



GUIDE 2025
PRODUCTS AND SYSTEMS
HOME

2025



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 RECOVERY

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.

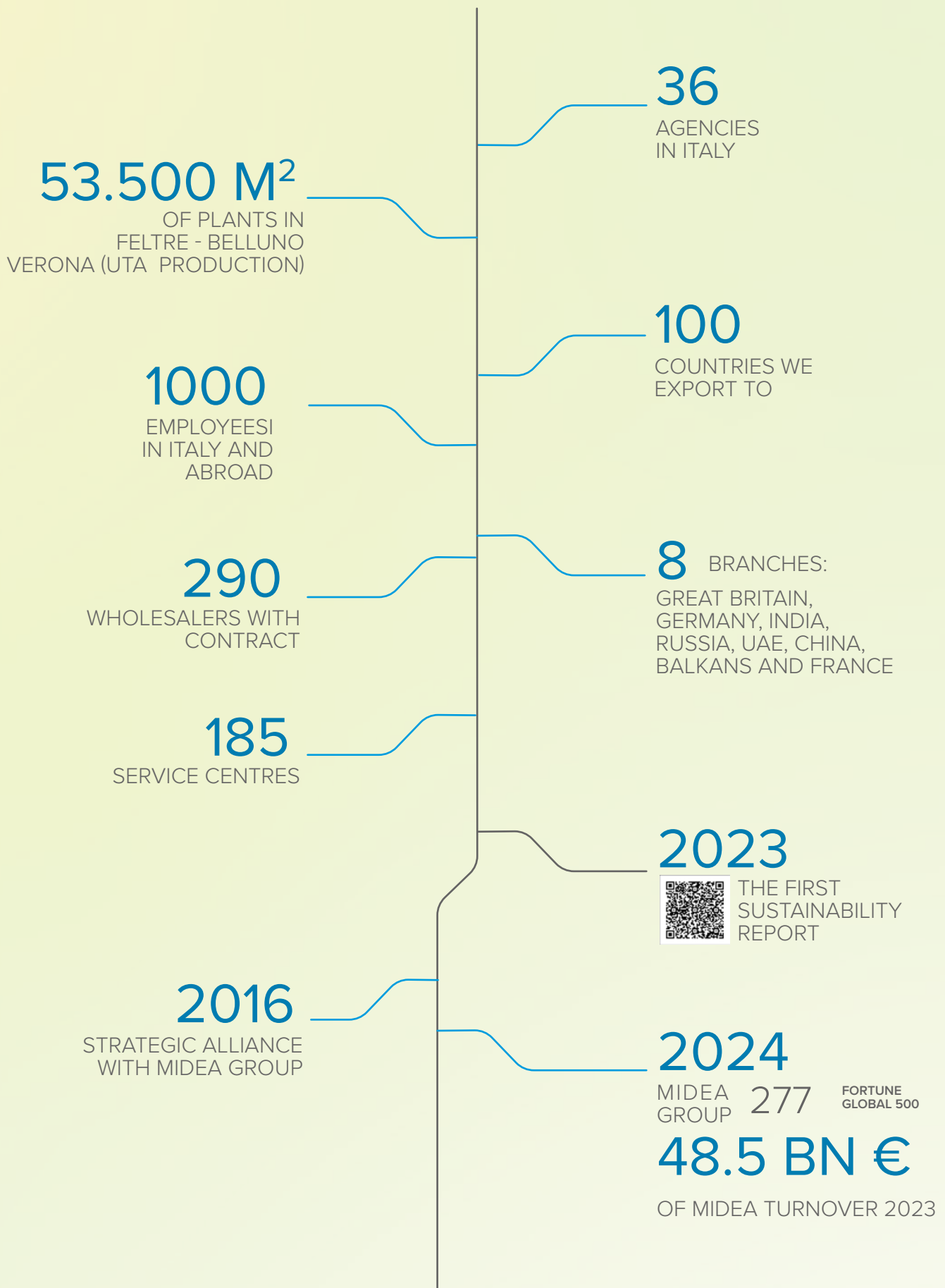
A simplified product experience

