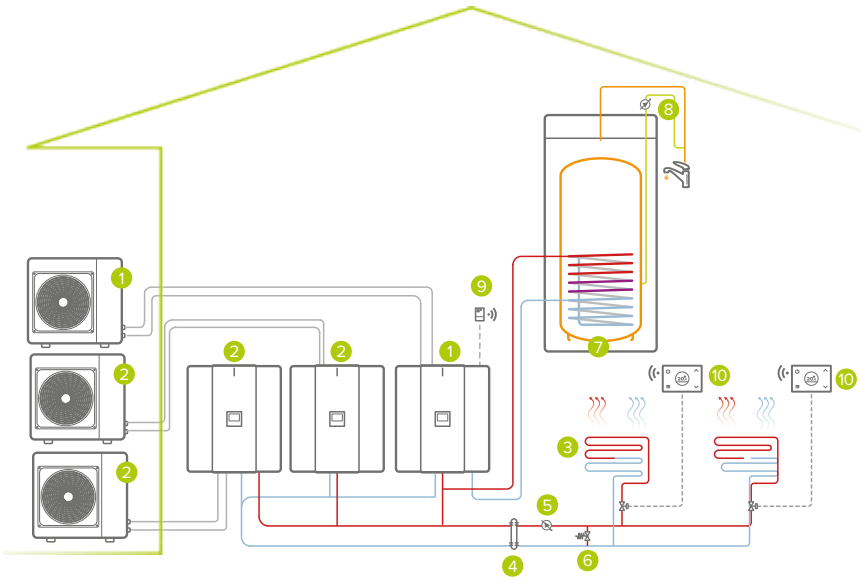
1 outdoor unit
2 indoor unit
3 instantaneous boiler (Hybrid version)
4 heating area
5 bypass*
6 DHW tank with solar predisposition (optional)
7 DHW recirculation pump*
8 kit di circolazione solare (opzionale)
9 ELFOSun³ thermal solar (optional)
10 SwitchConnect Wi-Fi receiver (optional)
11 HID-TConnect2 Wi-Fi chronothermostat (optional)
12 Thermostated diverter valve for DHW (optional)



Full electric two-zone system:
Heating / Cooling / DHW

1 outdoor unit
2 indoor unit
3 mixed heating/cooling zone
4 direct heating/cooling zone
5 system inertial storage (optional)
6 bypass*
7 kit for managing 2 areas (optional)
8 DHW tank (optional)
9 DHW recirculation pump*
10 SwitchConnect Wi-Fi receiver (optional)
11 HID-TConnect2 Wi-Fi chronothermostat (optional)

Note: solar connection kit and booster kit can coexist



Full electric single-zone system in cascade:
Heating / Cooling / DHW

1 outdoor unit + indoor unit (Master)
2 outdoor unit + indoor unit (Slave)
3 heating/cooling zone
4 hydraulic separator (optional)
5 secondary circuit pump*
6 bypass*
7 DHW tank (optional)
8 DHW recirculation pump*
9 SwitchConnect Wi-Fi receiver (optional)
10 HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply

SPHERA EVO 2.0 INVISIBLE

SQKN-YEE 1 IC + MiSAN-YEE 1 S 2.1÷5.1

* disponibile nella versione Hybrid con caldaia FE 24.4 E FE 33.4

Built-in air-to-water refrigerant-split heat pump for heating, cooling and domestic hot water production

ENERGY SAVING
- Solar integration (optional)
- Smart Grid ready
- €-Switch

COMFORT
- Hot Cold
- DHW
- Silent

RELIABILITY
- Backup heater (optional)
- 025
- ProdottiQualità CasaClima

HEALTH
- Energy renewable (Full electric version)

CONVENIENCE
- Weekley Timer
- Integrated DHW tank
- Contemporaneity (Hybrid Version)
- Instant DHW (Hybrid Version)

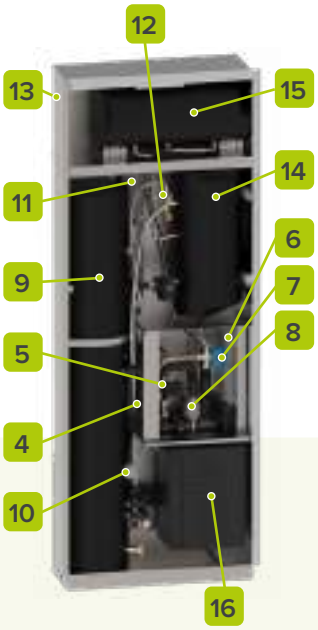
MANAGEMENT AND CONNECTIVITY
- Input ON/OFF
- Port Modbus
- Control via App
- management Control4 NRG
- Clivet Eye monitoring
- User interface / thermostat

- ✓ Space-saving: completely outdoor installation with uncased wall-mounted unit only 36cm deep
- ✓ It adapts to every need: solar kit / inertial tank kit / additional tank / integrated combinable boiler
- ✓ Components and uncased cabinet with telescopic frame can be supplied separately
- ✓ New additional aesthetic practical cabinet for system accessories in full view for outdoor installation.
- ✓ Advanced connectivity: management via the dedicated Smart Home App or via the Modbus port with CONTROL4 NRG standard supplied

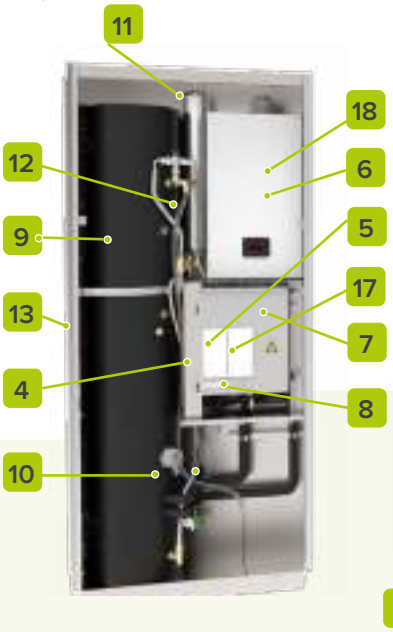
Optimize the space

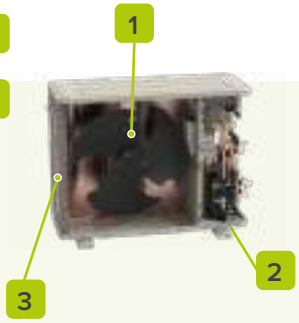
SPHERA EVO 2.0 Invisible is the ideal choice for all homes that do not have a technical room and which need to make the unit invisible by embedding it in the wall.
The cabinet has an adjustable telescopic frame and can be painted to make the unit disappear completely.

Full electric Version



Hybrid Version with Gas Boiler FE 24.4





The Hybrid version with FE Gas Boiler does not have an expansion tank in the heat pump module, it is in the boiler: the full electric version is not compatible with the Hybrid version boiler.
New feature: the Hybrid version now has an instantaneous DHW production boiler and a thermostat-controlled 3-way switching valve.

configurations

VERSION:

IC	**Full electric (standard)**
IH	Hybrid

PUMP:

-	**Standard pump (standard)**
1PUM	Pump with larger available head

BACK-UP ELECTRIC HEATER (integrated in the unit):

-	**No heater (standard)**
EH024	2/4 kW back-up heater
EH3	3 kW back-up heater
EH6	6 kW back-up heater
EH9	9 kW back-up heater

Note: The hybrid version excludes the possibility of selecting electric back-up heaters

mandatory accessories

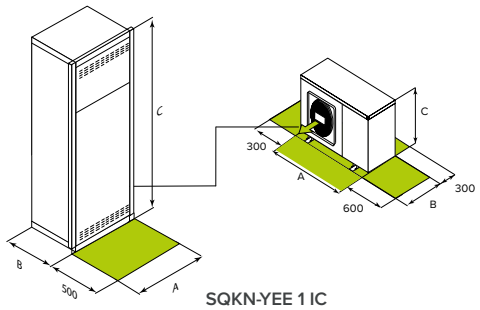
	ADIX	Main built-in cabinet
	ACS150X	150 liter DHW tank
	KCIACSX	DHW storage connection kit

accessories

	AENVX	Additional aesthetic practical cabinet for system accessories in full view
	DPX	Template for connecting the additional aesthetic practical cabinet for system accessories in full view
	ADIAX	In-wall cabinet for 150 liter DHW tank
	ACSA150X	Additional 150 liter DHW tank
	KCI150X	Pipe connection kit for additional DHW tank for SPHERA Invisible
	ACSA50X	Additional 50 liter DHW tank
	SHWTX	150 liter DHW tank with solar coil
	KCVEX	Circulation group, control unit and expansion vessel
	KPRSX	DHW recirculation pump kit (for installation inside the unit)
	KCSX	Kit for secondary circuit (1 liter circuit breaker + circulation pump)
	KIR2HLX	Two-zone distribution kit: direct + mixed
	KIR2HX	Two-zone distribution kit: direct + mixed (for installation inside the unit)
	AC50X	50 liter system inertial storage tank (for installation inside the unit)
	ACE50X	50 liter system inertial storage tank (for installation outside the unit)
	ADI50X	In-wall cabinet for inertial storage tank or solar kit
	KCIBOIX	IH hybrid version connection kit
	KSDFX	Splitter for suction and flue gas discharge (d. 80/80 mm)
	CCOAX	90° coaxial curve for suction and flue gas discharge, 360° adjustable (d. 60/100 mm)
	DTX	Drain pan with antifreeze electrical heater
	APAVX	Kit of antivibration mounts for floor installation
	ASTFX	Antivibration mounts kit for installation on the brackets for wall installation or drain pan
	KSIPX	Kit with wall fixing brackets
	ANEDX	Electronic anode to protect DHW boiler
	HTC2WX	White HID-TConnect² chronothermostat for temperature control
	SWCX	Receiver / IoT switch SwitchConnect
	AI15X NEW	15 litre inertial storage tank for indoor installation

1. Inverter DC fan
2. Inverter DC twin-rotary compressor
3. Air-gas finned exchanger (blue fin treatment)
4. Gas/water plate exchanger
5. Inverter DC high efficiency pump
6. 12-litre system expansion tank NEW
7. 3-way valve
8. Magnetic dirt separator filter
9. 150 L DHW tank with coil
10. 2 kW DHW safety heater
11. 8 L DHW expansion tank NEW
12. Anti-scalding valve
13. Cabinet with adjustable telescopic frame
14. Additional 50 L DHW storage tank (optional)
15. System inertial storage kit (optional)
16. Kit for managing 2 zones (optional)
17. Dedicated hydraulic connection for FE boiler *(Hybrid version with FE Gas Boiler)*
18. Boiler (optional)
19. 15-litre inertial tank

dimensions and connections



MiSAN-YEE 1 S
Outdoor unit (ODU)

SQKN-YEE 1 IC
Indoor unit (IDU)

For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

technical data

Size					**2.1**	**3.1**	**4.1**	**5.1**
Heating	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**4,32 / 6,26**	**6,18 / 7,41**	**8,30 / 9,11**	**10,1 / 10,3**
	COP	Outdoor air 7 °C	Nominal	-	5,42	5,21	5,31	5,01
	Capacity	Water 35/30 °C	Nominal / Maximum	kW	4,17 / 6,25	6,05 / 6,97	7,33 / 8,35	8,20 / 9,30
	COP	Outdoor air -7 °C	Nominal	-	3,16	3,00	3,23	3,07
	Capacity	Water 45/40 °C	Nominal / Maximum	kW	4,16 / 5,96	6,03 / 7,13	8,22 / 8,98	10,0 / 10,3
	COP	Outdoor air 7 °C	Nominal	-	3,93	3,83	3,95	3,86
Cooling	Capacity	Water 18/23 °C	Nominal / Maximum	kW	**4,55 / 6,88**	**6,44 / 7,65**	**8,10 / 11,1**	**10,0 / 12,0**
	EER	Outdoor air 35 °C	Nominal	-	6,08	5,24	5,12	4,77
	Capacity	Water 7/12 °C	Nominal / Maximum	kW	4,26 / 6,14	6,25 / 6,39	7,46 / 7,94	9,10 / 9,10
	EER	Outdoor air 35 °C	Nominal	-	3,50	3,09	3,33	3,09
DHW	Net tank capacity			l		143		
	Water mixed at 40 °C (V40)1			l		188		
	Heating time			h:min	2:11	2:11	1:47	1:47
Electrical power for meter sizing				kW	2,20	2,60	3,30	3,60
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	**A++**	**A++**	**A++**	**A++**
		Annual energy consumption		-	2.542	3.283	3.824	4.749
		SCOP		-	3,32	3,54	3,72	3,73
		ηs (seasonal output)		%	130	138	146	146
	Heating Water 35 °C	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	2.161	2.502	3.141	3.747
		SCOP		-	5,13	5,15	5,32	5,27
		ηs (seasonal output)		%	202	203	210	208
	DHW	Energy class		-	**A+**	**A+**	**A+**	**A+**
		Withdrawal profile		-	L	L	L	L
Size - Indoor unit						**A**		
Power supply		Voltage/Frequency/Phases		V/Hz/n°		230/50/1		
Water flow-rate		Water 35/30 °C	Nominal	l/s	0,21	0,30	0,41	0,49
Pump available pressure		Outdoor air 7 °C	Nominal	kPa	31,2	36,5	33,1	31,0
Minimum system water content				l		40		
Expansion tank capacity				l		8		
Sound power			Nominal	dB(A)		41		
Sound pressure @1m			Nominal	dB(A)		26		
Boiler - Hybrid version - SQKN-YEE 1 IH						**GAS BOILER FE 24.4 / FE 33.4** *NEW*		
Boiler	Nominal Heating capacity ((LHV)	Water 80/60 °C	Nominal	kW		24,0 / 34,0		
	Efficiency		Nominal	%		97,8 / 97,7		
Power supply		Voltage/Frequency/Phases		V/Hz/n°		230/50/1		
Power input			Water content	W		82 / 99		
Sound power			Nominal	dB(A)		49 / 52		
Size - Outdoor unit					**2.1**	**3.1**	**4.1**	**5.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°		230/50/1		
Sound power			Minimum / Nominal	dB(A)	50 / 55	51 / 57	52 / 58	52 / 60
Sound pressure @1m			Minimum / Nominal	dB(A)	37 / 42	38 / 44	39 / 45	39 / 47
Operating range								
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C		25 / 65		
		Hybrid	Minimum / Maximum	°C		25 / 75		
	Cooling	-	Minimum / Maximum	°C		5 / 25		
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C		-25 / 35		
	DHW	-	Minimum / Maximum	°C		-25 / 43		
	Cooling	-	Minimum / Maximum	°C		-5 / 43		

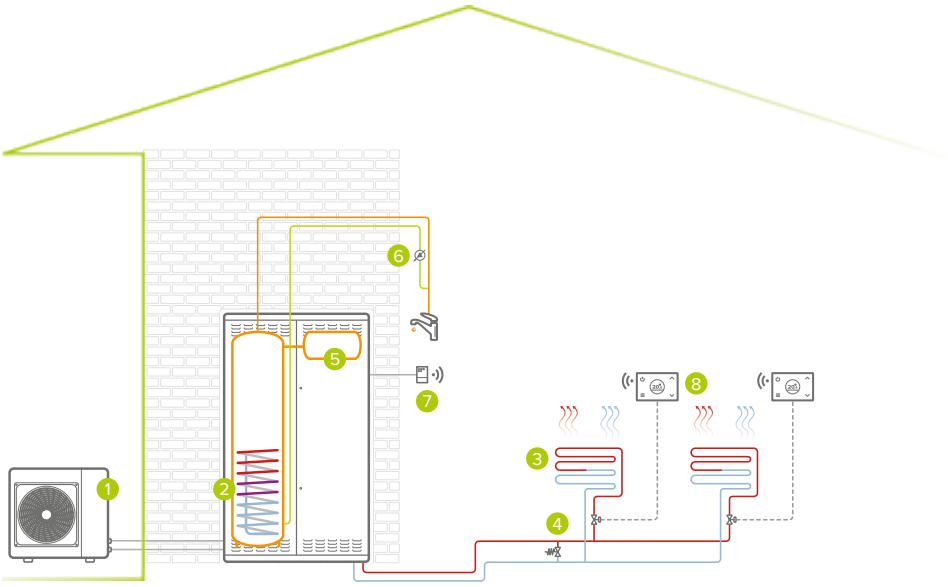
Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281). Energy classes with Control4 NRG system control

(1) Data according to EN 16147: amount of water at 40 °C with the same enthalpy content as the water coming out of the Boiler at a temperature higher than 40 °C

Size				2.1	3.1	4.1	5.1
Dimensions	Indoor unit	AxCxB	mm	950x2.200x360			
	Outdoor unit	AxCxB	mm	920x712x400		1.042x866x444	
Operating weight	Indoor unit		kg	317			
	Boiler FE 24.4 / FE 33.4		kg	31 / 34			
	Outdoor unit		kg	58		77	
Max / min equivalent length		L	m	30 / 2			
Max difference in level ODU / IDU		H	m	25			
Refrigerant precharge			type / GWP	R-32 / 675			
			kg	1,50		1,65	
			CO^2 tons	1,05		1,10	
Equivalent pipe length with pre-charging only			m	15			
External dia-meters	Refrigerant piping	Liquid	inch	1/4"		3/8"	
		Gas	inch	5/8"			
	Indoor unit	Water (System)	inch	1"			
		Water (DHW)	inch	3/4"			
	Boiler Hybrid Version	Gas	inch	3/4"			
		Intake air	mm	80			
		Exhaust gas	mm	80			

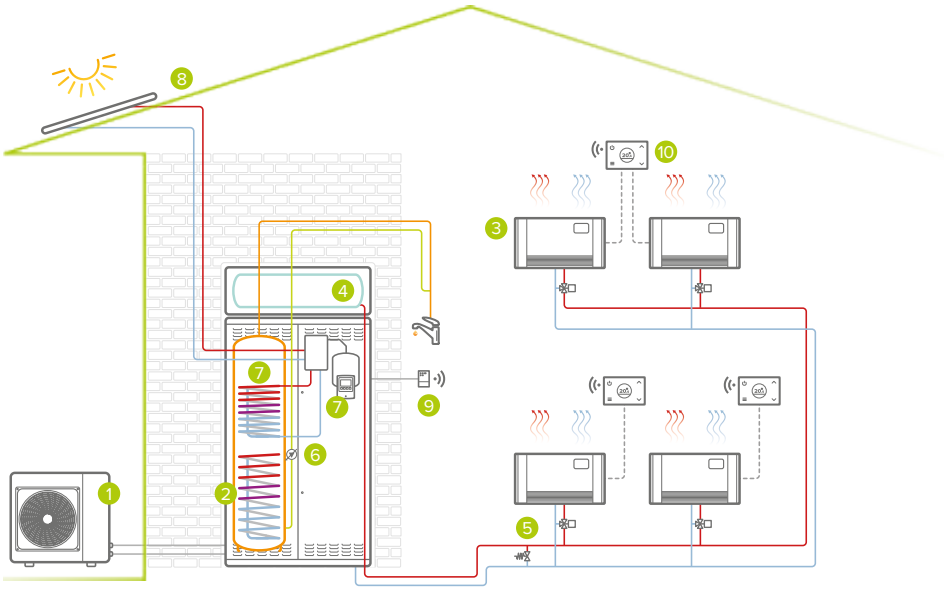
Check in the manual if the indoor unit requires a minimum installation surface

system diagrams



Full electric single-zone system:
Heating / Cooling / DHW

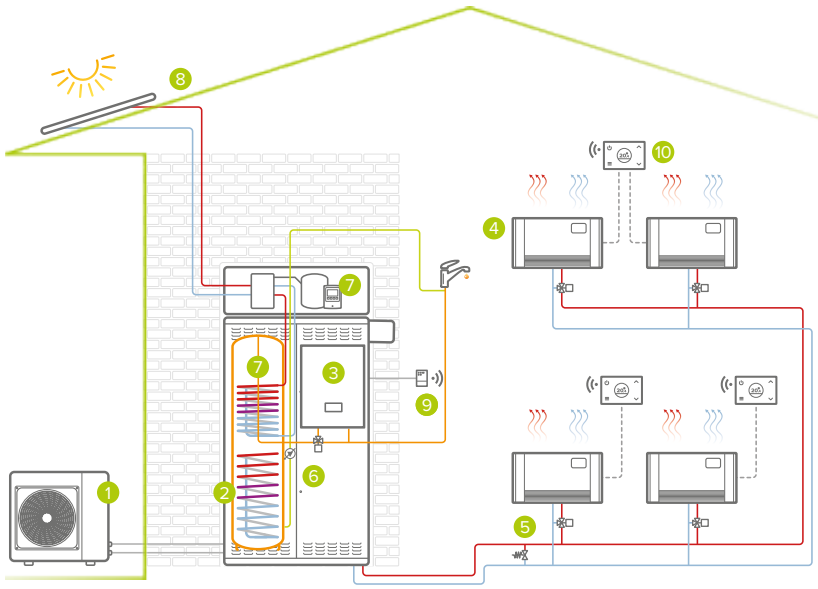
1 outdoor unit
2 indoor unit
3 heating/cooling zone
4 bypass*
5 additional DHW tank
6 DHW recirculation pump*
7 SwitchConnect Wi-Fi receiver (optional)
8 HID-TConnect2 Wi-Fi chronothermostat (optional)



Full electric single-area system with thermal solar:
Heating / Cooling / DHW

1 outdoor unit
2 indoor unit
3 heating/cooling zone
4 system inertial storage (optional)
5 bypass*
6 DHW recirculation pump (optional)
7 kit di collegamento solare (opzionale)
8 ELFOSun^3 thermal solar collector (optional)
9 SwitchConnect Wi-Fi receiver (optional)
10 HID-TConnect2 Wi-Fi chronothermostat (optional)

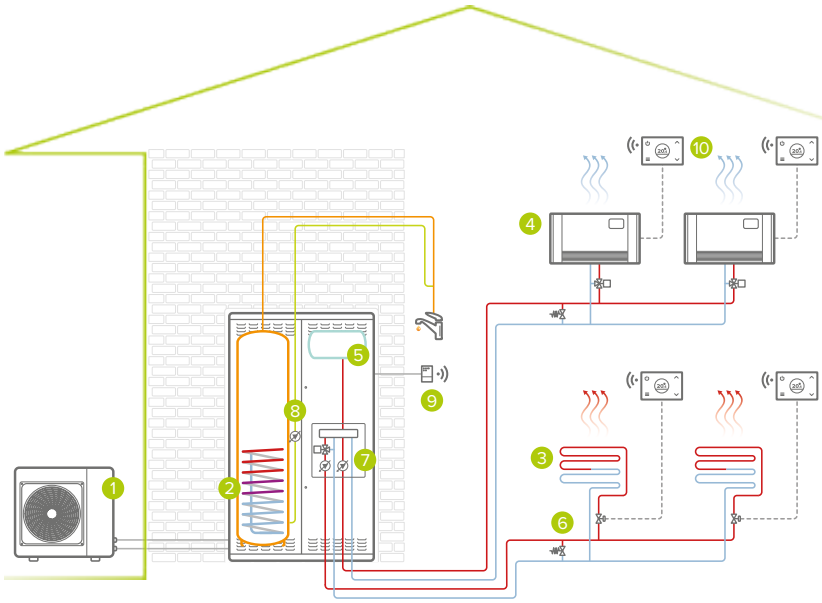
*from external supply



Hybrid single-area system with thermal solar:
Heating / Cooling / DHW

1 outdoor unit
2 indoor unit
3 boiler with instantaneous DHW (Hybrid version)
4 heating/cooling zone
5 bypass*
6 DHW recirculation pump (optional)
7 kit di collegamento solare (opzionale)
8 ELFOSun³ thermal solar collector (optional)
9 SwitchConnect Wi-Fi receiver (optional)
10 HID-TConnect2 Wi-Fi chronothermostat (optional)

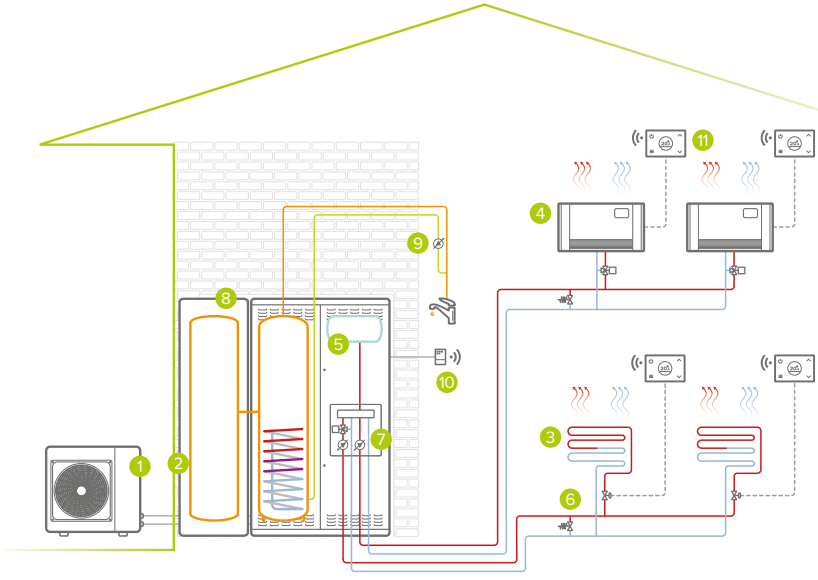
Note:
- *flue to be fitted on the side or back*



Full electric two-zone system:
Heating / Cooling / DHW

1 outdoor unit
2 indoor unit
3 heating area
4 cooling zone
5 system inertial storage (optional)
6 bypass*
7 kit for managing 2 areas (optional)
8 DHW recirculation pump (optional)
9 SwitchConnect Wi-Fi receiver (optional)
10 HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply



Full electric two-zone system with additional DHW boiler:
Heating / Cooling / DHW

1 outdoor unit
2 indoor unit
3 mixed heating/cooling zone
4 direct heating/cooling zone
5 system inertial storage (optional)
6 bypass*
7 kit for managing 2 areas (optional)
8 additional DHW tank (optional)
9 DHW recirculation pump*
10 SwitchConnect Wi-Fi receiver (optional)
11 HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply

TECHNICAL INSIGHT

Depending on the version chosen, indoor and outdoor units may require a different type of power supply. See the table below for details:

			Indoor unit				
			standard	**EH024**	**EH3**	**EH6**	**EH9**
			230V/1/50Hz			400V/3/50Hz	
Outdoor unit	2.1	230V/1/50Hz	TO	TO	-	TO	TO
	3.1		TO	TO	-	TO	TO
	4.1		TO	TO	-	TO	TO
	5.1		TO	TO	-	TO	TO
	6.1		B	-	B	B	B
	7.1		B	-	B	B	B
	8.1		B	-	B	B	B
	6.1	400V/3/50Hz	B	-	B	B	B
	7.1		B	-	B	B	B
	8.1		B	-	B	B	B

SPHERA EVO 2.0 EASYHYBRID BOX

SQKN-YEE 1 BH + MiSAN-YEE 1 S 2.1÷8.1

Wall-mounted air-to-water Refrigerant-split hybrid heat pump for heating, cooling and domestic hot water production

ENERGY SAVING

- Solar integration *(optional - DHW tank)*
- Cascade
- €-Switch

COMFORT

- Hot Cold
- DHW
- Silent

CONVENIENCE

- Weekley Timer
- Contemporaneity
- Instant DHW

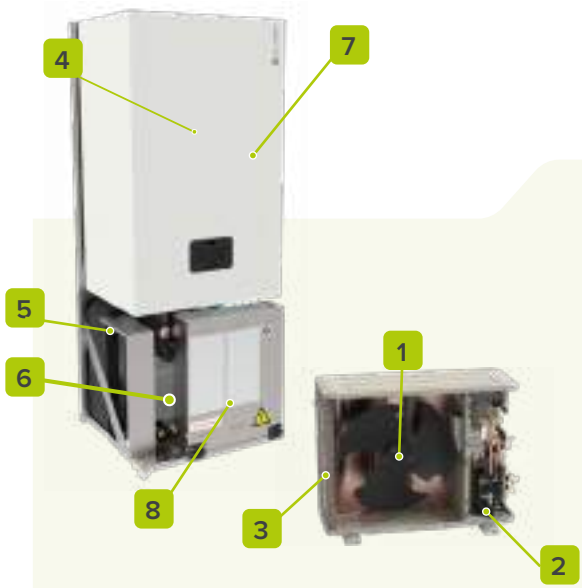
MANAGEMENT AND CONNECTIVITY

- Input ON/OFF
- Port Modbus
- Control via App
- management Control4 NRG
- Clivet Eye monitoring

- ✓ Ideal for replacing old systems while keeping existing radiators
- ✓ Perfect for replacing a boiler: designed with similar overall dimensions
- ✓ 24 or 34 kW boiler to fulfil all requirements, with instant DHW production
- ✓ Simultaneous heating and cooling operation and DHW supply
- ✓ Connectivity and APP to keep the system under control

The €/Switch function

SPHERA EVO 2.0 EASYHybrid Box has a function that can be selected directly from the interface, which makes it possible to calculate the resource (heat pump and/or boiler) that is able to fulfil the heat demand with the lowest economic cost in every operating condition. To use the €-Switch function, simply enter the cost per kWh of electricity and the cost per m^3 of methane gas from the energy provider's supply contract, and define the main type of terminals in the building (radiant panel, fan coil, radiator).



1. Inverter DC fan
2. Inverter DC twin-rotary compressor
3. Air-gas finned exchanger (blue fin treatment)
4. Instantaneous condensing boiler
5. Gas/water plate exchanger
6. Inverter DC high efficiency pump
7. 8- or 10-litre system expansion tank
8. Electrical control panel

configurations

OUTDOOR UNIT POWER SUPPLY (SIZES 6.1 TO 8.1):

220M	**Power supply 230/1/20 (standard)**
400TN	Power supply 400/3/50+N

INTEGRATED CONDENSING BOILER:

HYFE24	24 kW instantaneous boiler
HYFE34	34 kW instantaneous boiler

Note: boiler to be selected separately

accessories

	ACS200X	200 liter DHW tank
	ACS300X	300 liter DHW tank
	ACS500X	500 liter DHW tank
	SRICX	Additional PCB for 2-zone management
	KCSX	Kit for secondary circuit (1 liter circuit breaker + circulation pump + management PCB)
	SCS08X	Solar coil for ACS200X/ACS300X DHW tank
	SCS12X	Solar coil for ACS500X DHW tank
	KIRE2HLX	Two-zone distribution kit management PCB: direct + mixed
	KIRE2HX	Two-zone distribution kit management PCB: direct + direct
	DI50-2X	50 liter hydraulic separator
	ACI40X	40 liter system inertial storage tank
	KSDFX	Splitter for suction and flue gas discharge (d. 80/80 mm)
	KCSAFX	Vertical coaxial fitting for smoke intake and discharge (d. 60/100 mm)

	CCOAX	90° coaxial curve for suction and flue gas discharge, 360° adjustable (d. 60/100 mm)
	TCOAX	1 m coaxial pipe with terminal (d. 60/100 mm)
	VDACSX	Thermostated diverter valve for DHW
	3DHWX	3-way deviating valve for system/ DHW 1" connections
	DTX	Drain pan with antifreeze electrical heater
	APAVX	Kit of antivibration mounts for floor installation
	ASTFX	Antivibration mounts kit for installation on the brackets for wall installation or drain pan
	KSIPX	Kit with wall fixing brackets
	HTC2WX	White HID-TConnect^2 chronothermostat for temperature control
	SWCX	Receiver / IoT switch SwitchConnect

technical data

Size					2.1		3.1		4.1		5.1		6.1	7.1	8.1
				HYFE boiler	**24**	**34**	**24**	**34**	**24**	**34**	**24**	**34**	**34**	**34**	**34**
Heating Heat pump	Capacity	Water 35/30 °C	Nominal / Maximum	kW	4,32 / 6,26		6,18 / 7,41		8,30 / 9,11		10,1 / 10,3		12,1 / 14,6	14,5 / 15,5	16,0 / 16,8
	COP	Outdoor air 7 °C	Nominal	-	5,42		5,21		5,31		5,01		5,00	4,70	4,55
	Capacity	Water 35/30 °C	Nominal / Maximum	kW	4,17 / 6,25		6,05 / 6,97		7,33 / 8,35		8,20 / 9,30		10,5 / 13,9	12,2 / 14,1	13,4 / 14,3
	COP	Outdoor air -7 °C	Nominal	-	3,16		3		3,23		3,07		3,13	2,82	2,74
	Capacity	Water 45/40 °C	Nominal / Maximum	kW	4,16 / 5,96		6,03 / 7,13		8,22 / 8,98		10,0 / 10,3		12,3 / 14,5	14,0 / 15,7	16,0 / 16,6
	COP	Outdoor air 7 °C	Nominal	-	3,93		3,83		3,95		3,86		3,80	3,65	3,60
Heating Heat pump	Nominal Heating capacity ((LHV)	Water 80/60 °C	Nominal	kW	**24,0**	**34,0**	**24,0**	**34,0**	**24,0**	**34,0**	**24,0**	**34,0**	**34,0**	**34,0**	**34,0**
	Efficiency		Nominal	%	97,8	97,7	97,8	97,7	97,8	97,7	97,8	97,7	97,7	97,7	97,7
Cooling	Capacity	Water 18/23 °C	Nominal / Maximum	kW	**4,55 / 6,88**		**6,44 / 7,65**		**8,10 / 11,1**		**10,0 / 12,0**		**12,1 / 15,0**	**13,8 / 15,3**	**14,8 / 16,4**
	EER	Outdoor air 35 °C	Nominal	-	6,08		5,24		5,12		4,77		4,02	3,70	3,65
	Capacity	Water 7/12 °C	Nominal / Maximum	kW	4,26 / 6,14		6,25 / 6,39		7,46 / 7,94		9,10 / 9,10		11,8 / 11,8	12,9 / 12,9	14,2 / 14,2
	EER	Outdoor air 35 °C	Nominal	-	3,50		3,09		3,33		3,09		2,75	2,55	2,45
ACS	Capacity		Maximum	kW	24,0	34,0	24,0	34,0	24,0	34,0	24,0	34,0	34,0	34,0	34,0
Boiler	Specific flow rate	Water with ΔT=30 °C in 10 minutes		l/min	13,5	16,0	13,5	16,0	13,5	16,0	13,5	16,0	16,0	16,0	16,0
Electrical power for meter sizing				kW	2,20		2,60		3,30		3,60		5,40	5,70	6,10
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	**A++**		**A++**		**A++**		**A++**		**A++**	**A++**	**A++**
		Annual energy consumption		kWh/year	2.542		3.283		3.824		4.749		6.793	7.380	7.915
		SCOP		-	3,32		3,54		3,72		3,73		3,56	3,52	3,48
		ηs (seasonal output)		%	130		138		146		146		139	138	136
	Heating Water 35 °C	Energy class		-	**A+++**		**A+++**		**A+++**		**A+++**		**A+++**	**A+++**	**A+++**
		Annual energy consumption		kWh/year	2.161		2.502		3.141		3.747		4.994	5.868	6.602
		SCOP		-	5,13		5,15		5,32		5,27		5,00	4,91	4,89
		ηs (seasonal output)		%	202		203		210		208		196	193	193
	DHW Boiler	Energy class		-	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**
		Withdrawal profile		-	XL	XXL	XL	XXL	XL	XXL	XL	XXL	XXL	XXL	XXL

Size - Indoor unit							**A**				**B**	**C**	**D**
Power supply		Voltage/Frequency/Phases		V/Hz/n°				230/50/1					
Water flow-rate		Water 35/30 °C	Nominal	l/s	0,21	0,30	0,41	0,49	0,57	0,67	0,75		
Pump available pressure		Outdoor air 7 °C	Nominal	kPa	31,2	36,5	33,1	31,0	25,7	31,7	22,6		
Minimum system water content				l				40					
Expansion tank capacity				l				8 (HYFE24) / 10 (HYFE34)					
Sound power	Operation: heat pump only / heat pump + boiler		Nominal	dB(A)	41 / 46	41 / 46	41 / 46	41 / 46	41 / 46	41 / 46	41 / 46		
Sound pressure @1m			Nominal	dB(A)	28 / 33	28 / 33	28 / 33	28 / 33	28 / 33	28 / 33	28 / 33		

HYFE boiler					**24**	**24**	**24**	**24**	**34**	**34**	**34**
Power supply		Voltage/Frequency/Phases		V/Hz/n°			230/50/1				
Power input			Water content	W	82	99					

Size - Outdoor unit					**2.1**	**3.1**	**4.1**	**5.1**	**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°			230/50/1				
Sound power			Minimum / Nominal	dB(A)	50 / 55	51 / 57	52 / 58	52 / 60	54 / 63	54 / 64	54 / 66
Sound pressure @1m			Minimum / Nominal	dB(A)	37 / 42	38 / 44	39 / 45	39 / 47	41 / 50	41 / 51	41 / 53

Operating range											
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 80	25 / 80	25 / 80	25 / 80	25 / 80	25 / 80	25 / 80
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43

Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).

Standard power supply: G20 (100% natural gas). Power supply with optional kit: G30 / G31 (LPG gas)

dimensions and connections

Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	450x1.086x410	450x1.086x410	450x1.086x410	450x1.086x410	450x1.086x410	450x1.086x410	450x1.086x410
	Outdoor unit	AxCxB	mm	920x712x400	920x712x400	1.042x866x444	1.042x866x444	1.042x866x444	1.042x866x444	1.042x866x444
Weight	Indoor unit		kg	39	39	39	39	41	41	41
	Boiler - 24 kW		kg	31	31	31	31	-	-	-
	Boiler - 34 kW		kg	34	34	34	34			
	Outdoor unit		kg	58	58	77	77	112	112	112
Max / min equivalent length		L	m	30 / 2	30 / 2	30 / 2	30 / 2	30 / 2	30 / 2	30 / 2
Max difference in level ODU / IDU		H	m	25	25	25	25	25	25	25
Refrigerant precharge			type / GWP	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675
			kg	1,50	1,50	1,65	1,65	1,84	1,84	1,84
			CO^2 tons	1,05	1,05	1,10	1,10	1,24	1,24	1,24
Equivalent pipe length with pre-charging only			m	15	15	15	15	15	15	15
External dia-meters	Refrigerant piping	Liquid	inch	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"
		Gas	inch	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
	Indoor unit	Water (System)	inch	1"	1"	1"	1"	1"	1"	1"
		Water (DHW)	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Boiler	Gas	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
		Intake air	mm	80	80	80	80	80	80	80
		Exhaust gas	mm	80	80	80	80	80	80	80

Check in the manual if the indoor unit requires a minimum installation surface

Size - Set (400TN version)					6.1	7.1	8.1
				HYFE boiler	**34**	**34**	**34**
Heating Heat pump	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**12,1 / 14,6**	**14,5 / 15,5**	**16,0 / 16,8**
	COP	Outdoor air 7 °C	Nominal	-	5,00	4,70	4,55
	Capacity	Water 35/30 °C	Nominal / Maximum	kW	10,5 / 13,9	12,2 / 14,1	13,4 / 14,3
	COP	Outdoor air -7 °C	Nominal	-	3,13	2,82	2,74
	Capacity	Water 45/40 °C	Nominal / Maximum	kW	12,3 / 14,5	14,0 / 15,7	16,0 / 16,6
	COP	Outdoor air 7 °C	Nominal	-	3,80	3,65	3,60
Heating Heat pump	Nominal Heating capacity ((LHV)	Water 80/60 °C	Nominal	kW	34,0	34,0	34,0
	Efficiency		Nominal	%	97,7	97,7	97,7
Cooling	Capacity	Water 18/23 °C	Nominal / Maximum	kW	**12,1 / 15,0**	**13,8 / 15,3**	**14,8 / 16,4**
	EER	Outdoor air 35 °C	Nominal	-	4,02	3,70	3,65
	Capacity	Water 7/12 °C	Nominal / Maximum	kW	11,8 / 11,8	12,9 / 12,9	14,2 / 14,2
	EER	Outdoor air 35 °C	Nominal	-	2,75	2,55	2,45
ACS	Capacity		Maximum	kW	34,0	34,0	34,0
Boiler	Specific flow rate	Water with ΔT=30 °C in 10 minutes		l/min	16,0	16,0	16,0
Electrical power for meter sizing				kW	5,40	5,70	6,10
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	**A++**	**A++**	**A++**
		Annual energy consumption		kWh/year	6.793	7.380	7.915
		SCOP		-	3,56	3,52	3,48
		ηs (seasonal output)		%	139	138	136
	Heating Water 35 °C	Energy class		-	**A+++**	**A+++**	**A+++**
		Annual energy consumption		kWh/year	4.994	5.868	6.602
		SCOP		-	5,00	4,91	4,89
		ηs (seasonal output)		%	196	193	193
	DHW Boiler	Energy class		-	**A**	**A**	**A**
		Withdrawal profile		-	XXL	XXL	XXL

Size - Indoor unit					**B**	**C**	**D**
Power supply		Voltage/Frequency/Phases		V/Hz/n°		230/50/1	
Water flow-rate		Water 35/30 °C	Nominal	l/s	0,57	0,67	0,75
Pump available pressure		Outdoor air 7 °C	Nominal	kPa	25,7	31,7	22,6
Minimum system water content				l	40	40	40
Expansion tank capacity				l	10	10	10
Sound power	Operation:		Nominal	dB(A)	41 / 46	41 / 46	41 / 46
Sound pressure @1m	heat pump only / heat pump + boiler		Nominal	dB(A)	28 / 33	28 / 33	28 / 33

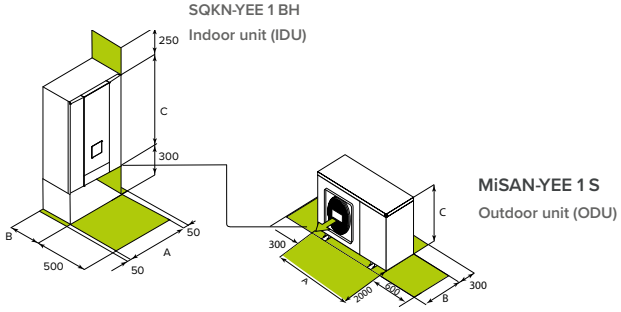
HYFE boiler					**34**	**34**	**34**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1	230/50/1	230/50/1
Power input			Water content	W	99	99	99

Size - Outdoor unit					**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°		230/50/1	
Sound power			Minimum / Nominal	dB(A)	54 / 63	54 / 64	54 / 66
Sound pressure @1m			Minimum / Nominal	dB(A)	41 / 50	41 / 51	41 / 53

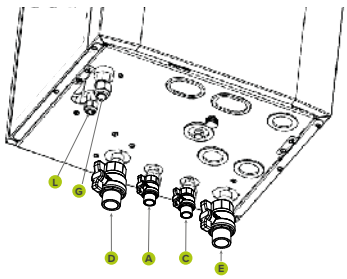
Operating range							
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 80	25 / 80	25 / 80
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43

Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).

Standard power supply: G20 (100% natural gas). Power supply with optional kit: G30 / G31 (LPG gas)

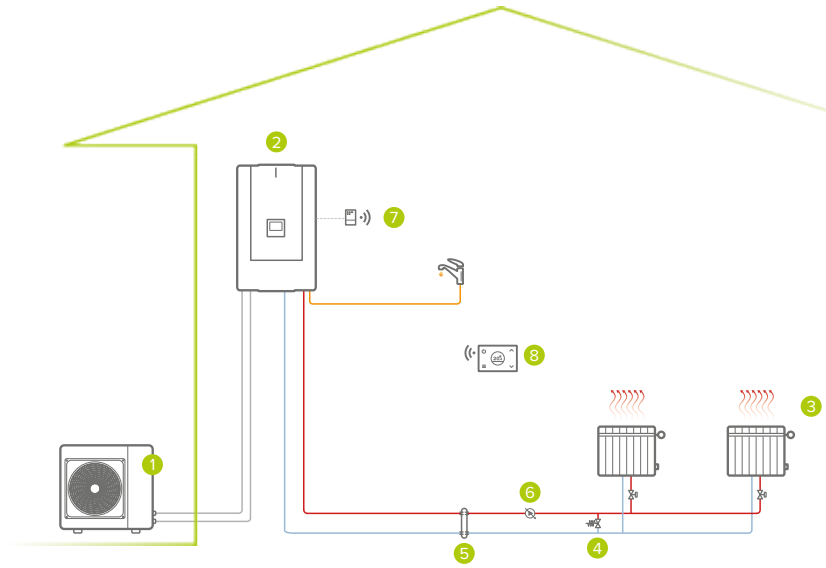


For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.



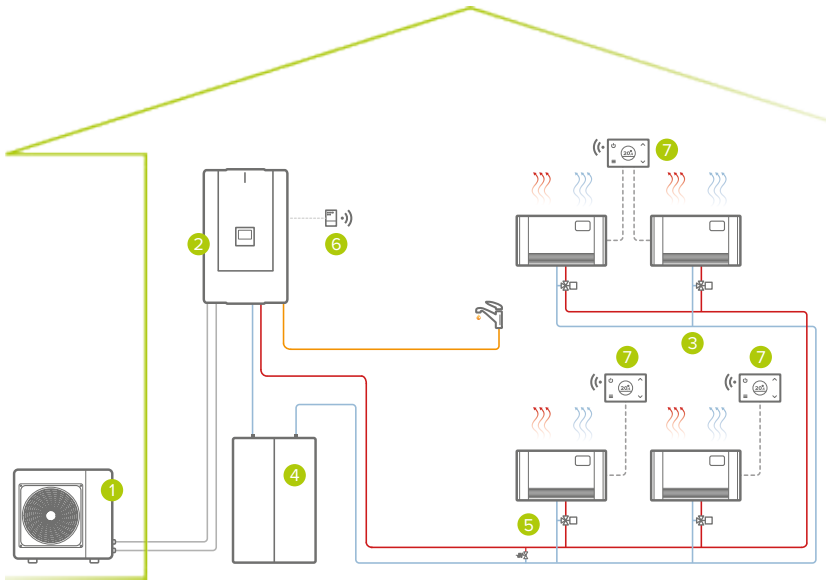
L. Refrigerant - liquid pipe
G. Refrigerant - gas pipe
A. Domestic hot water - supply to external exchanger
C. Domestic hot water - return from external exchanger
D. System - water return
E. System - water supply

system diagrams



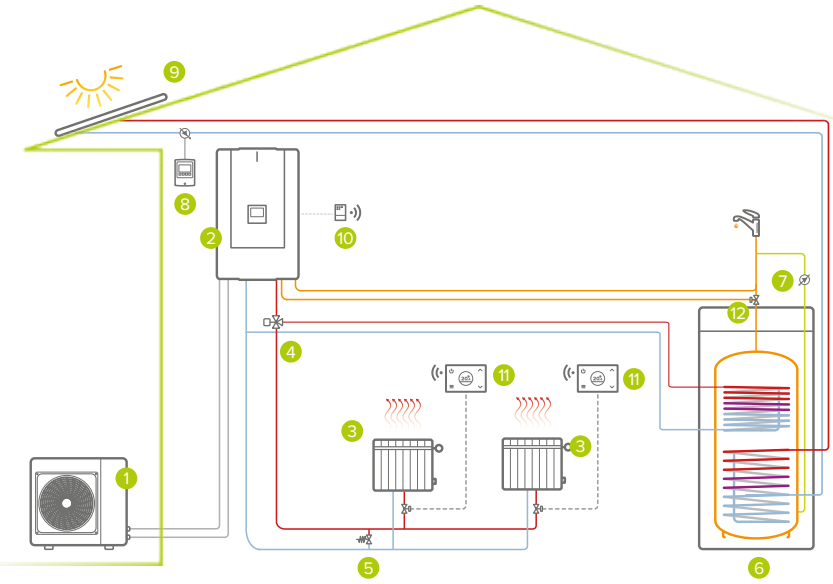
Hybrid single-zone system:
Heating / DHW

1 outdoor unit
2 indoor hybrid unit
3 heating area
4 bypass*
5 hydraulic separator (optional)
6 secondary circuit pump*
7 SwitchConnect Wi-Fi receiver (optional)
8 HID-TConnect2 Wi-Fi chronothermostat (optional)



Hybrid single-zone system:
Heating / Cooling / DHW

1 outdoor unit
2 indoor hybrid unit
3 heating/cooling zone
4 system inertial storage (optional)
5 bypass*
6 SwitchConnect Wi-Fi receiver (optional)
7 HID-TConnect2 Wi-Fi chronothermostat (optional)



Hybrid single-area system with thermal solar:
Heating / Cooling / DHW

1 outdoor unit
2 indoor hybrid unit
3 heating area
4 3-way switching valve (optional)
5 bypass*
6 DHW boiler with solar coil (optional)
7 DHW recirculation pump*
8 kit di circolazione solare (opzionale)
9 ELFOSun^3 thermal solar (optional)
10 SwitchConnect Wi-Fi receiver (optional)
11 HID-TConnect2 Wi-Fi chronothermostat (optional)
12 thermostatic switching valve for DHW (optional)

*from external supply

SPHERA EVO 2.0 EASYHYBRID TOWER

SQKN-YEE 1 BH + MiSAN-YEE 1 S 2.1 ÷ 8.1

Configurazione TH con armadi accessori

Air-to-water Refrigerant-split hybrid heat pump with DHW tank for heating, cooling and domestic hot water production

ENERGY SAVING
- Integration Heating/DHW
- €-Switch

COMFORT
- Hot Cold
- DHW
- Silent

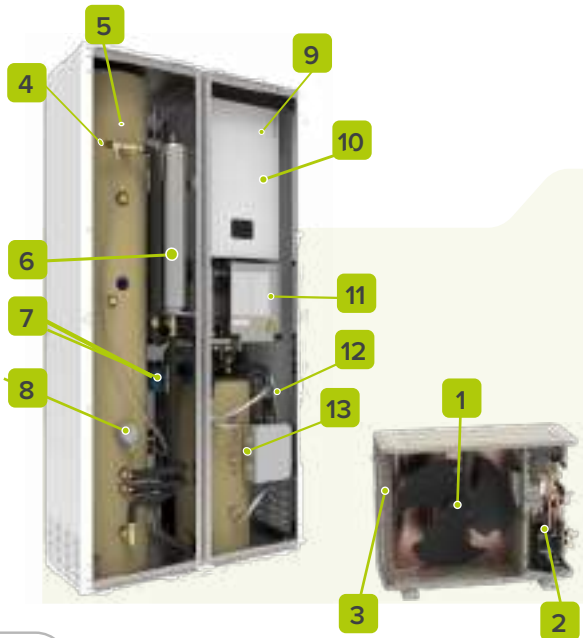
CONVENIENCE
- Weekley Timer
- Integrated DHW tank
- Instant DHW

MANAGEMENT AND CONNECTIVITY
- Input ON/OFF
- Port Modbus
- Control via App
- management Control4 NRG
- Clivet Eye monitoring

- ✓ Optimised to maximise energy savings without sacrificing comfort
- ✓ Compatible with a radiator system: water temperature up to 80 °C
- ✓ Customisable with numerous kits for a complete, yet discreet, central heating plant
- ✓ Domestic hot water volume can be increased to up to 300 litres
- ✓ Connectivity and the APP to keep the system under control

Flexible and compact

SPHERA EVO 2.0 EASYHybrid Tower has the indoor Box unit fitted into modular units, so you can create the perfect solution for your system. Each module can be created and customised with all the necessary components for an efficient and reliable system, all inside a compact cabinet with an appearance that blends in with the environment in which it is installed.