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



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



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

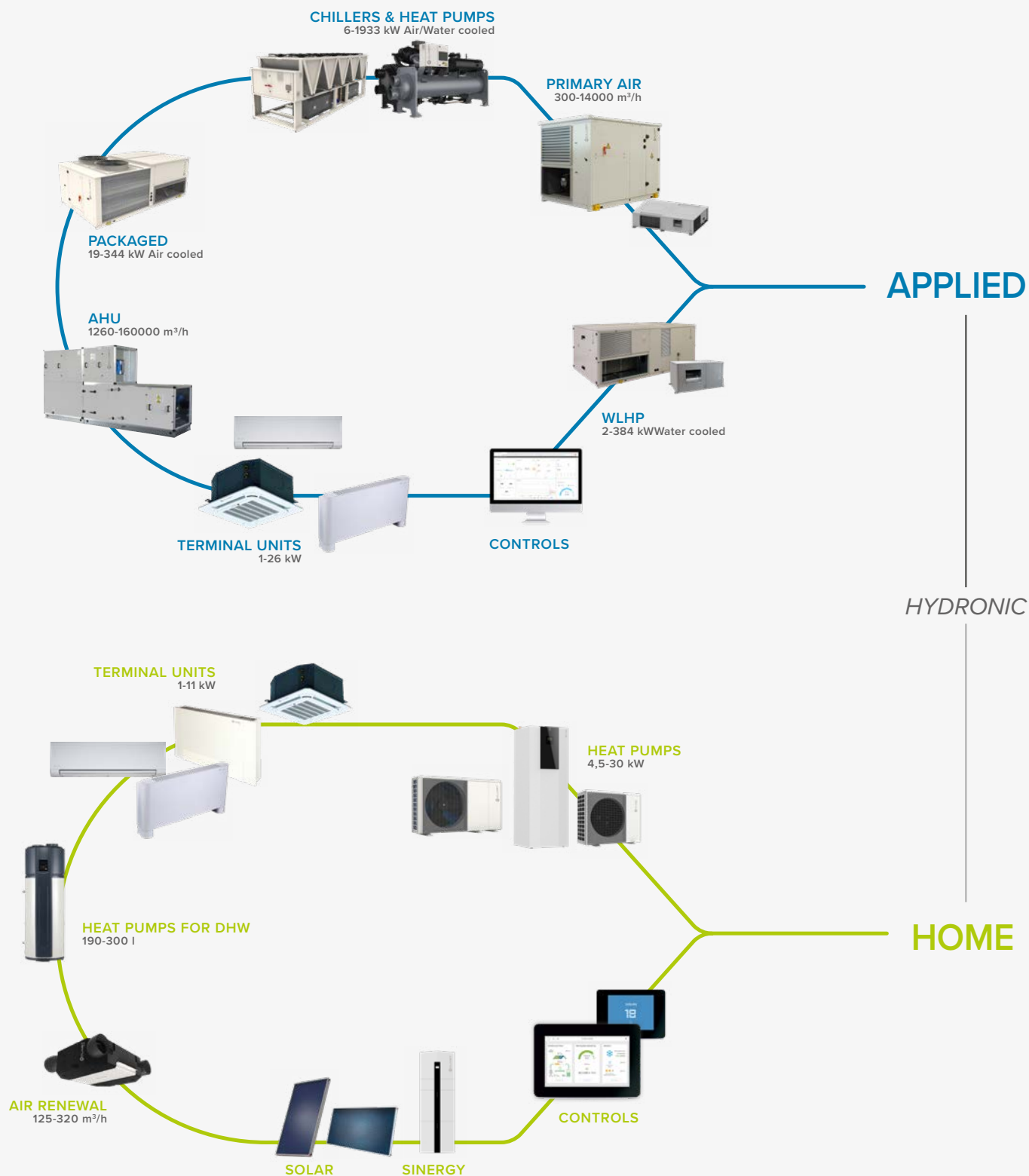


Edge EVO 2.0 gets another update

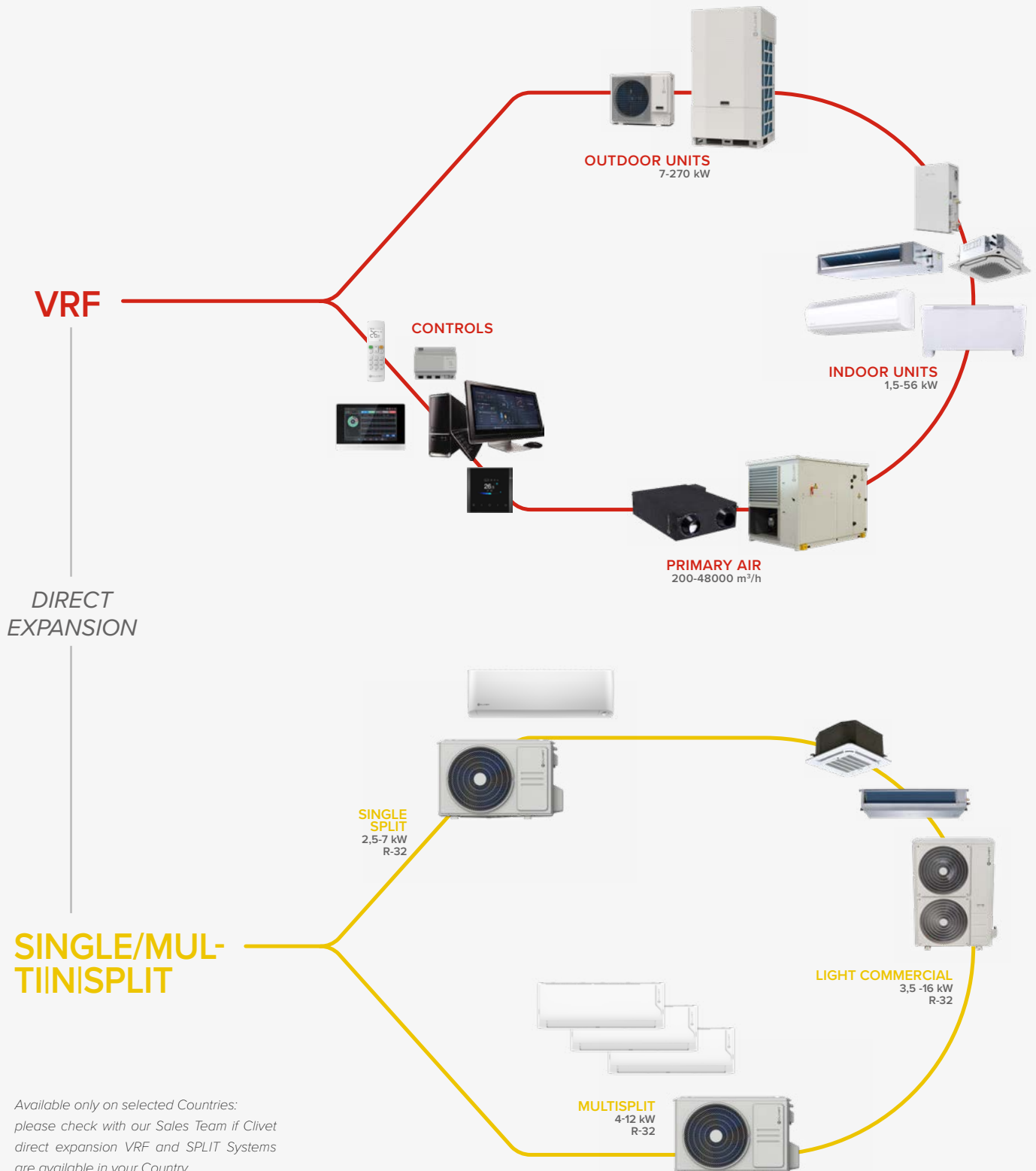
The range of heat pumps with R-32 refrigerant is renewed with the introduction of the KJRH-120L2 controller. In addition to an improved graphic interface and advanced functionality, this component is required for coupling with the new Hydro-split modules.



ALL TECHNOLOGIES FOR A COMPLETE PROPOSAL



Heating, cooling,
air renewal and
domestic hot water production







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		4 ÷ 15 kW

Hydro-split

	TOWER Version ^{NEW}	 (optional)	4 ÷ 16 kW
	BOX Version ^{NEW}	 (optional)	4 ÷ 16 kW
	INVISIBLE Version ^{NEW}	 (optional)  Integr. boiler (optional)	4 ÷ 10 kW 24 ÷ 34 kW (boiler)
	MINI Version ^{NEW}	 (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



ELFOSUN³ - thermal solar

2 ÷ 2,5 m²

Fan-coils



MOOD



DC Motor

2,7 ÷ 4,9 kW



ELFORoom²



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-TConnect²

-



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.

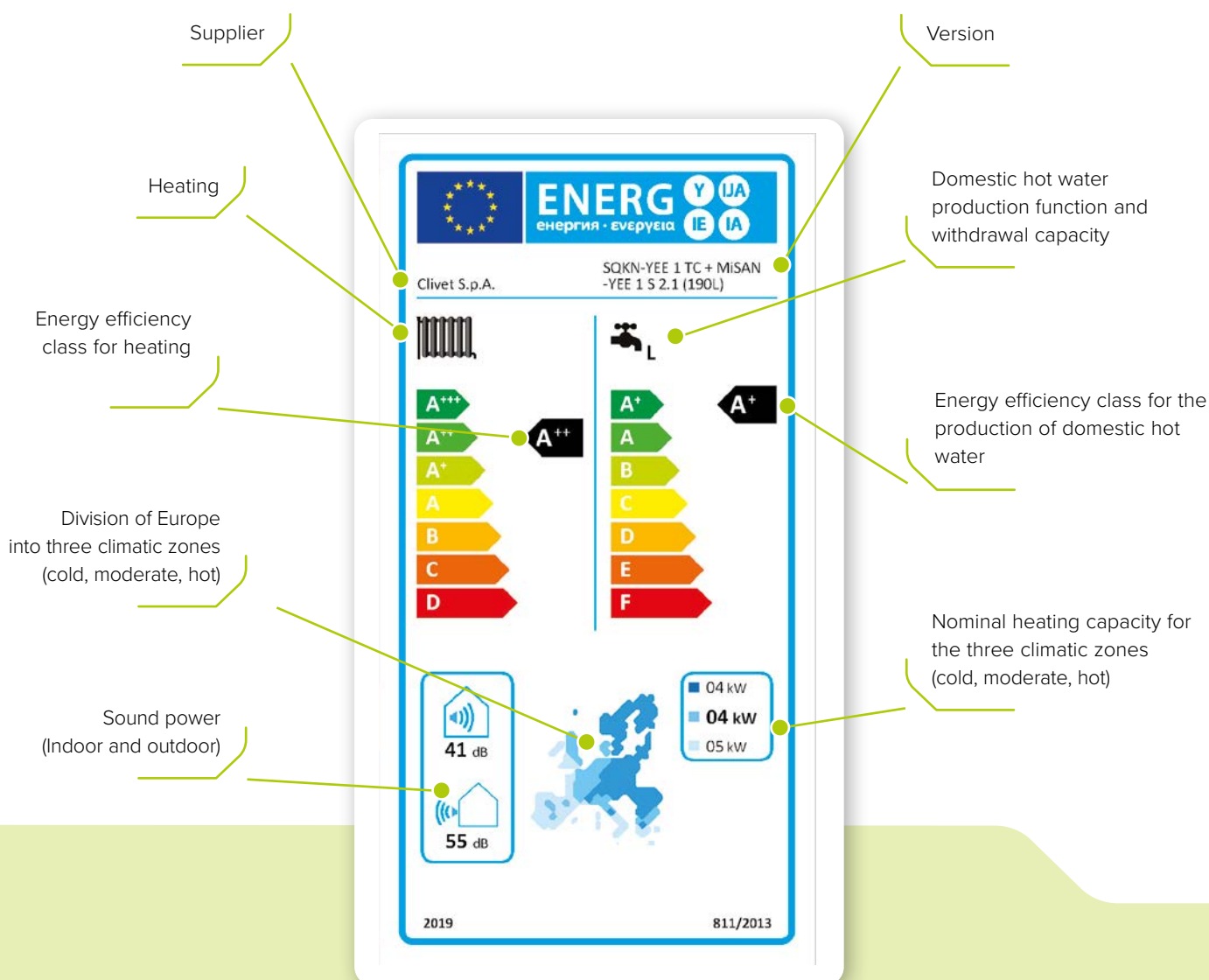
The regulations apply to heat generators used to heat rooms, appliances for domestic hot water production and systems consisting of a combination of several elements:

- ✓ 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.

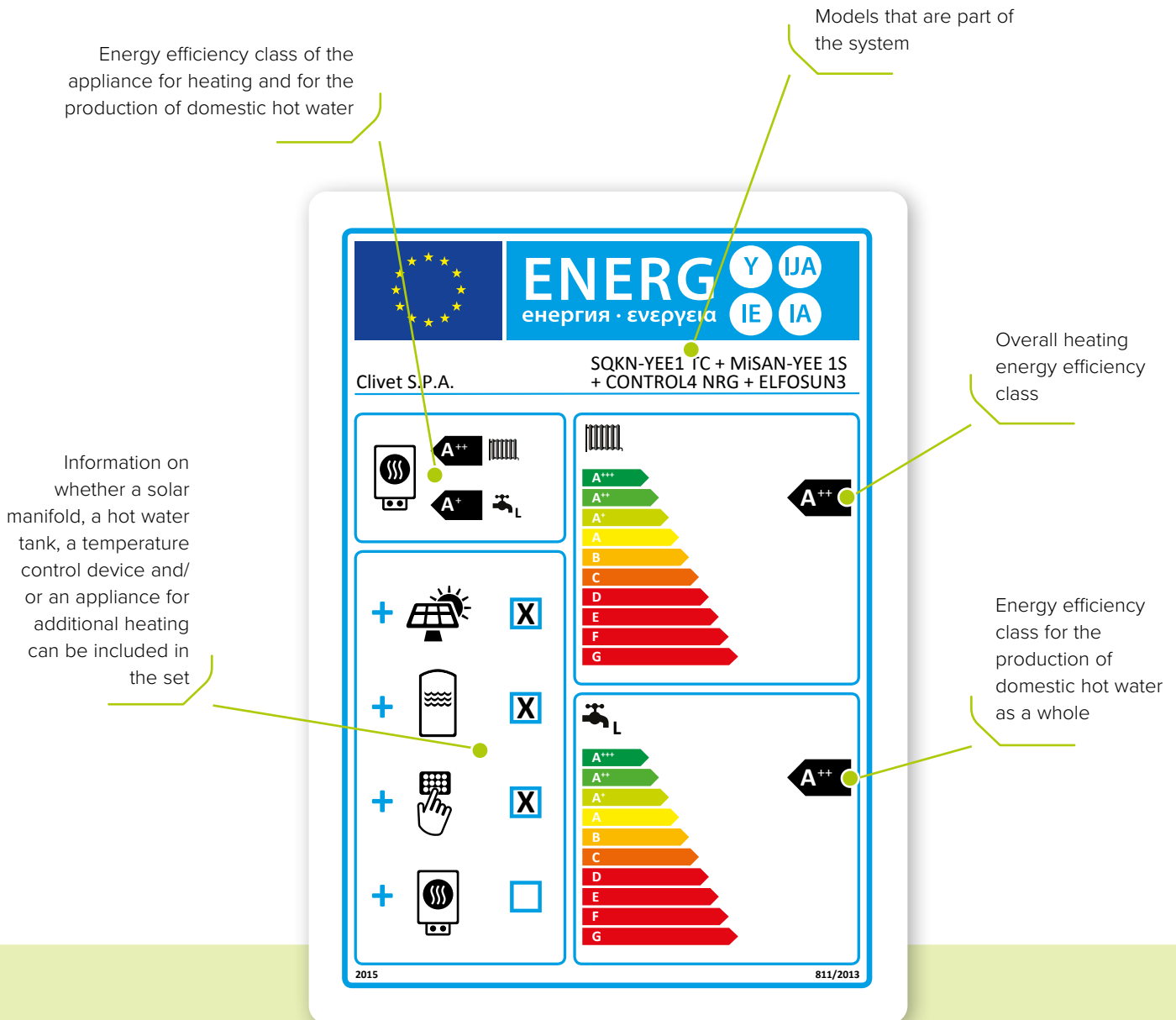
Clivet's specialised systems considerably exceed the strict requirements of these directives.