1. Inverter DC fan
2. Inverter DC twin-rotary compressor
3. Air-gas finned exchanger (blue fin treatment)
4. DHW pressure relief valve
5. 150 L DHW tank with coil
6. 8-litre DHW expansion tank
7. 3-way valve
8. 2kW DHW safety heater
9. Instantaneous condensing boiler
10. 8- or 10-litre system expansion tank
11. Electrical control panel
12. 1-zone booster kit (optional)
13. System inertial storage kit (optional)

configurations

OUTDOOR UNIT POWER SUPPLY (SIZES 6.1 TO 8.1):

220M	**Power supply 230/1/20 (standard)**
400TN	Power supply 400/3/50+N

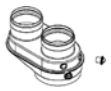
INTEGRATED CONDENSING BOILER:

HYFE24	24 kW instantaneous boiler
HYFE34	34 kW instantaneous boiler

Note: boiler to be selected separately

accessories

	TUNOX	Main aesthetic cabinet for Sphera EVO 2.0 EASYHybrid
	TDUEX	Additional 150 liter DHW tank with aesthetic cabinet
	TDUESX	Additional 150 liter DHW tank with solar coil with aesthetic cabinet
	KCACSX	Pipe connection kit for TDUEX, TDUESX accessories
	TTREX	Additional aesthetic cabinet for system accessories
	TTREAX	Second additional 150 liter DHW tank with aesthetic cabinet
	KC150X	Pipe connection kit for TTREAX accessory
	SRICX	Additional PCB for 2-zone management
	KCSIX	Kit for secondary circuit for installation inside the unit (1 liter circuit breaker + circulation pump + management PCB)
	KIR2HLX	Two-zone distribution kit management PCB: direct + mixed (for installation inside the unit)
	KIR2HX	Two-zone distribution kit with management PCB: direct + direct (for installation inside the unit)
	AC50X	50 liter system inertial storage tank with connection kit for EASYHybrid (for installation inside the unit)
	KPRSX	DHW recirculation pump kit (for installation inside the unit)

	ANEDX	Electronic anode to protect DHW boiler
	KSDFX	Smoke intake and exhaust splitter (d. 80/80 mm)
	KCSAFX	Vertical coaxial fitting for smoke intake and discharge (d. 60/100 mm)
	CCOAX	90° coaxial curve for suction and flue gas discharge, 360° adjustable (d. 60/100 mm)
	TCOAX	1 m coaxial pipe with terminal (d. 60/100 mm)
	3DHWX	3-way deviating valve for system/DHW 1" connections
	DTX	Drain pan with antifreeze electrical heater
	APAVX	Kit of antivibration mounts for floor installation
	ASTFX	Antivibration mounts kit for installation on the brackets for wall installation or drain pan
	KSIPX	Kit with wall fixing brackets
	KCVEX	Solar kit: circulation unit, control unit and expansion vessel
	HTC2WX	White HID-TConnect^2 chronothermostat for temperature control
	SWCX	Receiver / IoT switch SwitchConnect

technical data

Size					2.1		3.1		4.1		5.1		6.1	7.1	8.1
				HYFE boiler	**24**	**34**	**24**	**34**	**24**	**34**	**24**	**34**	**34**	**34**	**34**
Heating Heat pump	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**4,32 / 6,26**		**6,18 / 7,41**		**8,30 / 9,11**		**10,1 / 10,3**		**12,1 / 14,6**	**14,5 / 15,5**	**16,0 / 16,8**
	COP	Outdoor air 7 °C	Nominal	-	5,42		5,21		5,31		5,01		5,00	4,70	4,55
	Capacity	Water 35/30 °C	Nominal / Maximum	kW	4,17 / 6,25		6,05 / 6,97		7,33 / 8,35		8,20 / 9,30		10,5 / 13,9	12,2 / 14,1	13,4 / 14,3
	COP	Outdoor air -7 °C	Nominal	-	3,16		3		3,23		3,07		3,13	2,82	2,74
	Capacity	Water 45/40 °C	Nominal / Maximum	kW	4,16 / 5,96		6,03 / 7,13		8,22 / 8,98		10,0 / 10,3		12,3 / 14,5	14,0 / 15,7	16,0 / 16,6
	COP	Outdoor air 7 °C	Nominal	-	3,93		3,83		3,95		3,86		3,80	3,65	3,60
Heating Heat pump	Nominal Heating capacity ((LHV)	Water 80/60 °C	Nominal	kW	24,0	34,0	24,0	34,0	24,0	34,0	24,0	34,0	34,0	34,0	34,0
	Efficiency		Nominal	%	97,8	97,7	97,8	97,7	97,8	97,7	97,8	97,7	97,7	97,7	97,7
Cooling	Capacity	Water 18/23 °C	Nominal / Maximum	kW	**4,55 / 6,88**		**6,44 / 7,65**		**8,10 / 11,1**		**10,0 / 12,0**		**12,1 / 15,0**	**13,8 / 15,3**	**14,8 / 16,4**
	EER	Outdoor air 35 °C	Nominal	-	6,08		5,24		5,12		4,77		4,02	3,70	3,65
	Capacity	Water 7/12 °C	Nominal / Maximum	kW	4,26 / 6,14		6,25 / 6,39		7,46 / 7,94		9,10 / 9,10		11,8 / 11,8	12,9 / 12,9	14,2 / 14,2
	EER	Outdoor air 35 °C	Nominal	-	3,50		3,09		3,33		3,09		2,75	2,55	2,45
ACS	Capacity		Maximum	kW	24,0	34,0	24,0	34,0	24,0	34,0	24,0	34,0	34,0	34,0	34,0
Boiler	Specific flow rate	Water with ΔT=30 °C in 10 minutes		l/min	13,5	16,0	13,5	16,0	13,5	16,0	13,5	16,0	16,0	16,0	16,0
Electrical power for meter sizing				kW	2,20		2,60		3,30		3,60		5,40	5,70	6,10
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	**A++**		**A++**		**A++**		**A++**		**A++**	**A++**	**A++**
		Annual energy consumption		kWh/year	2.542		3.283		3.824		4.749		6.793	7.380	7.915
		SCOP		-	3,32		3,54		3,72		3,73		3,56	3,52	3,48
		ηs (seasonal output)		%	130		138		146		146		139	138	136
	Heating Water 35 °C	Energy class		-	**A+++**		**A+++**		**A+++**		**A+++**		**A+++**	**A+++**	**A+++**
		Annual energy consumption		kWh/year	2.161		2.502		3.141		3.747		4.994	5.868	6.602
		SCOP		-	5,13		5,15		5,32		5,27		5,00	4,91	4,89
		ηs (seasonal output)		%	202		203		210		208		196	193	193
	DHW Boiler	Energy class		-	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**
		Withdrawal profile		-	XL	XXL	XL	XXL	XL	XXL	XL	XXL	XXL	XXL	XXL

Size - Indoor unit					A	B	C	D
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1			
Water flow-rate		Water 35/30 °C	Nominal	l/s	0,21 / 0,30 / 0,41 / 0,49	0,57	0,67	0,75
Pump available pressure		Outdoor air 7 °C	Nominal	kPa	31,2 / 36,5 / 33,1 / 31,0	25,7	31,7	22,6
Minimum system water content				l	40			
Expansion tank capacity				l	8 (HYFE24) / 10 (HYFE34)			
Sound power	Operation:		Nominal	dB(A)	41 / 46			
Sound pressure @1m	heat pump only / heat pump + boiler		Nominal	dB(A)	28 / 33			

HYFE boiler					24	34
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1	
Power input			Water content	W	82	99

Size - Outdoor unit					2.1	3.1	4.1	5.1	6.1	7.1	8.1
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1						
Sound power			Minimum / Nominal	dB(A)	50 / 55	51 / 57	52 / 58	52 / 60	54 / 63	54 / 64	54 / 66
Sound pressure @1m			Minimum / Nominal	dB(A)	37 / 42	38 / 44	39 / 45	39 / 47	41 / 50	41 / 51	41 / 53

Operating range					
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 80
	Cooling	-	Minimum / Maximum	°C	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43

Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).

Standard power supply: G20 (100% natural gas). Power supply with optional kit: G30 / G31 (LPG gas)

dimensions and connections

Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	1.100x2.100x530 (TUNOX + TDUEX)						
	Outdoor unit	AxCxB	mm	920x712x400				1.042x866x444		
Operating weight	Indoor unit		kg	325						
	Boiler - 24 kW		kg	31					-	
	Boiler - 34 kW		kg	34						
	Outdoor unit		kg	58		77			112	
Max / min equivalent length		L	m	30 / 2						
Max difference in level ODU / IDU		H	m	25						
Refrigerant precharge			type / GWP	R-32 / 675						
			kg	1,50		1,65			1,84	
			CO_2 tons	1,05		1,10			1,24	
Equivalent pipe length with pre-charging only			m	15						
External diameters	Refrigerant piping	Liquid	inch	1/4"				3/8"		
		Gas	inch	5/8"						
	Indoor unit	Water (System)	inch	1"						
		Water (DHW)	inch	3/4"						
	Boiler	Gas	inch	3/4"						
		Intake air	mm	80						
		Exhaust gas	mm	80						

Check in the manual if the indoor unit requires a minimum installation surface

Size - Set (400TN version)					6.1	7.1	8.1
				HYFE boiler	**34**	**34**	**34**
Heating Heat pump	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**12,1 / 14,6**	**14,5 / 15,5**	**16,0 / 16,8**
	COP	Outdoor air 7 °C	Nominal	-	5,00	4,70	4,55
	Capacity	Water 35/30 °C	Nominal / Maximum	kW	10,5 / 13,9	12,2 / 14,1	13,4 / 14,3
	COP	Outdoor air -7 °C	Nominal	-	3,13	2,82	2,74
	Capacity	Water 45/40 °C	Nominal / Maximum	kW	12,3 / 14,5	14,0 / 15,7	16,0 / 16,6
	COP	Outdoor air 7 °C	Nominal	-	3,80	3,65	3,60
Heating Heat pump	Nominal Heating capacity ((LHV)	Water 80/60 °C	Nominal	kW	34,0	34,0	34,0
	Efficiency		Nominal	%	97,7	97,7	97,7
Cooling	Capacity	Water 18/23 °C	Nominal / Maximum	kW	**12,1 / 15,0**	**13,8 / 15,3**	**14,8 / 16,4**
	EER	Outdoor air 35 °C	Nominal	-	4,02	3,70	3,65
	Capacity	Water 7/12 °C	Nominal / Maximum	kW	11,8 / 11,8	12,9 / 12,9	14,2 / 14,2
	EER	Outdoor air 35 °C	Nominal	-	2,75	2,55	2,45
ACS	Capacity		Maximum	kW	34,0	34,0	34,0
Boiler	Specific flow rate	Water with ΔT=30 °C in 10 minutes		l/min	16,0	16,0	16,0
Electrical power for meter sizing				kW	5,40	5,70	6,10
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	**A++**	**A++**	**A++**
		Annual energy consumption		kWh/year	6.793	7.380	7.915
		SCOP		-	3,56	3,52	3,48
		ηs (seasonal output)		%	139	138	136
	Heating Water 35 °C	Energy class		-	**A+++**	**A+++**	**A+++**
		Annual energy consumption		kWh/year	4.994	5.868	6.602
		SCOP		-	5,00	4,91	4,89
		ηs (seasonal output)		%	196	193	193
	DHW Boiler	Energy class		-	**A**	**A**	**A**
		Withdrawal profile		-	XXL	XXL	XXL

Size - Indoor unit					**B**	**C**	**D**
Power supply		Voltage/Frequency/Phases		V/Hz/n°		230/50/1	
Water flow-rate		Water 35/30 °C	Nominal	l/s	0,57	0,67	0,75
Pump available pressure		Outdoor air 7 °C	Nominal	kPa	25,7	31,7	22,6
Minimum system water content				l		40	
Expansion tank capacity				l		10	
Sound power	Operation:		Nominal	dB(A)		41 / 46	
Sound pressure @1m	heat pump only / heat pump + boiler		Nominal	dB(A)		28 / 33	

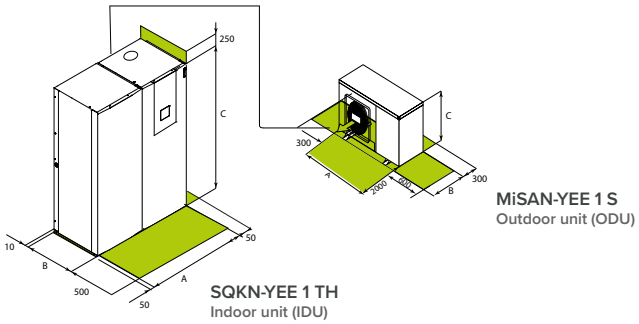
HYFE boiler					**34**		
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1		
Power input			Water content	W	99		

Size - Outdoor unit					**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°		230/50/1	
Sound power			Minimum / Nominal	dB(A)	54 / 63	54 / 64	54 / 66
Sound pressure @1m			Minimum / Nominal	dB(A)	41 / 50	41 / 51	41 / 53

Operating range							
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C		25 / 65	
		Hybrid	Minimum / Maximum	°C		25 / 80	
	Cooling	-	Minimum / Maximum	°C		5 / 25	
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C		-25 / 35	
	DHW	-	Minimum / Maximum	°C		-25 / 43	
	Cooling	-	Minimum / Maximum	°C		-5 / 43	

Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).

Standard power supply: G20 (100% natural gas). Power supply with optional kit: G30 / G31 (LPG gas)

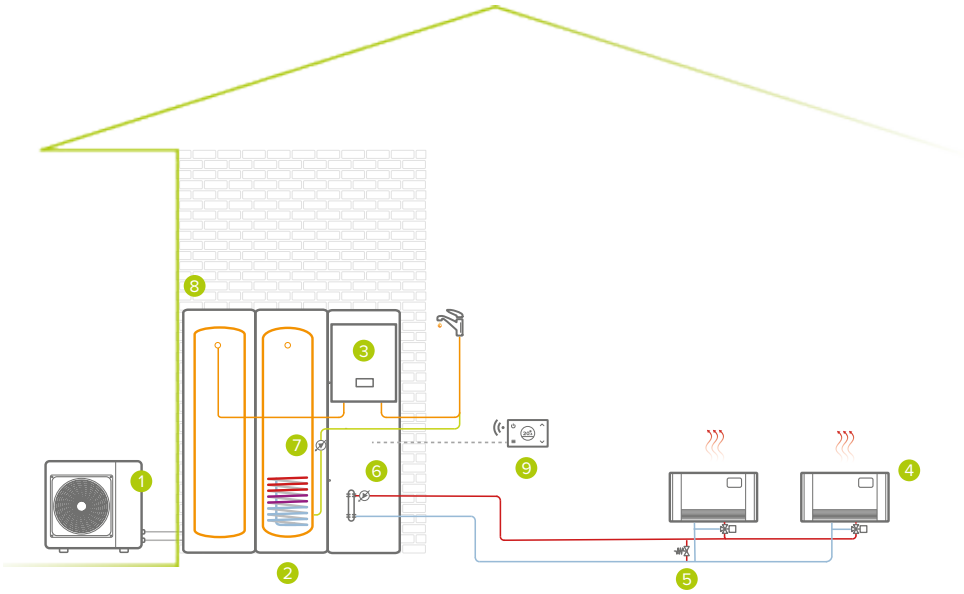


SQKN-YEE 1 TH
Indoor unit (IDU)

MiSAN-YEE 1 S
Outdoor unit (ODU)

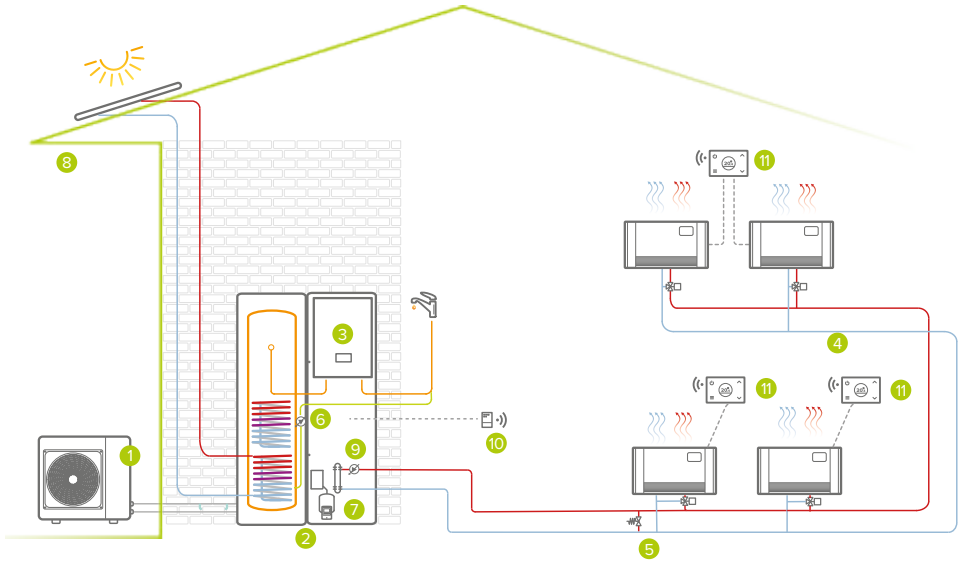
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

system diagrams



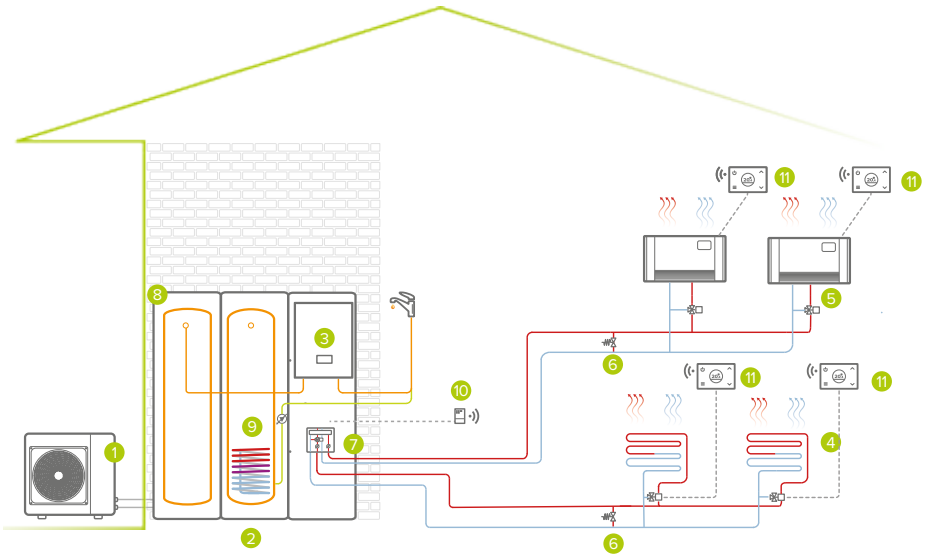
Hybrid single-zone system:
Heating / DHW

1 outdoor unit
2 indoor unit
3 modulo ibrido (pompa di calore / caldaia)
4 heating area
5 bypass*
6 secondary circuit kit (optional)
7 DHW recirculation pump (optional)
8 additional DHW boiler (optional)
9 HID-TConnect2 Wi-Fi chronothermostat (optional)



Hybrid single-area system with thermal solar:
Heating / Cooling / DHW

1 outdoor unit
2 indoor unit
3 modulo ibrido (pompa di calore / caldaia)
4 heating area
5 bypass*
6 DHW recirculation pump (optional)
7 kit di collegamento solare (opzionale)
8 ELFOSun³ thermal solar (optional)
9 secondary circuit kit (optional)
10 SwitchConnect Wi-Fi receiver (optional)
11 HID-TConnect2 Wi-Fi chronothermostat (optional)



Hybrid single-zone system with additional DHW boiler:
Heating / Cooling / DHW

1 outdoor unit
2 indoor unit
3 modulo ibrido (pompa di calore / caldaia)
4 mixed heating/cooling zone
5 direct heating/cooling zone
6 bypass*
7 kit for managing 2 areas (optional)
8 additional DHW tank (optional)
9 DHW recirculation pump (optional)
10 SwitchConnect Wi-Fi receiver (optional)
11 HID-TConnect 2 Wi-Fi chronothermostat (optional)

*from external supply

MONOBLOC

EDGE EVO 2.0 - EXC

EDGE F

EDGE EVO 2.0 - EXC

WiSAN-YME 1 S 2.1÷14.1

Air-to-water packaged unit heat pump for heating, cooling and domestic hot water production

ENERGY SAVING
- Solar integration (optional - DHW tank)
- Cascade
- Smart Grid ready
- €-Switch

COMFORT
- Hot Cold
- DHW
- Silent

RELIABILITY
- Backup heater (optional)
- 041
- ProdottiQualità CasaClima

HEALTH
- Renewable Energy (Full electric version)

CONVENIENCE
- Weekley Timer
- Contemporaneity (Hybrid Version)
- Instant DHW (Hybrid Version)

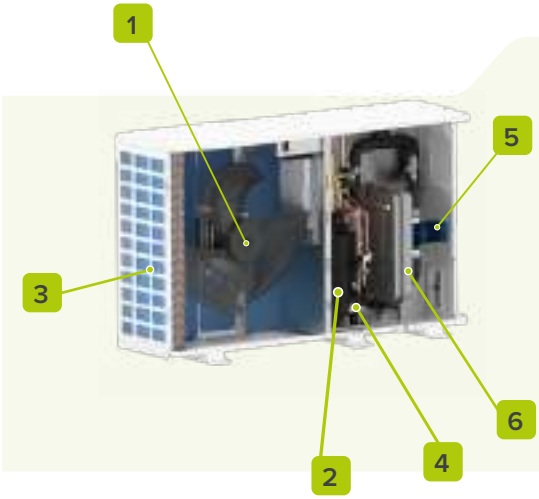
MANAGEMENT AND CONNECTIVITY
- Input ON/OFF
- User interface/ thermostat
- Port Modbus
- Control via App
- management CONTROL4 NRG
- Clivet Eye monitoring
- Energy metering

ErP A++ (55°C) A+++ (35°C)

- ✓ Versatile: wide range of applications in both packaged and hydro-split versions
- ✓ Designed for harsh climates: excellent performance at low temperatures and optional 3 to 9 kW auxiliary heaters
- ✓ Simultaneous production of DHW and cooling/heating *(Hybrid version)*
- ✓ Modular: combines up to 6 units in cascade for capacities up to 180 kW
- ✓ Advanced connectivity: management via the dedicated App or via the Modbus port with CONTROL4 NRG standard supplied

The perfect combination

EDGE EVO 2.0 - EXC combined with an EASY module is the solution designed to fulfil any system requirement, ensuring a simple and complete installation while optimising the space needed. Simply choose the perfect combination for your house and we'll take care of the rest.



1. Inverter DC fan
2. Inverter DC twin-rotary compressor
3. Air-gas finned exchanger (blue fin treatment)
4. Gas/water plate exchanger
5. Inverter DC high efficiency pump
6. 4.8-litre system expansion tank

configurations

BACK-UP ELECTRIC HEATER (INTEGRATED IN THE UNIT):

- **No heater (standard)**

IBH Electric back-up heater (only available for 2.1-8.1)

ON-BOARD CONTROL:

- Command included *to exhaustion*

NO HMI *NEW* Control not included, must be ordered separately.

The NO HMI version is only available for HYDROSPLIT systems. It will be available as a monobloc version once the previous version is out of stock.

mandatory accessories

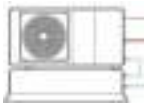
HMIRNX *NEW* KJRH-120L2 nero Control

HMIRBX *NEW* KJRH-120L2 bianco Control

Accessory compatible and mandatory only with NO HMI and NO HMI IBH configuration

accessories

	KTFLX	Hose kit for connecting the unit to the system
	FDMX	Magnetic dirt separator filter for water distribution systems
	VAGX	Safety antifreeze valve for system
	ACS200X	200 liter DHW tank
	ACS300X	300 liter DHW tank
	ACS500X	500 liter DHW tank
	ACS1000X	1000 liter DHW tank
	ACS10SX	1.000 liter DHW tank with solar coil
	SCS08X	Solar coil for ACS200X/ACS300X DHW tank
	SCS12X	1.2 m² solar exchanger for flange installation *(for ACS500X)*
	QERAX	Electrical panel for single-phase heater connection on DHW storage tank
	QERATX	Electrical panel for three-phase heater connection on DHW storage tank
	3DHWX	Three-way valve for domestic hot water
	KCSX	Secondary circuit kit (1-litre circuit breaker + pump)
	KIRE2HLX	Double zone distribution unit: direct + mixed (with mixing valve)
	KIRE2HX	Double zone distribution unit: direct + direct
	DIX	1 liter hydraulic separator
	DI50-2X	50 liter hydraulic separator
	DI100X	100-litre circuit breaker

	T1BX	DHW temperature probe and additional heating source at 10 m
	T1B30X	DHW temperature probe and additional heating source at 30 m
	TANKX	System inertial storage tank
	KTCAX	Piping kit for the connection to the buffer tank
	PCSX	Secondary circuit pump
	PCS2X	Oversized secondary circuit pump
	PRSX	DHW recirculation pump
	VDACSX	Thermostat-controlled switching valve for domestic hot water
	IBHX	Single-phase back-up electric heater (2/4/6kW)
	IBHTX	Three-phase back-up electric heater (3/6/9kW)
	DTX	Auxiliary condensate collection tray
	AMRX	Kit of antivibration mounts for floor installation
	AMMSX	Kit of antivibration anti-seismic mounts for floor installation
	ASTFX	Kit of antivibration mounts for wall bracket installation
	KSIPX	Kit with wall fixing brackets
	HTC2WX	White HID-TConnect² chronothermostat for temperature control
	SWCX	Receiver / IoT switch SwitchConnect

technical data

Size					2.1	3.1	4.1	5.1	6.1	7.1	8.1
Heating	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**4,20 / 6,26**	**6,35 / 7,41**	**8,40 / 9,11**	**10,0 / 10,3**	**12,1 / 14,6**bl	**14,5 / 15,5**	**15,9 / 16,8**
	COP	Outdoor air 7 °C	Nominal	-	5,10	4,95	5,15	4,95	4,95	4,60	4,50
	Capacity	Water 35/30 °C	Nominal / Maximum	kW	4,70 / 4,99	6,00 / 6,21	7,00 / 7,27	8,00 / 8,31	10,0 / 11,0	12,0 / 12,7	13,1 / 13,9
	COP	Outdoor air -7 °C	Nominal	-	3,10	3,00	3,20	3,05	3,00	2,85	2,70
	Capacity	Water 45/40 °C	Nominal / Maximum	kW	4,30 / 5,96	6,30 / 7,13	8,10 / 8,98	10,0 / 10,3	12,3 / 14,5	14,1 / 15,7	16,0 / 16,6
	COP	Outdoor air 7 °C	Nominal	-	3,80	3,70	3,85	3,75	3,70	3,60	3,50
Cooling	Capacity	Water 18/23 °C	Nominal / Maximum	kW	**4,50 / 7,65**	**6,50 / 7,65**	**8,30 / 11,1**	**9,90 / 12,0**	**12,0 / 15,0**	**13,5 / 15,3**	**14,2 / 16,4**
	EER	Outdoor air 35 °C	Nominal	-	5,50	4,80	5,05	4,55	3,95	3,61	3,61
	Capacity	Water 7/12 °C	Nominal / Maximum	kW	4,70 / 6,14	7,00 / 7,11	7,45 / 7,94	8,20 / 8,67	11,5 / 11,5	12,4 / 12,4	14,0 / 14,0
	EER	Outdoor air 35 °C	Nominal	-	3,45	3,00	3,35	3,25	2,75	2,50	2,50
Electrical power for meter sizing				kW	2,30	2,70	3,40	3,70	5,50	5,80	6,20
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**
		Annual energy consumption		kWh/year	2.749	3.348	4.064	4.541	6.916	6.917	7.213
		SCOP		-	3,31	3,52	3,37	3,47	3,45	3,47	3,41
		ηs (seasonal output)		%	129	138	131	137	135	135	133
	Heating Water 35 °C	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**
		Annual energy consumption		kWh/year	2.354	2.849	3.223	3.649	5.156	5.157	6.011
		SCOP		-	4,85	4,95	5,22	5,20	4,81	4,72	4,62
		ηs (seasonal output)		%	191	195	205	205	189	186	182

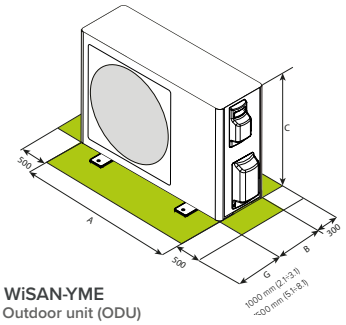
Technical specifications											
Power supply	Voltage/Frequency/Phases			V/Hz/n°	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
Water flow-rate	Water 35/30 °C	Nominal		l/s	0,20	0,30	0,40	0,48	0,58	0,69	0,76
Pump available pressure	Outdoor air 7 °C	Nominal		kPa	85	84	80	71	60	48	40
Minimum system water content				l	30	30	40	40	40	40	40
Expansion tank capacity				l				4,8			
Sound power			Minimum / Nominal	dB(A)	53 / 55	55 / 58	54 / 59	55 / 60	59 / 65	59 / 65	59 / 68
Sound pressure @1m			Nominal	dB(A)	45	47	48	50	53	53	57

Operating range											
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43

Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).

dimensions and connections

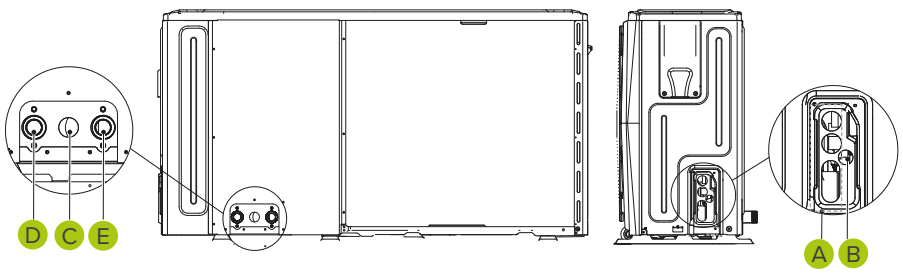
Size			2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	AxCxB	mm	1.295x714x400	1.295x714x400	1.385x864x445	1.385x864x445	1.385x864x445	1.385x864x445	1.385x864x445
Weight		kg	86	86	105	105	129	129	129
Refrigerant charge		type / GWP	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675
		kg	1,40	1,40	1,40	1,40	1,75	1,75	1,75
		CO_2 tons	0,95	0,95	0,95	0,95	1,18	1,18	1,18
External diameters	Water	inch	1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4



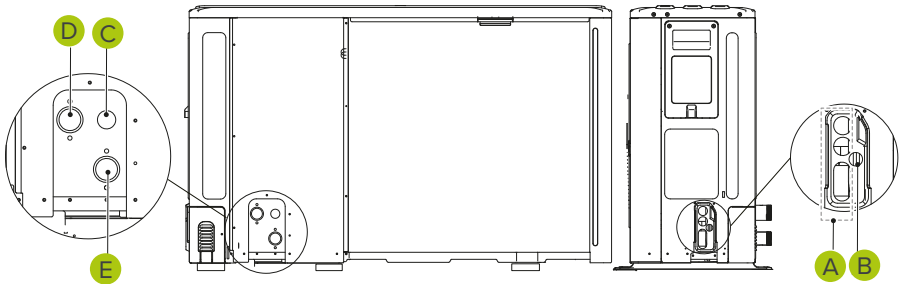
WiSAN-YME
Outdoor unit (ODU)

For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

SIZES 2.1 to 3.1



SIZES 4.1 to 8.1



A. Hole for high voltage cable (power supply)
B. Hole for low pressure cable (control and signal cables)
C. Hole for discharge pipe
D. Water outlet
E. Water inlet

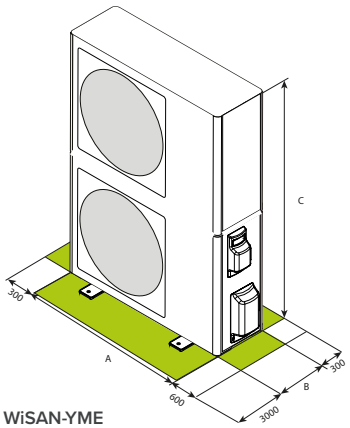
Size					6.1T	7.1T	8.1T	9.1	10.1	12.1	14.1
Heating	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**12,1 / 14,6**	**14,5 / 15,5**	**15,9 / 16,8**	**18,0 / 20,7**	**22,0 / 24,9**	**26,0 / 29,1**	**30,1 / 31,8**
	COP	Outdoor air 7 °C	Nominal	-	4,95	4,60	4,50	4,70	4,40	4,08	3,91
	Capacity	Water 35/30 °C	Nominal / Maximum	kW	10,0 / 11,0	12,0 / 12,7	13,1 / 13,9	18,0 / 19,9	21,0 / 21,3	22,0 / 23,5	23,0 / 23,3
	COP	Outdoor air -7 °C	Nominal	-	3,00	2,85	2,70	2,70	2,60	2,50	2,45
	Capacity	Water 45/40 °C	Nominal / Maximum	kW	12,3 / 14,5	14,1 / 15,7	16,0 / 16,6	18,0 / 18,5	22,0 / 22,7	26,0 / 27,4	30,0 / 31,0
	COP	Outdoor air 7 °C	Nominal	-	3,70	3,60	3,50	3,50	3,40	3,10	2,90
Cooling	Capacity	Water 18/23 °C	Nominal / Maximum	kW	**12,0 / 15,0**	**13,5 / 15,3**	**14,2 / 16,4**	**18,5 / 21,7**	**23,0 / 26,6**	**27,0 / 29,2**	**31,0 / 31,9**
	EER	Outdoor air 35 °C	Nominal	-	3,95	3,61	3,61	4,75	4,60	4,30	4,00
	Capacity	Water 7/12 °C	Nominal / Maximum	kW	11,5 / 11,5	12,4 / 12,4	14,0 / 14,0	17,0 / 17,1	21,0 / 21,0	26,0 / 26,0	29,5 / 29,7
	EER	Outdoor air 35 °C	Nominal	-	2,75	2,50	2,50	3,05	2,95	2,70	2,55
Electrical power for meter sizing				kW	5,50	5,80	6,20	10,6	12,5	13,8	14,5
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	**A++**	**A++**	**A++**	**A++**	**A++**	**A+**	**A+**
		Annual energy consumption		kWh/year	7.214	7.894	7.895	11.396	14.363	17.116	19.552
		SCOP		-	3,45	3,47	3,41	3,20	3,23	3,15	3,15
		ηs (seasonal output)		%	135	135	133	125	126	123	123
	Heating Water 35 °C	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A++**
		Annual energy consumption		kWh/year	6.012	6.803	6.805	8.077	10.167	11.513	14.372
		SCOP		-	4,81	4,72	4,62	4,60	4,53	4,50	4,20
		ηs (seasonal output)		%	189	186	182	181	179	177	165

Technical specifications											
Power supply		Voltage/Frequency/Phases		V/Hz/n°	400/50/3+N	400/50/3+N	400/50/3+N	400/50/3+N	400/50/3+N	400/50/3+N	400/50/3+N
Water flow-rate		Water 35/30 °C	Nominal	l/s	0,58	0,69	0,76	0,86	1,05	1,24	1,44
Pump available pressure		Outdoor air 7 °C	Nominal	kPa	60	48	40	100	92	80	59
Minimum system water content				l	40	40	40	100	100	100	100
Expansion tank capacity				l	4,8	4,8	4,8	4,8	4,8	4,8	4,8
Sound power			Minimum / Nominal	dB(A)	59 / 65	59 / 65	59 / 68	64 / 71	63 / 73	71 / 75	73 / 77
Sound pressure @1m			Nominal	dB(A)	53	54	58	58	60	61	63

Operating range											
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65	25 / 60	25 / 60	25 / 60	25 / 60
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 70	25 / 70	25 / 70	25 / 70
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43	-5 / 46	-5 / 46	-5 / 46	-5 / 46

Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).

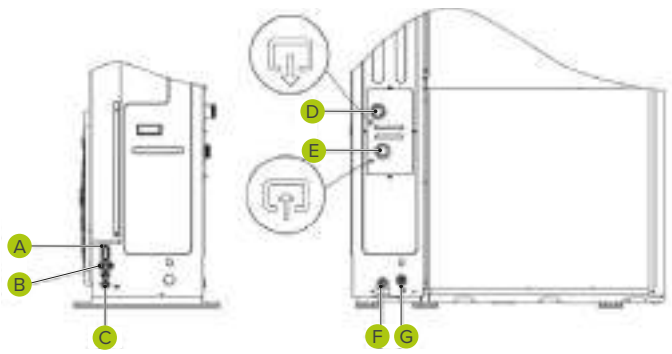
Size			6.1T	7.1T	8.1T	9.1	10.1	12.1	14.1
Dimensions	AxCxB	mm	1.385x864x445	1.385x864x445	1.385x864x445	1.120x1.557x444	1.120x1.557x444	1.120x1.557x444	1.120x1.557x444
Weight		kg	144	144	144	177	177	177	177
Refrigerant charge		type / GWP	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675
		kg	1,75	1,75	1,75	5,00	5,00	5,00	5,00
		CO_2 tons	1,18	1,18	1,18	3,38	3,38	3,38	3,38
External diameters	Water	inch	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4



WiSAN-YME
Outdoor unit (ODU)

For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

SIZES 9.1 to 14.1



A. Hole for high voltage cable (power supply)
B. Hole for low pressure cable (control and signal cables)
C. Hole for discharge pipe
D. Water outlet
E. Water inlet
F. Hole for discharge pipe
G. Hole for pressure relief valve discharge pipe

EDGE F

WiSAN-PME 1 S 2.1÷8.1

Air-to-water packaged unit heat pump for heating, cooling and domestic hot water production

ENERGY SAVING

- Solar integration (optional - DHW tank)
- Cascade
- Smart Grid ready
- €-Switch

COMFORT

- Hot Cold
- DHW
- Silent

RELIABILITY

- Backup heater (optional)
- 025
- ProdottiQualità CasaClima

HEALTH

- Renewable Energy (Full electric version)
- Refrigerant ecological

CONVENIENCE

- Weekley Timer
- Contemporaneity (Hybrid Version)
- Instant DHW (Hybrid Version)

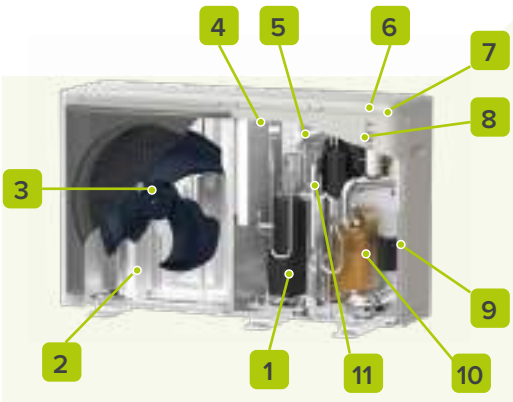
MANAGEMENT AND CONNECTIVITY

- Input ON/OFF
- User interface/ thermostat
- Port Modbus
- Control via App
- management Control4 NRG
- Clivet Eye monitoring
- Energy metering

- ✓ R-290 technology: combines high performance with full respect for the environment
- ✓ Versatile: wide range of applications in both packaged and hydro-split versions
- ✓ Renovation is easy: supply temperature up to 75 °C, perfect for any distribution system
- ✓ Modular: combines up to 6 units in cascade
- ✓ Advanced connectivity: management via the dedicated App or vianthe Modbus port whith CONTROL4 NRG standard supplied

For the future

EDGE F is the heat pump with R-290 refrigerant designed for the future; it is in fact a natural gas, and already in accordance with the current strict European regulations. The high thermodynamic qualities of this new refrigerant allow the production of water at unprecedented temperatures, 75 °C supply down to -10 °C ambient.
Respect for the environment and temperatures comparable to a boiler for a full-electric future.



1. Compressor
2. Source side exchanger
3. Fan
4. Sealed inverter panel
5. 4-way reverse cycle valve
6. Relief valve (safety)
7. Sealed electrical panel
8. System expansion vessel (4.8 litres)
9. Water supply pump
10. User side exchanger
11. Lamination valve

configurations

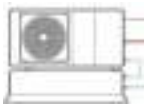
BACK-UP ELECTRIC HEATER (INTEGRATED IN THE UNIT):

-	**No heater (standard)**
IBH	Back-up electric heater

mandatory accessories

	HMINX	Black KJRH-120L control
	HMIX	White KJRH-120L control

accessories

	KTFLX	Hose kit for connecting the unit to the system
	FDMX	Magnetic dirt separator filter for water distribution systems
	VAGX	Safety antifreeze valve for system
	ACS200X	200 liter DHW tank
	ACS300X	300 liter DHW tank
	ACS500X	500 liter DHW tank
	ACS1000X	1000 liter DHW tank
	ACS10SX	1.000 liter DHW tank with solar coil
	SCS08X	Solar coil for ACS200X/ACS300X DHW tank
	SCS12X	1.2 m² solar exchanger for flange installation *(for ACS500X)*
	QERAX	Electrical panel for single-phase heater connection on DHW storage tank
	QERATX	Electrical panel for three-phase heater connection on DHW storage tank
	3DHWX	Three-way valve for domestic hot water
	KCSX	Secondary circuit kit (1-litre circuit breaker + pump)
	KIRE2HLX	Double zone distribution unit: direct + mixed (with mixing valve)
	KIRE2HX	Double zone distribution unit: direct + direct
	DIX	1 liter hydraulic separator
	DI50-2X	50 liter hydraulic separator
	DI100X	100-litre circuit breaker
	T1BX	DHW temperature probe and additional heating source at 10 m
	T1B30X	DHW temperature probe and additional heating source at 30 m
	TANKX	System inertial storage tank
	KTCAX	Piping kit for the connection to the buffer tank
	PCSX	Secondary circuit pump
	PCS2X	Oversized secondary circuit pump
	PRSX	DHW recirculation pump
	VDACSX	Thermostat-controlled switching valve for domestic hot water
	IBHX	Single-phase back-up electric heater (2/4/6kW)
	IBHTX	Three-phase back-up electric heater (3/6/9kW)
	DTX	Auxiliary condensate collection tray
	AMRX	Kit of antivibration mounts for floor installation
	AMMSX	Kit of antivibration anti-seismic mounts for floor installation
	ASTFX	Kit of antivibration mounts for wall bracket installation
	KSIPX	Kit with wall fixing brackets
	HTC2WX	White HID-TConnect² chronothermostat for temperature control
	SWCX	Receiver / IoT switch SwitchConnect

technical data

Size					2.1	3.1	4.1	5.1	6.1	7.1	8.1
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**4,50 / 6,86**	**6,20 / 7,70**	**8,40 / 10,4**	**10,0 / 11,0**	**12,0 / 14,7**	**14,0 / 16,0**	**15,0 / 17,6**
	COP	Outdoor air 7°C	Nominal	-	5,15	4,90	5,00	4,70	4,80	4,50	4,40
	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,50 / 5,56	5,90 / 6,18	7,00 / 8,74	8,00 / 8,89	10,0 / 11,1	11,5 / 12,1	12,7 / 13,2
	COP	Outdoor air -7°C	Nominal	-	3,10	2,95	3,00	2,85	2,80	2,70	2,50
	Capacity	Water 45/40°C	Nominal / Maximum	kW	4,50 / 6,55	6,40 / 7,35	8,20 / 9,57	10,0 / 10,5	12,0 / 14,1	14,0 / 15,3	15,0 / 16,9
	COP	Outdoor air 7°C	Nominal	-	4,05	3,80	3,85	3,65	3,70	3,50	3,35
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**4,50 / 7,84**	**6,50 / 9,75**	**8,30 / 11,4**	**10,0 / 12,1**	**12,0 / 16,4**	**14,0 / 17,3**	**16,0 / 18,6**
	EER	Outdoor air 35°C	Nominal	-	5,50	5,10	5,15	4,75	4,50	4,20	3,90
	Capacity	Water 7/12°C	Nominal / Maximum	kW	4,70 / 5,66	6,80 / 7,14	7,50 / 8,19	8,90 / 8,90	11,5 / 12,0	12,7 / 12,7	14,0 / 14,3
	EER	Outdoor air 35°C	Nominal	-	3,65	3,10	3,45	3,25	3,05	2,90	2,75
Electrical power for meter sizing				kW	2,70	3,00	3,60	3,90	5,70	6,00	6,40
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**
		Annual energy consumption		kWh/year	2.684	3.164	3.676	4.215	6.847	7.414	8.349
		SCOP		-	3,79	3,82	3,82	3,82	3,62	3,62	3,57
		ηs (seasonal output)		%	148,7	149,7	149,7	149,8	141,8	141,9	139,9
	Heating Water 35°C	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**
		Annual energy consumption		kWh/year	2.040	2.692	3.187	3.734	5.376	6.091	6.630
		SCOP		-	5,09	4,91	5,20	5,07	4,68	4,64	4,59
		ηs (seasonal output)		%	200,7	193,5	204,8	199,8	184,0	182,4	180,6

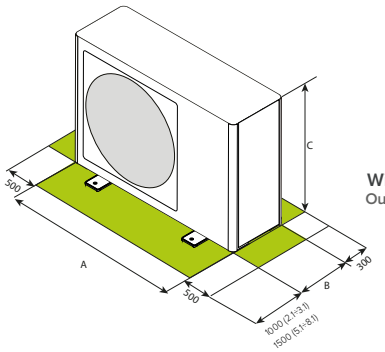
Technical specifications											
Power supply	Voltage/Frequency/Phases			V/Hz/n°	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
Water flow-rate	Water 35/30°C	Nominal		l/s	0,21	0,30	0,40	0,48	0,57	0,67	0,71
Pump available pressure	Outdoor air 7°C	Nominal		kPa	85	85	86	86	88	88	88
Minimum system water content				l	30	30	40	40	40	40	40
Expansion tank capacity				l	8	8	8	8	8	8	8
Sound power			Minimum / Nominal	dB(A)	51 / 56	53 / 58	55 / 60	56 / 61	58 / 65	59 / 65	60 / 69
Sound pressure @1m			Minimum / Nominal	dB(A)	40 / 44	42 / 46	42 / 48	43 / 49	43 / 51	44 / 52	48 / 56

Operating range											
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 46	-25 / 46	-25 / 46	-25 / 46	-25 / 46	-25 / 46	-25 / 46
	Cooling	-	Minimum / Maximum	°C	-5 / 46	-5 / 46	-5 / 46	-5 / 46	-5 / 46	-5 / 46	-5 / 46

Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).

dimensions and connections

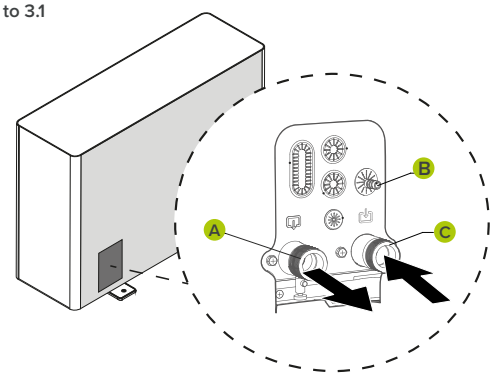
Size			2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	AxCxB	mm	1.295x718x381	1.295x718x381	1.385x865x423	1.385x865x423	1.385x865x423	1.385x865x423	1.385x865x423
Weight		kg	90	90	117	117	135	135	135
Refrigerant charge		type / GWP	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02
		kg	0,70	0,70	1,10	1,10	1,25	1,25	1,25
		CO_2 tons	0,002	0,002	0,003	0,003	0,004	0,004	0,004
External diameters	Water	inch	1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4



WiSAN-PME
Outdoor unit (ODU)

For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

SIZES 2.1 to 3.1

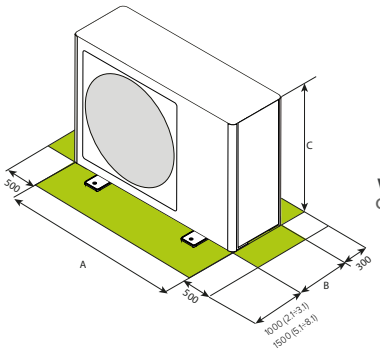


A. 1" system supply
B. Pressure relief valve Ø 16mm
C. 1" system return

Size					6.1T	7.1T	8.1T
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**12,0 / 14,7**	**14,0 / 16,0**	**15,0 / 17,6**
	COP	Outdoor air 7°C	Nominal	-	4,80	4,50	4,40
	Capacity	Water 35/30°C	Nominal / Maximum	kW	10,0 / 11,1	11,5 / 12,1	12,7 / 13,2
	COP	Outdoor air -7°C	Nominal	-	2,80	2,70	2,50
	Capacity	Water 45/40°C	Nominal / Maximum	kW	12,0 / 14,1	14,0 / 15,3	15,0 / 16,9
	COP	Outdoor air 7°C	Nominal	-	3,70	3,50	3,35
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**12,0 / 16,4**	**13,0 / 17,3**	**14,4 / 18,6**
	EER	Outdoor air 35°C	Nominal	-	4,50	4,20	3,90
	Capacity	Water 7/12°C	Nominal / Maximum	kW	11,5 / 12,0	12,7 / 12,7	14,0 / 14,3
	EER	Outdoor air 35°C	Nominal	-	3,05	2,90	2,75
Electrical power for meter sizing				kW	5,70	6,00	6,40
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**
		Annual energy consumption		kWh/year	6.847	7.414	8.349
		SCOP		-	3,62	3,62	3,57
		ηs (seasonal output)		%	141,8	141,9	139,9
	Heating Water 35°C	Energy class		-	**A+++**	**A+++**	**A+++**
		Annual energy consumption		kWh/year	5.376	6.091	6.630
		SCOP		-	4,68	4,64	4,59
		ηs (seasonal output)		%	184,0	182,4	180,6
Technical specifications							
Power supply		Voltage/Frequency/Phases		V/Hz/n°	400/50/3+N	400/50/3+N	400/50/3+N
Water flow-rate		Water 35/30°C	Nominal	l/s	0,57	0,67	0,71
Pump available pressure		Outdoor air 7°C	Nominal	kPa	88	88	88
Minimum system water content				l	40	40	40
Expansion tank capacity				l	8	8	8
Sound power			Minimum / Nominal	dB(A)	58 / 65	59 / 65	60 / 69
Sound pressure @1m			Minimum / Nominal	dB(A)	43 / 51	44 / 52	48 / 56
Operating range							
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 46	-25 / 46	-25 / 46
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43

Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).

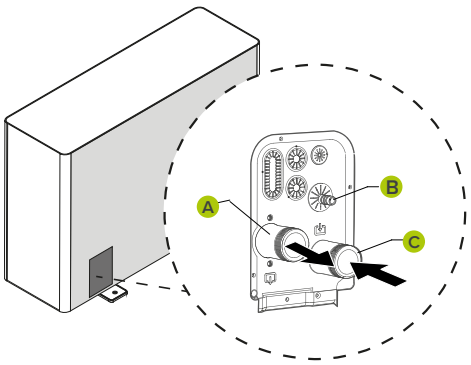
Size			6.1T	7.1T	8.1T
Dimensions	AxCxB	mm	1.385x865x423	1.385x865x423	1.385x865x423
Weight		kg	137	137	137
Refrigerant charge		type / GWP	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02
		kg	1,25	1,25	1,25
		CO_2 tons	0,004	0,004	0,004
External diameters	Water	inch	1" 1/4	1" 1/4	1" 1/4



WiSAN-PME
Outdoor unit (ODU)

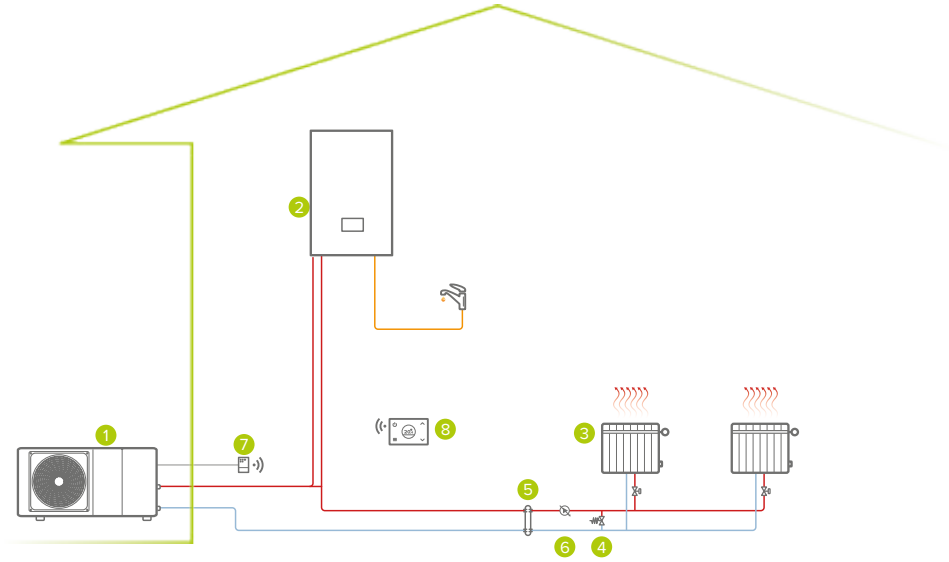
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

SIZES 4.1 to 8.1



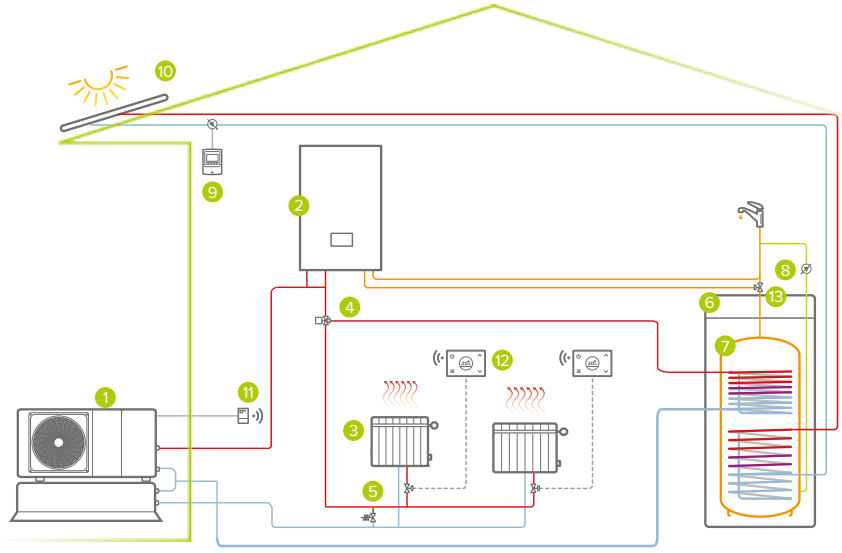
A. 1 1/4" system supply
B. Pressure relief valve Ø 16mm
C. 1 1/4" system return

system diagrams



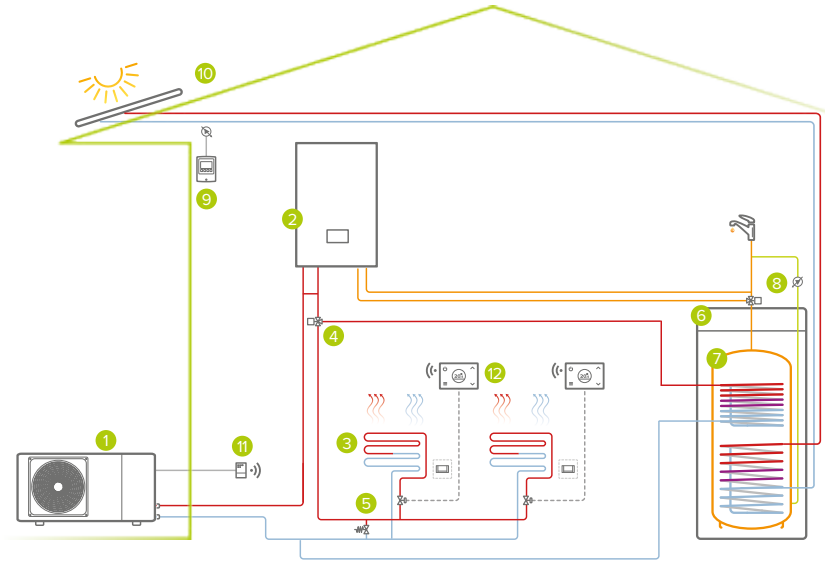
Hybrid single-zone system:
Heating / DHW

1 outdoor unit
2 instantaneous boiler *(Hybrid version)*
3 heating area
4 bypass*
5 hydraulic separator (optional)
6 secondary circuit pump (optional)
7 SwitchConnect Wi-Fi receiver (optional)
8 HID-TConnect2 Wi-Fi chronothermostat (optional)



Hybrid single-area system with thermal solar:
Heating / DHW

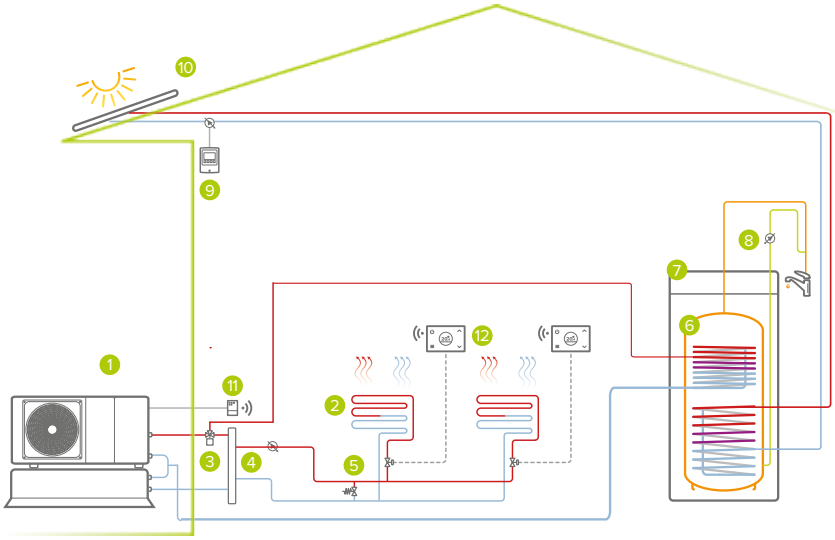
1 outdoor unit
2 instantaneous boiler *(Hybrid version)*
3 heating/cooling zone
4 3-way switching valve (optional)
5 bypass*
6 boiler connection kit (optional)
7 DHW boiler with solar coil (optional)
8 DHW recirculation pump (optional)
9 kit di circolazione solare (opzionale)
10 ELFOSun^3 thermal solar (optional)
11 SwitchConnect Wi-Fi receiver (optional)
12 HID-TConnect2 Wi-Fi chronothermostat (optional)
13 thermostatic switching valve for DHW (optional)



Hybrid single-area system with thermal solar:
Heating / Cooling / DHW

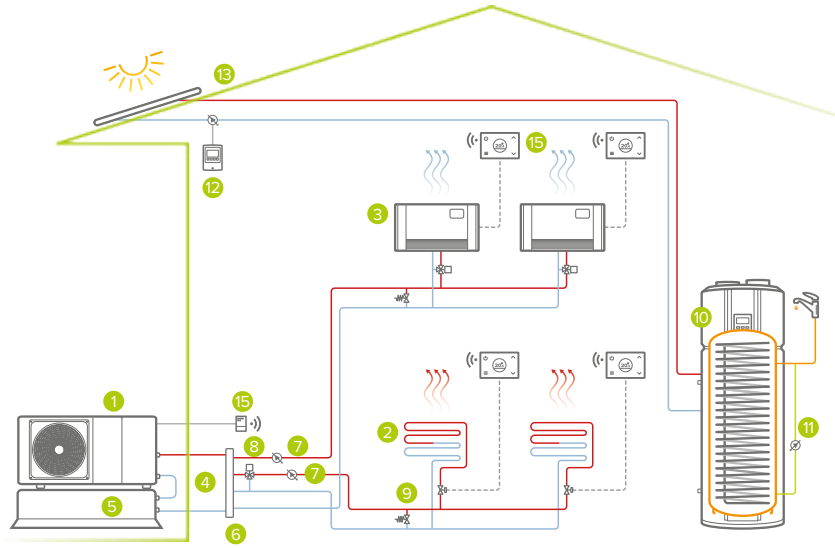
1 outdoor unit
2 boiler
3 heating/cooling zone
4 3-way switching valve (optional)
5 bypass*
6 boiler kit connection QERAX (optional)
7 DHW tank with solar predisposition (optional)
8 DHW recirculation pump*
9 kit di circolazione solare (opzionale)
10 ELFOSun^3 thermal solar (optional)
11 SwitchConnect Wi-Fi receiver (optional)
12 HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply



Full electric single-area system with thermal solar:
Heating / Cooling / DHW

1 outdoor unit
2 heating/cooling zone
3 3-way switching valve (optional)
4 single-area separator + pump kit
5 bypass*
6 DHW boiler with solar coil (optional)
7 boiler connection kit (optional)
8 DHW recirculation pump (optional)
9 kit di circolazione solare (opzionale)
10 ELFOSun³ thermal solar (optional)
11 SwitchConnect Wi-Fi receiver (optional)
12 HID-TConnect2 Wi-Fi chronothermostat (optional)

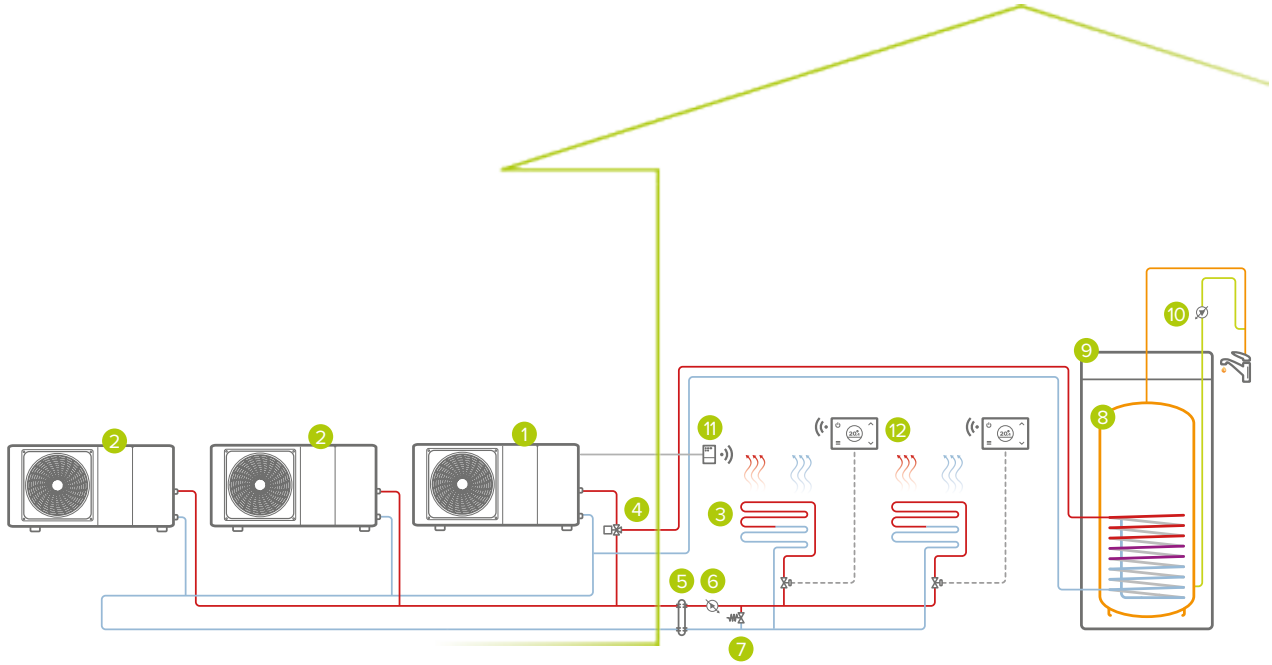


Full electric two-area system with thermal solar:
Heating / Cooling / DHW

1 outdoor unit
2 heating area
3 cooling zone
4 inertial tank connection kit (optional)
5 system inertial storage (optional)
6 hydraulic separator (optional)
7 secondary circuit pump (optional)
8 3-way mixing valve*
9 bypass*
10 heat pump for DHW
11 DHW recirculation pump (optional)
12 kit di circolazione solare (opzionale)
13 ELFOSun³ thermal solar (optional)
14 SwitchConnect Wi-Fi receiver (optional)
15 HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply

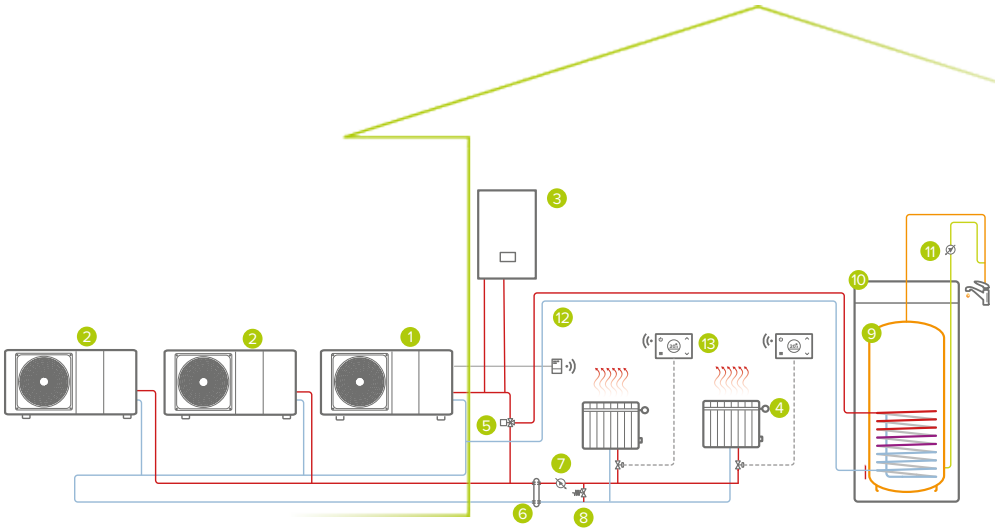
system diagrams



Full electric single-zone system in cascade:
Heating / Cooling / DHW

1 outdoor unit (Master)
2 outdoor unit (Slave)
3 heating/cooling zone
4 3-way switching valve (optional)
5 hydraulic separator (optional)
6 secondary circuit pump (optional)
7 bypass*
8 DHW tank (optional)
9 boiler connection kit (optional)
10 DHW recirculation pump (optional)
11 SwitchConnect Wi-Fi receiver (optional)
12 HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply



Hybrid single-zone system in cascade:
Heating / DHW

1 indoor unit (Slave)
2 outdoor unit (Slave)
3 instantaneous boiler (Hybrid version)
4 heating area
5 3-way switching valve (optional)
6 hydraulic separator (optional)
7 secondary circuit pump (optional)
8 bypass*
9 DHW tank (optional)
10 boiler connection kit (optional)
11 DHW recirculation pump (optional)
12 SwitchConnect Wi-Fi receiver (optional)
13 HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply

OVERVIEW OF HYDRO-SPLIT SYSTEMS

		Model		Refrig.	T_{WATER} MAX	T_{EXT}/T_{WATER}	Size						
							2.1	3.1	4.1	5.1	6.1M/T	7.1M/T	8.1M/T
Hydro-split (Edge + EASY)	EDGE EVO 2.0 - EXC	TOWER version BOX version MINI version		R-32	Full El.: 65°C Hybrid: 75°C	7°C/35°C	6,26	7,41	9,11	10,3	14,6	15,5	16,8
						-7°C/35°C	4,99	6,21	7,27	8,31	11,0	12,7	13,9
						35°C/18°C	7,65	7,65	11,1	12,0	15,0	15,3	16,4
						35°C/7°C	6,14	7,11	7,94	8,67	11,5	12,4	14,0
		TOWER version BOX version MINI version		R-32	Full El.: 65°C Hybrid: 75°C	7°C/35°C	6,26	7,41	9,11	10,3	-	-	-
						-7°C/35°C	4,99	6,21	7,27	8,31	-	-	-
						35°C/18°C	7,65	7,65	11,1	12,0	-	-	-
						35°C/7°C	6,14	7,11	7,94	8,67	-	-	-
	EDGE F	EASYTANK EASYBOX EASYMINI		R-290	Full El.: 70°C Hybrid: 80°C	7°C/35°C	6,86	7,70	10,4	11,1	14,7	16,0	17,6
						-7°C/35°C	5,56	6,18	8,74	8,89	11,1	12,1	13,2
						35°C/18°C	7,84	9,75	11,4	12,1	16,4	17,3	18,6
						35°C/7°C	5,66	7,14	8,19	8,76	12,0	12,7	14,3
		INVISIBLE version		R-290	Full El.: 70°C Hybrid: 80°C	7°C/35°C	6,86	7,70	10,4	11,1	-	-	-
						-7°C/35°C	5,56	6,18	8,74	8,89	-	-	-
						35°C/18°C	7,84	9,75	11,4	12,1	-	-	-
						35°C/7°C	5,66	7,14	8,19	8,76	-	-	-

Note:

Reference conditions:

Heating T_{EXT} 7°C BS/6°C BU - T_{WATER} 35°C/30°C e T_{EXT} 7°C BS/6°C BU - T_{WATER} 35°C/30°C

Cooling T_{EXT} 35°C - T_{WATER} 18°C/23°C e T_{EXT} 35°C - T_{WATER} 7°C/12°C

Data include defrosting cycles

HYDRO-SPLIT

HYDRO-SPLIT
TOWER version

HYDRO-SPLIT
BOX version

HYDRO-SPLIT
MINI version

HYDRO-SPLIT
INVISIBLE version

HYDRO-SPLIT TOWER version

WISAN-YME 1 S + HQCN-NEE 1 TC A
WISAN-PME 1 S + HQCN-NEE 1 TC A

Indoor hydronic unit with base with DHW tank for Hydro Split systems

Can be combined with EDGE EVO 2.0 and EDGE F

ENERGY SAVING
- Integration Heating/DHW
- Cascade
- €-Switch

COMFORT
- Hot Cold
- DHW
- Silent

RELIABILITY
- Backup heater (optional)

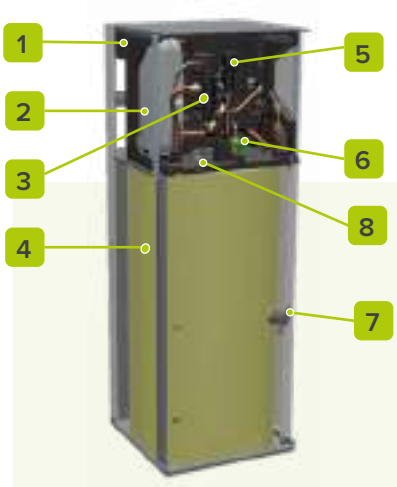
CONVENIENCE
- Weekley Timer
- Contemporaneity (Hybrid Version)
- Instant DHW (Hybrid Version)
- Integrated DHW tank

MANAGEMENT AND CONNECTIVITY
- Input ON/OFF
- Port Modbus
- Control via App
- Management Control4 NRG
- Clivet Eye monitoring
- User interface / thermostat

- ✓ 190 or 250 l ACS storage tank
- ✓ Wide range of integrable accessories
- ✓ Can be combined with EDGE outdoor units
- ✓ Reduced space requirements
- ✓ Easy installation

Versatile to suit every type of system

Hydronic TOWER version modules are designed to be combined with the EDGE family of packaged heat pumps.
In addition to the DHW tank, they contain a 15-litre buffer tank, magnetic baffle filter, system expansion tank and anti-burn valve as standard.



1. 15-litre inertial tank
2. 12-litre system expansion tank
3. Magnetic dirt separator filter+pressure relief valve
4. Domestic hot water storage tank
5. 3-way valve for DHW
6. Thermostatic anti-scald valve
7. Backup electric heater
8. Electronic anode

configurations

CONTROL:

HMIR32 Can be combined with EDGE EVO 2.0

HMIR290 Can be combined with EDGE F

DHW STORAGE TANK:

ACS190 190 liter DHW tank

ACS250 250 liter DHW tank

Hybrid version in combination with Clivet FE boiler

internal accessories

	**EH246X**	Additional electric heater adjustable to three capacities of 2, 4 or 6 kW
	EH9X	Additional electric heater adjustable to one capacity of 9 kW
	**KCSIX**	Secondary circuit kit (1L hydraulic circuit breaker + pump)

	**KIR2HX**	Hydraulic kit for managing two areas with the same temperature
	KIR2HLX	Hydraulic kit for managing two areas with high and mixed temperature
	**SOLX**	DHW plate exchanger kit for solar thermal connection
	**SICGX**	Intermediate exchanger for clean separation between primary and secondary circuit

external accessories

	**ACI40X**	System inertial tank 40 litres
	**COFX**	Aesthetic cover for inertial tank

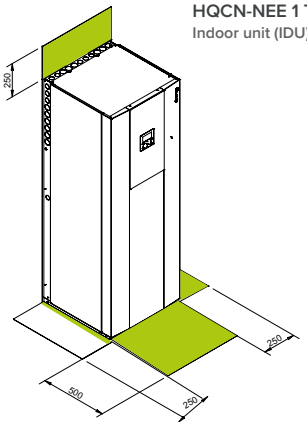
	**VEACSX**	Sanitary expansion tank
	**KCAIAX**	Additional inertial tank connection kit

technical data - TOWER version + Edge EVO 2.0

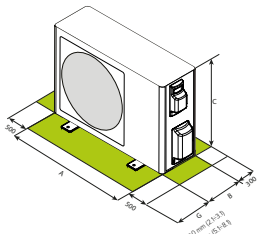
Size - Set					2.1		3.1		4.1		5.1		6.1	7.1	8.1
				DHW tank	190L	250L	190L	250L	190L	250L	190L	250L	250L	250L	250L
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**4,20 / 5,33**		**6,35 / 7,41**		**8,40 / 9,11**		**10,0 / 10,3**		**12,1 / 14,6**	**14,5 / 15,5**	**15,9 / 16,8**
	COP	Outdoor air 7°C	Nominal	-	5,10		4,95		5,15		4,95		4,95	4,60	4,50
	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,70 / 4,99		6,00 / 6,21		7,00 / 7,27		8,00 / 8,31		10,0 / 11,0	12,0 / 12,7	13,1 / 13,9
	COP	Outdoor air -7°C	Nominal	-	3,10		3,00		3,20		3,05		3,00	2,85	2,70
	Capacity	Water 45/40°C	Nominal / Maximum	kW	4,30 / 5,96		6,30 / 7,13		8,10 / 8,98		10,0 / 10,3		12,3 / 14,5	14,1 / 15,7	16,0 / 16,6
	COP	Outdoor air 7°C	Nominal	-	3,80		3,70		3,85		3,75		3,70	3,60	3,50
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**4,50 / 7,65**		**6,50 / 7,65**		**8,30 / 11,1**		**9,90 / 12,0**		**12,0 / 15,0**	**13,5 / 15,3**	**14,2 / 16,4**
	EER	Outdoor air 35°C	Nominal	-	5,50		4,80		5,05		4,55		3,95	3,61	3,61
	Capacity	Water 7/12°C	Nominal / Maximum	kW	4,70 / 6,14		7,00 / 7,11		7,45 / 7,94		8,20 / 8,67		11,5 / 11,5	12,4 / 12,4	14,0 / 14,0
	EER	Outdoor air 35°C	Nominal	-	3,45		3,00		3,35		3,25		2,75	2,50	2,50
DHW	Net tank capacity			l	190	250	190	250	190	250	190	250	250	250	250
	Water mixed at 40°C (V40)			l	204	269	204	269	204	269	204	269	269	269	269
	Heating time			h:min	2:30	2:25	2:30	2:25	2:08	2:05	2:08	2:05	1:46	1:46	1:46
Electrical power for meter sizing				kW	2,30		2,70		3,40		3,70		5,50	5,80	6,20
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**		**A++**		**A++**		**A++**		**A++**	**A++**	**A++**
		Annual energy consumption		-	2.749		3.348		4.064		4.541		6.916	6.917	7.213
		SCOP		-	3,31		3,52		3,37		3,47		3,45	3,47	3,41
		ηs (seasonal output)		%	129		138		131		137		135	135	133
	Heating Water 35°C	Energy class		-	**A+++**		**A+++**		**A+++**		**A+++**		**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	2.354		2.849		3.223		3.649		5.156	5.157	6.011
		SCOP		-	4,85		4,95		5,22		5,20		4,81	4,72	4,62
		ηs (seasonal output)		%	191		195		205		205		189	186	182
	DHW	Energy class		-	**A+**	**A+**	**A+**	**A+**	**A+**	**A+**	**A+**	**A+**	**A+**	**A+**	**A+**
		Withdrawal profile		-	L	XL	L	XL	L	XL	L	XL	XL	XL	XL
Size - Indoor unit					**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	220-240/50/1										
Expansion tank capacity				l	12		12		12		12		12	12	12
Sound power			Nominal	dB(A)	41		41		41		41		41	41	41
Sound pressure @1m			Nominal	dB(A)	26		26		26		26		26	26	26
Size - Outdoor unit					**2.1**		**2.1**		**4.1**		**5.1**		**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	220-240/50/1										
Water flow-rate		Water 35/30°C	Nominal	l/s	0,20		0,30		0,40		0,48		0,58	0,69	0,76
Pump available pressure		Outdoor air 7°C	Nominal	kPa	85		84		80		71		60	48	40
Expansion tank capacity				l	4,8		4,8		4,8		4,8		4,8	4,8	4,8
Minimum system water content				l	30		30		40		40		40	40	40
Sound power			Minimum / Nominal	dB(A)	53 / 55		55 / 58		54 / 59		55 / 60		59 / 65	59 / 65	59 / 68
Sound pressure @1m			Nominal	dB(A)	45		47		48		50		53	53	57
Operating range															
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65		25 / 65		25 / 65		25 / 65		25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 75		25 / 75		25 / 75		25 / 75		25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25		5 / 25		5 / 25		5 / 25		5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35		-25 / 35		-25 / 35		-25 / 35		-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43		-25 / 43		-25 / 43		-25 / 43		-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43		-5 / 43		-5 / 43		-5 / 43		-5 / 43	-5 / 43	-5 / 43

dimensions and connections

Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	Indoor unit ACS190	AxCxB	mm	600x1.694x615	600x1.694x615	600x1.694x615	600x1.694x615	-	-	-
	Indoor unit ACS250	AxCxB	mm	600x2.004x615	600x2.004x615	600x2.004x615	600x2.004x615	600x2.004x615	600x2.004x615	600x2.004x615
	Outdoor unit	AxCxB	mm	1.295x717x400	1.295x717x400	1.385x864x445	1.385x864x445	1.385x864x445	1.385x864x445	1.385x864x445
Operating weight	Indoor unit ACS190		kg	359	359	359	359	-	-	-
	Indoor unit ACS250		kg	419	419	419	419	421	421	421
	Outdoor unit		kg	86	86	105	105	129	129	129
Refrigerant charge			type / GWP	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675
			kg	1,40	1,40	1,40	1,40	1,75	1,75	1,75
			CO_2 tons	0,95	0,95	0,95	0,95	1,18	1,18	1,18
External diameters	Indoor unit	Water (System)	inch	1”	1”	1”	1”	1”	1”	1”
		Water (DHW)	inch	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”
	Outdoor unit	Water (System)	inch	1”	1”	1” 1/4	1” 1/4	1” 1/4	1” 1/4	1” 1/4



HQCN-NEE 1 TC A
Indoor unit (IDU)

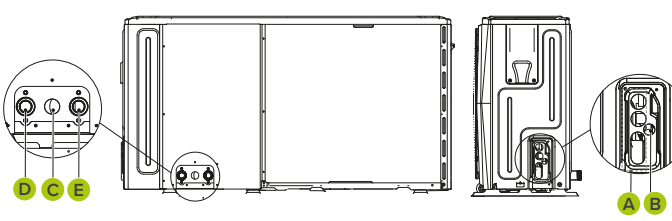


WiSAN-YME 1 S
Outdoor unit (ODU)

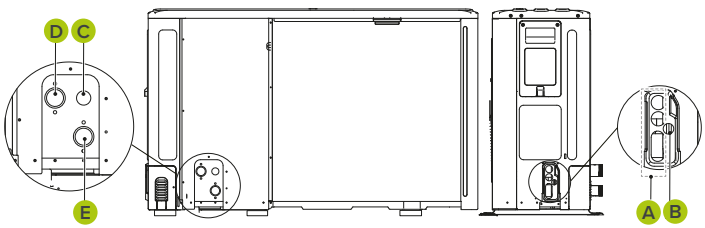
Size - Set					6.1	7.1	8.1
				DHW tank	**250L**	**250L**	**250L**
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**12,1 / 14,6**	**14,5 / 15,5**	**15,9 / 16,8**
	COP	Outdoor air 7°C	Nominal	-	4,95	4,60	4,50
	Capacity	Water 35/30°C	Nominal / Maximum	kW	10,0 / 11,0	12,0 / 12,7	13,1 / 13,9
	COP	Outdoor air -7°C	Nominal	-	3,00	2,85	2,70
	Capacity	Water 45/40°C	Nominal / Maximum	kW	12,3 / 14,5	14,1 / 15,7	16,0 / 16,6
	COP	Outdoor air 7°C	Nominal	-	3,70	3,60	3,50
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**12,0 / 15,0**	**13,5 / 15,3**	**14,2 / 16,4**
	EER	Outdoor air 35°C	Nominal	-	3,95	3,61	3,61
	Capacity	Water 7/12°C	Nominal / Maximum	kW	11,5 / 11,5	12,4 / 12,4	14,0 / 14,0
	EER	Outdoor air 35°C	Nominal	-	2,75	2,50	2,50
DHW	Net tank capacity			l	250	250	250
	Water mixed at 40°C (V40)			l	269	269	269
	Heating time			h:min	1:46	1:46	1:46
Electrical power for meter sizing				kW	5,50	5,80	6,20
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**
		Annual energy consumption		-	6.916	6.917	7.213
		SCOP		-	3,45	3,47	3,41
		ηs (seasonal output)		%	135	135	133
	Heating Water 35°C	Energy class		-	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	5.156	5.157	6.011
		SCOP		-	4,81	4,72	4,62
		ηs (seasonal output)		%	189	186	182
	DHW	Energy class		-	**A+**	**A+**	**A+**
		Withdrawal profile		-	XL	XL	XL
Size - Indoor unit					**A**	**A**	**TO**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	220-240/50/1	220-240/50/1	220-240/50/1
Expansion tank capacity				l	12	12	12
Sound power			Nominal	dB(A)	41	41	41
Sound pressure @1m			Nominal	dB(A)	26	26	26
Size - Outdoor unit					**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°		380-415/50/3+N	
Water flow-rate		Water 35/30°C	Nominal	l/s	0,58	0,69	0,76
Pump available pressure		Outdoor air 7°C	Nominal	kPa	60	48	40
Expansion tank capacity				l		4,8	
Minimum system water content				l	40		
Sound power			Minimum / Nominal	dB(A)	59 / 65	59 / 65	59 / 68
Sound pressure @1m			Nominal	dB(A)	53	54	58
Operating range							
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43

Size				6.1	7.1	8.1
Dimensions	Indoor unit ACS190	AxCxB	mm	-	-	-
	Indoor unit ACS250	AxCxB	mm	600x2.004x615	600x2.004x615	600x2.004x615
	Outdoor unit	AxCxB	mm	1.385x864x445	1.385x864x445	1.385x864x445
Operating weight	Indoor unit ACS190		kg	-	-	-
	Indoor unit ACS250		kg	421	421	421
	Outdoor unit		kg	144	144	144
Refrigerant charge[1]			type / GWP	R-32 / 675	R-32 / 675	R-32 / 675
			kg	1,75	1,75	1,75
			CO_2 tons	1,18	1,18	1,18
External diameters	Indoor unit	Water (System)	inch	1”	1”	1”
		Water (DHW)	inch	1/2”	1/2”	1/2”
	Outdoor unit	Water (System)	inch	1” 1/4	1” 1/4	1” 1/4

SIZES 2.1 to 3.1



SIZES 4.1 to 8.1



A. Hole for high voltage cable (power supply)
B. Hole for low pressure cable (control and signal cables)
C. Hole for discharge pipe
D. Water outlet
E. Water inlet

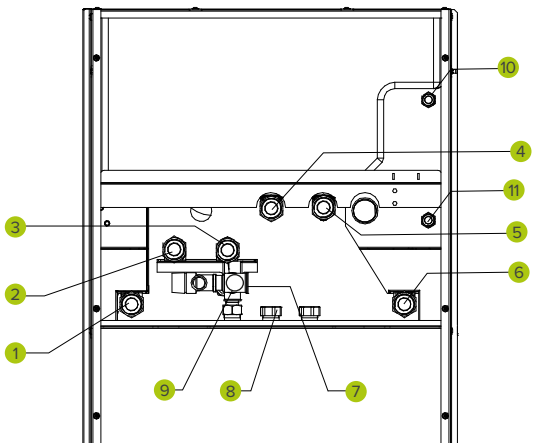
technical data - TOWER version + Edge F

Size - Set					2.1	3.1	4.1	5.1	6.1	7.1	8.1
				DHW tank	190L 250L	190L 250L	190L 250L	190L 250L	250L	250L	250L
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**4,50 / 6,86**	**6,20 / 7,70**	**8,40 / 10,4**	**10,0 / 11,0**	**12,0 / 14,7**	**14,0 / 16,0**	**15,0 / 17,6**
	COP	Outdoor air 7°C	Nominal	-	5,15	4,90	5,00	4,70	4,80	4,50	4,40
	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,50 / 5,56	5,90 / 6,18	7,00 / 8,74	8,00 / 8,89	10,0 / 11,1	11,0 / 12,1	11,5 / 13,2
	COP	Outdoor air -7°C	Nominal	-	3,10	2,95	3,00	2,85	2,80	2,75	2,70
	Capacity	Water 45/40°C	Nominal / Maximum	kW	4,50 / 6,55	6,40 / 7,35	8,20 / 9,57	10,0 / 10,5	12,0 / 14,1	14,0 / 15,3	15,0 / 16,9
	COP	Outdoor air 7°C	Nominal	-	4,05	3,80	3,85	3,65	3,70	3,50	3,35
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**4,90 / 7,84**	**5,90 / 9,75**	**6,80 / 11,4**	**7,80 / 12,13**	**12,0 / 16,4**	**13,0 / 17,3**	**14,4 / 18,6**
	EER	Outdoor air 35°C	Nominal	-	5,50	5,10	5,15	4,75	4,50	4,20	3,90
	Capacity	Water 7/12°C	Nominal / Maximum	kW	4,70 / 5,66	6,80 / 7,14	7,50 / 8,19	8,76 / 8,76	11,5 / 12,0	12,7 / 12,7	14,0 / 14,3
	EER	Outdoor air 35°C	Nominal	-	3,65	3,10	3,45	3,01	3,05	2,90	2,75
DHW	Net tank capacity			l	190 250	190 250	190 250	190 250	250	250	250
	Water mixed at 40°C (V40)			l	204 269	204 269	204 269	204 269	269	269	269
	Heating time			h:min	2:30 2:25	2:30 2:25	2:08 2:05	2:08 2:05	1:46	1:46	1:46
Electrical power for meter sizing				kW	2,70	3,00	3,60	3,90	5,70	6,00	6,40
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**
		Annual energy consumption		-	2.684	3.164	3.676	4.215	6.847	7.414	8.349
		SCOP		-	3,79	3,81	3,81	3,82	3,62	3,62	3,57
		ηs (seasonal output)		%	148	150	150	150	142	142	140
	Heating Water 35°C	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	2.040	2.692	3.187	3.734	5.376	6.091	6.630
		SCOP		-	5,09	4,91	5,20	5,07	4,68	4,64	4,59
		ηs (seasonal output)		%	201	194	205	200	184	182	181
	DHW	Energy class		-	**A+** **A+**	**A+** **A+**	**A+** **A+**	**A+** **A+**	**A+**	**A+**	**A+**
		Withdrawal profile		-	L XL	L XL	L XL	L XL	XL	XL	XL
Size - Indoor unit					**A**	**A**	**A**	**A**	**A**	**A**	**A**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
Expansion tank capacity				l	12	12	12	12	12	12	12
Sound power			Nominal	dB(A)	41	41	41	41	41	41	41
Sound pressure @1m			Nominal	dB(A)	26	26	26	26	26	26	26
Size - Outdoor unit					**2.1**	**3.1**	**4.1**	**5.1**	**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°				230/50/1			
Water flow-rate		Water 35/30°C	Nominal	l/s	0,21	0,30	0,40	0,48	0,57	0,67	0,71
Pump available pressure		Outdoor air 7°C	Nominal	kPa	89	87	80	71	63	54	49
Expansion tank capacity				l	8	8	8	8	8	8	8
Minimum system water content				l	30	30	40	40	40	40	40
Sound power			Minimum / Nominal	dB(A)	51 / 56	53 / 58	55 / 60	56 / 61	58 / 65	59 / 65	60 / 69
Sound pressure @1m			Minimum / Nominal	dB(A)	40 / 44	42 / 46	42 / 48	43 / 49	43 / 51	44 / 52	48 / 56
Operating range											
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43

dimensions and connections

Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	Indoor unit ACS190	AxCxB	mm	600x1.694x615	600x1.694x615	600x1.694x615	600x1.694x615	-	-	-
	Indoor unit ACS250	AxCxB	mm	600x2.004x615	600x2.004x615	600x2.004x615	600x2.004x615	600x2.004x615	600x2.004x615	600x2.004x615
	Outdoor unit	AxCxB	mm	1.295x718x386	1.295x718x386	1.385x865x423	1.385x865x423	1.385x865x423	1.385x865x423	1.385x865x423
Operating weight	Indoor unit ACS190		kg	359	359	359	359	-	-	-
	Indoor unit ACS250		kg	419	419	419	419	421	421	421
	Outdoor unit		kg	90	90	117	117	135	135	135
Refrigerant charge			type / GWP	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02
			kg	0,70	0,70	1,10	1,10	1,25	1,25	1,25
			CO_2 tons	0,002	0,002	0,003	0,003	0,004	0,004	0,004
External diameters	Indoor unit	Water (System)	inch	1"	1"	1"	1"	1"	1"	1"
		Water (DHW)	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	Outdoor unit	Water (System)	inch	1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4

connection details

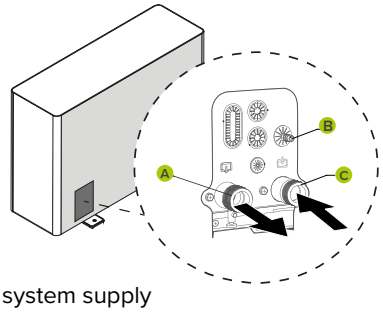


1. Water supply from outdoor unit 1"
2. Area 2 system return - 1" (optional)
3. Area 2 system supply - 1" (optional)
4. Area 1 system return - 1"
5. Area 1 system supply - 1"
6. Water return to outdoor unit 1"
7. Water supply system inlet 3/4"
8. DHW recirculation 3/4"
9. DHW outlet 3/4"
10. Supply to solar system 3/4" (optional)
11. Return from solar system 3/4" (optional)

Size - Set					6.1	7.1	8.1
				DHW tank	**250L**	**250L**	**250L**
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**12,0 / 14,7**	**14,0 / 16,0**	**15,0 / 17,6**
	COP	Outdoor air 7°C	Nominal	-	4,80	4,50	4,40
	Capacity	Water 35/30°C	Nominal / Maximum	kW	10,0 / 11,1	11,0 / 12,1	11,5 / 13,2
	COP	Outdoor air -7°C	Nominal	-	2,80	2,75	2,70
	Capacity	Water 45/40°C	Nominal / Maximum	kW	12,0 / 14,1	14,0 / 15,3	15,0 / 16,9
	COP	Outdoor air 7°C	Nominal	-	3,70	3,50	3,35
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**12,0 / 16,4**	**13,0 / 17,3**	**14,4 / 18,6**
	EER	Outdoor air 35°C	Nominal	-	4,50	4,20	3,90
	Capacity	Water 7/12°C	Nominal / Maximum	kW	11,5 / 12,0	12,7 / 12,7	14,0 / 14,3
	EER	Outdoor air 35°C	Nominal	-	3,05	2,90	2,75
DHW	Net tank capacity			l	250	250	250
	Water mixed at 40°C (V40)			l	269	269	269
	Heating time			h:min	1:46	1:46	1:46
Electrical power for meter sizing				kW	5,70	6,00	6,40
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**
		Annual energy consumption		-	6.847	7.414	8.349
		SCOP		-	3,62	3,62	3,57
		ηs (seasonal output)		%	142	142	140
	Heating Water 35°C	Energy class		-	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	5.376	6.091	6.630
		SCOP		-	4,68	4,64	4,59
		ηs (seasonal output)		%	184	182	181
	DHW	Energy class		-	**A+**	**A+**	**A+**
		Withdrawal profile		-	XL	XL	XL
Size - Indoor unit					**A**	**A**	**TO**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	220-240/50/1	220-240/50/1	220-240/50/1
Expansion tank capacity				l	12	12	12
Sound power			Nominal	dB(A)	41	41	41
Sound pressure @1m			Nominal	dB(A)	26	26	26
Size - Outdoor unit					**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°		380-415/50/3+N	
Water flow-rate		Water 35/30°C	Nominal	l/s	0,57	0,67	0,71
Pump available pressure		Outdoor air 7°C	Nominal	kPa	63	54	49
Minimum system water content				l	40	40	40
Expansion tank capacity				l	8 (Odu)	8 (Odu)	8 (Odu)
Sound power			Minimum / Nominal	dB(A)	58 / 65	59 / 65	60 / 69
Sound pressure @1m			Minimum / Nominal	dB(A)	43 / 51	44 / 52	48 / 56
Operating range							
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43

Size				6.1	7.1	8.1
Dimensions	Indoor unit ACS190	AxCxB	mm	-	-	-
	Indoor unit ACS250	AxCxB	mm	600x2.004x615	600x2.004x615	600x2.004x615
	Outdoor unit	AxCxB	mm	1.385x865x423	1.385x865x423	1.385x865x423
Operating weight	Indoor unit ACS190		kg	-	-	-
	Indoor unit ACS250		kg	421	421	421
	Outdoor unit		kg	135	135	135
Refrigerant charge			type / GWP	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02
			kg	1,25	1,25	1,25
			CO_2 tons	0,004	0,004	0,004
Equivalent pipe length with pre-charging only			m			
External diameters	Indoor unit	Water (System)	inch	1"	1"	1"
		Water (DHW)	inch	1/2"	1/2"	1/2"
	Outdoor unit	Water (System)	inch	1" 1/4	1" 1/4	1" 1/4

SIZES 2.1 to 3.1

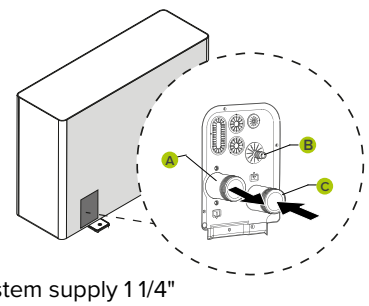


A. 1" system supply

B. Pressure relief valve Ø 16 mm

C. 1" system return

SIZES 4.1 to 8.1

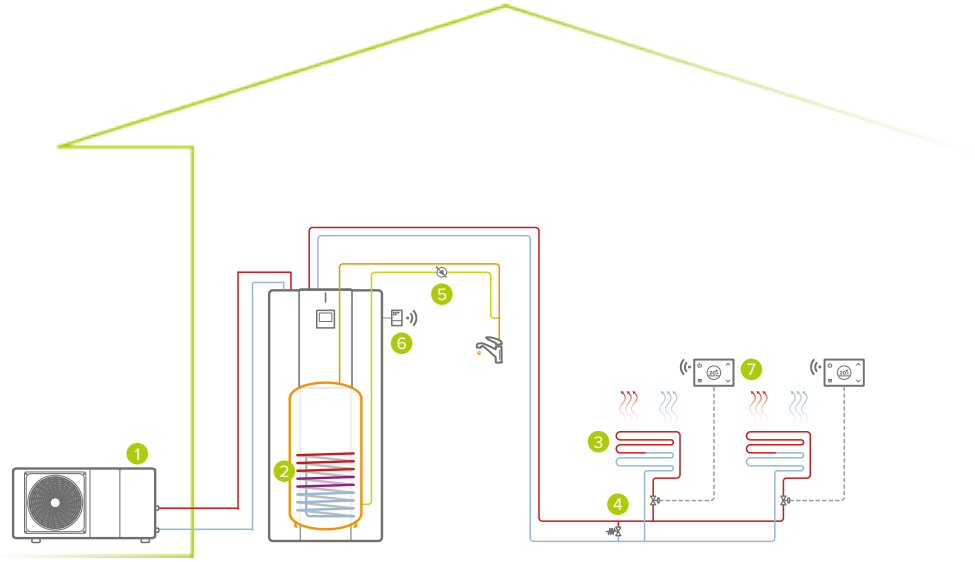


A. System supply 1 1/4"

B. Pressure relief valve Ø 16 mm

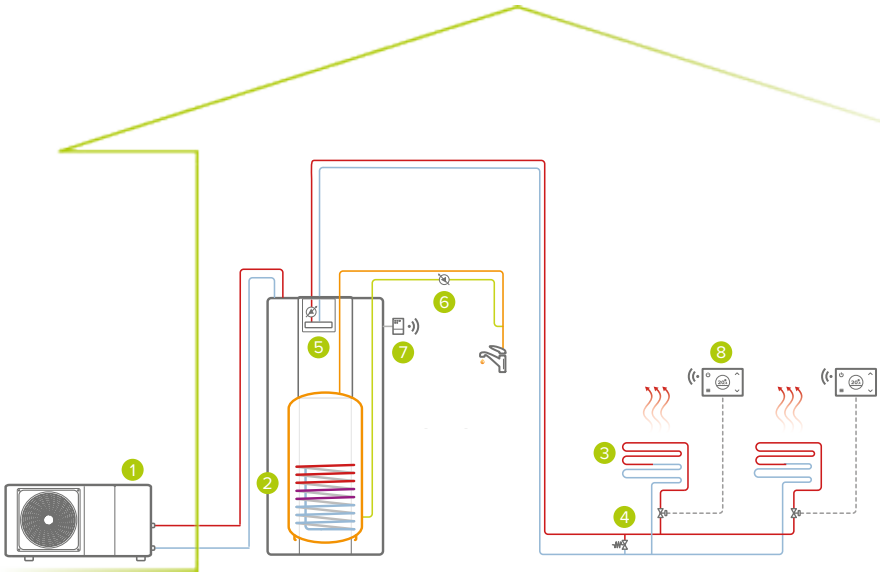
C. System return 1 1/4"

system diagrams



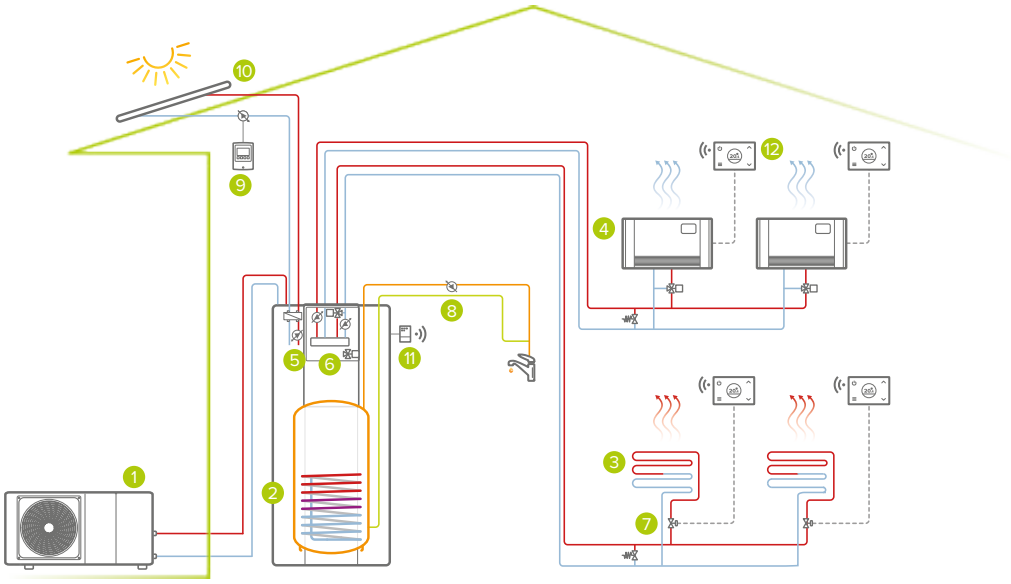
Single-zone system:
Heating / DHW

1 outdoor unit
2 indoor unit
3 heating area
4 bypass*
5 DHW recirculation pump
6 SwitchConnect Wi-Fi receiver
7 HiDTConnect2 Wi-Fi chronothermostat



Single booster single-area system:
Heating / DHW

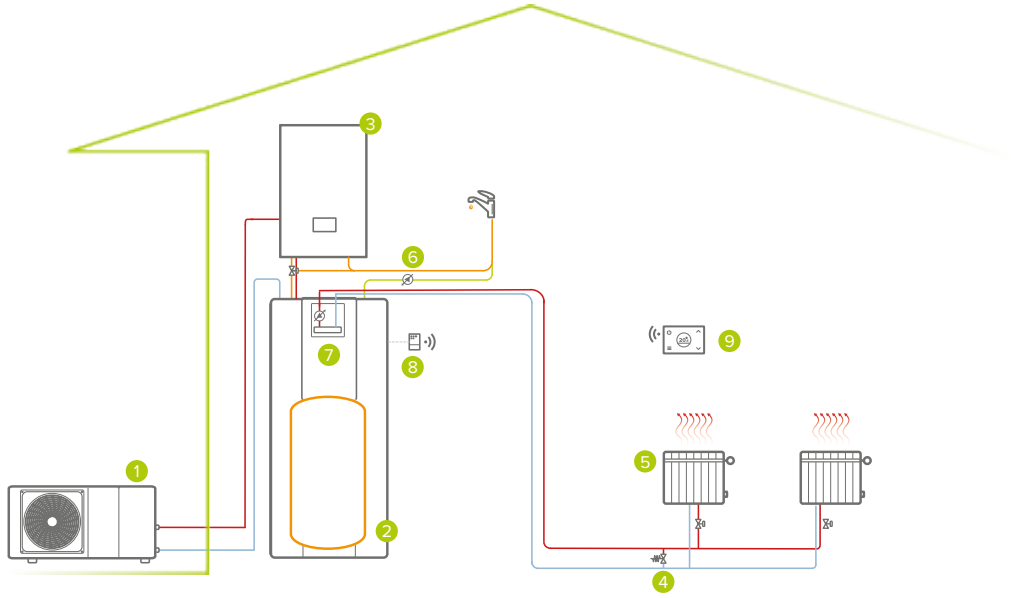
1 outdoor unit
2 indoor unit
3 heating area
4 bypass*
5 hydraulic separator single-area kit plus pump
6 DHW recirculation pump
7 SwitchConnect Wi-Fi receiver
8 Wi-Fi chronothermostat HID-TConnect2



Two zone + solar system

Heating / DHW

1 outdoor unit
2 indoor unit
3 heating area
4 cooling zone
5 solar connection kit
6 Two-zone kit
7 bypass*
8 DHW recirculation pump*
9 solar circulation kit
10 ELFOSun3 thermal solar
11 SwitchConnect Wi-Fi receiver
12 Wi-Fi chronothermostat HID-TConnect2



Single zone + Boiler

Heating / DHW

1 outdoor unit
2 indoor unit
3 condensing boiler
4 bypass*
5 heating system
6 DHW recirculation pump
7 Hydraulic separator single-area kit + pump
8 SwitchConnect Wi-Fi receiver
9 Wi-Fi chronothermostat HID-TConnect2

HYDRO-SPLIT BOX version

WISAN-YME 1 S + HQCN-NEE 1 BC A
WISAN-PME 1 S + HQCN-NEE 1 BC

Wall-mounted indoor unit for Hydro-split systems

Can be combined with EDGE EVO 2.0 and EDGE F

ENERGY SAVING
- Solar integration (optional - DHW tank)
- Cascade
- €-Switch

COMFORT
- Hot Cold
- DHW
- Silent

RELIABILITY
- Backup heater (optional)

HEALTH
- Renewable Energy (Full electric version)

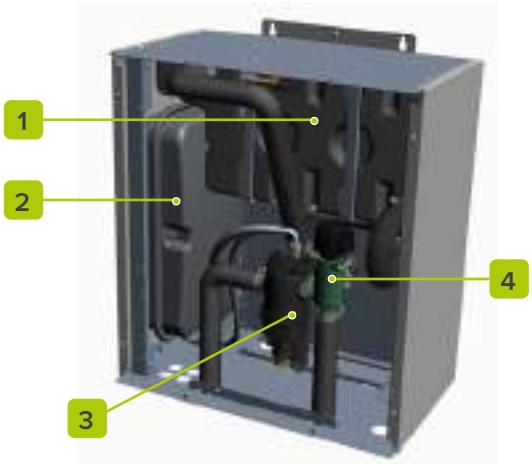
CONVENIENCE
- Weekley Timer
- Contemporaneity (Hybrid Version)
- Instant DHW (Hybrid Version)

MANAGEMENT AND CONNECTIVITY
- Input ON/OFF
- Port Modbus
- Control via App
- Management Control4 NRG
- Clivet Eye monitoring
- User interface / thermostat

- ✓ Compact module
- ✓ Plug and play
- ✓ Complete (filter - 3-way - inertial)
- ✓ Intuitive connections
- ✓ Dirt separator filter, 3-way DHW valve

Universal

The BOX version is the hydraulic module similar in size to a boiler that can house the hydraulic components to connect the heat pump to the heating and cooling system. Ready to be combined with the EDGE EVO 2.0 and Edge F range of packaged heat pumps from size 2.1 to 8.1, for a high-level heating and cooling system.



1. 15-litre inertial tank
2. 12-litre system expansion tank
3. Magnetic dirt separator filter
4. 3-way valve for DHW

configurations

CONTROL:

HMIR32 Can be combined with EDGE EVO 2.0

HMIR290 Can be combined with EDGE F

Hybrid version in combination with Clivet FE boiler

internal accessories

	**EH246X**	Additional electric heater adjustable to three capacities of 2, 4 or 6 kW
	EH9X	Additional electric heater adjustable to one capacity of 9 kW
	**KIR2HX**	Hydraulic kit for managing two areas with the same temperature
	KIR2HLX	Hydraulic kit for managing two areas with high and mixed temperature
	**KCSIX**	Kit for hydraulic separation between primary and secondary circuit with pump on secondary circuit
	**SICGX**	Intermediate exchanger for clean separation between primary and secondary circuit

external accessories

	**ACS200X**	200 liter DHW tank
	ACS300X	300 liter DHW tank
	ACS500X	500 liter DHW tank
	**SCS08X**	Solar coil for boilers ACS ACS200X/ACS300X
	SCS12X	Solar coil for boiler ACS ACS500X
	**ACI40X**	System inertial tank 40 litres
	ANEDX	Electronic anode

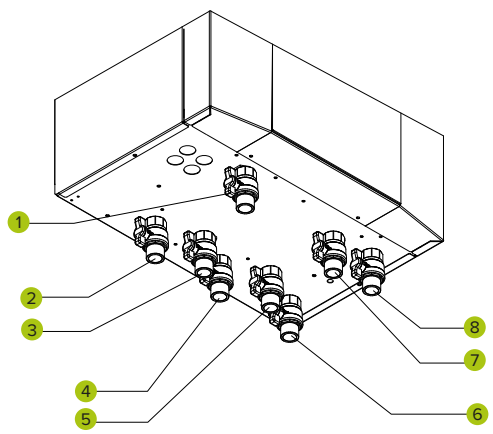
	T1BX	Water temperature probe 10 m
	T1B30X	Water temperature probe 30 m
	**VDACSX**	Thermostatic switching valve ACS
	**KISX**	Simplified installation kit with fittings for EASYBOX
	**HTC2WX**	Chronothermostat HID-TConnect22 for temperature control, white
	**SWCX**	Receiver / switch IoT SwitchConnect

technical data - EASYBox + Edge EVO 2.0

Size - Set					2.1	3.1	4.1	5.1	6.1	7.1	8.1
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**4,20 / 6,26**	**6,35 / 7,41**	**8,40 / 9,11**	**10,0 / 10,3**	**12,1 / 14,6**	**14,5 / 15,5**	**15,9 / 16,8**
	COP	Outdoor air 7°C	Nominal	-	5,10	4,95	5,15	4,95	4,95	4,60	4,50
	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,70 / 4,99	6,00 / 6,21	7,00 / 7,27	8,00 / 8,31	10,0 / 11,0	12,0 / 12,7	13,1 / 13,9
	COP	Outdoor air -7°C	Nominal	-	3,10	3,00	3,20	3,05	3,00	2,85	2,70
	Capacity	Water 45/40°C	Nominal / Maximum	kW	4,30 / 5,96	6,30 / 7,13	8,10 / 8,98	10,0 / 10,3	12,3 / 14,5	14,1 / 15,7	16,0 / 16,6
	COP	Outdoor air 7°C	Nominal	-	3,80	3,70	3,85	3,75	3,70	3,60	3,50
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**4,50 / 7,65**	**6,50 / 7,65**	**8,30 / 11,1**	**9,90 / 12,0**	**12,0 / 15,0**	**13,5 / 15,3**	**14,2 / 16,4**
	EER	Outdoor air 35°C	Nominal	-	5,50	4,80	5,05	4,55	3,95	3,61	3,61
	Capacity	Water 7/12°C	Nominal / Maximum	kW	4,70 / 6,14	7,00 / 7,11	7,45 / 7,94	8,20 / 8,67	11,5 / 11,5	12,4 / 12,4	14,0 / 14,0
	EER	Outdoor air 35°C	Nominal	-	3,45	3,00	3,35	3,25	2,75	2,50	2,50
Electrical power for meter sizing				kW	2,30	2,70	3,40	3,70	5,50	5,80	6,20
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**
		Annual energy consumption		-	2.749	3.348	4.064	4.541	6.916	6.917	7.213
		SCOP		-	3,31	3,52	3,37	3,47	3,45	3,47	3,41
		ηs (seasonal output)		%	129	138	131	137	135	135	133
	Heating Water 35°C	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	2.354	2.849	3.223	3.649	5.156	5.157	6.011
		SCOP		-	4,85	4,95	5,22	5,20	4,81	4,72	4,62
		ηs (seasonal output)		%	191	195	205	205	189	186	182
Size - Indoor unit					**A**	**A**	**A**	**A**	**A**	**A**	**A**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Expansion tank capacity				l	12	12	12	12	12	12	12
Sound power			Nominal	dB(A)	41	41	41	41	41	41	41
Sound pressure @1m			Nominal	dB(A)	26	26	26	26	26	26	26
Size - Outdoor unit					**2.1**	**3.1**	**4.1**	**5.1**	**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Water flow-rate		Water 35/30°C	Nominal	l/s	0,20	0,30	0,40	0,48	0,58	0,69	0,76
Pump available pressure		Outdoor air 7°C	Nominal	kPa	85	84	80	71	60	48	40
Expansion tank capacity				l	4,8	4,8	4,8	4,8	4,8	4,8	4,8
Minimum system water content				l	30	30	40	40	40	40	40
Sound power			Minimum / Nominal	dB(A)	53 / 55	55 / 58	54 / 59	55 / 60	59 / 65	59 / 65	59 / 68
Sound pressure @1m			Nominal	dB(A)	45	47	48	50	53	53	57
Expansion tank capacity				l	4,8	4,8	4,8	4,8	4,8	4,8	4,8
Operating range											
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43

dimensions and connections

Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	547x604x386	547x604x386	547x604x386	547x604x386	547x604x386	547x604x386	547x604x386
	Outdoor unit	AxCxB	mm	1.295x717x400	1.295x717x400	1.385x864x445	1.385x864x445	1.385x864x445	1.385x864x445	1.385x864x445
Operating weight	Indoor unit		kg	52	52	52	52	52	52	52
	Outdoor unit		kg	86	86	105	105	129	129	129
Refrigerant precharge			type / GWP	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675
			kg	1,40	1,40	1,40	1,40	1,75	1,75	1,75
			CO_2 tons	0,95	0,95	0,95	0,95	1,18	1,18	1,18
External diameters	Indoor unit	Water (System)	inch	1"	1"	1"	1"	1"	1"	1"
	Outdoor unit	Water (System)	inch	1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4

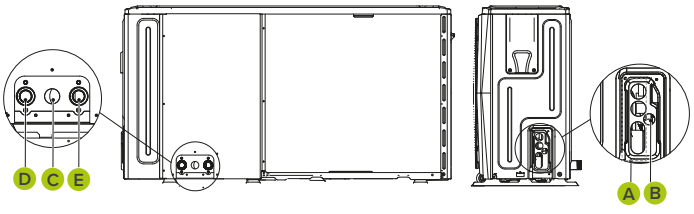


1. Water supply from outdoor unit 1"
2. Area 1 system return - 1"
3. Area 1 system supply - 1"
4. Area 2 system return - 1" (optional)
5. Area 2 system supply - 1" (optional)
6. Water return to outdoor unit 1"
7. DHW exchanger return (with optional water tank)
8. DHW exchanger supply (with optional water tank)

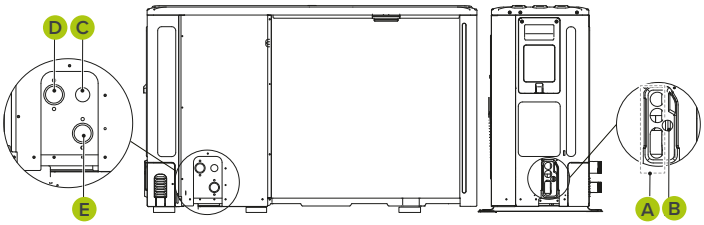
Size - Set					6.1	7.1	8.1
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**12,1 / 14,6**	**14,5 / 15,5**	**15,9 / 16,8**
	COP	Outdoor air 7°C	Nominal	-	4,95	4,60	4,50
	Capacity	Water 35/30°C	Nominal / Maximum	kW	10,0 / 11,0	12,0 / 12,7	13,1 / 13,9
	COP	Outdoor air -7°C	Nominal	-	3,00	2,85	2,70
	Capacity	Water 45/40°C	Nominal / Maximum	kW	12,3 / 14,5	14,1 / 15,7	16,0 / 16,6
	COP	Outdoor air 7°C	Nominal	-	3,70	3,60	3,50
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**12,0 / 15,0**	**13,5 / 15,3**	**14,2 / 16,4**
	EER	Outdoor air 35°C	Nominal	-	3,95	3,61	3,61
	Capacity	Water 7/12°C	Nominal / Maximum	kW	11,5 / 11,5	12,4 / 12,4	14,0 / 14,0
	EER	Outdoor air 35°C	Nominal	-	2,75	2,50	2,50
Electrical power for meter sizing				kW	5,50	5,80	6,20
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**
		Annual energy consumption		-	6.916	6.917	7.213
		SCOP		-	3,45	3,47	3,41
		ηs (seasonal output)		%	135	135	133
	Heating Water 35°C	Energy class		-	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	5.156	5.157	6.011
		SCOP		-	4,81	4,72	4,62
		ηs (seasonal output)		%	189	186	182
Size - Indoor unit					**A**	**A**	**A**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	220-240/50/1	220-240/50/1	220-240/50/1
Expansion tank capacity				l	12	12	12
Sound power			Nominal	dB(A)	41	41	41
Sound pressure @1m			Nominal	dB(A)	26	26	26
Size - Outdoor unit					**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	380-415/50/3+N	380-415/50/3+N	380-415/50/3+N
Water flow-rate		Water 35/30°C	Nominal	l/s	0,58	0,69	0,76
Pump available pressure		Outdoor air 7°C	Nominal	kPa	60	48	40
Expansion tank capacity				l	4,8	4,8	4,8
Minimum system water content				l	40	40	40
Sound power			Minimum / Nominal	dB(A)	59 / 65	59 / 65	59 / 68
Sound pressure @1m			Nominal	dB(A)	53	54	58
Operating range							
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43

Size				6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	547x604x386	547x604x386	547x604x386
	Outdoor unit	AxCxB	mm	1.385x864x445	1.385x864x445	1.385x864x445
Operating weight	Indoor unit		kg	47	47	47
	Outdoor unit		kg	129	129	129
Refrigerant precharge			type / GWP	R-32 / 675	R-32 / 675	R-32 / 675
			kg	1,75	1,75	1,75
			CO_2 tons	1,18	1,18	1,18
External diameters	Indoor unit	Water (System)	inch	1"	1"	1"
	Outdoor unit	Water (System)	inch	1" 1/4	1" 1/4	1" 1/4

SIZES 2.1 to 3.1



SIZES 4.1 to 8.1



A. Hole for high voltage cable (power supply)
B. Hole for low pressure cable (control and signal cables)
C. Hole for discharge pipe
D. Water outlet
E. Water inlet

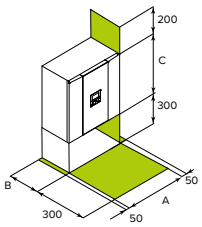
technical data - EASYBox + Edge F

Size - Set					2.1	3.1	4.1	5.1	6.1	7.1	8.1
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**4,50 / 6,86**	**6,20 / 7,70**	**8,40 / 10,4**	**10,0 / 11,0**	**12,0 / 14,7**	**14,0 / 16,0**	**15,0 / 17,6**
	COP	Outdoor air 7°C	Nominal	-	5,15	4,90	5,00	4,70	4,80	4,50	4,40
	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,50 / 5,56	5,90 / 6,18	7,00 / 8,74	8,00 / 8,89	10,0 / 11,1	11,0 / 12,1	11,5 / 13,2
	COP	Outdoor air -7°C	Nominal	-	3,10	2,95	3,00	2,85	2,80	2,75	2,70
	Capacity	Water 45/40°C	Nominal / Maximum	kW	4,50 / 6,55	6,40 / 7,35	8,20 / 9,57	10,0 / 10,5	12,0 / 14,1	14,0 / 15,3	15,0 / 16,9
	COP	Outdoor air 7°C	Nominal	-	4,05	3,80	3,85	3,65	3,70	3,50	3,35
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**4,90 / 7,84**	**5,90 / 9,75**	**6,80 / 11,4**	**7,80 / 12,13**	**12,0 / 16,4**	**13,0 / 17,3**	**14,4 / 18,6**
	EER	Outdoor air 35°C	Nominal	-	5,50	5,10	5,15	4,75	4,50	4,20	3,90
	Capacity	Water 7/12°C	Nominal / Maximum	kW	4,70 / 5,66	6,80 / 7,14	7,50 / 8,19	8,76 / 8,76	11,5 / 12,0	12,7 / 12,7	14,0 / 14,3
	EER	Outdoor air 35°C	Nominal	-	3,65	3,10	3,45	3,01	3,05	2,90	2,75
Electrical power for meter sizing				kW	2,70	3,00	3,60	3,90	5,70	6,00	6,40
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**
		Annual energy consumption		-	2.684	3.164	3.676	4.215	6.847	7.414	8.349
		SCOP		-	3,79	3,81	3,81	3,82	3,62	3,62	3,57
		ηs (seasonal output)		%	148	150	150	150	142	142	140
	Heating Water 35°C	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	2.040	2.692	3.187	3.734	5.376	6.091	6.630
		SCOP		-	5,09	4,91	5,20	5,07	4,68	4,64	4,59
		ηs (seasonal output)		%	201	194	205	200	184	182	181
Size - Indoor unit					**A**	**A**	**A**	**A**	**B**	**B**	**B**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
Expansion tank capacity				l	12	12	12	12	12	12	12
Sound power			Nominal	dB(A)	41	41	41	41	41	41	41
Sound pressure @1m			Nominal	dB(A)	26	26	26	26	26	26	26
Size - Outdoor unit					**2.1**	**3.1**	**4.1**	**5.1**	**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
Water flow-rate		Water 35/30°C	Nominal	l/s	0,21	0,30	0,40	0,48	0,57	0,67	0,71
Pump available pressure		Outdoor air 7°C	Nominal	kPa	89	87	80	71	63	54	49
Expansion tank capacity				l	8	8	8	8	8	8	8
Minimum system water content				l	30	30	40	40	40	40	40
Sound power			Minimum / Nominal	dB(A)	51 / 56	53 / 58	55 / 60	56 / 61	58 / 65	59 / 65	60 / 69
Sound pressure @1m			Minimum / Nominal	dB(A)	40 / 44	42 / 46	42 / 48	43 / 49	43 / 51	44 / 52	48 / 56
Operating range											
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43

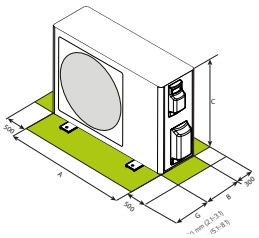
dimensions and connections

Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	547x604x386	547x604x386	547x604x386	547x604x386	547x604x386	547x604x386	547x604x386
	Outdoor unit	AxCxB	mm	1.295x718x371	1.295x718x371	1.385x865x423	1.385x865x423	1.385x865x423	1.385x865x423	1.385x865x423
Operating weight	Indoor unit		kg	52	52	52	52	52	52	52
	Outdoor unit		kg	90	90	117	117	135	135	135
Refrigerant precharge			type / GWP	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02
			kg	0,70	0,70	1,10	1,10	1,25	1,25	1,25
			CO_2 tons	0,002	0,002	0,003	0,003	0,004	0,004	0,004
External diameters	Indoor unit	Water (System)	inch	1"	1"	1"	1"	1"	1"	1"
	Outdoor unit	Water (System)	inch	1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4

HQCN-NEE 1 BC
Indoor unit (IDU)



WiSAN-PME 1 S
Outdoor unit (ODU)



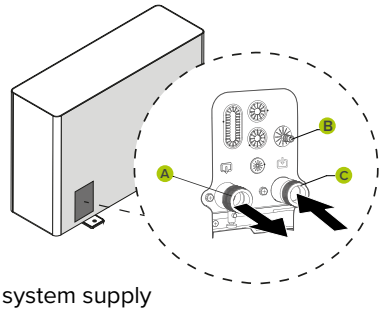
G = 1000 mm (2.1÷3.1) / 1500 mm (5.1÷8.1)

For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

Size - Set					6.1	7.1	8.1
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**12,0 / 14,7**	**14,0 / 16,0**	**15,0 / 17,6**
	COP	Outdoor air 7°C	Nominal	-	4,80	4,50	4,40
	Capacity	Water 35/30°C	Nominal / Maximum	kW	10,0 / 11,1	11,5 / 12,1	12,7 / 13,2
	COP	Outdoor air -7°C	Nominal	-	2,80	2,70	2,50
	Capacity	Water 45/40°C	Nominal / Maximum	kW	12,0 / 14,1	14,0 / 15,3	15,0 / 16,9
	COP	Outdoor air 7°C	Nominal	-	3,70	3,50	3,35
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**12,0 / 16,4**	**13,0 / 17,3**	**14,4 / 18,6**
	EER	Outdoor air 35°C	Nominal	-	4,50	4,20	3,90
	Capacity	Water 7/12°C	Nominal / Maximum	kW	11,5 / 12,0	12,7 / 12,7	14,0 / 14,3
	EER	Outdoor air 35°C	Nominal	-	3,05	2,90	2,75
Electrical power for meter sizing				kW	5,70	6,00	6,40
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**
		Annual energy consumption		-	6.847	7.414	8.349
		SCOP		-	3,62	3,62	3,57
		ηs (seasonal output)		%	142	142	140
	Heating Water 35°C	Energy class		-	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	5.376	6.091	6.630
		SCOP		-	4,68	4,64	4,59
		ηs (seasonal output)		%	184,0	182,4	180,6
Size - Indoor unit					**A**	**A**	**A**
Power supply		Voltage/Frequency/Phases		V/Hz/ n°	220-240/50/1	220-240/50/1	220-240/50/1
Expansion tank capacity				l	12	12	12
Sound power			Nominal	dB(A)			
Sound pressure @1m			Nominal	dB(A)			
Size - Outdoor unit					**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/ n°	400/50/3+N	400/50/3+N	400/50/3+N
Water flow-rate		Water 35/30°C	Nominal	l/s	0,57	0,67	0,71
Pump available pressure		Outdoor air 7°C	Nominal	kPa	63	54	49
Expansion tank capacity				l		8 (Odu)	
Minimum system water content				l	40	40	40
Minimum system water content				l	400/50/3+N	400/50/3+N	400/50/3+N
Sound power			Minimum / Nominal	dB(A)	58 / 65	59 / 65	60 / 69
Sound pressure @1m			Minimum / Nominal	dB(A)	43 / 51	44 / 52	48 / 56
Operating range							
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 46	-25 / 46	-25 / 46
	Cooling	-	Minimum / Maximum	°C	-5 / 46	-5 / 46	-5 / 46

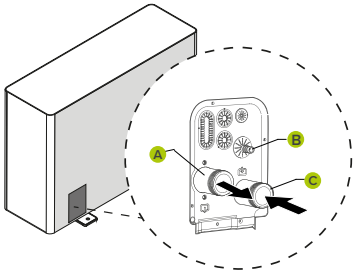
Size				6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	547x604x386	547x604x386	547x604x386
	Outdoor unit	AxCxB	mm	1.385x865x423	1.385x865x423	1.385x865x423
Operating weight	Indoor unit		kg	52	52	52
	Outdoor unit		kg	135	135	135
Refrigerant precharge[1]			type / GWP	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02
			kg	1,25	1,25	1,25
			CO2 tons	0,004	0,004	0,004
External dia-meters	Indoor unit	Water (System)	inch	1”	1”	1”
	Outdoor unit	Water (System)	inch	1” 1/4	1” 1/4	1” 1/4

SIZES 2.1 to 3.1



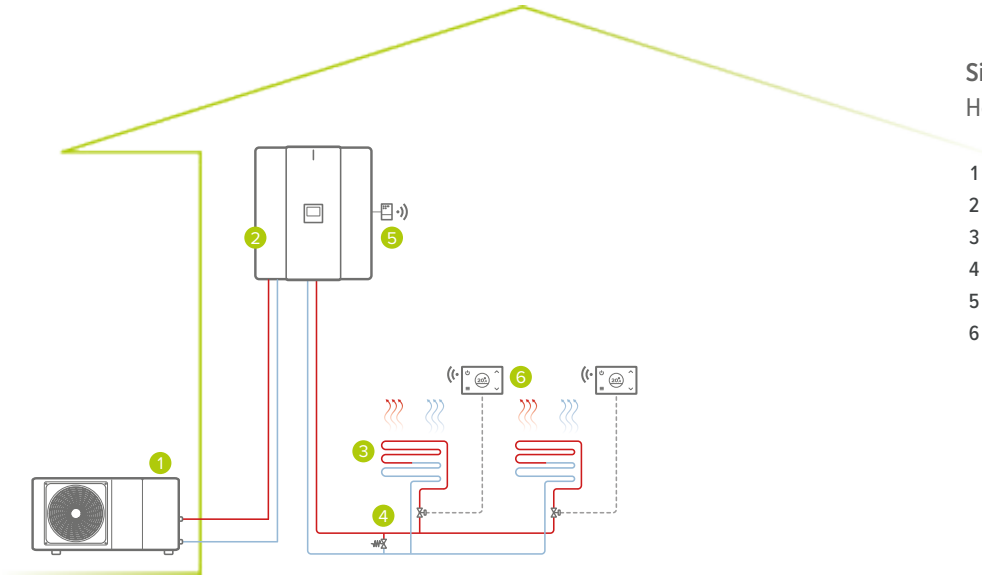
A. 1” system supply
B. Pressure relief valve Ø 16 mm
C. 1” system return

SIZES 4.1 to 8.1



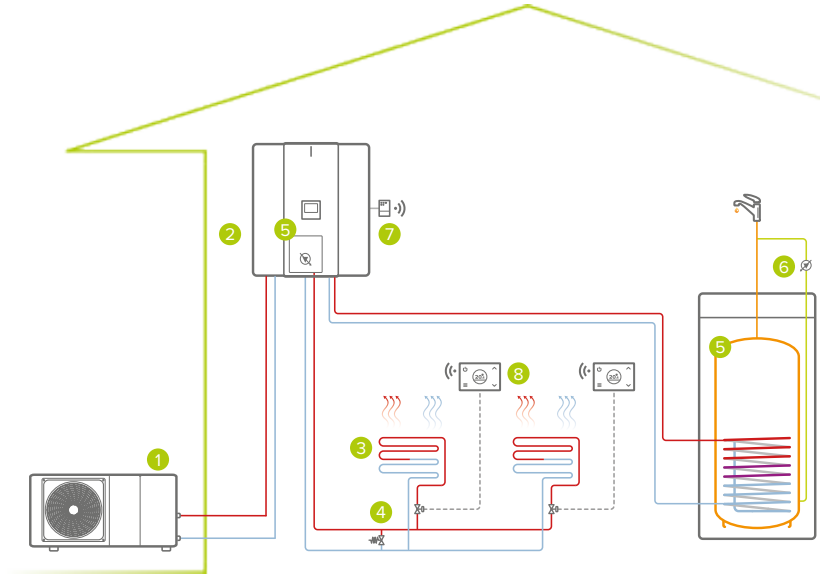
A. System supply 1 1/4"
B. Pressure relief valve Ø 16 mm
C. System return 1 1/4"

system diagrams



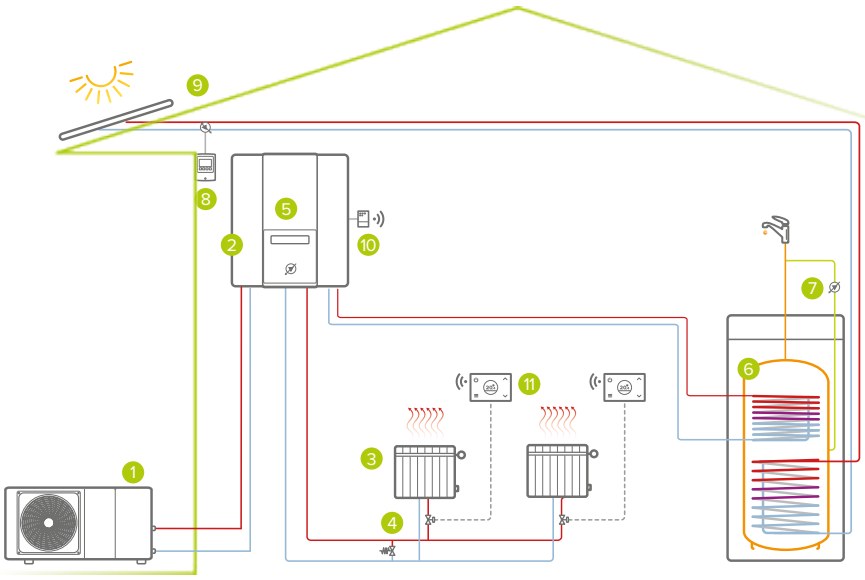
Single-zone system:
Heating / DHW

1 outdoor unit
2 indoor unit
3 heating system
4 bypass*
5 SwitchConnect Wi-Fi receiver
6 Wi-Fi chronothermostat HID-TConnect2



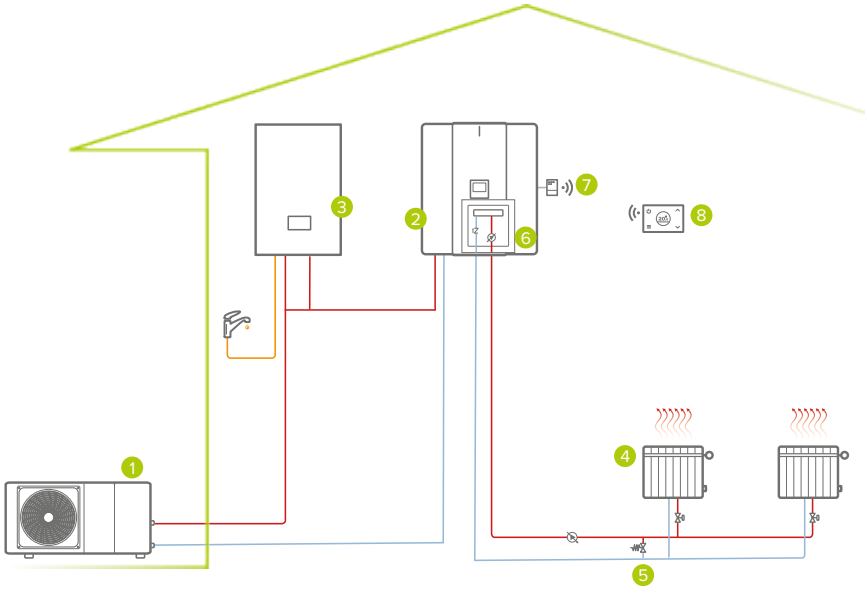
Single-area system + external DHW water tank:
Heating / DHW

1 outdoor unit
2 indoor unit
3 mixed heating/cooling area
4 bypass*
5 Hydraulic separator kit + pump
6 DHW recirculation pump
7 SwitchConnect Wi-Fi receiver
8 Wi-Fi chronothermostat HID-TConnect2



Two-area system + water tank + solar:
Heating / DHW

1 outdoor unit
2 indoor unit
3 heating system
4 bypass*
5 single-area kit
6 DHW boiler
7 DHW recirculation pump
8 solar circulation kit
9 ELFOSun2 solar thermal
10 SwitchConnect Wi-Fi receiver
11 Wi-Fi chronothermostat HID-TConnect2



Single-area system + instantaneous boiler:
Heating / DHW

1 outdoor unit
2 indoor unit
3 instantaneous boiler
4 heating area
5 bypass
6 single-area kit
7 SwitchConnect Wi-Fi receiver
8 Wi-Fi chronothermostat HID-TConnect2

HYDRO-SPLIT INVISIBLE version

WiSAN-YME 1 S + HQCN-NEE 1 IC A
WiSAN-PME 1 S + HQCN-NEE 1 IC

Uncased indoor unit for Hydro-split systems

Can be combined with EDGE EVO 2.0 and EDGE F

ENERGY SAVING
- Solar integration (optional)
- €-Switch

COMFORT
- Hot Cold
- DHW
- Silent

RELIABILITY
- Backup heater (optional)

HEALTH
- Energy renewable (Full electric version)

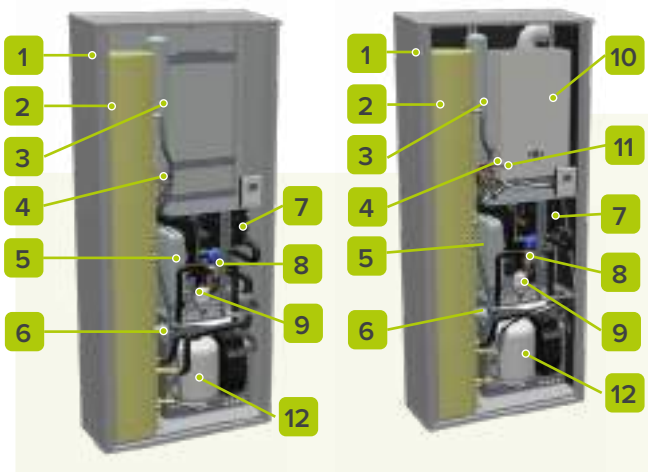
CONVENIENCE
- Weekley Timer
- Integrated DHW tank
- Contemporaneity (Hybrid Version)
- Instant DHW (Hybrid Version)

MANAGEMENT AND CONNECTIVITY
- Input ON/OFF
- Port Modbus
- Control via App
- ELFOControl management
- Clivet Eye monitoring
- User interface / thermostat

- ✓ Ultra thin only 35 cm
- ✓ Complete (deflector filter - expansion vessel - anti-scalding - 15 l inertia)
- ✓ Versatile with a wide range of accessories
- ✓ Aesthetic additional practical cabinet for system accessories for outdoor installation

Installation also visible

The INVISIBLE version is the uncased hydronic module, which makes it possible to have the complete heating and DHW production system inside the wall, without occupying any surface area in the building



1. Visible cabinet
2. Domestic hot water storage tank
3. Sanitary expansion tank
4. Thermostatic anti-scald valve
5. Plant expansion tank
6. Backup electric heater
7. Inertial tank
8. 3-way valve for DHW
9. Magnetic deflector filter+safety valve
10. Condensation boiler with instantaneous DHW
11. Thermostated boiler bypass valve
12. Solar kit (control unit-expansion tank-pump unit)

configurations

CONTROL:

HMIR32 Can be combined with EDGE EVO 2.0

HMIR290 Can be combined with EDGE F

Hybrid version in combination with FE 24.4 and FE 33.4 boiler
(see the relevant paragraph for boiler data)

mandatory accessories

	**ADIX**	Main uncased cabinet
	ACS150X	150 l DHW tank

	**KCIACSX**	DHW storage connection kit

internal accessories

	**AENVX**	Additional aesthetic practical cabinet for system accessories in full view (NEW)
	**DPX**	Template for connecting the additional aesthetic practical cabinet for system accessories in full view
	**KCIACSX**	Storage tank connection kit (Std)
	**KCSX**	Single zone kit
	**KIR2HX**	Hydraulic kit for managing two areas with the same temperature
	KIR2HLX	Hydraulic kit for managing two areas with high and mixed temperature
	**EH246X**	Additional electric heater adjustable to three capacities of 2, 4 or 6 kW
	EH9X	Additional electric heater adjustable to one capacity of 9 kW

	**SICGX**	Intermediate exchanger for glycol circuit (NEW)
	**ACSA150X**	Additional 150 l DHW storage tank
	**ACSA50X**	Additional 50 l DHW storage tank
	**KCI150X**	150 l additional cylinder connection kit
	**ADIAX**	150 l additional DHW storage tank cabinet
	**KCVEX**	Solar controller module + pump + expansion tank
	**SHWTX**	DHW tank with heat exchanger for connection to solar panel
	**ADI50X**	Additional built-in cabinet for storage tank / solar kit
	**KCIBOIX**	Boiler connection kit for instantaneous DHW production

technical data - EASYIn + Edge EVO 2.0 EXC

Size					2.1	3.1	4.1	5.1
Heating	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**4,20 / 5,33**	**6,35 / 7,41**	**8,40 / 9,11**	**10,0 / 10,3**
	COP	Outdoor air 7 °C	Nominal	-	5,10	4,95	5,15	4,95
	Capacity	Water 35/30 °C	Nominal / Maximum	kW	4,70 / 4,99	6,00 / 6,21	7,00 / 7,27	8,00 / 8,31
	COP	Outdoor air -7 °C	Nominal	-	3,10	3,00	3,20	3,05
	Capacity	Water 45/40 °C	Nominal / Maximum	kW	4,30 / 5,96	6,30 / 7,13	8,10 / 8,98	10,0 / 10,3
	COP	Outdoor air 7 °C	Nominal	-	3,80	3,70	3,85	3,75
Cooling	Capacity	Water 18/23 °C	Nominal / Maximum	kW	**4,50 / 7,65**	**6,50 / 7,65**	**8,30 / 11,1**	**9,90 / 12,0**
	EER	Outdoor air 35 °C	Nominal	-	5,50	4,80	5,05	4,55
	Capacity	Water 7/12 °C	Nominal / Maximum	kW	4,70 / 6,14	7,00 / 7,11	7,45 / 7,94	8,20 / 8,67
	EER	Outdoor air 35 °C	Nominal	-	3,45	3,00	3,35	3,25
DHW	Net tank capacity			l	143	143	143	143
	Water mixed at 40 °C (V40)1			l	188	188	188	188
	Heating time			h:min	2:11	2:11	1:47	1:47
Electrical power for meter sizing				kW	2,30	2,70	3,40	3,70
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	**A++**	**A++**	**A++**	**A++**
		Annual energy consumption		-	2.749	3.348	4.064	4.541
		SCOP		-	3,31	3,52	3,37	3,47
		ηs (seasonal output)		%	129	138	131	137
	Heating Water 35 °C	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	2.354	2.849	3.223	3.649
		SCOP		-	4,85	4,95	5,22	5,20
		ηs (seasonal output)		%	191	195	205	205
	DHW	Energy class		-	**A+**	**A+**	**A+**	**A+**
		Withdrawal profile		-	L	L	L	L
Size - Indoor unit					**A**	**A**	**A**	**A**
Power supply		Voltage/Frequency/Phases		V/Hz/n °	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Expansion tank capacity				l	12	12	12	12
Sound power			Nominal	dB(A)	41	41	41	41
Sound pressure @1m			Nominal	dB(A)	26	26	26	26

Boiler - Hybrid version					GAS BOILER FE 24.4	GAS BOILER FE 24.4	GAS BOILER FE 24.4	GAS BOILER FE 24.4
Boiler	Nominal Heating capacity ((LHV)	Water 80/60 °C	Nominal	kW	24,0	24,0	24,0	24,0
	Efficiency		Nominal	%	97,8	97,8	97,8	97,8
Power supply		Voltage/Frequency/Phases		V/Hz/n °	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Power input			Water content	W	82	82	82	82
Sound power			Nominal	dB(A)	49	49	49	49
Size - Outdoor unit					**2.1**	**3.1**	**4.1**	**5.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n °	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Water flow-rate		Water 35/30 °C	Nominal	l/s	0,20	0,30	0,40	0,48
Pump available pressure		Outdoor air 7 °C	Nominal	kPa	85	84	80	71
Minimum system water content				l	30	30	40	40
Expansion tank capacity				l	4,8	4,8	4,8	4,8
Sound power			Minimum / Nominal	dB(A)	53 / 55	55 / 58	54 / 59	55 / 60
Sound pressure @1m			Nominal	dB(A)	45	47	48	50

Operating range								
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating / DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43	-25 / 43
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43	-5 / 43

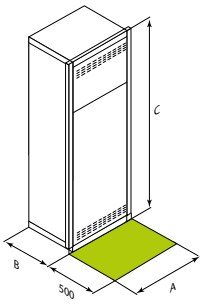
Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281). Energy classes with Control4 NRG system control

(1) Data according to EN 16147: amount of water at 40 °C with the same enthalpy content as the water coming out of the Boiler at a temperature higher than 40 °C

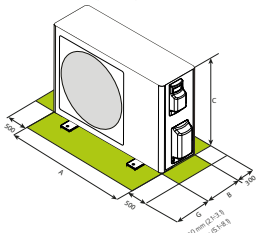
dimensions and connections

Size				2.1	3.1	4.1	5.1
Dimensions	Indoor unit	AxCxB	mm	950x2.200x360	950x2.200x360	950x2.200x360	950x2.200x360
	Outdoor unit	AxCxB	mm	1.295x717x400	1.295x717x400	1.385x864x445	1.385x864x445
Operating weight	Indoor unit		kg	317	317	317	317
	Boiler		kg	31	31	31	31
	Outdoor unit		kg	86	86	105	105
Refrigerant charge			type / GWP	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675
			kg	1,40	1,40	1,40	1,40
			CO_2 tons	0,95	0,95	0,95	0,95
	Indoor unit	Water (System)	inch	1”	1”	1”	1”
		Water (DHW)	inch	3/4”	3/4”	3/4”	3/4”
	Outdoor unit	Water (System)	inch	1”	1”	1 1/4”	1 1/4”
	Boiler Hybrid version	Gas	inch	3/4”	3/4”	3/4”	3/4”
		Intake air	mm	80	80	80	80
		Exhaust gas	mm	80	80	80	80

HQCN-NEE 1 IC
Indoor unit (IDU)



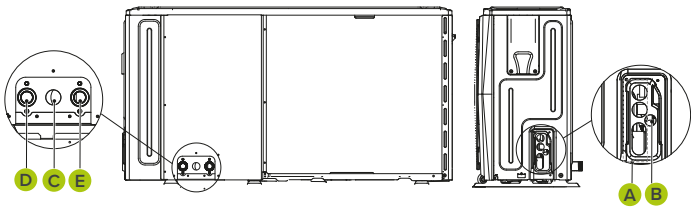
WiSAN-YME
Outdoor unit (ODU)



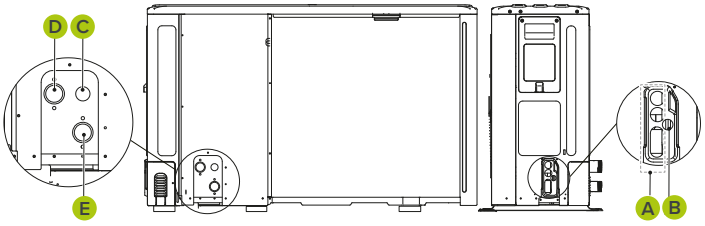
E = 500 mm
F = 500 mm
G = 1000 mm (2.1÷3.1)
H = 300 mm

For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

SIZES 2.1 to 3.1



SIZE 4.1 ÷ 5.1



A. Hole for high voltage cable (power supply)
B. Hole for low pressure cable (control and signal cables)
C. Hole for discharge pipe
D. Water outlet
E. Water inlet

technical data - EASYIn + Edge F

Size					2.1	3.1	4.1	5.1
Heating	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**4,50 / 6,86**	**6,20 / 7,70**	**8,40 / 10,4**	**10,0 / 11,0**
	COP	Outdoor air 7 °C	Nominal	-	5,15	4,90	5,00	4,70
	Capacity	Water 35/30 °C	Nominal / Maximum	kW	4,50 / 5,56	5,90 / 6,18	7,00 / 8,74	8,00 / 8,89
	COP	Outdoor air -7 °C	Nominal	-	3,10	2,95	3,00	2,85
	Capacity	Water 45/40 °C	Nominal / Maximum	kW	4,50 / 6,55	6,40 / 7,35	8,20 / 9,57	10,0 / 10,5
	COP	Outdoor air 7 °C	Nominal	-	4,05	3,80	3,85	3,65
Cooling	Capacity	Water 18/23 °C	Nominal / Maximum	kW	**4,50 / 7,84**	**6,50 / 9,75**	**8,30 / 11,4**	**10,0 / 12,1**
	EER	Outdoor air 35 °C	Nominal	-	5,50	5,10	5,15	4,75
	Capacity	Water 7/12 °C	Nominal / Maximum	kW	4,70 / 5,66	6,80 / 7,14	7,50 / 8,19	8,90 / 8,90
	EER	Outdoor air 35 °C	Nominal	-	3,65	3,10	3,45	3,25
DHW	Net tank capacity			l	143	143	143	143
	Water mixed at 40 °C (V40)			l	188	188	188	188
	Heating time			h:min	02:11	02:11	01:47	01:47
Electrical power for meter sizing				kW	2,70	3,00	3,60	3,90
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	**A++**	**A++**	**A++**	**A++**
		Annual energy consumption		-	2.684	3.164	3.676	4.215
		SCOP		-	3,79	3,81	3,81	3,82
		ηs (seasonal output)		%	148,7	149,7	149,7	149,8
	Heating Water 35 °C	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	2.040	2.692	3.187	3.734
		SCOP		-	5,09	4,91	5,20	5,07
		ηs (seasonal output)		%	200,7	193,5	204,8	199,8
	DHW	Energy class		-	**A+**	**A+**	**A+**	**A+**
		Withdrawal profile		-	L	L	L	L
Size - Indoor unit					**A**	**A**	**A**	**A**
Power supply		Voltage/Frequency/Phases		V/Hz/n °	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Expansion tank capacity				l	12	12	12	12
Sound power			Nominal	dB(A)	41	41	41	41
Sound pressure @1m			Nominal	dB(A)	26	26	26	26

Boiler - Hybrid version					GAS BOILER FE 24.4			
Boiler	Nominal Heating capacity ((LHV)	Water 80/60 °C	Nominal	kW	24,0	24,0	24,0	24,0
	Efficiency		Nominal	%	97,8	97,8	97,8	97,8
Power supply		Voltage/Frequency/Phases		V/Hz/n °	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Power input			Water content	W	82	82	82	82
Sound power			Nominal	dB(A)	49	49	49	49
Size - Outdoor unit					**2.1**	**3.1**	**4.1**	**5.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n °	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Water flow-rate		Water 35/30 °C	Nominal	l/s	0,21	0,30	0,40	0,48
Pump available pressure		Outdoor air 7 °C	Nominal	kPa	89	87	80	71
Minimum system water content				l	30	30	40	40
Expansion tank capacity				l	8	8	8	8
Sound power			Minimum / Nominal	dB(A)	51 / 56	53 / 58	55 / 60	56 / 61
Sound pressure @1m			Minimum / Nominal	dB(A)	40 / 44	42 / 46	42 / 48	43 / 49

Operating range								
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating / DHW	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 46	-25 / 46	-25 / 46	-25 / 46
	Cooling	-	Minimum / Maximum	°C	-5 / 46	-5 / 46	-5 / 46	-5 / 46

Data according to EN 14511:2018 and EN 14825:2016

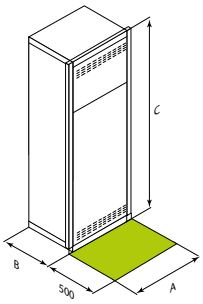
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281). Energy classes with Control4 NRG system control

(1) Data according to EN 16147: amount of water at 40 °C with the same enthalpy content as the water coming out of the Boiler at a temperature higher than 40 °C

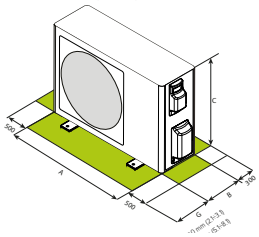
dimensions and connections

Size				2.1	3.1	4.1	5.1
Dimensions	Indoor unit	AxCxB	mm	950x2.200x360	950x2.200x360	950x2.200x360	950x2.200x360
	Outdoor unit	AxCxB	mm	1.295x718x381	1.295x718x381	1.385x865x423	1.385x865x423
Operating weight	Indoor unit		kg	317	317	317	317
	Boiler		kg	31	31	31	31
	Outdoor unit		kg	90	90	117	117
Refrigerant charge			type / GWP	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02
			kg	0,70	0,70	1,10	1,10
			CO_2 tons	0,002	0,002	0,003	0,003
	Indoor unit	Water (System)	inch	1”	1”	1”	1”
		Water (DHW)	inch	3/4”	3/4”	3/4”	3/4”
	Outdoor unit	Water (System)	inch	1”	1”	1” 1/4	1” 1/4
	Boiler Hybrid version	Gas	inch	3/4”	3/4”	3/4”	3/4”
		Intake air	mm	80	80	80	80
		Exhaust gas	mm	80	80	80	80

HQCN-NEE 1 IC
Indoor unit (IDU)



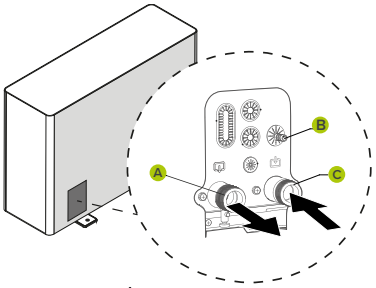
WiSAN-PME 1 S
Outdoor unit (ODU)



E = 500 mm
F = 500 mm
G = 1000 mm (2.1÷3.1)
H = 300 mm

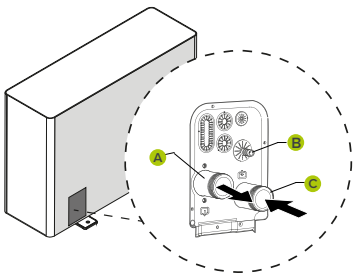
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

SIZES 2.1 to 3.1



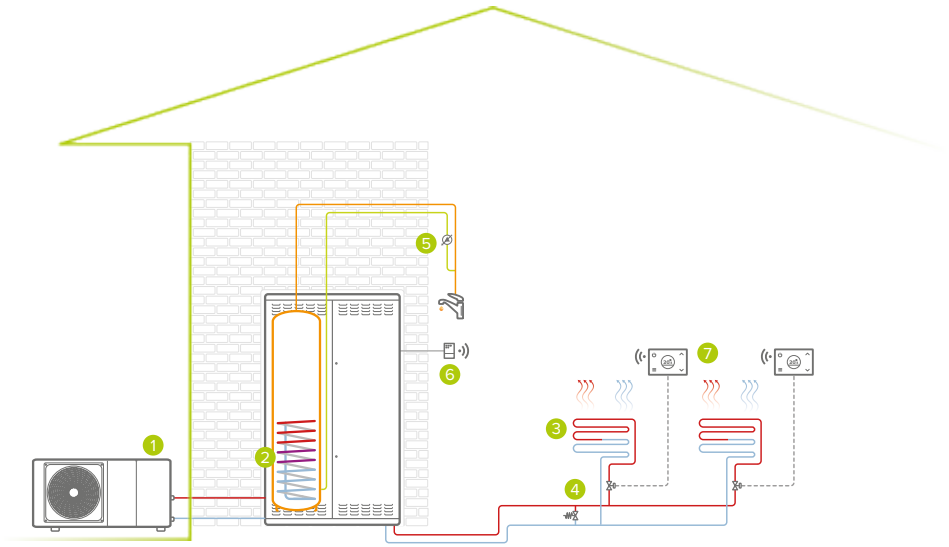
A. 1” system supply
B. Pressure relief valve Ø 16 mm
C. 1” system return

SIZE 4.1 ÷ 5.1



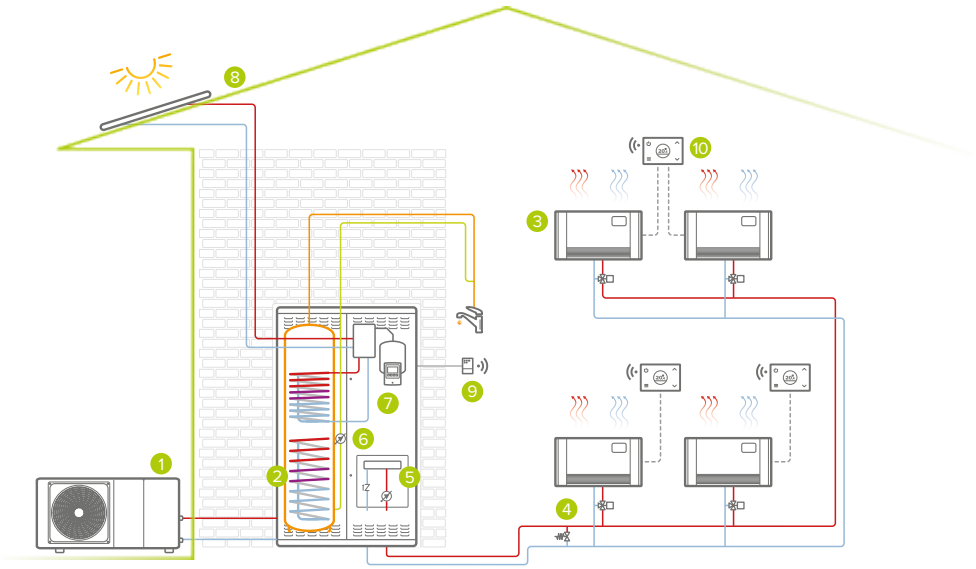
A. System supply 1 1/4"
B. Pressure relief valve Ø 16 mm
C. System return 1 1/4"

system diagrams



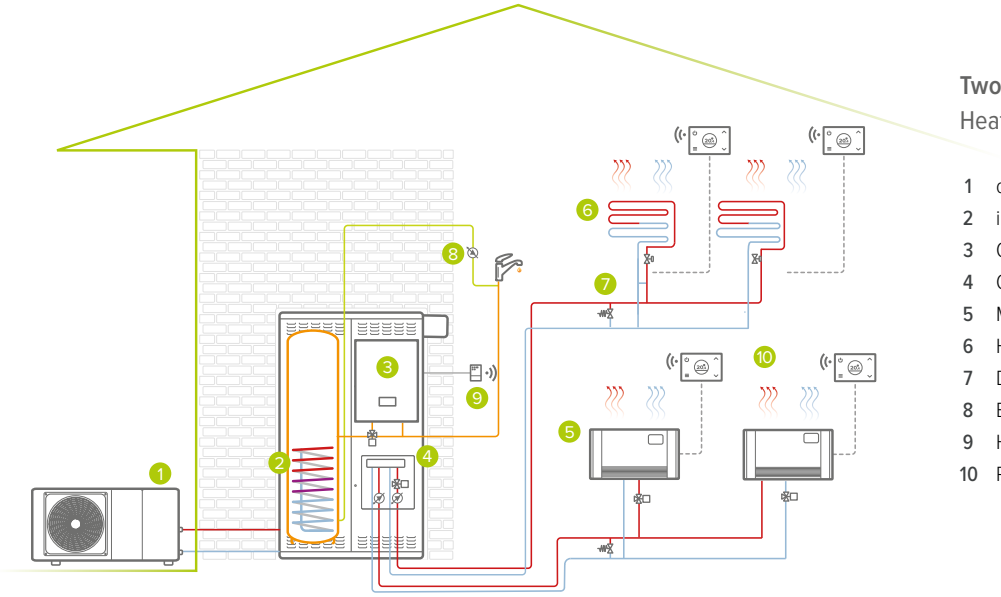
Single-zone system:
Heating / DHW

1 outdoor unit
2 indoor unit
3 heating area
4 Bypass
5 DHW recirculation pump
6 Receiver / IoT switch SwitchConnect
7 Hid-TConnect2 chronothermostat



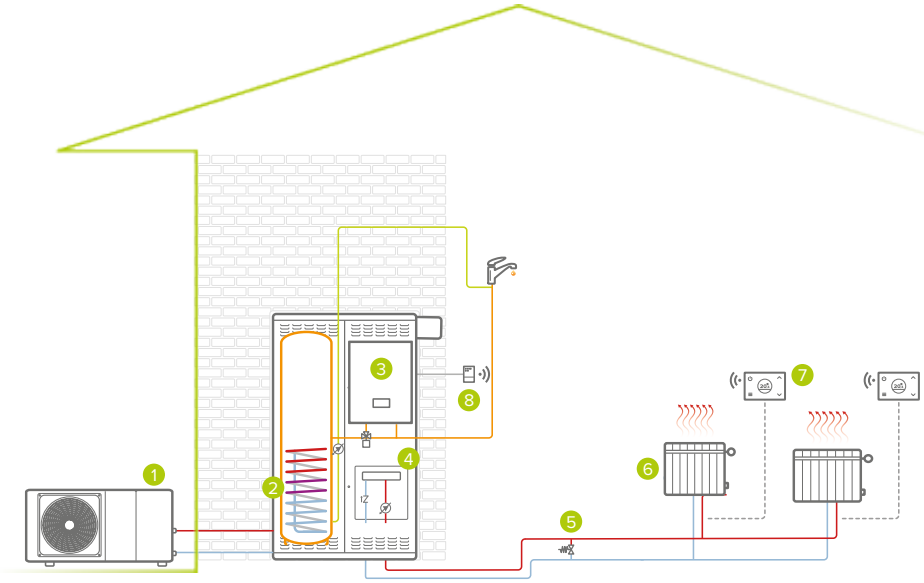
Single-zone + solar system:
Heating / DHW

1 outdoor unit
2 indoor unit
3 cooling zone
4 Bypass
5 Single zone kit circuit breaker + pump
6 DHW recirculation pump
7 solar connection kit
8 ELFOSun thermal soalre
9 Receiver / IoT switch SwitchConnect
10 Hid-TConnect2 chronothermostat



Two-zone system + boiler:
Heating / DHW

1 outdoor unit
2 indoor unit
3 Condensing boiler
4 Circuit breaker two-area kit + pump
5 Medium temperature heating system
6 High temperature heating system
7 DHW recirculation pump
8 Bypass
9 Hid-TConnect2 chronothermostat
10 Receiver / IoT switch SwitchConnect



Single-zone system + boiler + instant kit:
Heating / DHW

1 outdoor unit
2 indoor unit
3 Condensing boiler
4 Circuit breaker two-area kit + pump
5 Medium temperature heating system
6 DHW recirculation pump
7 Bypass
8 Hid-TConnect2 chronothermostat
9 Receiver / IoT switch SwitchConnect

HYDRO-SPLIT MINI version

WISAN-YME 1 S + HQCN-NEE 1 MC A
WISAN-PME 1 S + HQCN-NEE 1 MC

Wall-mounted indoor unit with DHW tank for Hydro-split systems

Can be combined with EDGE EVO 2.0 and EDGE F

ENERGY SAVING
- Cascade

COMFORT
- Hot Cold
- DHW
- Silent

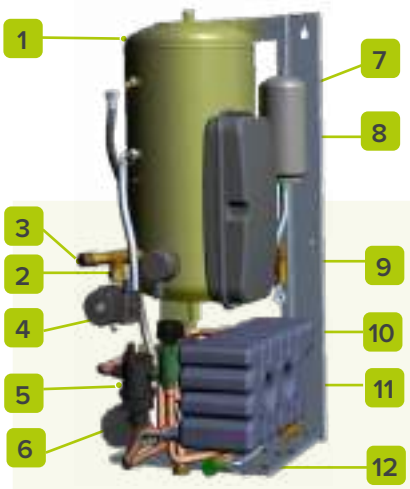
CONVENIENCE
- Weekley Timer
- Integrated DHW tank

MANAGEMENT AND CONNECTIVITY
- Input ON/OFF
- Port Modbus
- Control via App
- Management CONTROL4 NRG
- Clivet Eye monitoring
- User interface / thermostat

- ✓ 50 l DHW storage tank
- ✓ Complete unit
- ✓ Integrated hydraulic separator
- ✓ Can be combined with EDGE outdoor units
- ✓ Reduced space requirements
- ✓ Easy installation

Versatile to suit every type of system

Hydronic version MINI modules are designed to be combined with the EDGE family of packaged heat pumps.
In addition to the DHW tank, they contain a 15-litre buffer tank, magnetic baffle filter, system expansion tank and anti-burn valve as standard.



1. 50-litre domestic water tank
2. Backup electric heater
3. System pressure relief valve
4. Domestic water circuit circulator
5. Magnetic deflector filter+safety valve
6. Hydraulic separator with secondary pump
7. Health expansion tank
8. System expansion tank
9. Health safety valve
10. Inertial tank
11. 3-way valve for DHW
12. Anti-scalding valve

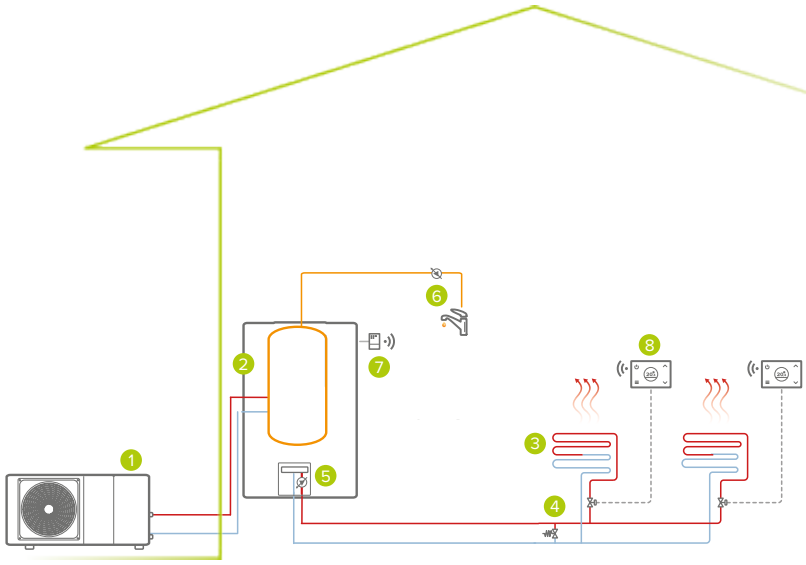
configurations

CONTROL:

HMIR32 Can be combined with EDGE EVO 2.0

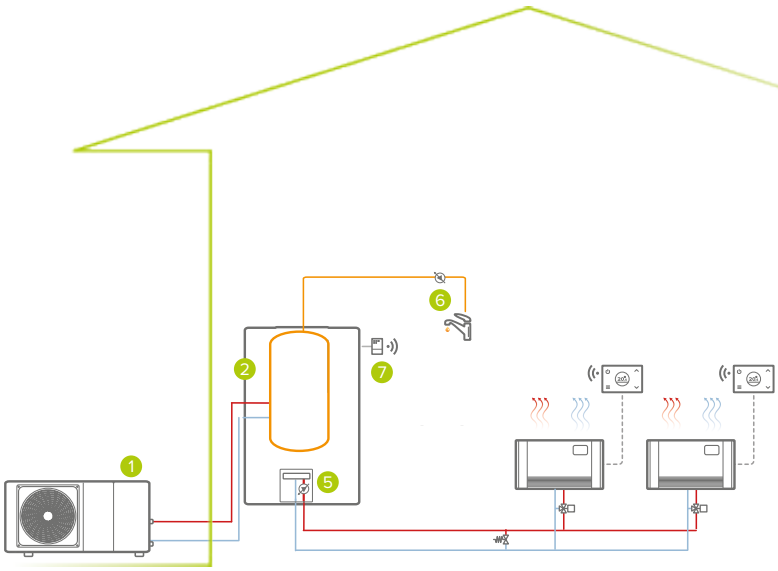
HMIR290 Can be combined with EDGE F

system diagrams



Single booster single-area system:
Heating / DHW

1. outdoor unit
2. indoor unit
3. heating area
4. bypass*
5. hydraulic separator single-area kit plus pump
6. DHW recirculation pump
7. SwitchConnect Wi-Fi receiver
8. Wi-Fi chronothermostat HID-TConnect2



Single booster single-area system:
Heating / DHW

1. outdoor unit
2. indoor unit
3. heating area
4. bypass*
5. hydraulic separator single-area kit plus pump
6. DHW recirculation pump
7. SwitchConnect Wi-Fi receiver
8. Wi-Fi chronothermostat HID-TConnect2

technical data - EASYMINI + Edge EVO 2.0

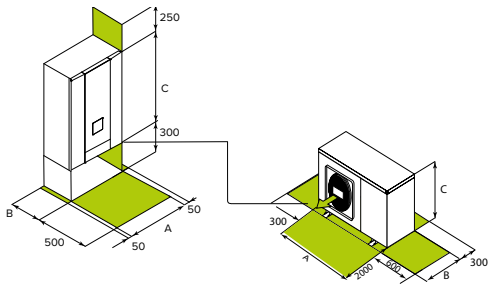
Size - Set					2.1	3.1	4.1	5.1	6.1	7.1	8.1
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**4,20 / 5,33**	**6,35 / 7,41**	**8,40 / 9,11**	**10,0 / 10,3**	**12,1 / 14,6**	**14,5 / 15,5**	**15,9 / 16,8**
	COP	Outdoor air 7°C	Nominal	-	5,10	4,95	5,15	4,95	4,95	4,60	4,50
	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,70 / 4,99	6,00 / 6,21	7,00 / 7,27	8,00 / 8,31	10,0 / 11,0	12,0 / 12,7	13,1 / 13,9
	COP	Outdoor air -7°C	Nominal	-	3,10	3,00	3,20	3,05	3,00	2,85	2,70
	Capacity	Water 45/40°C	Nominal / Maximum	kW	4,30 / 5,96	6,30 / 7,13	8,10 / 8,98	10,0 / 10,3	12,3 / 14,5	14,1 / 15,7	16,0 / 16,6
	COP	Outdoor air 7°C	Nominal	-	3,80	3,70	3,85	3,75	3,70	3,60	3,50
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**4,50 / 7,65**	**6,50 / 7,65**	**8,30 / 11,1**	**9,90 / 12,0**	**12,0 / 15,0**	**13,5 / 15,3**	**14,2 / 16,4**
	EER	Outdoor air 35°C	Nominal	-	5,50	4,80	5,05	4,55	3,95	3,61	3,61
	Capacity	Water 7/12°C	Nominal / Maximum	kW	4,70 / 6,14	7,00 / 7,11	7,45 / 7,94	8,20 / 8,67	11,5 / 11,5	12,4 / 12,4	14,0 / 14,0
	EER	Outdoor air 35°C	Nominal	-	3,45	3,00	3,35	3,25	2,75	2,50	2,50
DHW	Net tank capacity			l	50	50	50	50	50	50	50
	Water mixed at 40 °C (V40)			l	62	62	62	62	62	62	62
	Heating time			h:min	00:55	00:55	00:42	00:42		00:36	
Electrical power for meter sizing				kW	2,30	2,70	3,40	3,70	5,50	5,80	6,20
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**
		Annual energy consumption		-	2.749	3.348	4.064	4.541	6.916	6.917	7.213
		SCOP		-	3,31	3,52	3,37	3,47	3,45	3,47	3,41
		ηs (seasonal output)		%	129	138	131	137	135	135	133
	Heating Water 35°C	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	2.354	2.849	3.223	3.649	5.156	5.157	6.011
		SCOP		-	4,85	4,95	5,22	5,20	4,81	4,72	4,62
		ηs (seasonal output)		%	191	195	205	205	189	186	182
Size - Indoor unit					**A**	**A**	**A**	**A**	**A**	**A**	**A**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
System expansion tank capacity				l	8	8	8	8	8	8	8
DHW expansion tank capacity				l	3	3	3	3	3	3	3
Sound power			Nominal	dB(A)	41	41	41	41	41	41	41
Sound pressure @1m			Nominal	dB(A)	26	26	26	26	26	26	26
Size - Outdoor unit					**2.1**	**3.1**	**4.1**	**5.1**	**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Water flow-rate		Water 35/30°C	Nominal	l/s	0,20	0,30	0,40	0,48	0,58	0,69	0,76
Pump available pressure		Outdoor air 7°C	Nominal	kPa	85	84	80	71	60	48	40
Expansion tank capacity				l	4,8	4,8	4,8	4,8	4,8	4,8	4,8
Minimum system water content				l	30	30	40	40	40	40	40
Sound power			Minimum / Nominal	dB(A)	53 / 55	55 / 58	54 / 59	55 / 60	59 / 65	59 / 65	59 / 68
Sound pressure @1m			Nominal	dB(A)	45	47	48	50	53	57	44 / 53
Operating range											
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating / DHW	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43

dimensions and connections

Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1
	Indoor unit	AxCxB	mm	450 x 1100 x 550	450 x 1100 x 550	450 x 1100 x 550	450 x 1100 x 550	450 x 1100 x 550	450 x 1100 x 550	450 x 1100 x 550
	Outdoor unit	AxCxB	mm	1.295x717x400	1.295x717x400	1.385x864x445	1.385x864x445	1.385x864x445	1.385x864x445	1.385x864x445
Operating weight	Indoor unit		kg	130	130	130	130	130	130	130
	Outdoor unit		kg	86	86	105	105	129	129	129
Refrigerant charge			type / GWP	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675
			kg	1,40	1,40	1,40	1,40	1,75	1,75	1,75
			CO_2 tons	0,95	0,95	0,95	0,95	1,18	1,18	1,18
External dia-meters	Indoor unit	Water (System)	inch	1"	1"	1"	1"	1"	1"	1"
		Water (DHW)	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	Outdoor unit	Water (System)	inch	1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4

HQCN-NEE 1 MC A

Indoor unit (IDU)



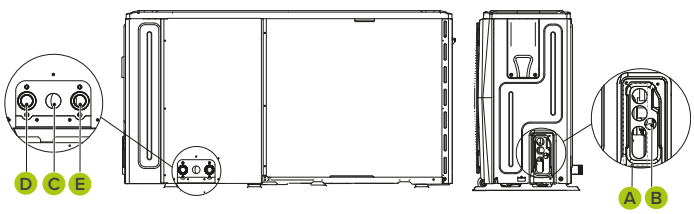
WiSAN-YME 1 S

Outdoor unit (ODU)

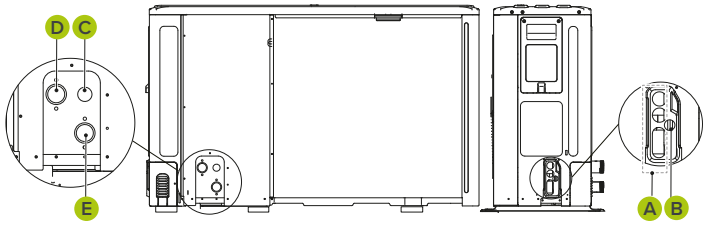
Size - Set					6.1	7.1	8.1
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**12,1 / 14,6**	**14,5 / 15,5**	**15,9 / 16,8**
	COP	Outdoor air 7°C	Nominal	-	4,95	4,60	4,50
	Capacity	Water 35/30°C	Nominal / Maximum	kW	10,0 / 11,0	12,0 / 12,7	13,1 / 13,9
	COP	Outdoor air -7°C	Nominal	-	3,00	2,85	2,70
	Capacity	Water 45/40°C	Nominal / Maximum	kW	12,3 / 14,5	14,1 / 15,7	16,0 / 16,6
	COP	Outdoor air 7°C	Nominal	-	3,70	3,60	3,50
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**12,0 / 15,0**	**13,5 / 15,3**	**14,2 / 16,4**
	EER	Outdoor air 35°C	Nominal	-	3,95	3,61	3,61
	Capacity	Water 7/12°C	Nominal / Maximum	kW	11,5 / 11,5	12,4 / 12,4	14,0 / 14,0
	EER	Outdoor air 35°C	Nominal	-	2,75	2,50	2,50
DHW	Net tank capacity			l	50	50	50
	Water mixed at 40 °C (V40)			l	62	62	62
	Heating time			h:min	00:36	00:36	00:36
Electrical power for meter sizing				kW	5,50	5,80	6,20
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**
		Annual energy consumption		-	6.916	6.917	7.213
		SCOP		-	3,45	3,47	3,41
		ηs (seasonal output)		%	135	135	133
	Heating Water 35°C	Energy class		-	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	5.156	5.157	6.011
		SCOP		-	4,81	4,72	4,62
		ηs (seasonal output)		%	189	186	182
Size - Indoor unit					**A**	**A**	**A**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	220-240/50/1	220-240/50/1	220-240/50/1
System expansion tank capacity				l	8	8	8
DHW expansion tank capacity				l	3	3	3
Sound power			Nominal	dB(A)	41	41	41
Sound pressure @1m			Nominal	dB(A)	26	26	26
Size - Outdoor unit					**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	380-415/50/3+N	380-415/50/3+N	380-415/50/3+N
Water flow-rate		Water 35/30°C	Nominal	l/s	0,58	0,69	0,76
Pump available pressure		Outdoor air 7°C	Nominal	kPa	60	48	40
Expansion tank capacity				l	4,8	4,8	4,8
Minimum system water content				l	40	40	40
Sound power			Minimum / Nominal	dB(A)	59 / 65	59 / 65	59 / 68
Sound pressure @1m			Nominal	dB(A)	53	54	58
Operating range							
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating / DHW	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43

Size				6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	450 x 1100 x 550	450 x 1100 x 550	450 x 1100 x 550
	Outdoor unit	AxCxB	mm	1.385x864x445	1.385x864x445	1.385x864x445
Operating weight	Indoor unit		kg	130	130	130
	Outdoor unit		kg	144	144	144
Refrigerant charge[1]			type / GWP	R-32 / 675	R-32 / 675	R-32 / 675
			kg	1,75	1,75	1,75
			CO_2 tons	1,18	1,18	1,18
External diameters	Indoor unit	Water (System)	inch	1"	1"	1"
		Water (DHW)	inch	1/2"	1/2"	1/2"
	Outdoor unit	Water (System)	inch	1" 1/4	1" 1/4	1" 1/4

SIZES 2.1 to 3.1



SIZES 4.1 to 8.1



A. Hole for high voltage cable (power supply)

B. Hole for low pressure cable (control and signal cables)

C. Hole for discharge pipe

D. Water outlet

E. Water inlet

technical data - EASYMINI + Edge F

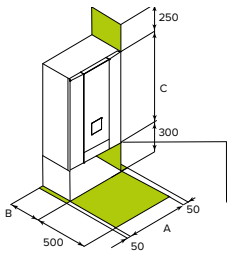
Size - Set					2.1	3.1	4.1	5.1	6.1	7.1	8.1
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**4,50 / 6,86**	**6,20 / 7,70**	**8,40 / 10,4**	**10,0 / 11,0**	**12,0 / 14,7**	**14,0 / 16,0**	**15,0 / 17,6**
	COP	Outdoor air 7°C	Nominal	-	5,15	4,90	5,00	4,70	4,80	4,50	4,40
	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,50 / 5,56	5,90 / 6,18	7,00 / 8,74	8,00 / 8,89	10,0 / 11,1	11,0 / 12,1	11,5 / 13,2
	COP	Outdoor air -7°C	Nominal	-	3,10	2,95	3,00	2,85	2,80	2,75	2,70
	Capacity	Water 45/40°C	Nominal / Maximum	kW	4,50 / 6,55	6,40 / 7,35	8,20 / 9,57	10,0 / 10,5	12,0 / 14,1	14,0 / 15,3	15,0 / 16,9
	COP	Outdoor air 7°C	Nominal	-	4,05	3,80	3,85	3,65	3,70	3,50	3,35
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**4,90 / 7,84**	**5,90 / 9,75**	**6,80 / 11,4**	**7,80 / 12,13**	**12,0 / 16,4**	**13,0 / 17,3**	**14,4 / 18,6**
	EER	Outdoor air 35°C	Nominal	-	5,50	5,10	5,15	4,75	4,50	4,20	3,90
	Capacity	Water 7/12°C	Nominal / Maximum	kW	4,70 / 5,66	6,80 / 7,14	7,50 / 8,19	8,76 / 8,76	11,5 / 12,0	12,7 / 12,7	14,0 / 14,3
	EER	Outdoor air 35°C	Nominal	-	3,65	3,10	3,45	3,01	3,05	2,90	2,75
DHW	Net tank capacity			l	50	50	50	50	50	50	50
	Water mixed at 40 °C (V40)			l	62	62	62	62	62	62	62
	Heating time			h:min	00:39	00:39	00:29	00:29	00:23	00:23	00:23
Electrical power for meter sizing				kW	2,70	3,00	3,60	3,90	5,70	6,00	6,40
Seasonal efficiency Medium climate		Energy class		-	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**
	Heating Water 55°C	Annual energy consumption		-	2.684	3.164	3.676	4.215	6.847	7.414	8.349
		SCOP		-	3,79	3,81	3,81	3,82	3,62	3,62	3,57
		ηs (seasonal output)		%	148	150	150	150	142	142	140
		Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**
	Heating Water 35°C	Annual energy consumption		-	2.040	2.692	3.187	3.734	5.376	6.091	6.630
		SCOP		-	5,09	4,91	5,20	5,07	4,68	4,64	4,59
		ηs (seasonal output)		%	201	194	205	200	184	182	181
Size - Indoor unit					**TO**	**TO**	**TO**	**TO**	**TO**	**TO**	**TO**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
System expansion tank capacity				l	8	8	8	8	8	8	8
DHW expansion tank capacity				l	3	3	3	3	3	3	3
Sound power			Nominal	dB(A)	41	41	41	41	41	41	41
Sound pressure @1m			Nominal	dB(A)	26	26	26	26	26	26	26
Size - Outdoor unit					**2.1**	**3.1**	**4.1**	**5.1**	**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
Water flow-rate		Water 35/30°C	Nominal	l/s	0,21	0,30	0,40	0,48	0,57	0,67	0,71
Pump available pressure		Outdoor air 7°C	Nominal	kPa	89	87	80	71	63	54	49
Expansion tank capacity				l	8	8	8	8	8	8	8
Minimum system water content				l	30	30	40	40	40	40	40
Sound power			Minimum / Nominal	dB(A)	51 / 56	53 / 58	55 / 60	56 / 61	58 / 65	59 / 65	60 / 69
Sound pressure @1m			Minimum / Nominal	dB(A)	40 / 44	42 / 46	42 / 48	43 / 49	43 / 51	44 / 52	48 / 56
Operating range											
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43

dimensions and connections

Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	450 x 1100 x 550	450 x 1100 x 550	450 x 1100 x 550	450 x 1100 x 550	450 x 1100 x 550	450 x 1100 x 550	450 x 1100 x 550
	Outdoor unit	AxCxB	mm	1.295x718x386	1.295x718x386	1.385x865x423	1.385x865x423	1.385x865x423	1.385x865x423	1.385x865x423
Operating weight	Indoor unit		kg	130	130	130	130	130	130	130
	Outdoor unit		kg	90	90	117	117	135	135	135
Refrigerant charge			type / GWP	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02
			kg	0,70	0,70	1,10	1,10	1,25	1,25	1,25
			CO_2 tons	0,002	0,002	0,003	0,003	0,004	0,004	0,004
External diameters	Indoor unit	Water (System)	inch	1"	1"	1"	1"	1"	1"	1"
		Water (DHW)	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	Outdoor unit	Water (System)	inch	1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4

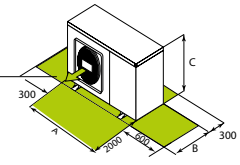
HQCN-NEE 1 MC A

Indoor unit (IDU)



WiSAN-PME 1 S

Outdoor unit (ODU)

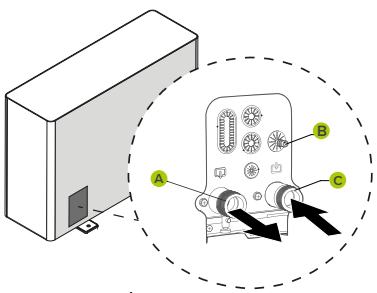


For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

Size - Set					6.1	7.1	8.1
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**12,0 / 14,7**	**14,0 / 16,0**	**15,0 / 17,6**
	COP	Outdoor air 7°C	Nominal	-	4,80	4,50	4,40
	Capacity	Water 35/30°C	Nominal / Maximum	kW	10,0 / 11,1	11,0 / 12,1	11,5 / 13,2
	COP	Outdoor air -7°C	Nominal	-	2,80	2,75	2,70
	Capacity	Water 45/40°C	Nominal / Maximum	kW	12,0 / 14,1	14,0 / 15,3	15,0 / 16,9
	COP	Outdoor air 7°C	Nominal	-	3,70	3,50	3,35
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**12,0 / 16,4**	**13,0 / 17,3**	**14,4 / 18,6**
	EER	Outdoor air 35°C	Nominal	-	4,50	4,20	3,90
	Capacity	Water 7/12°C	Nominal / Maximum	kW	11,5 / 12,0	12,7 / 12,7	14,0 / 14,3
	EER	Outdoor air 35°C	Nominal	-	3,05	2,90	2,75
DHW	Net tank capacity			l	50	50	50
	Water mixed at 40 °C (V40)			l	62	62	62
	Heating time			h:min	00:23	00:23	00:23
Electrical power for meter sizing				kW	5,70	6,00	6,40
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**
		Annual energy consumption		-	6.847	7.414	8.349
		SCOP		-	3,62	3,62	3,57
		ηs (seasonal output)		%	142	142	140
	Heating Water 35°C	Energy class		-	**A+++**	**A+++**	**A+++**
		Annual energy consumption		-	5.376	6.091	6.630
		SCOP		-	4,68	4,64	4,59
		ηs (seasonal output)		%	184	182	181
Size - Indoor unit					**TO**	**TO**	**TO**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	220-240/50/1	220-240/50/1	220-240/50/1
System expansion tank capacity				l	8	8	8
DHW expansion tank capacity				l	3	3	3
Sound power			Nominal	dB(A)	41	41	41
Sound pressure @1m			Nominal	dB(A)	26	26	26
Size - Outdoor unit					**6.1**	**7.1**	**8.1**
Power supply		Voltage/Frequency/Phases		V/Hz/n°		380-415/50/3+N	
Water flow-rate		Water 35/30°C	Nominal	l/s	0,57	0,67	0,71
Pump available pressure		Outdoor air 7°C	Nominal	kPa	63	54	49
Minimum system water content				l	40	40	40
Expansion tank capacity				l	8 (Odu)	8 (Odu)	8 (Odu)
Sound power			Minimum / Nominal	dB(A)	58 / 65	59 / 65	60 / 69
Sound pressure @1m			Minimum / Nominal	dB(A)	43 / 51	44 / 52	48 / 56
Operating range							
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75
	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43
	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43

Size				6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	-	-	-
	Outdoor unit	AxCxB	mm	1.385x865x423	1.385x865x423	1.385x865x423
Operating weight	Indoor unit		kg	130	130	130
	Outdoor unit		kg	135	135	135
Refrigerant charge			type / GWP	R-290 / 3	R-290 / 3	R-290 / 3
			kg	1,25	1,25	1,25
			CO_2 tons	0,004	0,004	0,004
Equivalent pipe length with pre-charging only			m			
External diameters	Indoor unit	Water (System)	inch	1"	1"	1"
		Water (DHW)	inch	1/2"	1/2"	1/2"
	Outdoor unit	Water (System)	inch	1" 1/4	1" 1/4	1" 1/4

SIZES 2.1 to 3.1

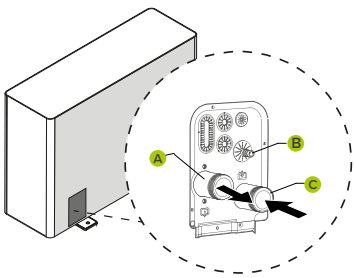


A. 1" system supply

B. Pressure relief valve Ø 16 mm

C. 1" system return

SIZES 4.1 to 8.1



A. System supply 1 1/4"

B. Pressure relief valve Ø 16 mm

C. System return 1 1/4"

GAS BOILER FE 24.4-33.4

Instantaneous wall-mounted condensing boiler for stand-alone systems

COMFORT

DHW

High temperature

CONVENIENCE

DHW instantaneous

MANAGEMENT AND CONNECTIVITY

Imput ON/OFF

- ✓ Ideal for stand-alone systems
- ✓ Heat pump stand-by / replacement / back-up operation
- ✓ Management with ON/OFF signal
- ✓ LPG or methane supply
- ✓ Instant DHW production

The €/Switch function

Factory made hybrids have a function that can be selected directly from the interface, which makes it possible to calculate the resource (heat pump and/or boiler) that is able to fulfil the heat demand with the lowest economic cost in every operating condition. To use the €-Switch function, simply enter the cost per kWh of electricity and the cost per m³ of methane gas from the energy provider's supply contract, and define the main type of terminals in the building (radiant panel, fan coil, radiator)

accessories

	KCSAFX	Vertical coaxial fitting for smoke intake and discharge (d. 60/100 mm)
	CCOAX	90° coaxial curve for suction and flue gas discharge, 360° adjustable (d. 60/100 mm)
	TCOAX	1 m coaxial pipe with terminal (d. 60/100 mm)

	KSDFX	Splitter for suction and flue gas discharge (d. 80/80 mm)
	KISX	Kit di installazione semplificata con raccordi per SPHERA EVO 2.0 Box Hybrid

GAS BOILER UC 33.4÷200F.2

(33.4 while stocks last)

Instantaneous wall-mounted condensing boiler (33,4)
Wall-mounted condensing boiler for heating only (70.2-115.2)
Floor-standing condensing boiler for heating only (200F.2)

COMFORT

DHW *(33.4)*

High temperature

CONVENIENCE

DHW instantaneous

MANAGEMENT AND CONNECTIVITY

Imput ON/OFF

Port Modbus *(optional with HIDUCX for 70.2-115.2, standard for 200F.2)*

Input 0-10V *(70.2-200F.2)*

- ✓ Dedicated versions for stand-alone and centralised systems
- ✓ Heat pump stand-by / replacement / back-up operation
- ✓ Management with ON/OFF signal and 0-10V signal
- ✓ LPG or methane supply
- ✓ Instant DHW production

accessories

	**KCSAFX**	Vertical coaxial fitting for smoke intake and discharge (d. 60/100 mm) (Gas Boiler UC 33.4)
	**CCOAX**	90° coaxial curve for suction and flue gas discharge, 360° adjustable (d. 60/100 mm) (Gas Boiler UC 33.4)
	TCOAX	1 m coaxial pipe with terminal (d. 60/100 mm)
	**KAS80X** *(to exhaustion)*	Fittings for suction and flue gas discharge (2 x d. 80 mm) (Gas Boiler UC 33.4)

	**INAILX**	Safety kit for single gas boiler installation (Gas Boiler UC 70.2-115.2- 200F.2)
	**FH100X**	Vertical flue gas discharge terminal (d. 100 mm) (Gas Boiler UC 115.2- 200F.2)
	**HIDUCX**	Remote control for boilers (Gas Boiler UC 70.2-115.2)
	**KISX**	Kit di installazione semplificata con raccordi per SPHERA EVO 2.0 Box Hybrid

technical data

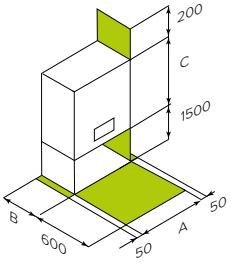
Size					FE 24.4	FE 33.4 (to exhaustion)	UC 34.4	UC 70.2	UC 115.2	UC 200F.2
Heating	Heating capacity (Pn) P.C.I.	Water 80/60°C	Water content	kW	24,0	34,0	33,2	67,5	115,0	199,0
			Minimum	kW	4,70	4,90	4,80	9,10	20,0	19,1
		Water 50/30°C	Water content	kW	26,0	37,0	35,8	68,7	120,3	205,2
			Minimum	kW	5,20	5,40	5,40	10,3	21,4	21,1
	Efficiency	Water 80/60°C	Maximum	%	97,8	97,7	97,7	97,3	97,3	97,9
			Minimum	%	97,6	97,2	96,4	94,9	95,9	95,6
		Water 50/30°C	Maximum	%	106,1	106,2	105,2	101,7	104,3	103,1
			Minimum	%	107,3	107,1	107,0	107,6	107,1	105,4
	30% di Pn		-	%	109,7	109,7	108,6	107,3	107,2	108,9
DHW	Nominal heating capacity (Qnw)		Maximum	kW	28,5	34,8	34,0		-	
			Minimum	kW	4,70	5,00	5,00		-	
	Specific flow rate	ΔT=30 °C in 10 minutes		l/min	13,4	16,2	15,8		-	
		ΔT=25 °C in 10 minutes		l/min	16,1	19,5	19,0		-	
Seasonal efficiency Medium climate	Heating	Energy class		-	**A**	**A**	**A**	**A**	**A**	**A**
		ηs (seasonal output)		%	94	94	93	93	92	93
	DHW	Energy class		-	**A**	**A**	**A**		-	
		Withdrawal profile		-	XL	XXL	XL		-	
		ηwh		%	85	85	90		-	

Technical specifications										
Type			-	instantaneous				only heating		
Installation			-	wall-mounted						floor-standing
Power supply	Voltage/Frequency/Phases		V/Hz/n°	230/50/1						
Expansion tank capacity			l	8	10			-		
Power input		Water content	W	82	99	122	267	314	580	
Sound power		Nominal	dB(A)	49	52	56	63	-	-	

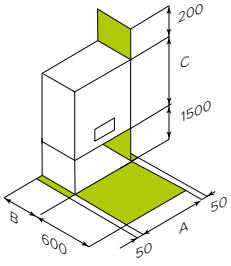
Operating range								
Water supply temperature	Heating	Minimum / Maximum	°C	20 / 95			15 / 85	20 / 85
	DHW	Minimum / Maximum	°C	40 / 65				-
Operating range (Outdoor air)	Heating / DHW	Minimum / Maximum	°C	-5* / 50				

* with antifreeze kit down to -15°C

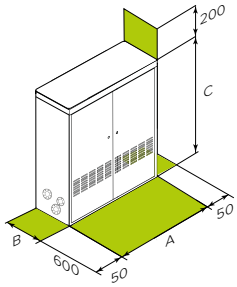
dimensions and connections



FE Version



UC 24.4-115.2 Version



UC 200F.2

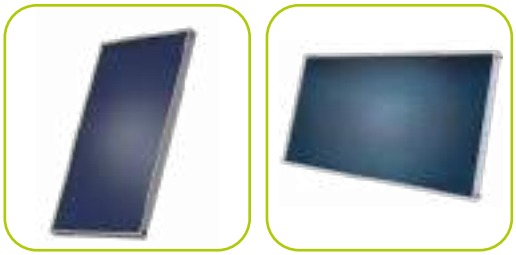
Size			FE 24.4	FE 33.4	UC 34.4	UC 70.2	UC 115.2	UC 200F.2
Dimensions	AxCxB	mm	420x700x250	420x700x320	420x700x345	615x930x266	500x950x500	950x1.214x606
Weight		kg	27	31	40	58,4	81	316
External diameters	Water (System)	inch	3/4”			1 1/4”		3 1/2”
	Water (DHW)	inch	1/2”				-	
	Gas	inch	3/4”				1”	2”
	Intake air	mm	80					
	Exhaust gas	mm	80				100	

“Factory made” hybrid combinations

		Hybrid “Factory made”				
Combination	**Size**	**24.4**	**33.4**	**70.2**	**115.2**	**200F.2**
1 unit	2.1	✓	✓	✓	✓	✓
	3.1	✓	✓	✓	✓	✓
	4.1	✓	✓	✓	✓	✓
	5.1	✓	✓	✓	✓	✓
	6.1	-	✓	✓	✓	✓
	7.1	-	✓	✓	✓	✓
	8.1	-	✓	✓	✓	✓
	9.1	-	-	✓	✓	✓
	10.1	-	-	✓	✓	✓
	12.1	-	-	✓	✓	✓
	14.1	-	-	✓	✓	✓
2 unit (cascade)	2.1+2.1	✓	✓	✓	✓	✓
	3.1+3.1	-	✓	✓	✓	✓
	4.1+4.1	-	✓*	✓	✓	✓
	5.1+5.1	-	-	✓	✓	✓
	6.1+6.1	-	-	✓	✓	✓
	7.1+7.1	-	-	✓	✓	✓
	8.1+8.1	-	-	✓	✓	✓
	9.1+9.1	-	-	-	✓	✓
	10.1+10.1	-	-	-	✓	✓
	12.1+12.1	-	-	-	✓	✓
	14.1+14.1	-	-	-	-	✓
3 unit (cascade)	2.1+2.1+2.1	-	✓	✓	✓	✓
	3.1+3.1+3.1	-	-	✓	✓	✓
	4.1+4.1+4.1	-	-	✓	✓	✓
	5.1+5.1+5.1	-	-	✓	✓	✓
	6.1+6.1+6.1	-	-	-	✓	✓
	7.1+7.1+7.1	-	-	-	✓	✓
	8.1+8.1+8.1	-	-	-	✓	✓
	9.1+9.1+9.1	-	-	-	✓	✓
	10.1+10.1+10.1	-	-	-	-	✓
	12.1+12.1+12.1	-	-	-	-	✓
	14.1+14.1+14.1	-	-	-	-	✓
4 unit (cascade)	2.1+2.1+2.1+2.1	-	-	✓	✓	✓
	3.1+3.1+3.1+3.1	-	-	✓	✓	✓
	4.1+4.1+4.1+4.1	-	-	-	✓	✓
	5.1+5.1+5.1+5.1	-	-	-	✓	✓
	6.1+6.1+6.1+6.1	-	-	-	✓	✓
	7.1+7.1+7.1+7.1	-	-	-	-	✓
	8.1+8.1+8.1+8.1	-	-	-	-	✓
	9.1+9.1+9.1+9.1	-	-	-	-	✓
	10.1+10.1+10.1+10.1	-	-	-	-	✓
5 unit (cascade)	2.1+2.1+2.1+2.1+2.1	-	-	✓	✓	✓
	3.1+3.1+3.1+3.1+3.1	-	-	✓	✓	✓
	4.1+4.1+4.1+4.1+4.1	-	-	-	✓	✓
	5.1+5.1+5.1+5.1+5.1	-	-	-	✓	✓
	6.1+6.1+6.1+6.1+6.1	-	-	-	-	✓
	7.1+7.1+7.1+7.1+7.1	-	-	-	-	✓
	8.1+8.1+8.1+8.1+8.1	-	-	-	-	✓
	9.1+9.1+9.1+9.1+9.1	-	-	-	-	✓
6 unit (cascade)	2.1+2.1+2.1+2.1+2.1+2.1	-	-	✓	✓	✓
	3.1+3.1+3.1+3.1+3.1+3.1	-	-	-	✓	✓
	4.1+4.1+4.1+4.1+4.1+4.1	-	-	-	✓	✓
	5.1+5.1+5.1+5.1+5.1+5.1	-	-	-	-	✓
	6.1+6.1+6.1+6.1+6.1+6.1	-	-	-	-	✓
	7.1+7.1+7.1+7.1+7.1+7.1	-	-	-	-	✓
	8.1+8.1+8.1+8.1+8.1+8.1	-	-	-	-	✓

Note: * only with Sphera EVO 2.0

ACCESSORY PRODUCTS TO HEAT PUMPS



ELFOSUN^{3}

Bollitori ACS

ELFOSUN^3

F-L / F-XL / FH-XL

Flat-plate solar thermal collector for combination with domestic hot water production systems

RELIABILITY

031

HEALTH

Renewable Energy

- ✓ It uses renewable energy and contributes greatly to the increase in the building's energy class
- ✓ It can be combined in series and is ideal for empty and pressurised systems
- ✓ One of the most efficient solutions on the market
- ✓ Installation with specific kit for either a pitched or flat roof or uncased in the roof
- ✓ Tempered prismatic glass surface to capture maximum sunlight and resist weathering

Ideal with AQUA Plus and DHW Tanks

ELFOSUN^3 is designed to supply the coil of a tank for domestic hot water production.
Combined with AQUA, the heat pump for domestic hot water production, or with specific Boiler versions for Heat Pumps, ELFOSUN^3 uses the free thermal contribution of solar energy.
It is essential to upgrade old residential heating systems and, depending on the case, increase the building's energy efficiency by up to two classes.

technical data

Version			**F-L**	**F-XL**	**FH-XL**
Installation	Type	-	vert.		horiz.
	no. (in parallel) Maximum	-	5		3
Surface	gross	m²	2,00	2,37	
	opening	m²	1,86	2,23	
Peak capacity		W	1.522	1.804	
Technical specifications					
Performances	ηCOL - collector efficiency	%		60	
	η0 - zero-loss collector efficiency	-		0,761	
	a1 - heat loss coefficient	W/m²K		3,60	
	a2 - Temperature / heat loss coefficient ratio	W/m²K²		0,014	
Stagnant temperature		°C		190	
Operating pressure	Water content	bar		10	
Panel water flow		l	1,42	1,71	2,16
Panel water flow	Nominal	l/min/m²	1,6÷2	2÷2,7	
Absorptance		%		≥ 95	

The Product complies with the European ErP Directive (UE Regulations 811/2013 - 813/2013)
(1) Control unit for indoor installation

accessories

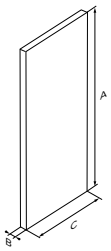
	KFSX	Fixing kit on pitched or flat roofs for 1 vertical solar panel (per F-L / F-XL)
	KFDX	Fixing kit on pitched or flat roofs for 2 vertical solar panels (per F-L / F-XL)
	KFPX	Fixing kit on flat roofs for 1 horizontal solar panel (per FH-XL)
	KFP2X	Fixing kit on flat roofs for 2 horizontal solar panels (per FH-XL)
	KFIX	Sloping roof fixing kit for 1 horizontal collector (for FH-XL)
	KFI2X	Sloping roof fixing kit for 2 horizontal collectors (for FH-XL)
	KFIN1X	Uncased fixing kit for 1 vertical collector (for F-L / F-XL)
	KFIN2X	Uncased fixing kit for 2 vertical collectors (for F-L / F-XL)
	KCIX	Connection kit for intermediate connection between solar collectors
	KCCX	Kit for single-column circulation, solar control unit and 3/4” non return valve
	KCCBX	Kit for two-column circulation, solar control unit and 3/4” non return valve
	VE18X	18 liter expansion vessel
	VE25X	25 liter expansion vessel
	VE40X	40 liter expansion vessel
	VMTX	Thermostatic mixing valve
	GP10X	10 liter tank of concentrated propylene glycol

dimensions and connections

F-L / F-XL: up to 5 panels can be connected in parallel

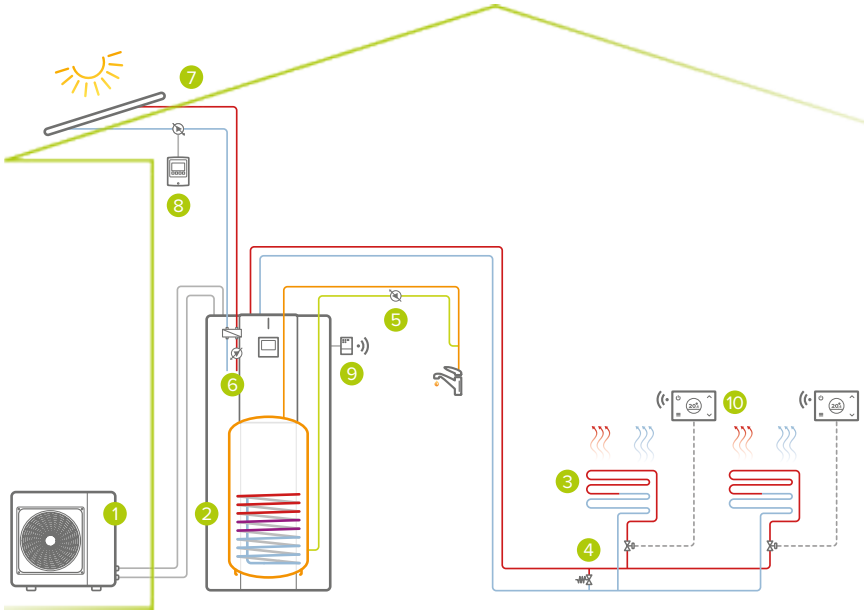
FH-XL: up to 3 panels can be connected in parallel

Note: refer to the specific documentation to connect several panels



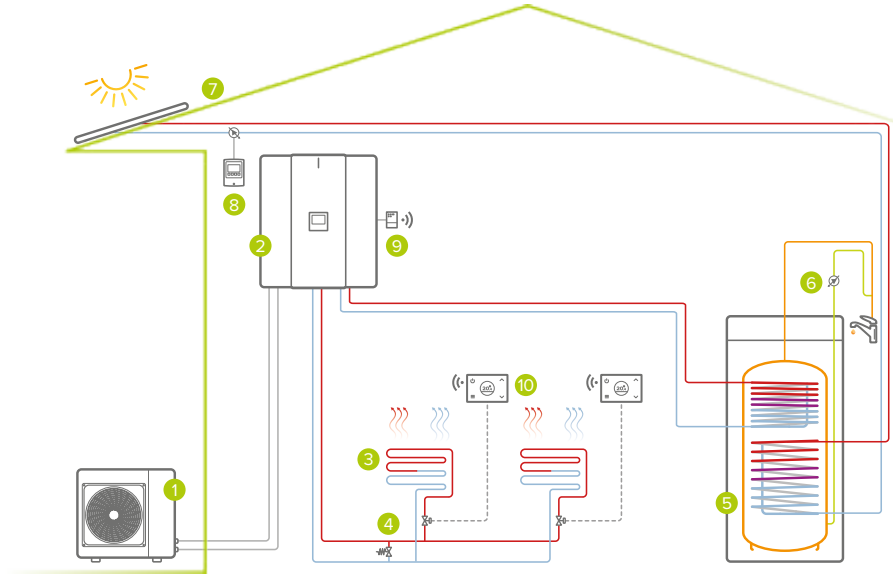
			F-L	F-XL	FH-XL
Dimensions	AxCxB	mm	1.980x1.010x86	1.930x1.230x86	1.230x1.930x86
Weight		kg	34	42	
External diameters		mm		22 (x4)	

system diagrams



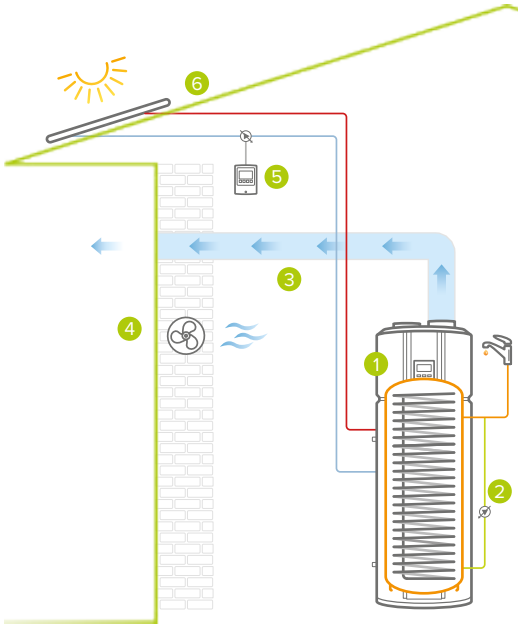
Full electric single-area system with thermal solar:
Heating / Cooling / DHW

1 outdoor unit
2 indoor unit
3 heating/cooling zone
4 bypass*
5 DHW recirculation pump*
6 solar connection kit (optional)
7 ELFOSun³ thermal solar (optional)
8 solar circulation kit (optional)
9 SwitchConnect Wi-Fi receiver (optional)
10 SwitchConnect Wi-Fi receiver (optional)



Full electric single-area system with thermal solar:
Heating / Cooling / DHW

1 outdoor unit
2 indoor unit
3 heating/cooling zone
4 bypass*
5 DHW boiler with solar coil (optional)
6 DHW recirculation pump*
7 ELFOSun³ thermal solar (optional)
8 solar circulation kit (optional)
9 SwitchConnect Wi-Fi receiver (optional)
10 SwitchConnect Wi-Fi receiver (optional)



System for DHW production with thermal solar:

1 heat pump for DHW with solar system provision
2 DHW recirculation pump*
3 exhaust air duct (optional)*
4 ventilation system
5 solar circulation kit (optional)
6 ELFOSun³ thermal solar (optional)

*from external supply

DWH BOILERS

Domestic hot water tanks for heat pumps

ENERGY SAVING — Integration Heating/DHW

COMFORT — DHW

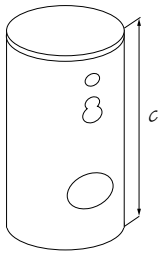
RELIABILITY — Backup heater

- ✓ Additional coil for connection to ELFOSUN³ thermal solar (optional
- ✓ Inspection flange
- ✓ Magnesium anodic protection
- ✓ Carbon steel tank with vitrification treatment
- ✓ 70 or 100 mm rigid polyurethane insulation

				ACS200X	ACS300X	ACS500X	DHW1000	ACS10SX
Performance	Net water volume		l	196	273	475	930	900
	Energy efficiency class		-		B		C	
	Maximum water temperature		°C			95		
	Insulation: Material / Medium thickness1		mm		PU / 70		PE / 100	
	Thermal dispersions		W/K	1,13	1,40	1,78	3,16	
	Electric heater		kW / p		2 / 1-phase		4,5 / 3-phase	
Maximum operating pressure			bar			10		
Quantity of exchangers			-			1		2
Technical features - standard version								
Upper coil	Surface		m²	1,50	1,80	2,20	3,50	6,00
	Internal volume		l	8,60	10,4	12,7	21,0	35,0
	Heat exchange²	Coil water 60/50°C Tank water 10/45°C	kW	36	44	55	88	35
Technical features - solar version								
Additional accessory			-	SCS08X	SCS08X	SCS12X	-	Standard
Bottom pipe coil	Surface		m²	0,80	0,80	1,20	-	3,70
	Internal volume		l	0,65	0,65	0,95	-	23
	Heat exchange²	Coil water 60/50°C Tank water 10/45°C	kW	24	24	36	-	88

Data according to DIN 4708 / EN 12897 / EN 15332
(1) PU = Polyurethane
(2) Water pipe coil 60/50°C / Water tank 10/45°C

dimensions and connections



			ACS200X	ACS300X	ACS500X	ACS1000X	ACS10SX
Dimensions	ØxA	mm	640x1.215	640x1.615	790x1.705	990X2.205	
Weight		kg	77	98	128	224	294
External diameters	DHW supply	inch			1" 1/4		
	DHW inlet	inch		1"		1" 1/4	
	Return bottom pipe coil / drain	inch		1/2"		1"	
	Coil supply	inch		1"		1" 1/4	
	Coil return / discharge	inch		1"		1" 1/4	
	Return bottom pipe coil / drain	inch		1/2"		1"	

FAN COILS

Fan coils for heating and cooling distribution in the home

MOOD

ELFORoom^2

ELFOSpace BOX3

AURA

MOOD

CFW-2 1÷5

Wall-mounted fan coil with inverter motor for heating and cooling

COMFORT

Hot Cold

Dehumidification

Follow Me (KJR-90D optional)

Anti cold air

Temperature compensation

HEALTH

High density filter

MANAGEMENT AND CONNECTIVITY

Input ON/OFF

Remote control

Wired controller (optional)

Centralised controller (optional)

Port Modbus

Control4 NRG management

Input 0-10 V

Output ON/OFF

CONVENIENCE

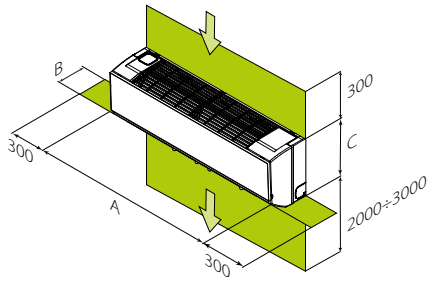
Auto Restart

- ✓ Standard supplied with 3-way ON/OFF valves and potential-free contact for generator demand
- ✓ Quiet and efficient, thanks to the fan's brushless DC motor
- ✓ Standard supplied infrared remote control
- ✓ Standard supplied input contact for 0-10V management
- ✓ Management via Modbus port with connection to BMS or CONTROL4 NRG

Management with energy assistant

MOOD can be connected to CONTROL4 NRG, the touch-screen centraliser that coordinates the entire system intelligently and efficiently to always ensure the utmost comfort at the lowest possible cost.
By connecting the fan coils to this central "brain", the heat diffusion system can be managed with "room by room" temperature control by turning the individual thermostats with temperature and humidity control (where available) or directly on the terminal units, changing their speed and reducing consumption. The temperature in the house will certainly be more consistent and controlled, for maximum comfort.
It is also possible to create and manage dual emitter systems: fan coils for cooling and radiant panels for heating.

dimensions and connections



For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

Size			1	2	3	4	5
Dimensions	AxCxB	mm		916x290x233		1.074x317x237	
Weight		kg		12,7		14,9	
External dia-	Water	inch			3/4"		
meters	Condensate drain	mm			20		

accessories

	**KJR90X**	KJR90 electronic room control for wall installation
	**PROL5X** *PREVIEW*	5-metre extension lead for connecting the KJR-90D electronic wall-mounted room controller
	**KJR150X**	Indoor units' group controller
	**CCM30BX**	Touch-key indoor units' centralized controller

	**CCM09** *to exhaustion*	Wired centraliser with weekly scheduler
	**CCM-180A/WS**	Wired centraliser with 6.2" touchscreen display and weekly scheduler
	**CCM-270A/WS**	Wired centraliser with 10.1" touchscreen display and weekly scheduler

technical data

Size				**1**	**2**	**3**	**4**	**5**
Cooling	Total yield	Water 7/12°C Ambient air 27°C/19°Cwb Maximum ventilation speed	kW	2,70	2,91	3,81	3,96	4,87
	Sensible yeld		kW	2,15	2,33	3,18	2,66	4,11
	Water flow-rate		l/h	465	501	656	682	839
	Water pressur drop		kPa	31,6	37,2	56,8	41,2	50,7
Heating	Yeld	Water 45/40°C Ambient air 20°C Maximum ventilation speed	kW	2,94	3,23	4,30	4,84	5,26
	Water flow-rate		l/h	365	556	741	682	906
	Water pressur drop		kPa	37,5	40,6	61,9	43,7	51,7
	Yeld	Water 50°C/cool water flow-rate Ambient air 20°C Maximum ventilation speed	kW	3,4	3,68	4,59	5,43	5,98
	Water flow-rate		l/h	465	501	656	770	839
	Water pressur drop		kPa	13,8	15,7	24,8	45,7	54,6
Power input		Minimum / Maximum	W	10/13	9/15	15/34	13/26	18/38
Operating pressure		Water content	bar			16		
Airflow[1]		Minimum / Nominal / Maximum	m³/h	400/454/492	413/485/585	590/689/825	552/653/755	717/849/979
Sound power		Minimum / Maximum	dB(A)	39/44	35/44	47/57	42/50	47/56
Sound pressure @1m		Minimum / Maximum	dB(A)	27/32	23/32	35/45	30/38	35/44
Power supply		Voltage/Frequency/Phases	V/Hz/n°			230/50/1		

Sound levels tested in an anechoic chamber according to ISO 3744
(1) With clean filters

ELFOROOM²

ELFOROOM² 003.0÷017.0

Slim floor- or ceiling-mounted fan coil with inverter motor for heating and cooling

COMFORT

Hot Cold · Dehumidification · Follow Me · Anti cold air · Temperature compensation

HEALTH

High density filter · Air purification (optional)

MANAGEMENT AND CONNECTIVITY

Input ON/OFF (IN-MOD/MOD) · Wired controller · Centralised controller (optional) · Port Modbus (IN-MOD/MOD) · CONTROL4 NRG management (IN-MOD/MOD) · input 0-10 V (SC010V) · Output ON/OFF (IN-MOD/MOD)

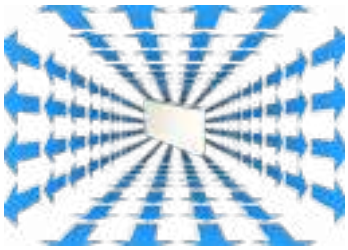
CONVENIENCE

Auto Restart

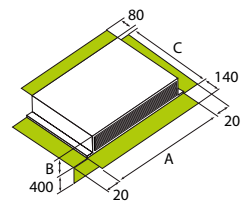
- ✓ Suitable for any installation: vertical or horizontal, cased or uncased
- ✓ Quiet and efficient, thanks to the fan's brushless DC motor
- ✓ Management via ON/OFF, 3-speed or 0-10V contacts and ON/OFF output for calling an external device
- ✓ Optional germicidal UV lamp for air purification
- ✓ Management via Modbus port with connection to BMS or CONTROL4 NRG

Ready for anything

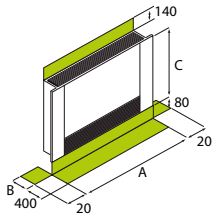
ELFOROOM² is highly flexible, thanks to the availability of many accessories that enhance its potential.
The unit can be managed with the on-board control, with LCD display and very discreet, with external thermostat, ON/OFF input via potential-free contact or input with 0-10V signal.
Multiple ELFOROOM² units can also be grouped together in mini-networks of up to 9 units with master/slave management by thermostat or by CONTROL4 NRG centraliser or BMS with Modbus protocol.
The rest of the optional equipment is designed to facilitate installation: feet for fixing to the ground, recessed fan coil / grid kit to make uncased installations invisible, telescopic or 90° plenum for ducting.



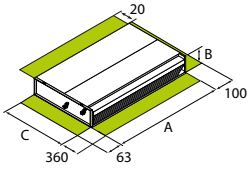
dimensions and connections



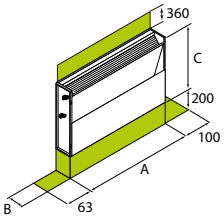
ELFOROOM² OUTVOT
Cased unit



ELFOROOM² OUTVL-OUTVOT
Cased unit



ELFOROOM² INVOT
Uncased unit



ELFOROOM² INVOT
Uncased unit

For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

Size (CC2 version)				003.0	005.0	011.0	015.0	017.0
Dimensions	with casing	AxCxB	mm	737x579x130	937x579x130	1.137x579x130	1.337x579x130	1.537x579x130
	uncased	AxCxB	mm	527x586x130	727x586x130	927x586x130	1.127x586x130	1.327x586x130
Weight	with casing		kg	17	20	23	26	29
	uncased		kg	9	12	15	18	21
External dia-meters	Water		inch	3/4"				
	Condensate drain		mm	14				

configurations

TYPE OF CONFIGURATION:

CC2	**2-pipe (Standard)**
CC4	4 pipe

HYDRAULIC CONNECTIONS

SX	**Connections on the left (standard)**
DX	Right side fittings

TYPE OF INSTALLATION:

OUTVL	With casing for vertical installation
OUTVOT	With casing for vertical or horizontal installation
OUTRAD	With casing for vertical installation, with ventilated radiant plate
INVOT	Uncased for vertical or horizontal installation

CONTROL ELECTRONIC

IN-MOD	Onboard thermostat and RS485 port as standard
CSEMP	4-speed simplified on-board thermostat
MOD	RS485 port as standard and provision for connection to Modbus thermostat
SC3V	Ready for connection to 3-speed thermostat
SC010	Ready for connection to 0-10V thermostat

AIR PURIFICATION

-	**Standard filter (standard)**
UVPCO	UV germicidal lamp kit with support

accessories

	KASPX	Return plenum kit
	GRA1X	Air outflow grille
	PR90MX	90° air outlet plenum
	PMSTX	Telescopic upper supply plenum kit
	GMX	Outlet grille
	BACKVX	Rear painted panel for cased units
	PCIX	Uncased closure panel
	CSFIX	Formwork for uncased installation
	KPDX	Plinth kit

	FXPPX	Floor fixing brackets kit
	KV3VBX	3-way valve kit with electrothermal head and balancing
	KV3B4X	3-way valve kit with electrothermal head and balancing for 4-pipe system (Available only with B4T)
	KCMDX	Motor connection cables for unit with couplings on the right
	HIDE2X	Electro-mechanical thermostat for wall installation with built-in temperature probe
	HIDE3X	Electro-mechanical thermostat for wall installation with built-in temperature probe
	HIDT6X	Electronic thermostat for wall installation with built-in temperature probe
	PREVIEW HMIFACX	Electronic wired controller KJRP-86R for assembly on the unit or wall (for SC3V configuration)

technical data

Size				003.0	005.0	011.0	015.0	017.0
Cooling	Total yield	Water 7/12°C Ambient air 27°C/19°Cwb Maximum ventilation speed	kW	0,91	2,12	2,81	3,30	3,71
	Sensible yeld		kW	0,71	1,54	2,11	2,56	2,90
	Water flow-rate		l/h	157	365	483	568	638
	Water pressur drop		kPa	12,1	8,2	17,1	18,0	21,2
Heating	Yeld	Water 45/40°C Ambient air 20°C Maximum ventilation speed	kW	1,02	2,21	3,02	3,80	4,32
	Water flow-rate		l/h	175	380	518	654	743
	Water pressur drop		kPa	9,1	9,2	19,1	21,2	23,3
	Yeld	Water 50°C/cool water flow-rate Ambient air 20°C Maximum ventilation speed	kW	1,17	2,55	3,52	4,43	5,09
	Water flow-rate		l/h	157	365	483	568	638
	Water pressur drop		kPa	5,8	6,6	14,6	14,4	22,9
Power input		Minimum / Maximum	W	5/11	4/19	6/20	5/29	5/33
Operating pressure		Water content	bar			10		
Airflow[1]		Minimum / Nominal / Maximum	m^3/h	49/91/146	124/210/294	194/318/438	302/410/567	364/479/663
Sound power		Minimum / Maximum	dB(A)	37/54	37/54	37/54	37/55	37/57
Sound pressure @1m		Minimum / Maximum	dB(A)	24/41	25/42	26/44	26/46	28/47
Power supply		Voltage/Frequency/Phases	V/Hz/n°			230/50/1		

Sound levels tested in an anechoic chamber according to ISO 3744
(1) With clean filters

AURA - 3-SPEED *Version*

CFFAC / CFFAU 1÷12

Floor- or ceiling-mounted fan coil with 3-speed motor for heating and cooling

COMFORT

- Hot Cold
- Dehumidification
- Follow Me
- Anti cold air *(on thermostat)*

HEALTH

- High density filter

MANAGEMENT AND CONNECTIVITY

- Input ON/OFF
- Wired controller
- Centralised controller (optional)
- Modbus port *(on thermostat)*
- Control4 NRG management *(on thermostat)*

CONVENIENCE

- Auto Restart *(on thermostat)*

- ✓ Sleek and elegant design, suitable for blending into any environment
- ✓ Suitable for any installation: vertical or horizontal, cased or uncased
- ✓ Complete range: sizes from 1.5 kW to 8.3 kW, ideal for houses or hotel rooms
- ✓ Can be adapted on-site to have fittings on the right side as well
- ✓ Management via Modbus port (in the controller) with connection to BMS or CONTROL4 NRG

Dedicated control

The unit can be selected with the innovative, specially designed KJRP-86R user interface. The controller can either be installed on board the unit (for cased versions) or remotely on the wall. It has a touch screen, back-light, 3-speed control + AUTO, ON/OFF timer and water probe for anti-cold air function.
The controller has a Modbus port for connection to CONTROL4 NRG or BMS controllers operating with this protocol.

configurations

TYPE OF SYSTEM:

CC2	**2-pipe (Standard)**
CC4	4 pipe

AIR RETURN:

R3	**From the bottom (vertical installation) / from the back (horizontal installation) (standard)**
RF	From the front (vertical installation) / from the bottom (horizontal installation)

HYDRAULIC CONNECTIONS

SX	**Connections on the left (standard)**
DX	Right side fittings

VALVES MOUNTED ON BOARD:

-	**not required (standard)**
3V2	3-way ON/OFF valves for 2-pipe version
3V4	3-way ON/OFF valves for 4-pipe version

BUILT-IN THERMOSTAT:

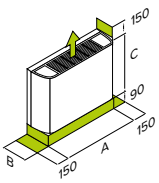
NOHMI	**not required (standard)**
HMIAM	KJRP-86R control

accessories

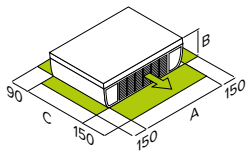
	BRVHX	Auxiliary condensate collection tray for vertical/horizontal installation
	KPDX	Feet kit
	3V2DX	3-way ON/OFF valves kit for 2-pipe system (3V2DX for right side fittings / 3V2SX for left side fittings)
	3V2SX	
	3V4DX	3-way ON/OFF valves kit for 4-pipe system (3V4DX for right side fittings / 3V4SX for left side fittings)
	3V4SX	
	PREVIEW COADX	Pair of adapters 3/4 F Eurokonus > 1/2 female (for 2-pipe units)
	HMIFACX	KJRP-86R electronic wired controller for unit- or wall-mounting

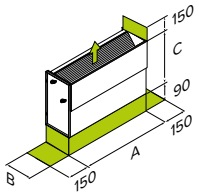
	BOXX	Box for wall installation of KJRP-86R user interface
	DCPRX	Power interface to control 4 fan coils and valves for 2-4 systems
	HIDTI9X	Electro-mechanical thermostat for uncased installation + Modbus

dimensions and connections

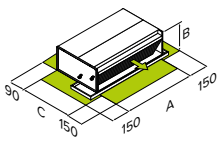


CAS
Cased unit





UNC
Uncased unit



For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

Size (CC2 version)				1	2	3	4	6	8	10	12
Dimensions	with casing	AxCxB	mm	790x495x200		1.020x495x200		1.240x495x200		1.360x495x200	1.360x591x200
	uncased	AxCxB	mm	628x455x200		858x455x200		1,078x455x200		1,198x455x200	1,198x551x200
Weight	with casing		kg	16,3	16,7	20,0	20,8	25,4	26,3	28,5	34,0
	uncased		kg	11,6	12,0	13,9	14,8	18,2	18,8	21,7	25,2
External diameters	Water		inch	3/4”							
	Condensate drain		mm	18,5							

technical data

Size			R3 Version	1*	2	3*	4	6
Cooling	Total yield	Water 7/12°C Ambient air 27°C/19°Cwb Maximum ventilation speed	kW	1,65	2,25	2,65	3,05	4,20
	Sensible yeld		kW	1,25	1,65	2,05	2,23	3,05
	Water flow-rate		l/h	283	386	454	523	720
	Water pressur drop		kPa	15,8	33,2	18	26,7	41,2
Heating	Yeld	Water 45/40°C Ambient air 20°C Maximum ventilation speed	kW	1,85	2,35	3,05	3,15	4,30
	Water flow-rate		l/h	317	403	523	540	740
	Water pressur drop		kPa	15,1	33,2	17,6	23,3	37,2
	Yeld	Water 50°C/cool water flow-rate Ambient air 20°C Maximum ventilation speed	kW	1,93	2,02	2,89	3,28	4,55
	Water flow-rate		l/h	283	386	454	523	720
	Water pressur drop		kPa	11	19,5	11,8	20,1	21,1
Power input		Minimum / Maximum	W	14/35	15/40	14/47	14/47	19/51
Operating pressure		Water content	bar	16				
Airflow[1]		Minimum / Nominal / Maximum	m³/h	142/165/255	139/192/255	180/273/400	184/284/425	319/450/595
Sound power		Minimum / Maximum	dB(A)	34/47	39/53	31/46	32/47	37/52
Sound pressure @1m		Minimum / Maximum	dB(A)	21/35	27/42	18/34	19/34	31/40
Power supply		Voltage/Frequency/Phases	V/Hz/n°	230/50/1				

Sound levels tested in an anechoic chamber according to ISO 3744
(1) With clean filters
*RF version not available

Size			R3 Version	8*	10*	12*
Cooling	Total yield	Water 7/12°C Ambient air 27°C/19°Cwb Maximum ventilation speed	kW	5,35	6,75	8,25
	Sensible yeld		kW	3,96	5,09	6,08
	Water flow-rate		l/h	917	1.157	1.414
	Water pressur drop		kPa	61,5	40,3	64,7
Heating	Yeld	Water 45/40°C Ambient air 20°C Maximum ventilation speed	kW	5,70	7,15	8,50
	Water flow-rate		l/h	977	1.226	1.457
	Water pressur drop		kPa	60,9	42,2	62,0
	Yeld	Water 50°C/cool water flow-rate Ambient air 20°C Maximum ventilation speed	kW	5,99	7,91	9,35
	Water flow-rate		l/h	917	1.157	1.414
	Water pressur drop		kPa	32,9	18,9	39,3
Power input		Minimum / Maximum	W	35/91	64/110	82/118
Operating pressure		Water content	bar			
Airflow[1]		Minimum / Nominal / Maximum	m³/h	404/574/800	591/885/1.150	836/1.132/1.300
Sound power		Minimum / Maximum	dB(A)	43/59	46/62	50/63
Sound pressure @1m		Minimum / Maximum	dB(A)	31/47	33/50	37/50
Power supply		Voltage/Frequency/Phases	V/Hz/n°			

Sound levels tested in an anechoic chamber according to ISO 3744
(1) With clean filters
*RF version not available

AURA - *Inverter version*

CFFC / CFFU 1÷12

Floor- or ceiling-mounted fan coil with inverter motor for heating and cooling

COMFORT

Hot Cold | Dehumidification | Follow Me | Anti cold air | Temperature compensation

HEALTH

High density filter

MANAGEMENT AND CONNECTIVITY

Input ON/OFF | Wired controller | Centralised controller (optional) | Port Modbus | Control4 NRG management | input 0-10 V

CONVENIENCE

Auto Restart

- ✓ Sleek and elegant design, suitable for blending into any environment
- ✓ Suitable for any installation: vertical or horizontal, cased or uncased
- ✓ Quiet and efficient, thanks to the fan's brushless DC motor
- ✓ Complete range: sizes from 1.5 kW to 8.3 kW, ideal for houses or hotel rooms
- ✓ Can be adapted on-site to have fittings on the right side as well
- ✓ Management via Modbus port with connection to BMS or CONTROL4 NRG

Comando dedicato

The unit can be selected with the innovative, specially designed KJRP-75A user interface. The controller can either be installed on board the unit (for cased versions) or remotely on the wall (also with optional 2 m extension lead). It has a touch screen, back-light and 7-speed control + AUTO.
The interface also has a temperature sensor: with the Follow-me function, the unit can be controlled according to the temperature read by this probe, replacing the temperature that would be detected as standard when the unit is restarted.

configurations

TYPE OF SYSTEM:

CC2	**2-pipe (Standard)**
CC4	4 pipe

AIR RETURN:

R3	**From the bottom (vertical installation) / from the back (horizontal installation) (standard)**
RF	From the front (vertical installation) / from the bottom (horizontal installation)

HYDRAULIC CONNECTIONS

SX	**Connections on the left (standard)**
DX	Right side fittings

VALVES MOUNTED ON BOARD:

-	**not required (standard)**
3V2	3-way ON/OFF valves for 2-pipe version
3V4	3-way ON/OFF valves for 4-pipe version

BUILT-IN THERMOSTAT:

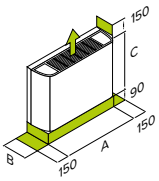
NOHMI	**not required (standard)**
HMIDM	KJRP-75A control

accessories

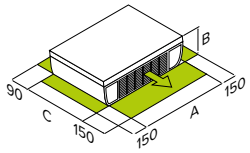
	BRVHX	Auxiliary condensate collection tray for vertical/horizontal installation
	KPDX	Feet kit
	3V2DX	3-way ON/OFF valves kit for 2-pipe system (3V2DX for right side fittings / 3V2SX for left side fittings)
	3V2SX	
	3V4DX	3-way ON/OFF valves kit for 4-pipe system (3V4DX for right side fittings / 3V4SX for left side fittings)
	3V4SX	
	PREVIEW COADX	Pair of adapters 3/4 F Eurokonus > 1/2 female (for 2-pipe units)
	HMIFDCX	KJRP-75A electronic wired controller for unit- or wall-mounting
	EXTENX	KJRP-75A wired controller connection extension cable (2 m)
	KCMDX	Fan connection cables for units with connections on the right (per AURA DC 9 to 12)
	KJR90X	KJR90 electronic room control for wall installation

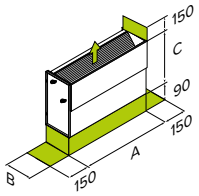
	PREVIEW PROL5X	5-metre extension lead for connecting the KJR-90D electronic wall-mounted room controller
	KJR150X	Indoor units' group controller
	CCM30BX	Touch-key indoor units' centralized controller
	CCM09 *to exhaustion*	Wired centraliser with weekly scheduler
	CCM-180A/WS	Wired centraliser with 6.2" touchscreen display and weekly scheduler
	CCM-270A/WS	Wired centraliser with 10.1" touchscreen display and weekly scheduler

dimensions and connections

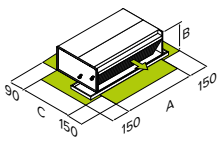


CAS
Cased unit





UNC
Uncased unit



For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

Size (CC2 version)				1	2	3	4	6	8	10	12
Dimensions	with casing	AxCxB	mm	790x495x200		1.020x495x200		1.240x495x200		1.360x495x200	1.360x591x200
	uncased	AxCxB	mm	628x455x200		858x455x200		1,078x455x200		1,198x455x200	1,198x551x200
Weight	with casing		kg	18,0	18,5	21,5	22,0	26,5	26,5	29,5	34,5
	uncased		kg	11,8	12,1	13,9	14,8	18,2	18,2	20,8	24,3
External dia-meters	Water		inch					3/4"			
	Condensate drain		mm					18,5			

technical data

Size			R3 Version	1*	2	3*	4	6
Cooling	Total yield	Water 7/12°C Ambient air 27°C/19°Cwb Maximum ventilation speed	kW	1,50	1,95	2,35	2,85	3,90
	Sensible yeld		kW	1,14	1,42	1,79	2,06	2,90
	Water flow-rate		l/h	260	330	400	490	670
	Water pressur drop		kPa	13,9	27,2	13,3	26	37,4
Heating	Yeld	Water 45/40°C Ambient air 20°C Maximum ventilation speed	kW	1,57	2,05	2,60	2,95	4,00
	Water flow-rate		l/h	270	350	450	510	700
	Water pressur drop		kPa	15,1	25,3	14,3	24,4	36,5
	Yeld	Water 50°C/cool water flow-rate Ambient air 20°C Maximum ventilation speed	kW	1,81	1,93	2,92	3,14	4,37
	Water flow-rate		l/h	260	330	400	490	670
	Water pressur drop		kPa	9,6	17,0	10,3	18,2	19,0
Power input		Minimum / Maximum	W	8/15	9/19	7/16	8/18	10/28
Operating pressure		Water content	bar			16		
Airflow[1]		Minimum / Nominal / Maximum	m³/h	150/170/255	150/210/255	190/315/400	190/300/425	310/450/595
Sound power		Minimum / Maximum	dB(A)	34/47	38/52	29/43	29/46	36/52
Sound pressure @1m		Minimum / Maximum	dB(A)	21/34	25/39	18/29	19/32	30/40
Power supply		Voltage/Frequency/Phases	V/Hz/n°			230/50/1		

Sound levels tested in an anechoic chamber according to ISO 3744
(1) With clean filters
*RF version not available

Size			R3 Version	8*	10*	12*
Cooling	Total yield	Water 7/12°C Ambient air 27°C/19°Cwb Maximum ventilation speed	kW	4,85	6,35	8,25
	Sensible yeld		kW	3,63	4,98	6,12
	Water flow-rate		l/h	830	1.090	1.430
	Water pressur drop		kPa	54,3	32,8	71,4
Heating	Yeld	Water 45/40°C	kW	5,25	7,05	8,70
	Water flow-rate	Ambient air 20°C	l/h	910	1.220	1.510
	Water pressur drop	Maximum ventilation speed	kPa	53,4	37,6	62,6
	Yeld	Water 50°C/cool water flow-rate	kW	5,68	8,15	9,37
	Water flow-rate	Ambient air 20°C	l/h	830	1.090	1.430
	Water pressur drop	Maximum ventilation speed	kPa	28,5	17,6	39,9
Power input		Minimum / Maximum	W	13/47	18/87	22/106
Operating pressure		Water content	bar		16	
Airflow[1]		Minimum / Nominal / Maximum	m³/h	420/600/800	530/875/1.190	680/980/1.300
Sound power		Minimum / Maximum	dB(A)	43/59	46/62	47/63
Sound pressure @1m		Minimum / Maximum	dB(A)	30/45	31/50	33/50
Power supply		Voltage/Frequency/Phases	V/Hz/n°		230/50/1	

Sound levels tested in an anechoic chamber according to ISO 3744
(1) With clean filters
*RF version not available

ELFOSPACE BOX3

CFK 007.0÷041.0

Boxed 4-way fan coil with inverter motor for heating and cooling

COMFORT

Hot Cold | Dehumidification | Follow Me *(on thermostat)* | Anti cold air | Temperature compensation

RELIABILITY

Condensate drain pump

HEALTH

High density filter

MANAGEMENT AND CONNECTIVITY

input ON/OFF | Remote control | Wired controller (optional) | Centralised controller (optional) | Port Modbus | Control4 NRG management | input 0-10 V (021.0÷041.0)

CONVENIENCE

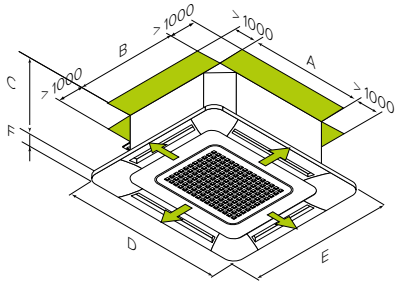
Auto Restart

- ✓ Management with potential-free contact input or 0-10V input, alarm output
- ✓ Quiet and efficient, thanks to the fan's brushless DC motor
- ✓ Standard supplied infrared remote control
- ✓ Standard supplied condensate drain pump on board
- ✓ Management via Modbus port with connection to BMS or CONTROL4 NRG

Efficient and quiet

ELFOSPACE BOX3 is standard supplied with a brushless DC motor fan, featuring advanced high efficiency technology that ensures low noise levels and consistent and precise control of the room temperature. Thanks to this, they are suitable for many applications in commercial and industrial sectors but also for particular situations such as hospitals or airports.
The power consumption of fan coils with brushless DC ventilation motor is reduced by up to 60% compared to corresponding models with asynchronous motor, while the noise level is 2÷5 dB(A) lower, making the environment more comfortable with lower costs.

dimensions and connections



For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

Size (CC2 version)				007.0	011.0	015.0	021.0	031.0	041.0
Dimensions	unit	AxCxB	mm	575x261x575	575x261x575	575x261x575	840x230x840	840x300x840	840x300x840
	panel	AxCxB	mm	647x50x647	647x50x647	647x50x647	950x45x950	950x45x950	950x45x950
Weight	unit		kg	16,5+2,5	16,5+2,5	16,5+2,5	23+6	27+6	27+6
	panel		kg						
External diameters	Water		inch	3/4"					
	Condensate drain		mm	25				32	

configurations

SYSTEM TYPE:

CC2	**2-pipe (Standard)**
CC4	4 pipe

accessories

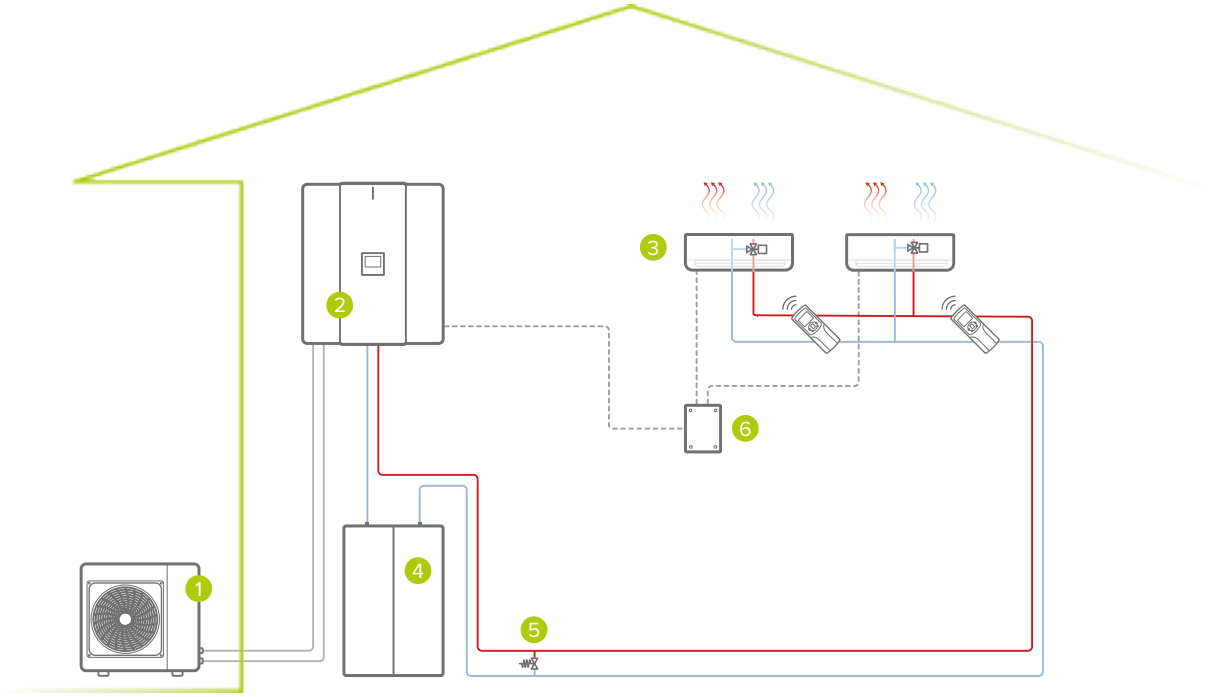
	KJR90X	KJR90 electronic room control for wall installation
	*PREVIEW* PROL5X	5-metre extension lead for connecting the KJR-90D electronic wall-mounted room controller
	KJR150X	Indoor units' group controller
	CCM30BX	Touch-key indoor units' centralized controller
	CCM09 *to exhaustion*	Wired centraliser with weekly scheduler
	CCM-180A/WS	Wired centraliser with 6.2" touchscreen display and weekly scheduler *(compatible with 021.0 to 041.0)*
	CCM-270A/WS	Wired centraliser with 10.1" touchscreen display and weekly scheduler *(compatible with 021.0 to 041.0)*
	360PX	Air return and supply frame with supply at 360°
	3V2X	Three-way valve kit for 2-pipe "on/off" system
	3V4X	Three-way valve kit for 4-pipe "on/off" system
	DTX	Auxiliary condensate collection tray

technical data

Size				007.0	011.0	015.0	021.0	031.0	041.0
Cooling	Total yield	Water 7/12°C	kW	2,98	3,96	4,20	5,93	7,87	11,2
	Sensible yeld	Ambient air 27°C/19°Cwb	kW	2,49	3,20	3,45	5,00	6,68	9,04
	Water flow-rate	Maximum ventilation speed	l/h	513	681	722	1.020	1.354	1.925
	Water pressur drop		kPa	10,0	11,5	12,3	23,8	22,3	36,6
Heating	Yeld	Water 45/40°C	kW	2,61	4,08	4,95	6,06	9,16	10,07
	Water flow-rate	Ambient air 20°C	l/h	449	702	851	1.042	1.576	1.732
	Water pressur drop	Maximum ventilation speed	kPa	12,1	12,7	9,4	25,9	28,8	49,2
	Yeld	Water 50°C/cool water flow-rate	kW	3,11	4,58	5,58	7,01	10,4	11,5
	Water flow-rate	Ambient air 20°C	l/h	513	681	722	1.020	1.354	1.925
	Water pressur drop	Maximum ventilation speed	kPa	16,3	10,7	9,0	12,8	10,7	8,9
Power input		Minimum / Maximum	W	5/15	9/37	21/43	20/41	45/85	39/126
Operating pressure		Water content	bar			16			
Airflow[1]		Minimum / Nominal / Maximum	m^3/h	322/429/535	381/477/610	494/611/781	768/987/1.175	1.236/1.371/1.581	1.198/1.415/1.871
Sound power		Minimum / Maximum	dB(A)	39/51	42/54	44/55	45/55	53/60	51/64
Sound pressure @1m		Minimum / Maximum	dB(A)	27/39	30/42	32/43	33/43	41/48	39/49
Power supply		Voltage/Frequency/Phases	V/Hz/n°			230/50/1			

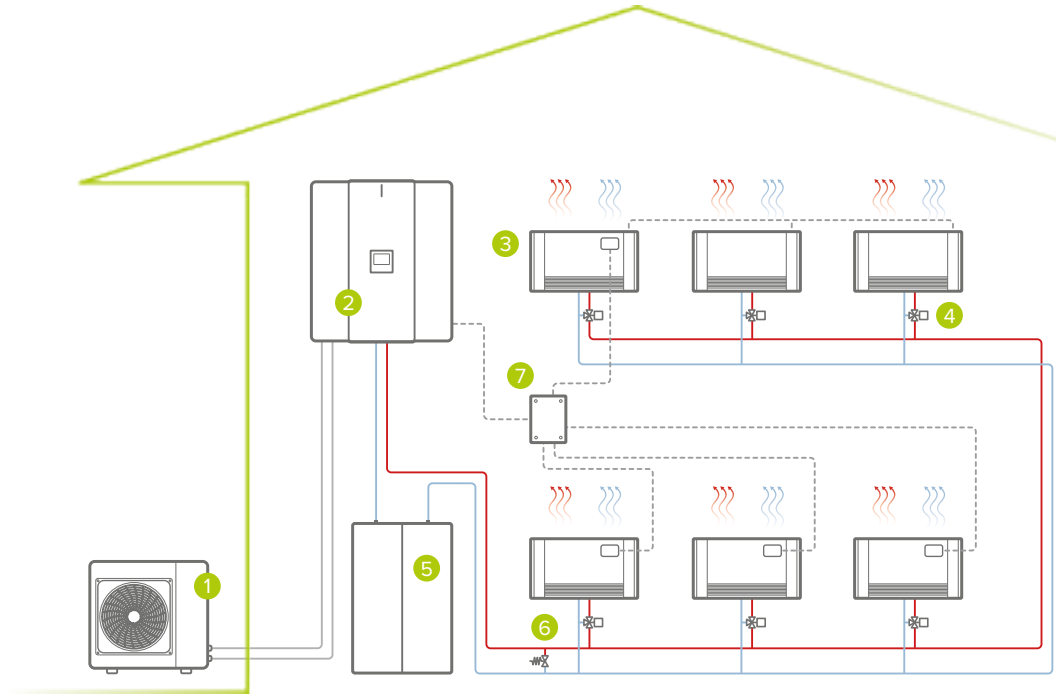
Sound levels tested in an anechoic chamber according to ISO 3744
(1) With clean filters

SYSTEM DIAGRAMS



Single-zone system: heating/cooling

1 outdoor unit
2 indoor unit
3 heating/cooling zone
4 system inertial storage (optional)
5 bypass*
6 box for signal to generator*

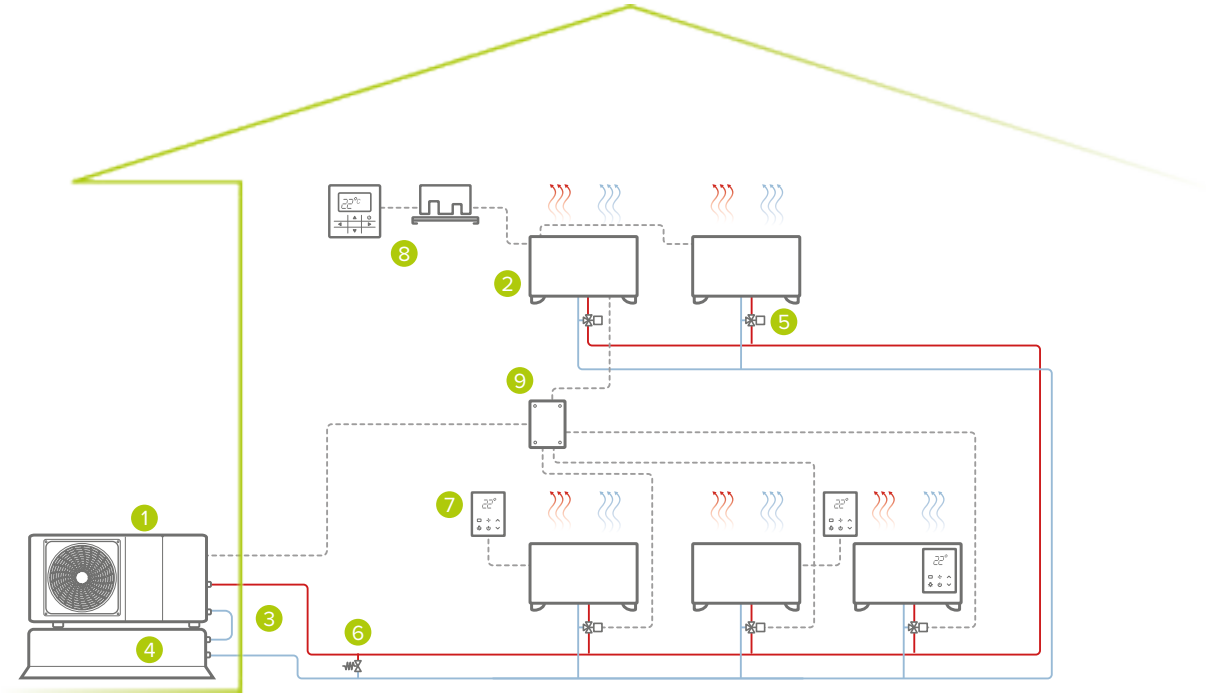


Single-zone system: heating/cooling

1 outdoor unit
2 indoor unit
3 heating/cooling zone
4 3-way valve kit (optional)
5 system inertial storage (optional)
6 bypass*
7 box for signal to generator*

Note: if valves kits are not present in the terminal unit, the heat pump needs to be always operating

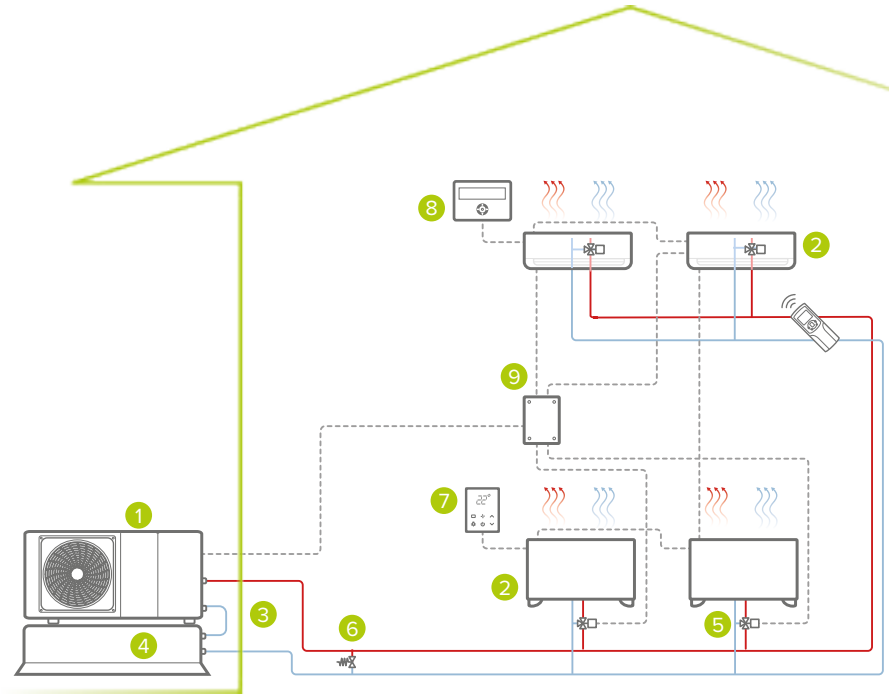
*from external supply



Single-zone system: heating/cooling

1 outdoor unit
2 heating/cooling zone
3 system inertial storage connection kit (optional)
4 system inertial storage (optional)
5 3-way valve kit (optional)
6 bypass*
7 wired control (optional)
8 signal diffuser (optional)
9 box for signal to generator*

Note: if there is no valve kit in the terminals, the heat pump must always be left on



Single-zone system: heating/cooling

1 outdoor unit
2 heating/cooling zone
3 system inertial storage connection kit (optional)
4 system inertial storage (optional)
5 3-way valve kit (optional)
6 bypass*
7 wired control (optional)
8 centralizer (optional)
9 box for signal to generator*

Note: if valves kits are not present in the terminal unit, the heat pump needs to be always operating

*from external supply

HEAT PUMPS FOR DHW (Domestic Hot Water)

AQUA PLUS

AQUA PLUS*

SWAN-2 190÷300

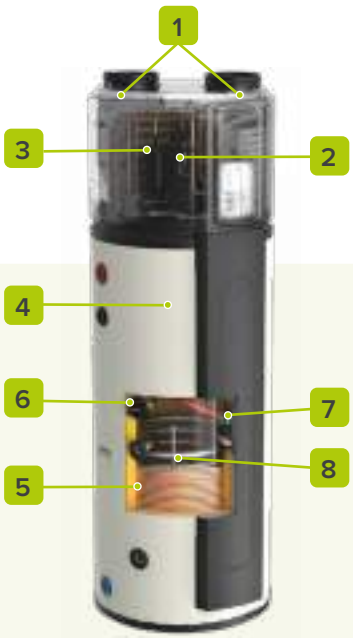
Packaged monoblock heat pump for domestic hot water production

ENERGY SAVING: Integration Heating/DHW; Smart Grid ready
COMFORT: DHW
RELIABILITY: Backup heater; 025
HEALTH: Energy renewable
CONVENIENCE: Integrated DHW tank
MANAGEMENT AND CONNECTIVITY: Input ON/OFF; Port Modbus; ELFOControl management; Control via App

- ✓ Advanced connectivity: management via the App or via the Modbus port with CONTROL4 NRG included as standard
- ✓ Standard supplied with electronic anode, Smart Grid and Photovoltaic contacts and external fan
- ✓ Standard version or with solar integration for combination with ELFOSUN3
- ✓ Operation with heat pump only with the outdoor air between -7°C and 43°C
- ✓ Market-leading A+ efficiency class

Reliable all year round

AQUA PLUS transforms the renewable energy in the air into heat to be used to increase the temperature of the domestic hot water in the storage tank. This is done with minimal use of electricity, so much so that it boasts the market-leading A+ efficiency class.
The total heating capacity available (1.6 kW or 2.2 kW heat pump and 1.5 kW additional heater) means that hot water can always be produced in the best possible way.
Operation with renewable energy alone, which for even more virtuous operations can be enhanced by the contribution of ELFOSUN[3] solar collectors, is guaranteed in practically all climates: between -7°C and 43°C. In extreme conditions, the production of hot water continues in combination with the electric heater with the outdoor air down to -20°C



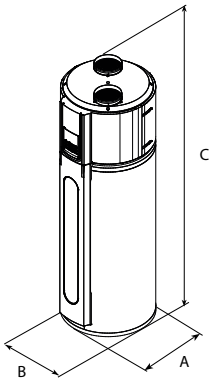
1. AC fan
2. Twin-rotary compressor
3. Air-gas finned exchanger
4. 180-litre/280-litre DHW tank
5. Coil exchanger (wound around the tank)
6. Electronic anode
7. 1.5kW safety/auxiliary heater
8. Solar coil (only on solar version)

accessories

	**VENX**	Additional fan
	**COPX**	Accessory connection cables

	**CA200X**	Adapter to connect a Ø200mm air duct to a Ø190mm connection (for a full kit order 2 pieces)

dimensions and connections



Size			**190**	**190S**	**300**	**300S**
Dimensions	AxCxB	mm	610x1.830x560		700x1.930x650	
Operating weight		kg	287	310	412	434
Refrigerant charge		type / GWP	R-134a / 1.430			
		kg	1,10		1,50	
		CO_2 tons	1,57		2,15	
External diameters	Air	mm	160		190	
	Water	inch	3/4”			
	Condensate drain	mm	10			
	Solar	inch	-	3/4”	-	3/4”

technical data

Size					**190**	**190S**	**300**	**300S**
DHW	Heating capacity	Water 10/53°C Outdoor air 14°C DB/87% UR		kW	**1,59**		**2,16**	
	COP			-	3,69		3,97	
	Heating time			h:min	5:41		6:31	
	Heating capacity	Water 10/53°C Outdoor air 7°C DB/87% UR		kW	**1,38**		**1,84**	
	COP			-	3,29		3,46	
	Heating time			h:min	6:40		7:40	
	Nominal tank volume			l	176	168	284	272
Electrical power for meter sizing				kW	2,10		2,25	
Power heater				kW	1,50			
Seasonal efficiency Medium climate	DHW	Energy class		-	A+		A+	
		Annual energy consumption		kWh/year	890		1.356	
		Withdrawal profile		-	L		XL	
		ηs (seasonal output)		%	115		123	

Technical specifications								
Fan	Air flow rate	Nominal		m^3/h	270		414	
	Available pressure	Water content		Pa	25		45	
Sound power		Water content		dB(A)	51		53	
Sound pressure @1m		Water content		dB(A)	36,6		38,2	
Tank insulation	Material / Medium Thickness[1]			-	PU+ / 50mm			
Thermal dispersions				W/K	0,91		0,94	
Solar pipe coil	Surface			m^2	-	1,10	-	1,30
Maximum operating pressure				bar	10			
Power supply	Voltage/Frequency/Phases			V/Hz/n°	230/50/1			

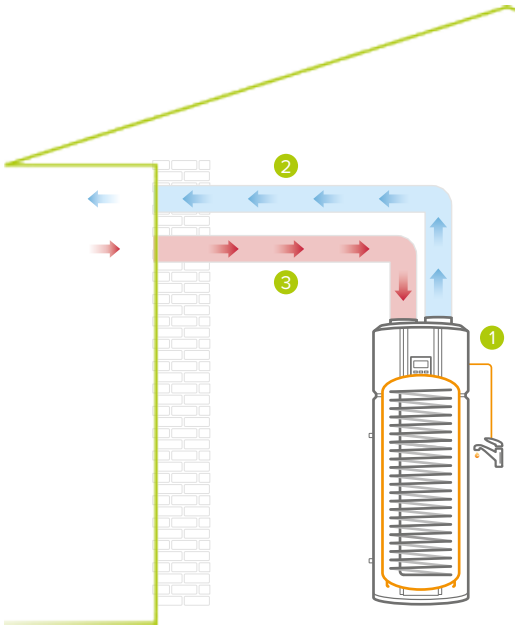
Operating range			
Water temperature	Minimum / Maximum	°C	10 / 70
Operating range (outdoor air)	Minimum / Maximum	°C	-20 / 43

In according to EN 16147 with rigid Ø150 ducted product.

The Product complies with the European ErP Directive (UE Regulations UE 812/2013 - 814/2013)

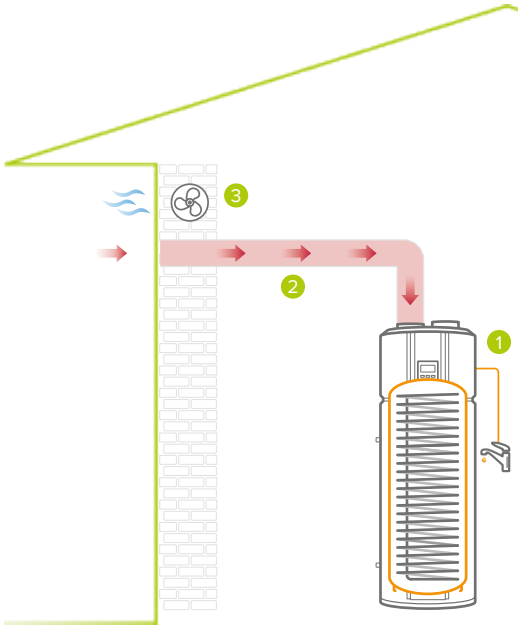
(1) PU+ = Polyurethane foam

system diagrams



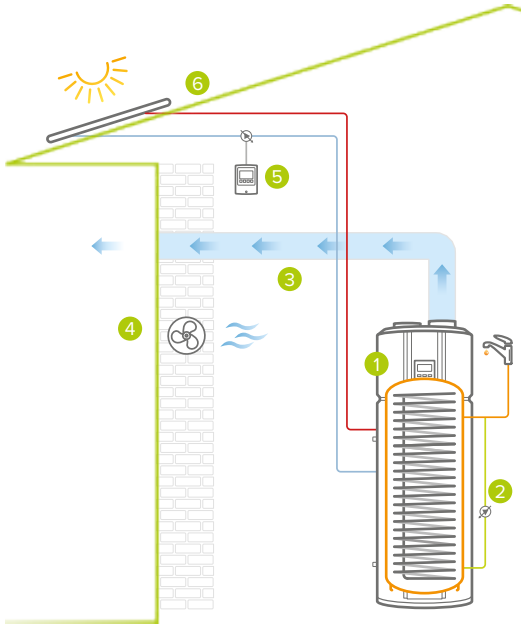
Impianto per produzione di ACS

1 heat pump for DHW
2 exhaust air duct*
3 drawn air duct*



Impianto per produzione di ACS

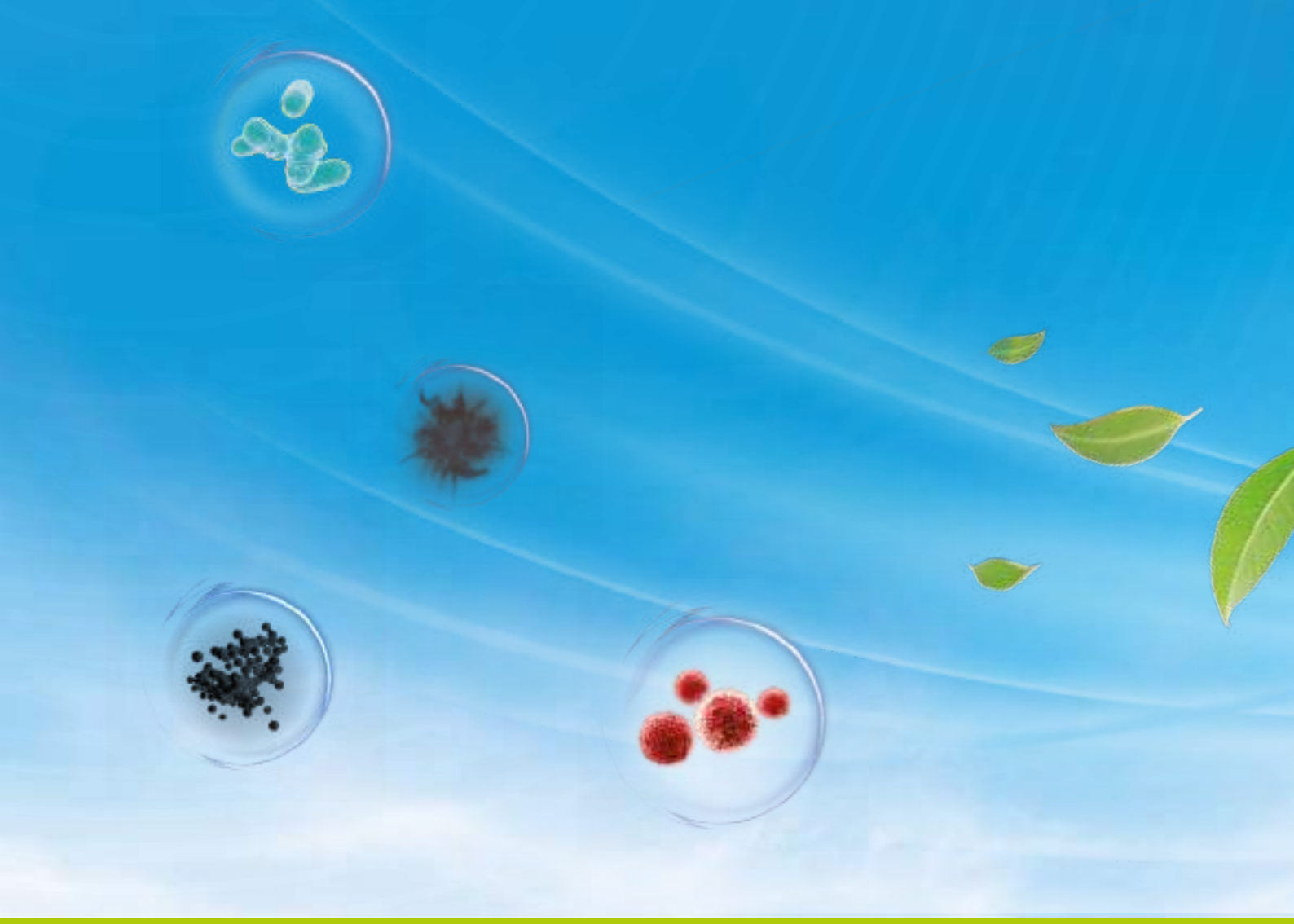
1 heat pump for DHW
2 drawn air duct*
3 ventilation system



System for DHW production with thermal solar:

1 heat pump for DHW with solar system provision
2 DHW recirculation pump*
3 exhaust air duct*
4 ventilation system
5 solar circulation kit (optional)
6 ELFOSun^3 thermal solar (optional)

*from external supply



CONTROLLED MECHANICAL VENTILATION WITH RECOVERY

ELFOFRESH EVO

ELFOFRESH EVO

CPAN-YIN SIZE2

Controlled mechanical ventilation unit with thermodynamic heat recovery

ENERGY SAVING
- Free Cooling / Heating

COMFORT
- Hot Cold
- Silent

RELIABILITY
- Condensate drain pump

HEALTH
- High density filter
- Fresh air renewal
- Purification renewal
- Eco-friendly refrigerant
- Energy renewable

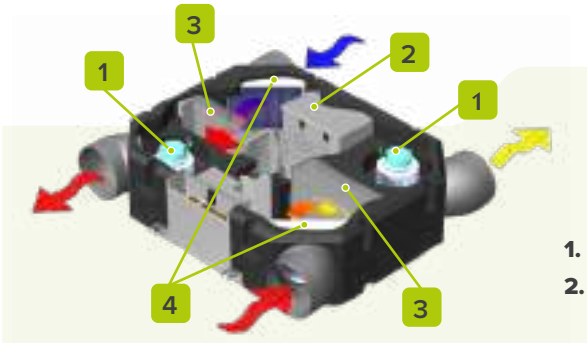
CONVENIENCE
- Weekley Timer

MANAGEMENT AND CONNECTIVITY
- Input ON/OFF
- Port Modbus
- Control via App
- ELFOControl management
- Clivet Eye monitoring

- ✓ Innovative heat recovery system that alone fulfils over 85% of the building's demands
- ✓ Air humidity control
- ✓ Purifies the air with the high efficiency electrostatic filter (optional)
- ✓ Inverter DC compressor and constant flow DC fan for the best modulation operation
- ✓ Advanced connectivity: management via the dedicated SmartHome App or via the Modbus port with CONTROL4 NRG standard supplied

Heats or cools for free

As well as renewing and purifying the ambient air, ELFOFRESH EVO is a real support for the main heating and cooling generator.
Alone, it can fulfil up to 85% of the thermal demands of the house, whereas a traditional passive recuperator can typically only contribute between 10% (in summer) and 45% (in winter).
In spring or autumn, when the weather is mild, ELFOFRESH EVO works mainly in Free Cooling / Heating: it only uses the thermal content of outdoor air for air conditioning, working at virtually zero (energy and economic) cost.
Chosen during design, ELFOFRESH EVO allows a smaller generator to be used: less space and cheaper!



1. DC inverter fan with constant flow
2. Inverter DC rotary compressor
3. Air-gas finned exchanger
4. Air filter

configurations

TYPE OF INSTALLATION:

- **false ceiling (standard)**

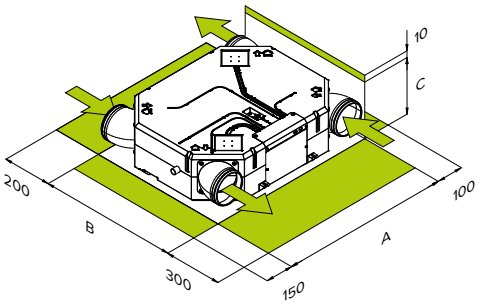
EI in-view installation

AIR FILTRATION:

- **Standard filter (standard)**

FIFD Electronic filters with iFD technology (ISO 16890 ePM1 90%)

dimensions and connections



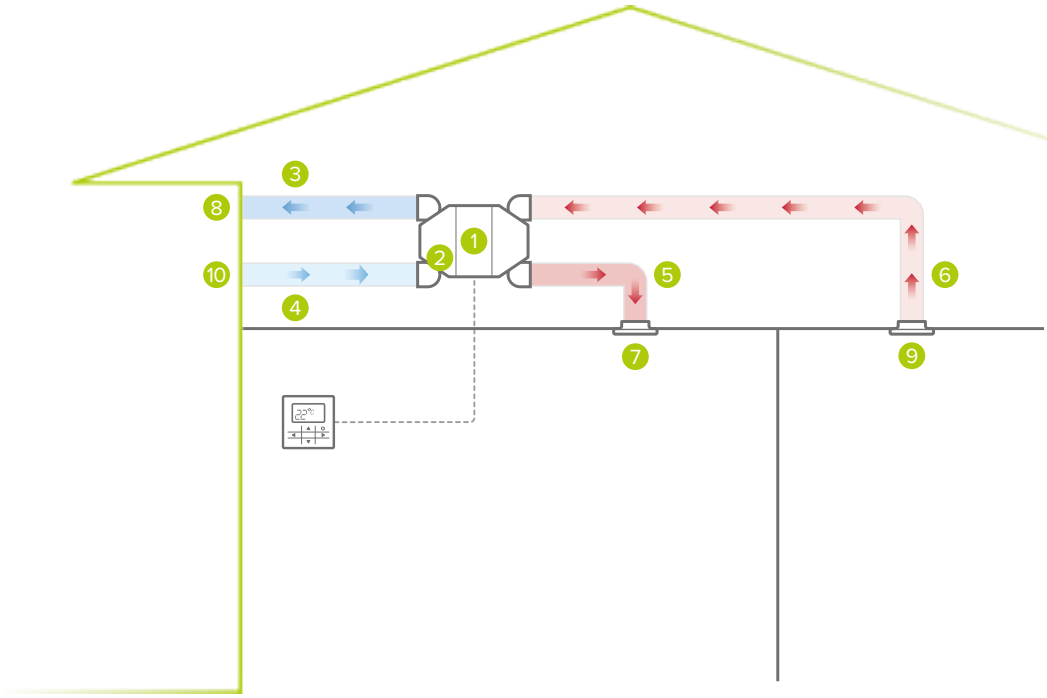
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

Size			**Size 2**
Dimensions	AxCxB	mm	1.107x290x900
Weight		kg	44
Refrigerant charge		tipo / GWP	R-32 / 675
		kg	0,30
		CO_2 tons	0,20
External diameters	Air	mm	200
	Condensate drain	mm	32

technical data

Size					**Size 2**				
Ventilation	Settable air flow			m^3/h	**125**	**150**	**210**	**270**	**320**
	Available pressure		Nominal / Maximum	Pa			50 / 120		
	Fresh Air		-	-			100%		
	Filters type		-	-			Folded filter		
	Filtration class		-	-			PM10 50%		
Winter recovery	Heating capacity	Ambient Air 20 °C/50% UR		kW	**1,42**	**1,55**	**1,86**	**2,05**	**2,49**
	COP	Outdoor air 7 °C/6°C WB		-	3,09	3,69	4,13	4,93	4,61
	Heating capacity	Ambient Air 20 °C/50% UR		kW	1,97	2,1	2,21	2,37	2,45
	COP	Outdoor air -5 °C/80% UR		-	4,93	4,04	4,7	6,5	7,66
Summer recovery	Cooling cpacity	Ambient Air 27 °C/50% UR		kW	**1,57**	**1,64**	**1,73**	**1,92**	**2,23**
	EER	Outdoor air 35 °C/40% UR		-	4,34	3,15	3,26	3,5	2,77
Electrical power for meter sizing				kW			1,08		
Power supply		Voltage/Frequency/Phases		V/Hz/n°			230/50/1		
Sound power			Minimum / Maximum	dB(A)			47 / 58		
Sound pressure @1 m			Minimum / Maximum	dB(A)			34 / 45		
Operating range									
Operating range (Indoor air)	Heating		Minimum / Maximum	°C			15 / 30		
	Cooling		Minimum / Maximum	°C			16 / 30		
Operating range (outdoor air)	Heating		Minimum / Maximum	°C			-20 / 28		
	Cooling		Minimum / Maximum	°C			16 / 45		

Data according to EN 14511: 2022 and referred to available pressure of 50 Pa.



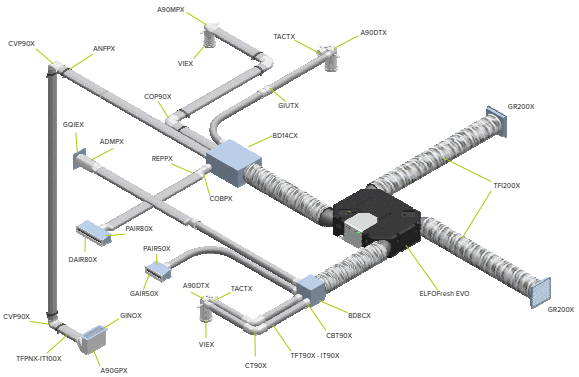
Air renewal system

1 Mechanical ventilation unit with thermodynamic heat recovery
2 integrated electrostatic filter (optional)
3 Exhaust air duct (optional)
4 outdoor air duct (optional)
5 intake air duct (optional)
6 Extracted air duct (optional)
7 Supply grille (optional)
8 Exhaust grille (optional)
9 extraction grille (optional)
10 outdoor air grille (optional)

Note: for the distribution system in detail see the ELFOAir section

ELFOAIR

The air distribution system for ELFOFresh



- ✓ Flexible in installation thanks to the use of flexible and usable ducts
- ✓ Simple in selecting the components and in the installation
- ✓ Air quality assured by the use of antistatic and antibacterial ducts
- ✓ Homogenous air diffusion thanks to the special diffusers AIRJET

ANTISTATIC AND ANTIBACTERIAL

The inner surface of the flexible ducts is lined with a special plastic film treated with silver ions that provides excellent antistatic and antibacterial properties and guarantees top hygiene levels of the treated air.
Furthermore the internal smooth surface of the ducts ensures low pressure drops and therefore reduces consumptions for ventilation.

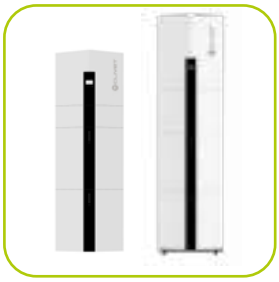
accessories

Internal suction and supply grilles		DAIR50X	AIRJET 50/I supply diffuser - white frame and black inside
		DAIR80X	AIRJET 80/I supply diffuser - white frame and black inside
		GAIR50X	Intake grille + extractable filter AIRJET 50/A - white frame and black inside
		GAIR80X	Intake grille + extractable filter AIRJET 80/A - white frame and black inside
		PAIR50X	Suction/supply plenum with AIRJET 50 control damper - rear connection
		PAIR80X	Suction/supply plenum with AIRJET 80 control damper - rear connection
		GIVEX	Rectangular supply/intake grille 350x130 mm white
		FREX	Filter for rectangular grille 350x130 mm (5pcs)
		VIEX	Extraction/intake valve in ABS DN125 without air filter
		FT125X	Filter for DN125 valve (5pz.)
		GQIEX	Extraction/intake squared grill of DN125 joint with air filter
Round tube distribution (from the distribution box to outlet) (from the distribution box to outlet)		TFT90X	Round hose DN90 (Dint. 78 mm) in 50 m reel without insulation
		IT90X	Insulation in a 15mt. coil for DN90 round flexible tube
		CBT90X	Connector to distribution box for DN90 round tube
		GIUTX	Connecting joint for DN90 round tube
		CT90X	Printed curve of 90-degree angle for DN90 round tube
		A90DTX	90-degree adaptor, double DN90 round tube for DN125 valve
		TACTX	Blind plug for DN90 round tube (5pz.)
		ANFTX	DN90 seal O-Ring (10pz.)

Flat tube distribution (from the distribution box to outlet)		TFPNX	Flat flexible tube 132x52mm in a 20mt. coil without insulation
		IT100X	Insulation in a 20mt. coil for flat flexible tube 132x52
		COBPX	Connector to distribution box for flat tube
		GIUPX	Seal and connecting joint for flat tube (10pz.)
		CVP90X	Vertical 90-degree curve for flat tube
		COP90X	Horizontal 90-degree curve for flat tube
		CTP180X	Joint for 180-degree flat tube rotation
		A90MPX	90-degree adaptor, single tube for DN125 valve
		A90DPX	90-degree adaptor, double flat tube for DN125 valve
		ADMPX	Straight adaptor, single flat tube for DN125 valve
		A90GP2X	90° two-piece flat grid adapter
		TACPX	Blind plug for flat tube (5pz.)
		ANFPX	Fixing ring for flat tube (10pz.)
		REPPX	Flow controller for flat tube
		RTPTX	Round/flat tube connecting joint
		REGPX	Automatic capacity controller DN 75-90 mm (20-50 m^3/h)
External distribution (Ducts from the outside to the unit and from the unit to the distribution boxes)		BD8CX	Distribution box of DN150-200 joint with 8 connections
		BD14CX	Distribution box of DN200 joint with 14 connections
		TFIS150X	DN150 soundproofing insulated flexible tube in a 10mt. coil
		TFIS200X	DN200 soundproofing insulated flexible tube in a 10mt. coil
		TFIS250X	DN250 soundproofing insulated flexible tube in a 10mt. coil
		GR150X	Exhaust / return square wall grille with circular coupling DN150
		GR200X	Exhaust / return square wall grig with circular coupling DN200
		GR250X	Exhaust / return square wall grig with circular coupling DN250
		GF150X	F/F DN150 Joint
		GF200X	F/F DN200 Joint
		GF250X	F/F DN250 Joint
		R2015X	DN200-DN150 Reducer
		R2520X	DN250-DN200 Reducer
		DY200X	DN200-DN200-DN200 Y-branch
		DY250X	DN250-DN200-DN200 Y-branch

System control and all-in-one system solutions

CONTROL4 NRG



SINERGY

Clivet EYE

HID-TConnect2

Centralised systems

CONTROL4 NRG

Comfort and energy assistant for Clivet Smart Living

COMFORT

- Summer, winter and DHW management
- Humidity control
- Air quality renewal and monitoring
- ECO
- Differentiated temperatures per area
- Underfloor system, fancoils, radiators

CONVENIENCE

- Scheduling
- Away
- Weather forecast
- Voice control
- ON / OFF
- Auxiliary load scheduling

ENERGY OPTIMISATION

- Total system management dashboard
- Weekly energy produced/consumed dashboard
- Weekly energy accumulated dashboard
- Class A environmental control
- Heat pump set-point compensation
- Quick start-up
- Instantaneous energy

- ✓ Intelligent coordination of all Clivet devices such as heat pumps, fan coils, air renewal and air purification systems for optimal comfort;
- ✓ Dynamic energy management through Smart Living logics towards energy independence
- ✓ Simultaneous and independent comfort management of up to 24 climate areas
- ✓ Temperature management, humidity control, air quality monitoring;
- ✓ Comfort management from anywhere, always connected with the Clivet Eye App
- ✓ Integration with the KNX (Konnex) system provides area comfort control using KNX thermostats

Comfort becomes smart

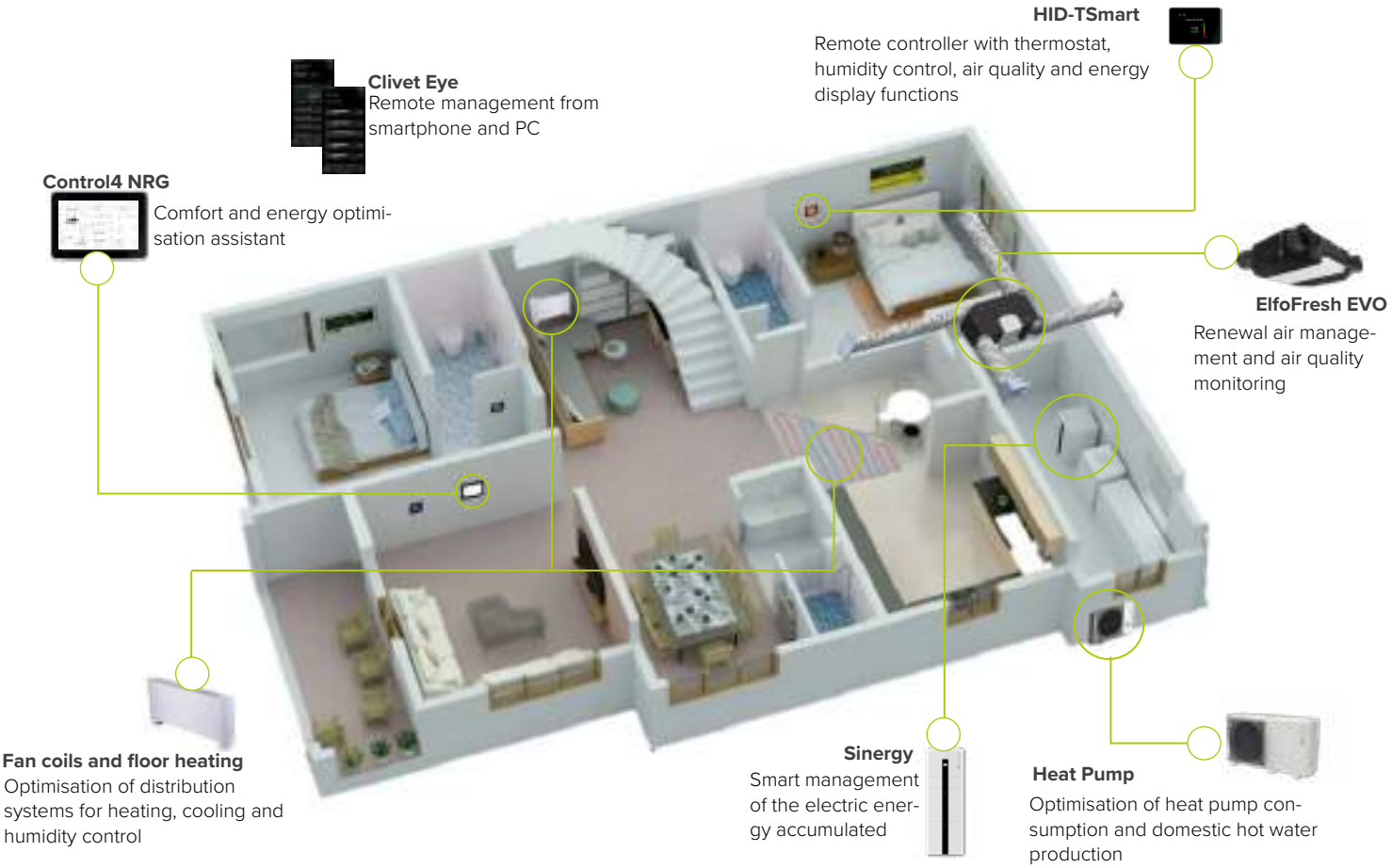
CONTROL4 NRG is the energy and comfort assistant for your house that puts the Clivet Smart Living system at your fingertips. Specific features developed to make the electric house more intelligent and welcoming, optimise energy consumption and improve house comfort, customised to your needs.

Voice assistants

Voice assistants, or more commonly known as Voice Skills, improve accessibility for people with visual or motor disabilities, allowing access to the system (or equipment) without having to physically interact with the devices.
Thanks to Alex voice skills, developed specifically for Clivet, it is possible to interact with the Smart Living system not only to set the best level of ambient comfort and well-being, but also to be kept up-to-date on energy trends and the level of independence.

Clivet Smart Living

Clivet Smart Living is an integrated solution for comfort and energy management in residential and small business applications. Smart Living optimises air conditioning consumption and focuses on energy self-sufficiency. Based on the availability of electric energy produced by the photovoltaic system, the system ensures optimal comfort for living environments and at the same time prevents peaks in electrical consumption typical of the evening hours, due to the heat pump switching on, while also using the Sinergy electrical storage to power domestic users.



HID-TSmart

HID-TSmart is not only a smart thermostat, it is also an extension of CONTROL4 NRG that can provide information on the main system operating parameters simply and immediately: it allows you to acquire information on the temperature, relative humidity, energy consumption, energy produced by the photovoltaic system, charging level of the Clivet SINERGY electric water tank and, lastly, to set the desired temperature It is enhanced with area control that allows you to set the system mode and ventilation level.

3,5" full touchscreen

CONTROL4 NRG version

S-W	Ethernet port, no Wi-Fi connectivity. White color
S-B	Ethernet port, no Wi-Fi connectivity. Black color
WIFI-W	Ethernet port and Wi-Fi connectivity. White
WIFI-B	Ethernet port and Wi-Fi connectivity. Black

technical data

CONTROL4 NRG		
Display dimensions	inches	7"
Display type		TFT color
Power supply voltage	Vdc	12
Capacity	VA	10
Protection rating		IP 20
Weight	kg	0,5
Dimensions	mm	190 x 130 x 56

accessories

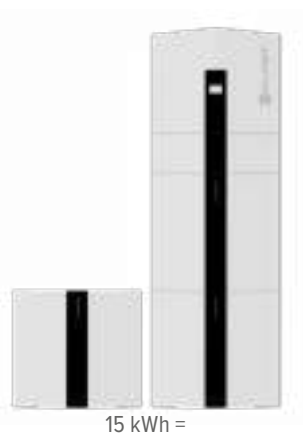
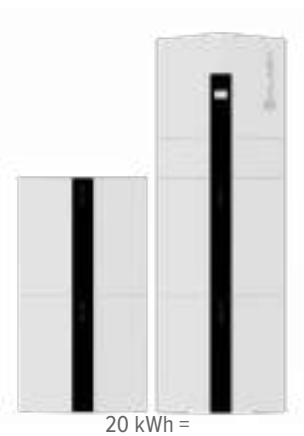
Home automation connection		**DOMX**	Device for connection with home automation systems	53 x 92 x 63 mm
Energy management		**M1NRGX**	Single-phase electricity meter with EIA-485 ModBUS serial	53 X 32 X 63 mm
		**M3NRGX**	Three-phase electricity meter with EIA-485 ModBUS serial	17,5 X 90 X 68,3 mm
Communication with the room thermostat for temperature and humidity control		**HTSBWX**	White HID-TSmart thermostat with temperature sensor	112 x 77 x 18 mm
		HTSBBX	Black HID-TSmart thermostat with temperature sensor	
		HTSPWX	White HID-TSmart thermostat with temperature and humidity sensor	
		HTSPBX	Black HID-TSmart thermostat with temperature and humidity sensor	
		**z-IAQX**	Acquisition of temperature, humidity, noise, VOC carbon monoxide, carbon dioxide and methane values	110 x 70 x 28 mm
		**HIDURX**	Temperature and humidity probe - uncased installation.	22 x 45 x 50 mm
		**HIDURMX**	Temperature and humidity probe with RS-485 port for bus installation - uncased installation.	22 x 45 x50 mm
Management of radiant panels (heat and cool), radiators, fan coils, heated towel rails, Management of zone valve, circulation pump, remote start-up		**BMZRX**	Module for managing up to 6 control outputs for shut-off valves supplying radiant panels, radiators or heated towel rails. Generic input/ output functions.	157 x 90 x 60 mm 9 DIN modules
		**AL12X**	Power output 12VCC 2A	85 x 90 x 65 mm 4 DIN modules
		**CMRSX**	Module to manage up to 1 HID thermostat and 1 control output, shut-off valves to feed radiant panels, radiators or heating furniture	105 x 90 x 60 mm 6 DIN modules
		**EMRSX**	Mixing unit control module for managing a section of the circuit at a different temperature to that of the main system.	105 x 90 x 60 mm 6 DIN modules
		**FCM010X**	Fan coil control module with 0..10V output.	105 x 90 x 60 mm 6 DIN modules

SINERGY

Inverter Module: CEC-S 5K, CEC-S 3K

Battery pack: CEC-S B 5K

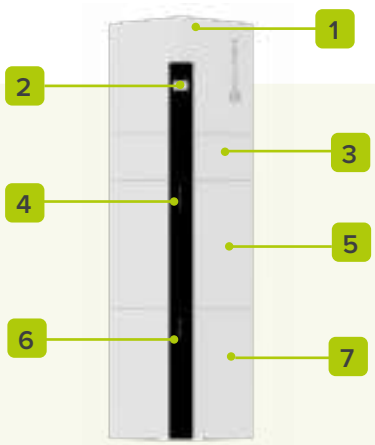
Single-phase version

Sinergy 51.05	Sinergy 51.10	Sinergy 51.15	Sinergy 51.20
			
5 kWh = 1 inverter module 1 5 kWh battery pack	10 kWh = 1 inverter module 2 5 kWh battery packs	15 kWh = 1 inverter module 3 5 kWh battery packs	20 kWh = 1 inverter module 4 5 kWh battery packs

- ✓ 5 kW single-phase 230Vac hybrid inverter
- ✓ Modular system with up to 4 storage tanks for capacities of 5/10/15/20 kWh
- ✓ Dual MPPT input for 6.5 kW photovoltaic system
- ✓ On-grid function and integrated 5 kW back-up output for connecting loads in the event of a power failure
- ✓ “Anti-islanding” protection system
- ✓ 10,000 charging / discharging cycles
- ✓ Extended operating range from -25 °C to +60 °C
- ✓ IP65 protection rating

self-consumption optimisation

The SINERGY water tank system is Clivet’s solution for storing the electric energy produced by the photovoltaic system during daylight hours and using it to power the air conditioning and domestic hot water production system during the night or in the event of a grid energy failure. Combined with the Control4 NRG energy assistant, the SINERGY range of electric accumulators ensures maximum self-consumption and energy independence in the house.
SINERGY is suitable for both new and existing installations. Thanks to the high degree of protection and operating range, SINERGY can be installed outdoors.
The special construction technology of the lithium iron-phosphate cell batteries provides a system life of up to 10,000 charging and discharging cycles.



1. 5 kW / 3.68KW hybrid inverter including 2 MPPT inputs totalling 6.5 kW (4.8kW in the 3.68kW version)
2. Display
3. Cable entry for connection to the system
4. Battery pack charge level indicator
5. 5 kWh battery pack including BMS (battery management system)
6. Battery pack charge level indicator
7. 5 kWh battery pack including BMS (battery management system)

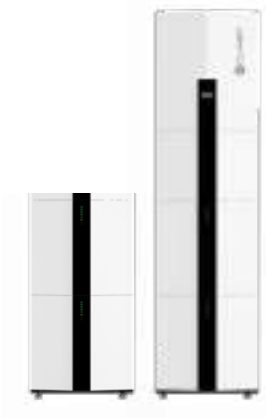
Three-phase inverter module: CEC-T 10K
Battery pack: CEC-S B 5K

Three-phase version

Sinergy 103.10

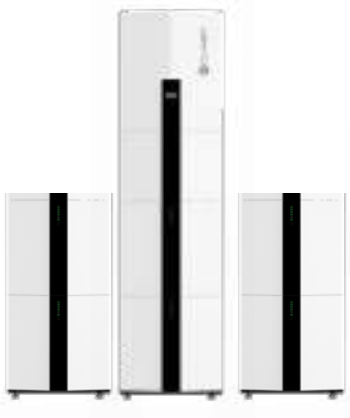
10 kWh
2 5 kWh battery packs

Sinergy 103.20



20 kWh
4 5 kWh battery packs

Sinergy 103.30



30 kWh
6 x 5kWh single battery pack

Sinergy 103.40

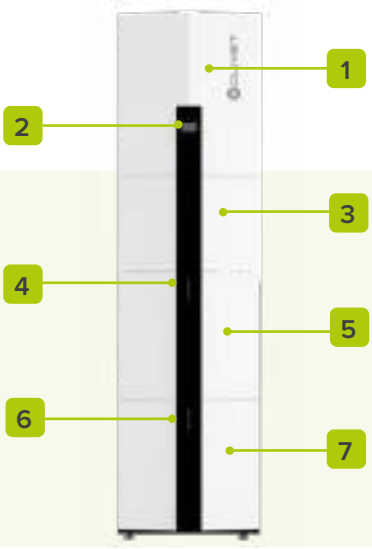
40 kWh
8 x 5kWh single battery pack

- ✓ 10 kW three-phase 400Vac hybrid inverter
- ✓ Modular system with up to 8 water tanks for capacities of 10/20/30/40 kWh
- ✓ Dual MPPT input for 20 kW photovoltaic system
- ✓ On-grid function and integrated 10 kW back-up output for connecting loads in the event of a voltage failure
- ✓ «Anti-islanding» protection system
- ✓ 10,000 charging / discharging cycles
- ✓ Extended operating range from -25 °C to +60 °C
- ✓ IP65 protection rating

parallel connections

The three-phase Sinergy CEC-T 10K hybrid inverters can be connected in parallel, up to a maximum of 4 systems. This solution allows for greater scalability of systems and expands the application range of residential storage systems. Among the major advantages:

- ✓ Greater scalability that means that the overall power and capacity of the system can be expanded, even at a later date
- ✓ Perfect for those who want to start with a smaller system and then increase its power and capacity in the future
- ✓ More flexibility in system configuration to adapt to the different space and layout requirements
- ✓ Load distribution over multiple inverters, thereby reducing the stress on each component and extending its lifecycle
- ✓ The photovoltaic range remains independent in each system



1. 10 kW hybrid inverter including 2 MPPT inputs totalling 20 kW
2. Display
3. Cable entry for connection to the system
4. Battery pack charge level indicator
5. 5 kWh battery pack including BMS (battery management system)
6. Battery pack charge level indicator
7. 5 kWh battery pack including BMS (battery management system)

Operating mode

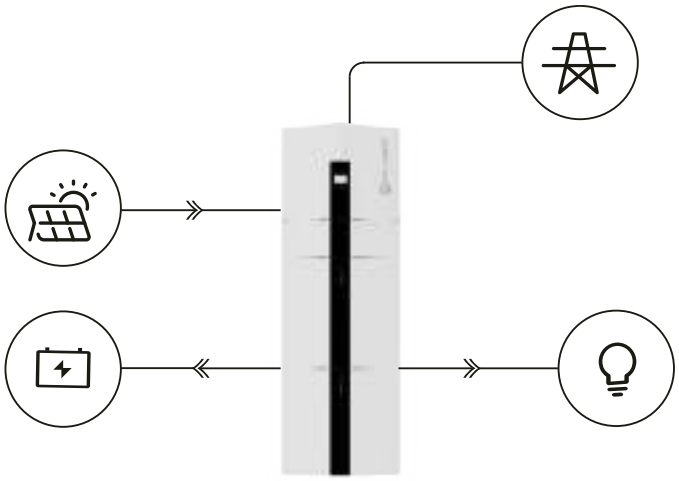
Self-consumption

The energy generated by the solar panels will be used in the following order:

1. to supply domestic loads
2. to charge the battery
3. Charging via grid again

When there is no sun, the battery will support the load to improve self-consumption.

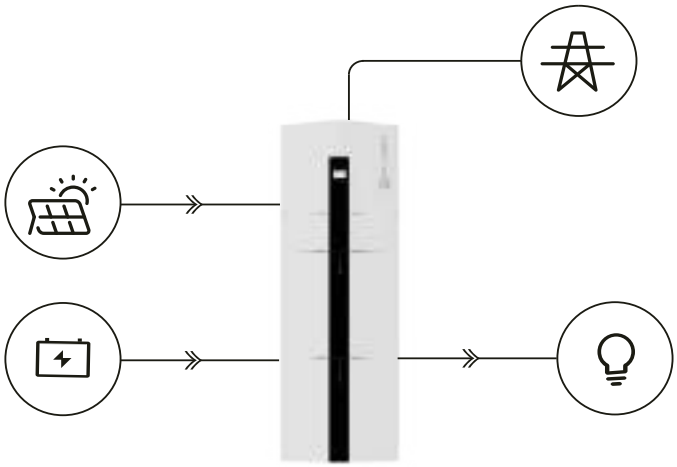
If the power supply from the batteries is not enough, the grid will supply the load demand.



Battery charging priority

In this mode, the battery is only used as a backup power supply when the grid fails, and as long as the grid works, the batteries will not be used to supply the loads.

The battery will be charged with the energy generated by the photovoltaic system or by the grid.



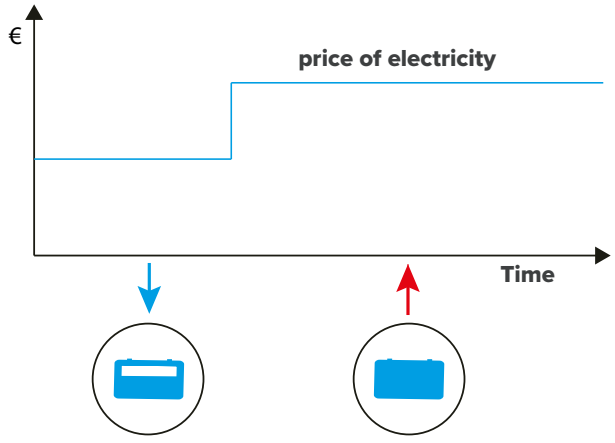
Recharging using a time slot

This mode is used to activate the timed charge and discharge functions.

Used to charge the battery from the grid in the absence of a photovoltaic system.

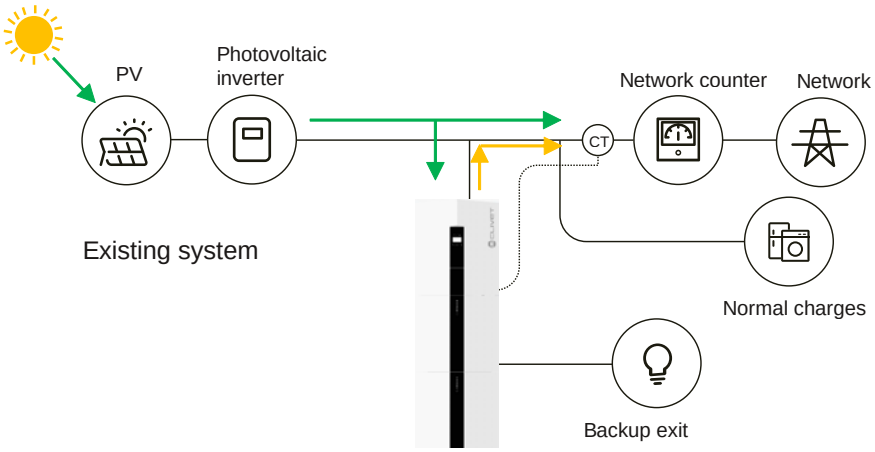
Two (2) charge and discharge time slots (adjacent)
time slot 1 – charge and discharge
time slot 2 – charge and discharge

Example:
fascia 1 – 8.00..12.00 (charge) and 12.00..16.00 (discharge)
fascia 2 – 16.00..24.00 (charge) and 00.00..8.00 (discharge)



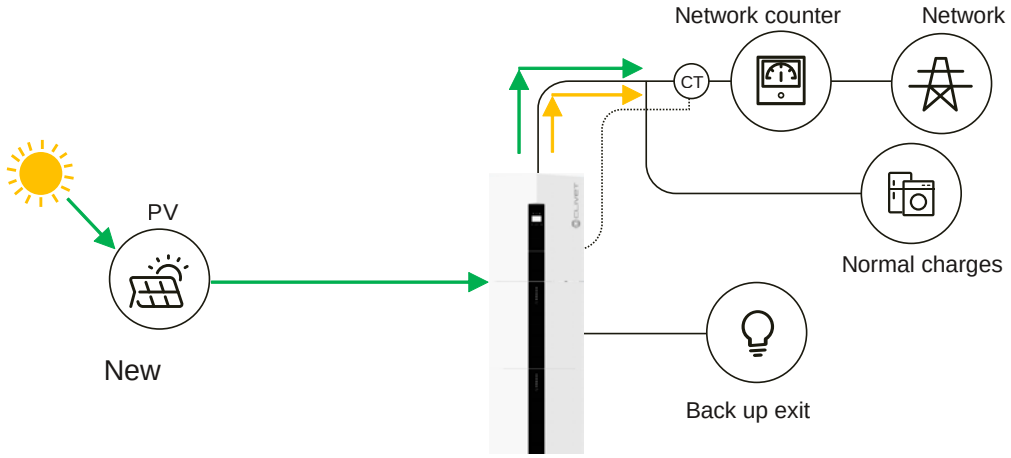
Existing system

Connection to an existing system is made without replacing existing inverters and photovoltaic panels.
The SINERGY system automatically stores the energy produced by the panels when it is not used by users connected to the grid.
The photovoltaic inverter inputs are not used in this case.
Installation is direct to the home network without additional wiring and/or connections.



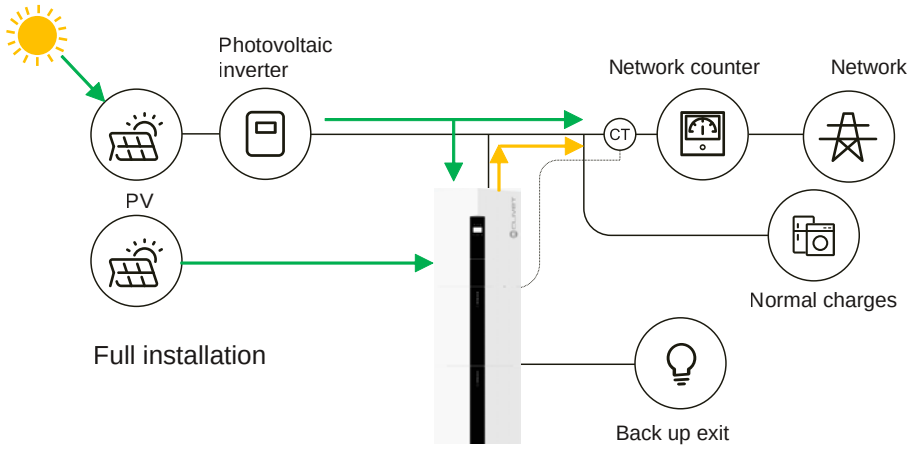
New system

In new installations, the photovoltaic system strings can be connected directly to the two direct current inputs in Clivet's SINERGY inverter.
The inverter has 2 MPPT inputs for connecting photovoltaic panels.
This configuration keeps the photovoltaic inverter costs low.



full installation

SINERGY makes it possible to extend the photovoltaic range and have more installed power.
In this type of installation, the new photovoltaic system can be installed without changing the existing system.
The inverter has 2 MPPT inputs for connecting photovoltaic panels.
Newly installed panels can be connected directly to the two direct current inputs in Clivet's SINERGY inverter.



Battery pack characteristics

Physical	
Battery type	LFP (LiFeO4)
Weight	57 kg
Dimensions W x H x D	540 x 530 x 250 mm
IP protection	IP65
Warranty	5 years on product, 10 years on performance

Operation	
Max. Charge/Discharge Current	50A/80A
Operating temperature range	0..50°C charging
Operating temperature range	'-10..50°C discharging
Humidity	0°C ~ 95% (non condensante)

Electrical Data	
Energy capacity	5,12kWh
Usable capacity	5,0 kWh
Depth of discharge (DoD)	0,9
Nominal Voltage	51,2V
DC Circuit Breakers	125A
Operating Voltage Range	44,8 - 56,6V
Internal Resistance	<20mΩ
Cycle life (charge/discharge)	10.000 cycles

BMS	
Modules connection	Up to 4 modules in single-phase systems Up to 8 modules in three-phase systems
Capacity	100-400Ah in single-phase systems 200-800Ah in three-phase systems
Power consumption	<2W

Safety (cells)
Pack: IEC/EN 62619;UN38.3
Cell: IEC/EN 62619;UN38.3;UL1973

Single-phase inverter characteristics

PV String Input	CEC-S 5K	CEC-S 3K
max PV input power	6.500W	4.800W
Max. DC Voltage	580V	
Nominal Voltage	400V	
MPPT Voltage Range	80V-560V	
Start Voltage	130V	
Number of MPP Tracker	2	
Strings Per MPP Tracker	1	
Max. Input Current Per MPPT	15A	
Max. Short-circuit Current Per MPPT	18A	

AC Output (Grid)	CEC-S 5K	CEC-S 3K
Nominal AC Output Power	5.000W	3.680 W
Max. AC Apparent P ower	7.360VA (from grid)	
Max. AC Output Power	5.000W (1)	
Nominal AC Voltage	230Vac	
AC Grid Frequency Range	50/60 Hz ±5Hz	
Max. Output Current	22A (2)	16Aa.c.
Max. Input Current	22A (2)	
Power Factor (cosΦ)	0.8 leading - 0.8 lagging	
THDi	< 3%	

Battery Input	CEC-S 5K	CEC-S 3K
Battery type	LFP (LiFePO4)	
Nominal Battery Voltage	48V	
Max. Charging Voltage Range	40-60V	
Max. Charging Current	100A	50A
Max. Discharging Current	100A	80A
Battery Capacity	100-400Ah	
Maximum charge/discharge power	4.600/5.000W	3.000 W / 4.000 W

AC Output (Backup)	CEC-S 5K	CEC-S 3K
Max. Output Apparent Power	5.000 W	4.000 W
Max. Output Current	20A	16A
Nominal Output Voltage	230V	
Nominal Output Frequency	50/60Hz	
Output THDv (@Linear Load)	<3% (Linear Load)	

Efficiency	CEC-S 5K	CEC-S 3K
Max. PV Efficiency	97,0%	

Protection	CEC-S 5K	CEC-S 3K
Anti-islanding Prote ction	YES	
Output Over Current	YES	
DC Reverse Polarity Protection	YES	
String Fault Detection	YES	
AC/DC Surge Protection	DC type II; AC type III	
Insulation Detection	YES	
AC Short Circuit Protection	YES	

General Specifications	CEC-S 5K	CEC-S 3K
Dimensions W x H x D	540 x 610 x 250 mm	
Weight	36kg	
Operating Temperature Range	-25°C ~ +60°C	
Humidity	0°C ~ 95% (non condensing)	
Noise (dB)	<25	
Cooling Type	Natural convection	
Max. Operation Altitude	2.000m	
IP Class	IP65	
Communication	RS485	
Display	LCD	

Certification & Standard
IEC/EN 62109-1&2;IEC/EN61000-6-1;IEC/EN61000-6-2;EN61000-6-3; IEC/EN61000-6-4;IEC/EN61000-3-11;
EN61000-3-12;IEC60529;IEC 60068;IEC61683;IEC62116;IEC61727;EN50549-1;
AS 4777.2;NRS 097;VDE-AR-N-4105;CEI0-21;G98;G99;C10/C11
NOTE
1. Nominal AC output power is 4999W for Australia and 4600W for Germany and South Africa
2. Maximum output current is 21.7A for Australia and 20A for Germany and South Africa

three-phase inverter characteristics

PV String Input

max PV input power	20.000 W
Max. DC Voltage	1.100V
Nominal Voltage (DC)	720V
MPPT Voltage Range	140V-1.000V
MPPT Voltage Range (full load)	420V-850V
Start Voltage	130V
MPPT string inputs	2
Strings Per MPP Tracker	1
Max. Input Current Per MPPT	15A
Max. Short-circuit Current Per MPPT	20A

AC Output (Grid)

Nominal AC Output Power	10.000W
Max. AC Apparent P ower	11.000VA
Max AC input power	17.800W (from grid)
Nominal AC Voltage	230V/400Vac 3P+N+PE
AC Grid Frequency Range	50/60 Hz ±5Hz
Max. Output Current	16A
Max. Input Current	25A
Power Factor (cosΦ)	0.8 leading - 0.8 lagging
THDi	< 3%

Battery Input

Battery type	LFP (LiFePO4)
Nominal Battery Voltage	51.2V
Max. Charging Voltage Range	44-58V
Max. Charging Current	160A
Max. Discharging Current	200A
Battery Capacity	200-800Ah
Maximum charge/discharge power	8.000/10.000W

Certification & Standard
Grid regulation: EN50549-1, VDE-AR-N4105, CEI 0-21
Safety regulation: IEC/EN 62109-1&2, IEC62040-1,IEC62619
EMC: EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4,EN61000-3-2, EN61000-3-3, EN61000-3-11,EN61000-3-12

AC Output (Backup)

Max. Output Apparent Power	10.000VA
Nominal AC Output Power	9.200W
Max. Output Current	14.5A
Nominal Output Voltage	230/400Vac , 3P+N+PE
Nominal Output Frequency	50/60Hz
Output THDv (@Linear Load)	<3% (Linear Load)

Efficiency

Max. PV Efficiency	98,1%

Protection

DC Switch	Bipolar DC Switch (125A/Pole)
Anti-islanding Prote ction	YES
Output Over Current	YES
DC Reverse Polarity Protection	YES
String Fault Detection	YES
AC/DC Surge Protection	DC type II; AC type III
Insulation Detection	YES
AC Short Circuit Protection	YES

General Specifications

Dimensions W x H x D	540 x 980 x 250mm
Weight	54kg
Operating Temperature Range	-25°C to +60°C, derating above 45 °C
Humidity	0°C ~ 95% (non condensing)
Noise (dB)	<25
Cooling Type	Natural convection
Max. Operation Altitude	2.000m
IP Class	IP65
Communication	RS485
Display	LCD

new APP

Clivet Eye

Smart Living remote monitoring and management system

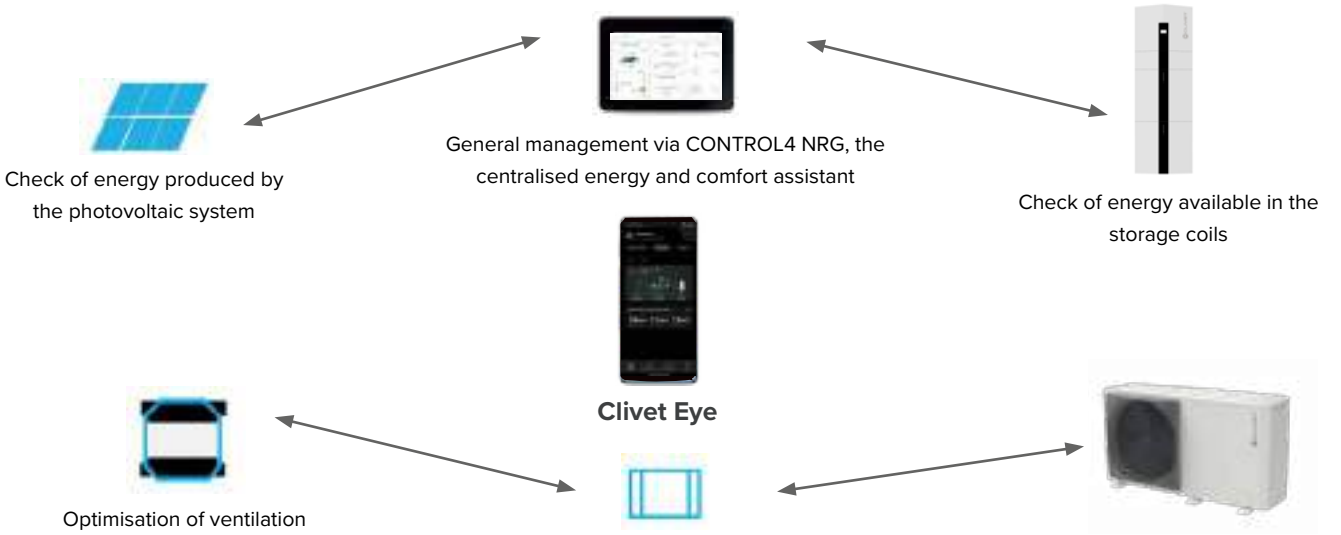
- ✓ App and PC control of all elements connected to Clivet Smart Living
- ✓ Display of system energy data
- ✓ Display of any malfunctions of individual air conditioning control system elements
- ✓ Accessible from the App and web browser via PC
- ✓ App available on Android and iOS platform

General characteristics

Clivet Eye is the IoT platform for interconnecting all Clivet solutions securely and reliably with end users and residential professionals . Clivet Eye allows users to take advantage of all the services related to remote access and optimisation of air conditioning systems. The most relevant information of the Smart Living system such as Sinergy, for electricity storage and heat pump units can be easily consulted through a modern interface.

Smart Living from a single App

Clivet Eye combines management of all the elements that make up the Clivet Smart Living and the energy produced and consumed by the house in a single App. Management via the App is possible through connection with the CONTROL4 NRG energy and comfort assistant, which combines all system parameters and optimises operation of the entire system.



Home page

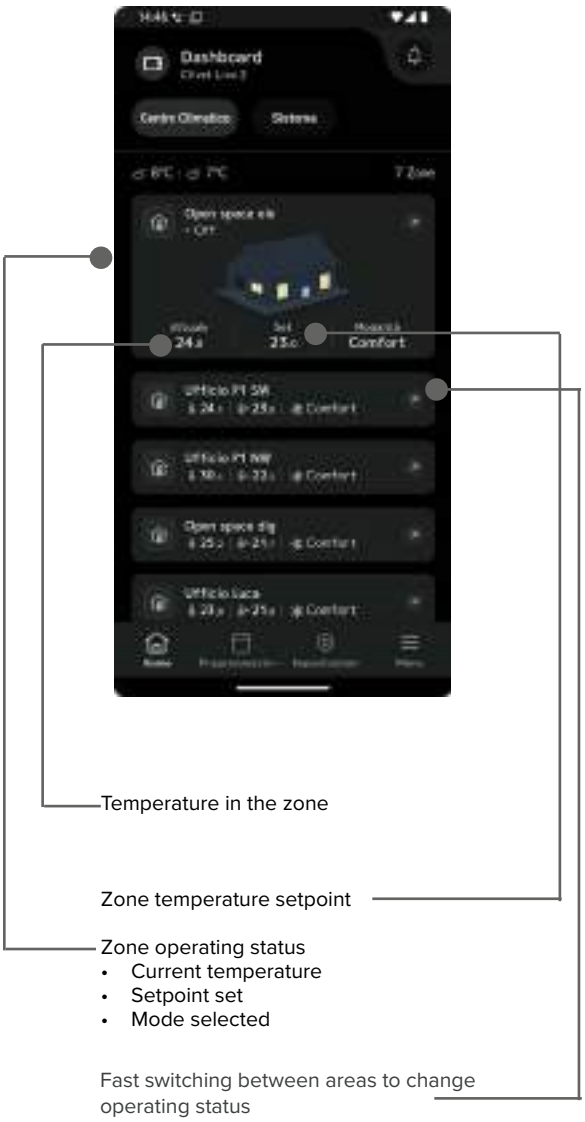
Display of the status of all devices connected to CONTROL4 NRG.

Energy dashboard shows:

- Photovoltaic system with real time power output value
- Energy consumed by the building
- Charge and discharge levels of the Sinergy storage system

New “Climate Centre”

For each of the 24 independent climate areas, the relevant setpoint can be set so as to always obtain the ideal comfort levels.



The screens shown are for demonstration purposes only.

Scheduler

Allows you to schedule comfort in each independent area from the App

Creation of new schedules for a calendar event

Application of existing schedules

Energy page

Designed to display the energy data of the last 7 days.

Energy produced by the photovoltaic system

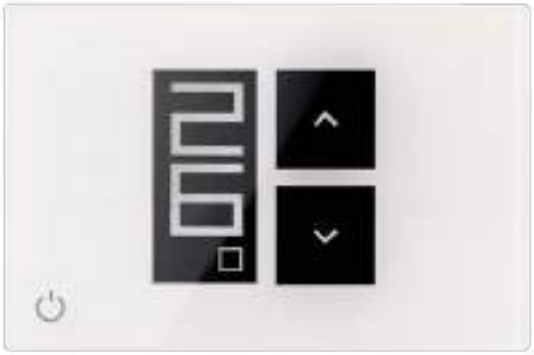
Total energy consumed by the system (air conditioning system and domestic users)

Single day energy values

The screens shown are for demonstration purposes only.

HID-TConnect2

Chronothermostat with temperature control and management via App /Voice control



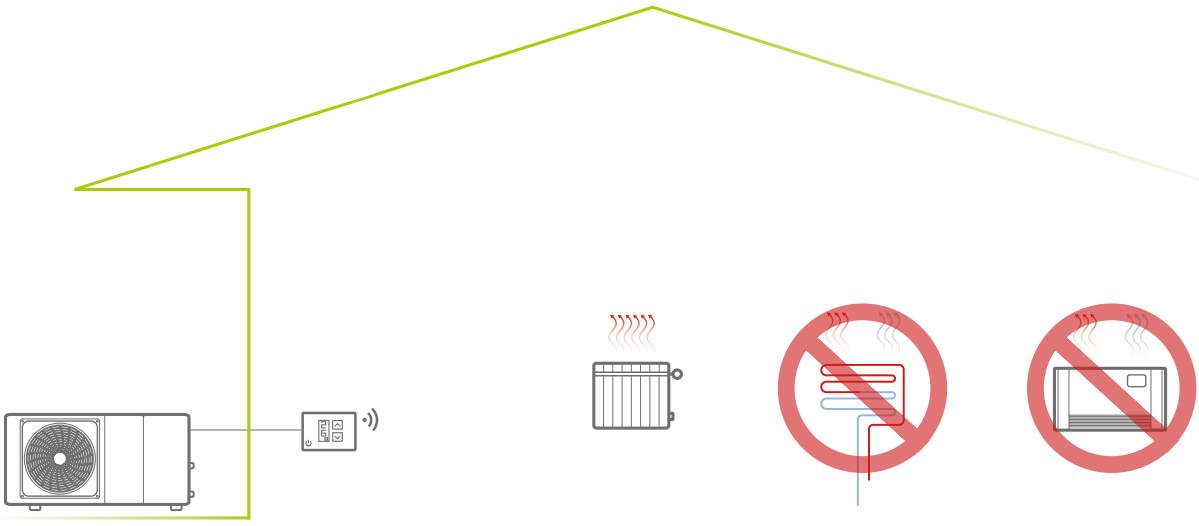
- ✓ Touch-screen management via a thermostat, via App from your smartphone, via Alexa / Google Home with voice-activated control
- ✓ Manages the mode change or call in two areas (with the SwitchConnect accessory)
- ✓ Can be connected via Wi-Fi to create a wireless system (with the SwitchConnect accessory)
- ✓ Option of setting a limitable setpoint for installation in B&Bs or hotel rooms

Management via App

HID-TConnect2 is managed as standard supplied with the dedicated Clivet Home Connect App, available on Google Play and App Store. This is used to set the main functions, such as changing the ambient set-point or weekly scheduling, or to check the temperature and consumption log.

Cabled connection to the generator

HID-TConnect2 can be wired directly to the heat pump without additional accessories: ideal to manage a heat-only radiator system.

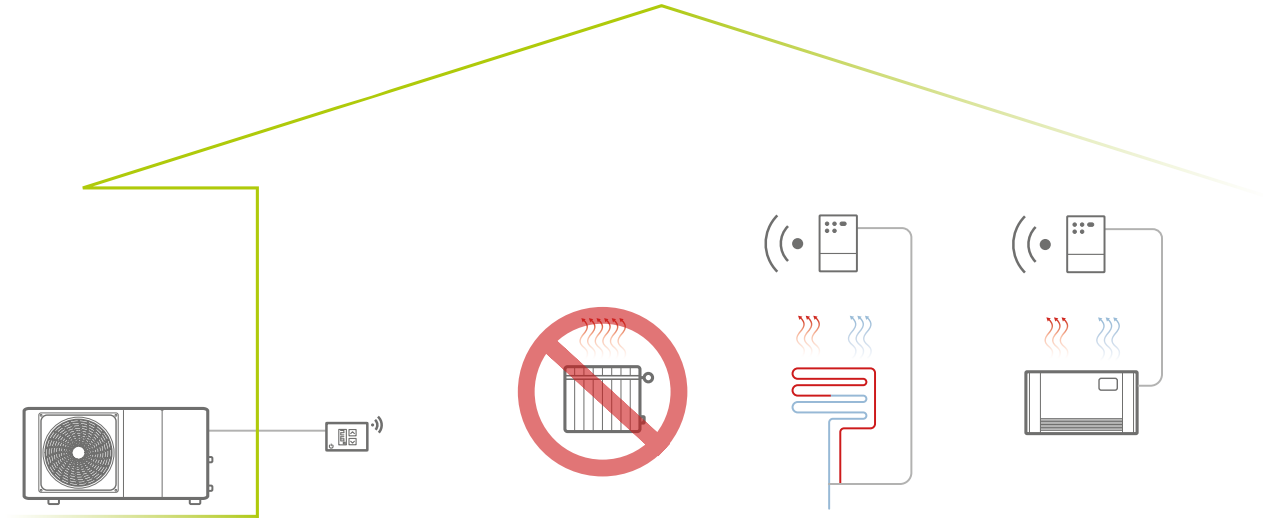


Note: mode change and distribution system management not available

SOLUTIONS

Cabled connection to the generator and Wi-Fi distribution connection

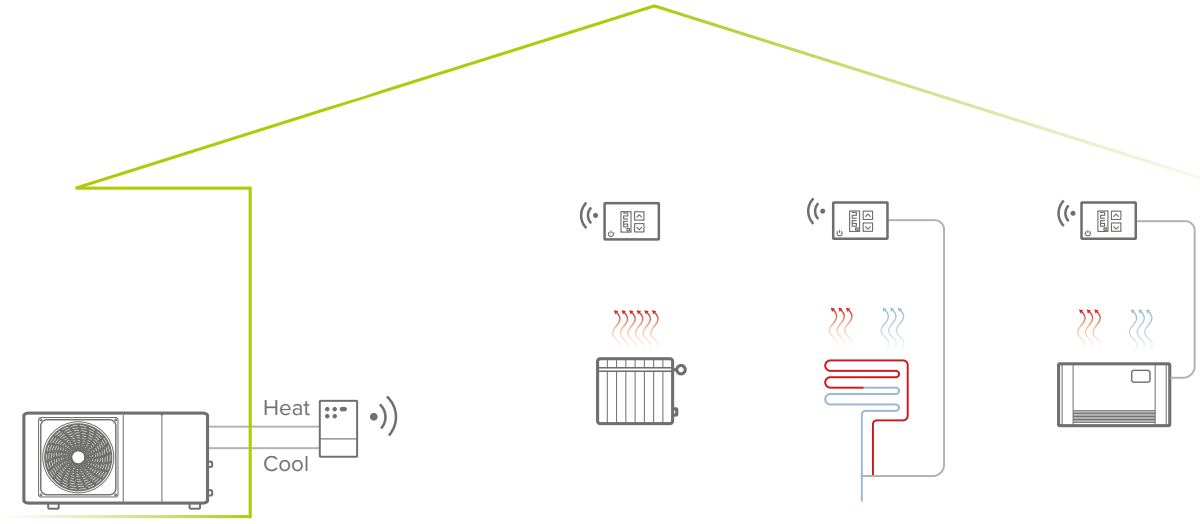
HID-TConnect2 can be wired to the heat pump and communicate via Wi-Fi with up to 2 Connect Switches. Each of these accessories is equipped with a relay that can manage the opening/closing of the heads of a radiant system or the remote ON/OFF of a fan coil unit.



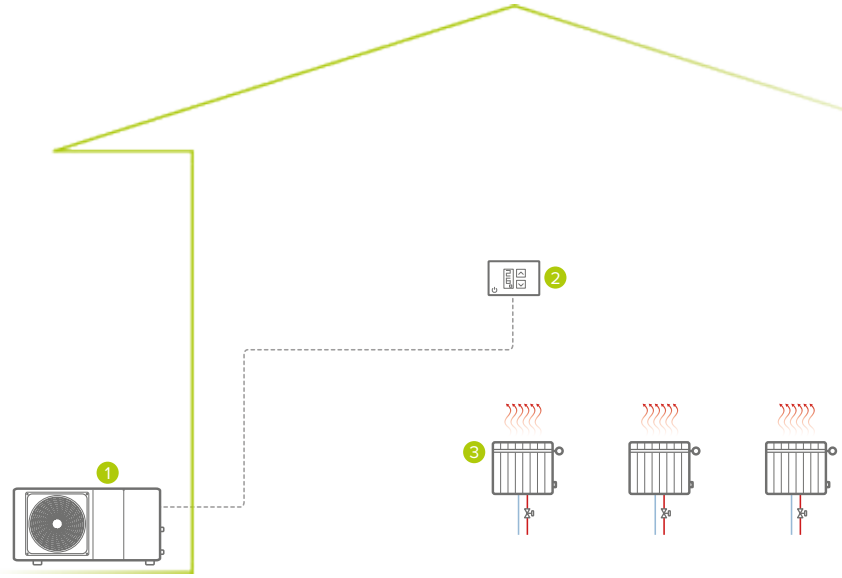
Note: the mode change must be managed in the heat pump (from the user interface or the MSmart Home App).

Wi-Fi connection to the generator and cabled distribution connection

HID-TConnect2 can be connected via cable and open/close the heads of a radiant system or remotely turn a fan coil ON/OFF. The signal of a single thermostat can manage several fan coils or radiant panels.
The request to the heat pump is made via Wi-Fi through SwitchConnect, which thanks to the double relay changes the generator mode (can only be managed via the App).
Each SwitchConnect can support up to 6 thermostats.

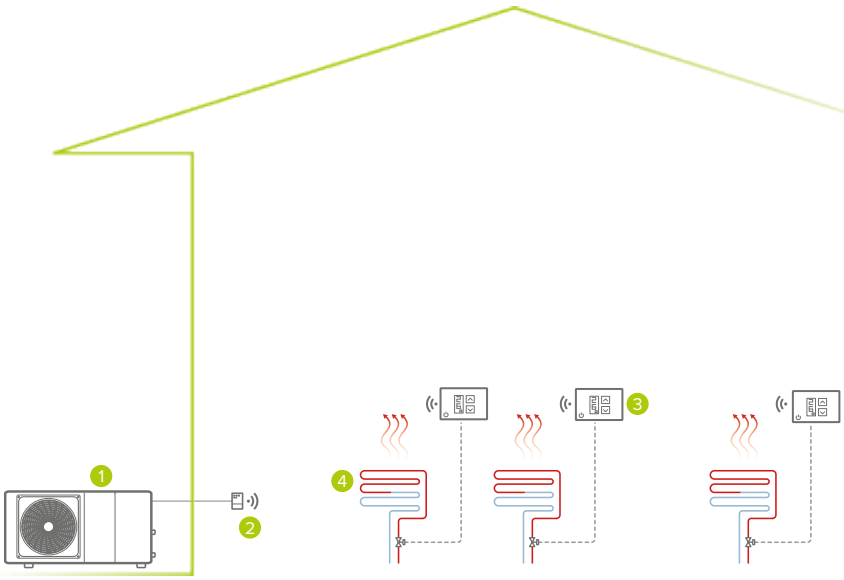


Note: in the event of conflicting heating / cooling requests, priority is given to cooling.



Single-area system, radiators, cabled connection to the generator

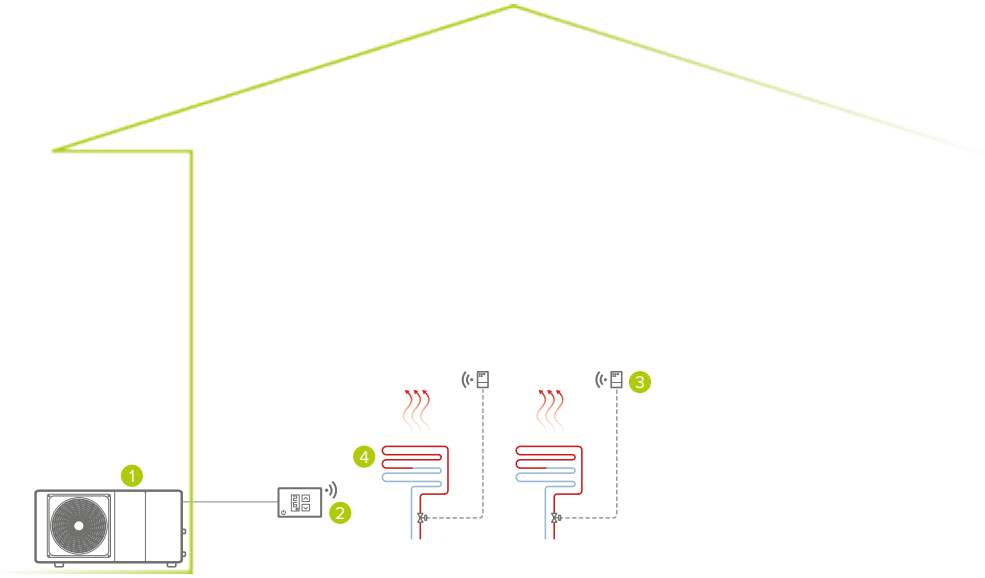
1 outdoor unit
2 HID-TConnect2
3 radiator



Heat-only single-area system, radiant / terminal units, Wi-Fi connection to the generator and cabled distribution connection

1 outdoor unit
2 SwitchConnect
3 HID-TConnect2
4 radiant floor

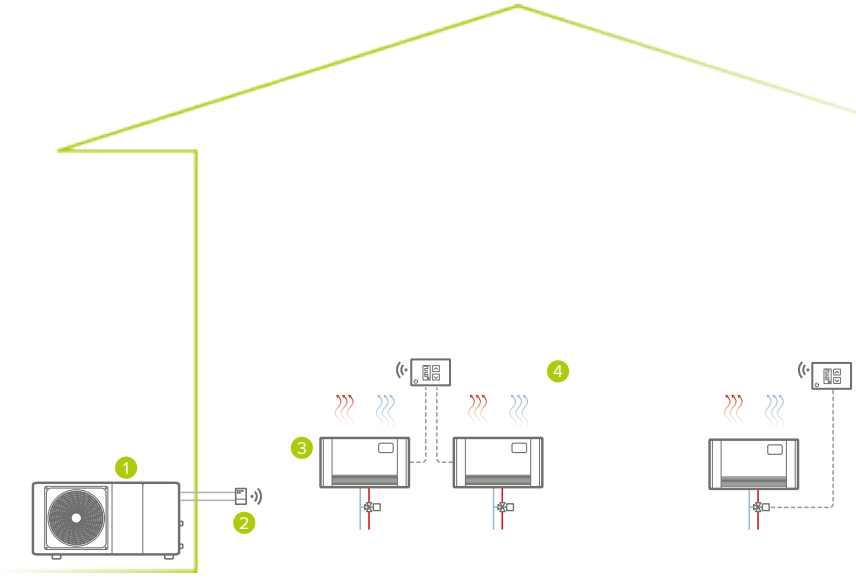
Note: can support up to 6 thermostats



Heat-only single-area system, radiant / terminal units, cabled connection to the generator and Wi-Fi distribution connection

1 outdoor unit
2 HID-TConnect2
3 SwitchConnect
4 radiant floor

Note: can support up to 2 SwitchConnect

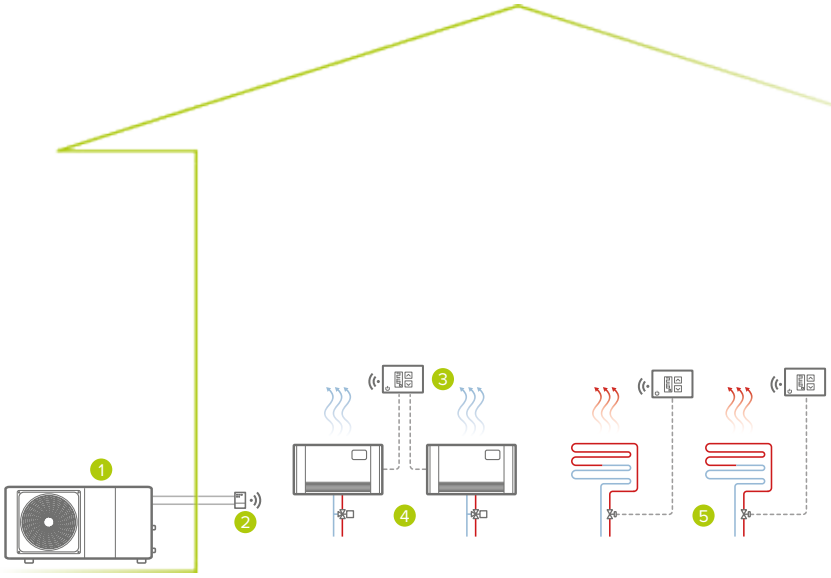


Heating/cooling single area system, radiant / terminal units, Wi-Fi connection to the generator and cabled distribution connection

1 outdoor unit
2 SwitchConnect
3 fan coils
4 HID-TConnect2

Note: can support up to 6 thermostats.

The thermostats must all be in heating or cooling mode. In the event of conflicting requests, priority is given to cooling



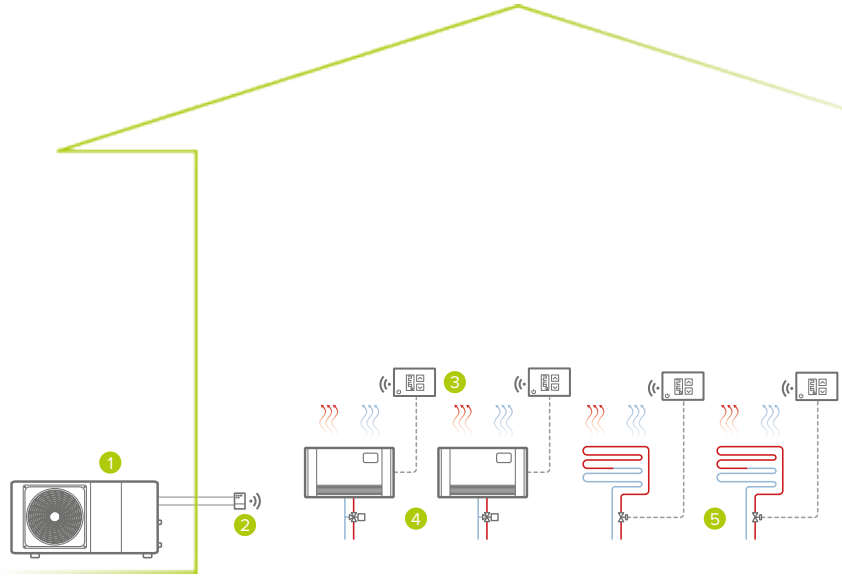
Heating/cooling single area system, radiant / terminal units, Wi-Fi connection to the generator and cabled distribution connection

1 outdoor unit
2 SwitchConnect
3 HID-TConnect2
4 fan coils
5 radiant floor

Note: can support up to 6 thermostats.

The mode must be changed directly on the unit

The thermostats must all be in heating or cooling mode. In the event of conflicting requests, priority is given to cooling



Heating/cooling dual area system, radiant / terminal units, Wi-Fi connection to the generator and cabled distribution connection

1 outdoor unit
2 SwitchConnect
3 HID-TConnect2
4 fan coils
5 radiant floor

Note: can support up to 6 thermostats.

The mode must be changed directly on the unit

The thermostats must all be in heating or cooling mode. In the event of conflicting requests, priority is given to cooling

INTELLIPLANT

Management and optimisation system for centralised residential systems

- ✓ Control and optimisation of heat pumps in centralised systems
- ✓ Backup boiler management
- ✓ Central heating plant and individual user consumption metering
- ✓ Housing unit management with CONTROL4 NRG
- ✓ Local and remote management by administrators via cloud connection
- ✓ Multi-site platform for the remote management of different systems located across the country

Safety and professionalism

The INTELLIPLANT system separates the management of centralised systems by professionals from the management of residential environments by private users via two separate cloud platforms.
This allows condominium administrators and personnel to access the central heating plant without being given access to individual homes, while maintaining data protection privacy levels in accordance with the most stringent provisions of the GDPR (Global Data Protection Regulation).
At the same time, the owners and tenants of the various housing units can manage their own flat but not the centralised system, thus avoiding tampering or management problems of professional systems.

System managers

The INTELLIPLANT system allows you to efficiently and continuously manage the system on the local operator panel and the remote interface on a computer, smartphone or tablet.

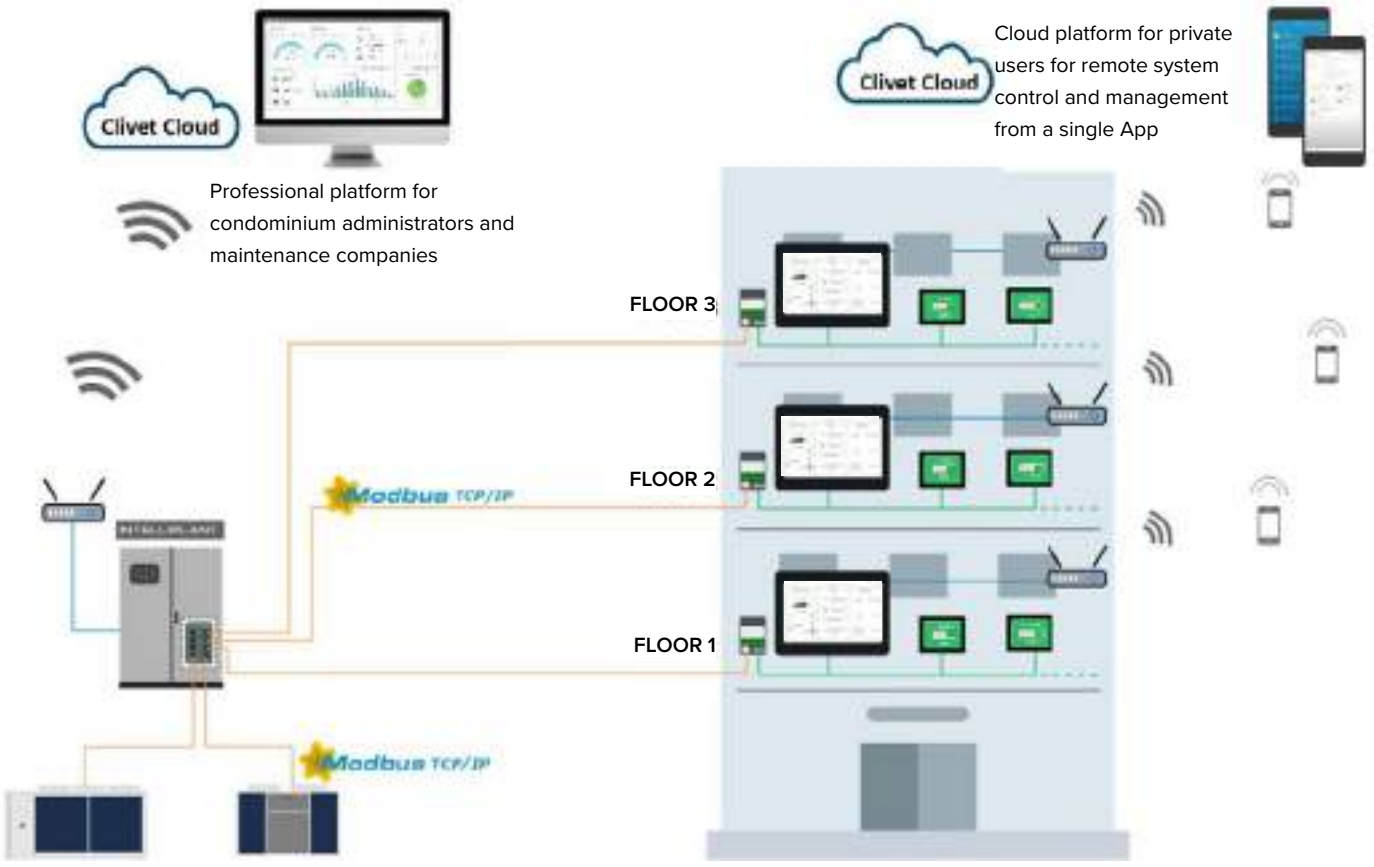
- ✓ Secure management by connection to the Clivet cloud for professional environments
- ✓ Management of operating parameters such as temperature and seasonal mode change
- ✓ Scheduled and manual system switch-on
- ✓ Wear check of the main components
- ✓ Management of scheduled and preventive maintenance
- ✓ Online management of system documentation
- ✓ Lower maintenance costs, prevention of system downtime due to faults
- ✓ Management of thermal energy produced by the central heating plant and electricity consumption
- ✓ Calculation of system efficiency
- ✓ Consumption metering via connection to the CONTROL4 NRG energy assistants of the housing units

Private users

Each housing unit is managed by the CONTROL4 NRG energy assistant, which optimises room comfort while reducing energy consumption.

- ✓ Safe management by connection to Clivet Eye for private-use residential environments
- ✓ Remote system management via the App for iOS and Android devices
- ✓ Separate management of zones and their comfort levels
- ✓ Compatibility with HID-TSmart thermostats to display the home operating parameters such as temperature, humidity, electricity consumption, air quality, SINERGY coil charge level (when present)

Example of infrastructure



UNIT 1:
STANDARD UNIT FOR HEATING AND COOLING

UNIT 2:
HIGH TEMPERATURE

Central heating plant

The INTELLIPLANT system optimises the production and distribution of thermal energy up to the floors where the individual housing units are disconnected
INTELLIPLANT ensures proper management of the heating and cooling plant to guarantee continuity in the production of thermal energy while reducing energy consumption of the entire system.
More specifically, INTELLIPLANT ensures:

- ✓ Optimisation of heat pump operation and back-up device management.
- ✓ Domestic hot water production by means of specific heat pump systems for high temperature water production
- ✓ Management of antilegionella cycles
- ✓ Optimisation of primary and secondary circuit flow-rates
- ✓ Climate compensation based on operating conditions
- ✓ Remote management of system loads
- ✓ Integration with photovoltaic panels
- ✓ Energy page with system load profiles and generation of energy reports (includes flow and electricity meters in the central heating plant)
- ✓ Multi-site management of systems located across the country

MULTI-SITE SYSTEM

Centralised management of sites located across the country from head office

CLIVET CLOUD, THE SYSTEM IN YOUR HANDS

Responsive interface with remote access to all system sections for management by service centres and maintenance companies operating in the field

INTELLIPLANT CORE

Management and optimisation system for centralised residential systems

- ✓ Control and optimisation of heat pumps in centralised systems
- ✓ Backup boiler management
- ✓ Central heating plant and individual user consumption metering
- ✓ Housing unit management with Control4 NRG
- ✓ Local and remote management by administrators via cloud connection
- ✓ Multi-site platform for the remote management of different systems located across the country

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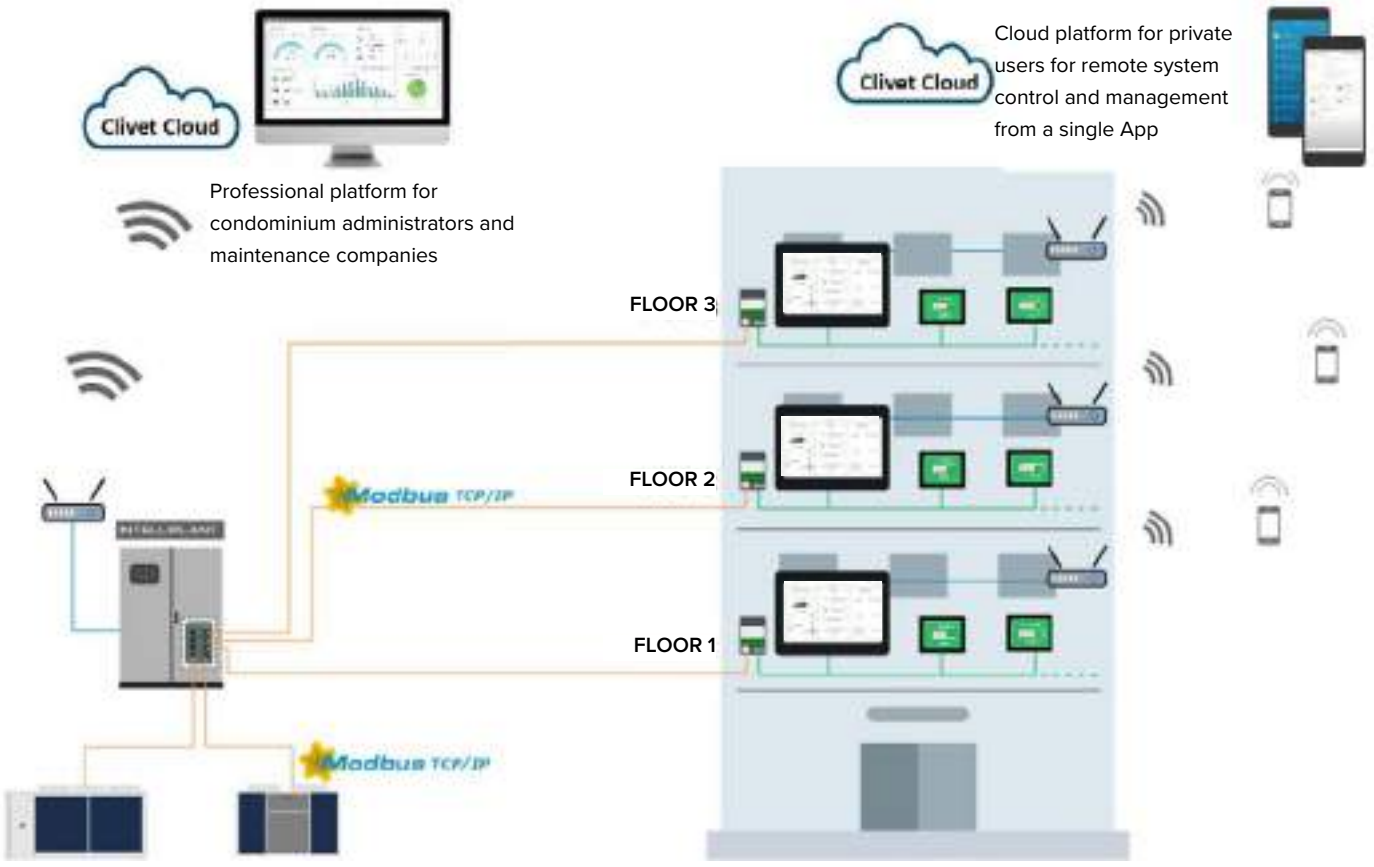
- ✓ Separate management of zones and their comfort levels
- ✓ Compatibility with HID-TSmart thermostats to display the home operating parameters such as temperature, humidity, electricity consumption, air quality, SINERGY coil charge level (when present)

Example of infrastructure



UNIT 1:
STANDARD UNIT FOR HEATING AND COOLING

UNIT 2:
HIGH TEMPERATURE

INDEX

Clivet, in compliance with Regulation 517/2014, informs that its products contain or function with the use of fluorinated greenhouse gases: R-32 (GWP 675), R-410A (GWP 2087,5), R-134a (GWP 1430) and R-407C (GWP 1773,85), R-513A (GWP 631), R-1234ze (GWP 7).

ICONS GUIDE

ICONS GUIDE

ENERGY SAVING

Solar integration
Ideal for use with solar thermodynamic systems

Smart Grid ready
Ideal for integration with Smart Grid technology

Free Cooling / Heating
Provides Cooling / Heating for free (on certain conditions)

nZEB
Designed for buildings with almost no energy consumption

Cascade
Many units can be used together to provide big capacities

€-Switch
Activates the most cost-effective generator

Total system management dashboard
Allows for the management and monitoring of the entire system.

Weekly energy produced/consumed dashboard
It allows for the display of energy produced by the photovoltaic system and consumed on a weekly basis

Weekly energy accumulated dashboard
Allows for the display of accumulated energy on a weekly basis.

Class A environmental control
Ensures high levels of energy performance.

Heat pump set-point compensation
Enhances indoor comfort based on external temperature.

Quick start-up
Quick system startup.

Energy meter
Allows display of energy produced and absorbed in different time periods

COMFORT

Heating/Cooling
For both heating and cooling

DHW
Produces Domestic Hot Water

Dehumidification
Removes humidity in the room

Follow Me
Temperature sensor built in the remote controller will sense its surrounding temperature

Underfloor system, fancoils, radiators
Independent management of resources for the distribution of comfort

Silent
For more silent operation

Anti cold air
It does not supply air into the room until it is hot enough

Temperature compensation
Considers the stratification of air to create a fairer temperature

High temperature
Produces heating at high temperature

Summer, winter and DHW management
Comfort management for up to 24 independent climatic zones.

Humidity control
Independent humidity management for each zone.

Air quality renewal and monitoring
Monitoring and management of units for air quality renewal.

ECO
Programming of standard or eco setpoints independently for the 24 zones.

Differentiated temperatures per area
Independent comfort management for each zone.

RELIABILITY

Condensate drain pump
Condensate disposal with a dedicated pump

Backup heater
Fitted with an electric heater that can operate if necessary in Heating mode

Keymark
Performance certified by CEN

ProdottiQualità CasaClima
Product excellence certified by the KlimaHaus / CasaClima agency

HEALTH

High Density filter
Filters the air inlet

Air renew
Exchanges the air inside with air from the outside

Air purification
Purifies incoming air

Eco-friendly refrigerant
Uses environmentally friendly refrigerant.

Renewable Energy
Uses only renewable energy, with zero CO_2 emissions

CONVENIENCE

Weekley Timer
Weekly programmable settings (ON-OFF / temperature / ...)

Integrated DHW tank
Comprises a tank for the storage of Domestic Hot Water (DHW)

Contemporaneity
Produces Heating and Domestic Hot Water at the same time

Instant DHW
Quickly produces Domestic Hot Water on demand

Away
IT is possible to set the comfort level to be maintained during the away mode

Weather forecast
Hourly weather forecast service available.

Voice control
Allows control of the system through voice commands.

ON / OFF
Turning on/off the entire system.

Auxiliary load scheduling
Allows scheduling the activation and deactivation of electrical loads.

MANAGEMENT AND CONNECTIVITY

Input ON/OFF
fitted with ON/OFF contact for management via remote device

User interface / thermostat
The user interface can be used as a thermostat

Remote control
Managed with the remote control

Wired controller
Managed with a wired control

Centralised control
Manageable through centralized controller

Modbus port
Provided with RS485 port

Control via the App
Can be managed via App

Control4 NRG management
Manageable with the intelligent centralized Control4 NRG system.

Clivet Eye monitoring
Can be monitored remotely with Clivet Eye

Input 0-10V
fitted with ON/OFF contact for management via remote device

Output ON/OFF
fitted with ON/OFF contact for managing an external device

FOR 35 YEARS WE HAVE BEEN OFFERING SOLUTIONS FOR SUSTAINABLE COMFORT AND THE WELL-BEING OF PEOPLE AND THE ENVIRONMENT

www.clivet.com

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