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.



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.



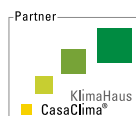
They optimise the solution based on the needs of the **various applications** and integrate it in specialised products and in complete dedicated systems:



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.



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
- ✓ ELFOSun³
- ✓ 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
- ✓ ELFOSun³
- ✓ ELFOFresh EVO



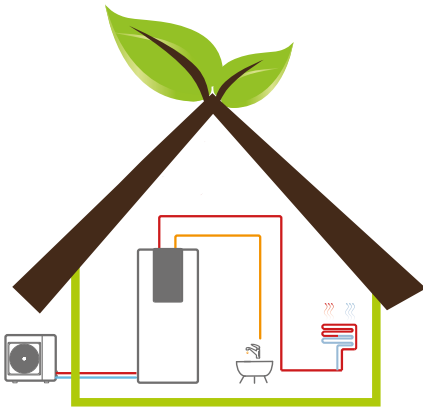
REPLACEMENTS

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

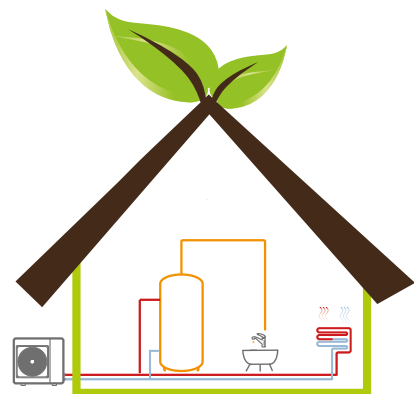
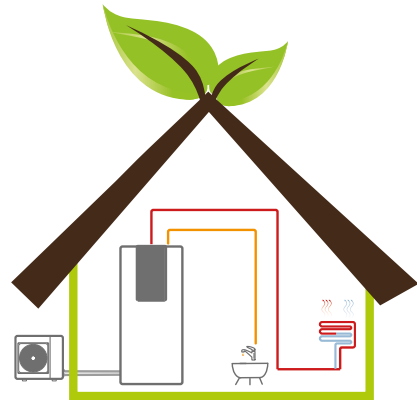
The system consists of an outdoor unit and an indoor unit, which are connected by hydraulic connection in which water flows. This type of solution is complete and very easy to install, while still being highly versatile.

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

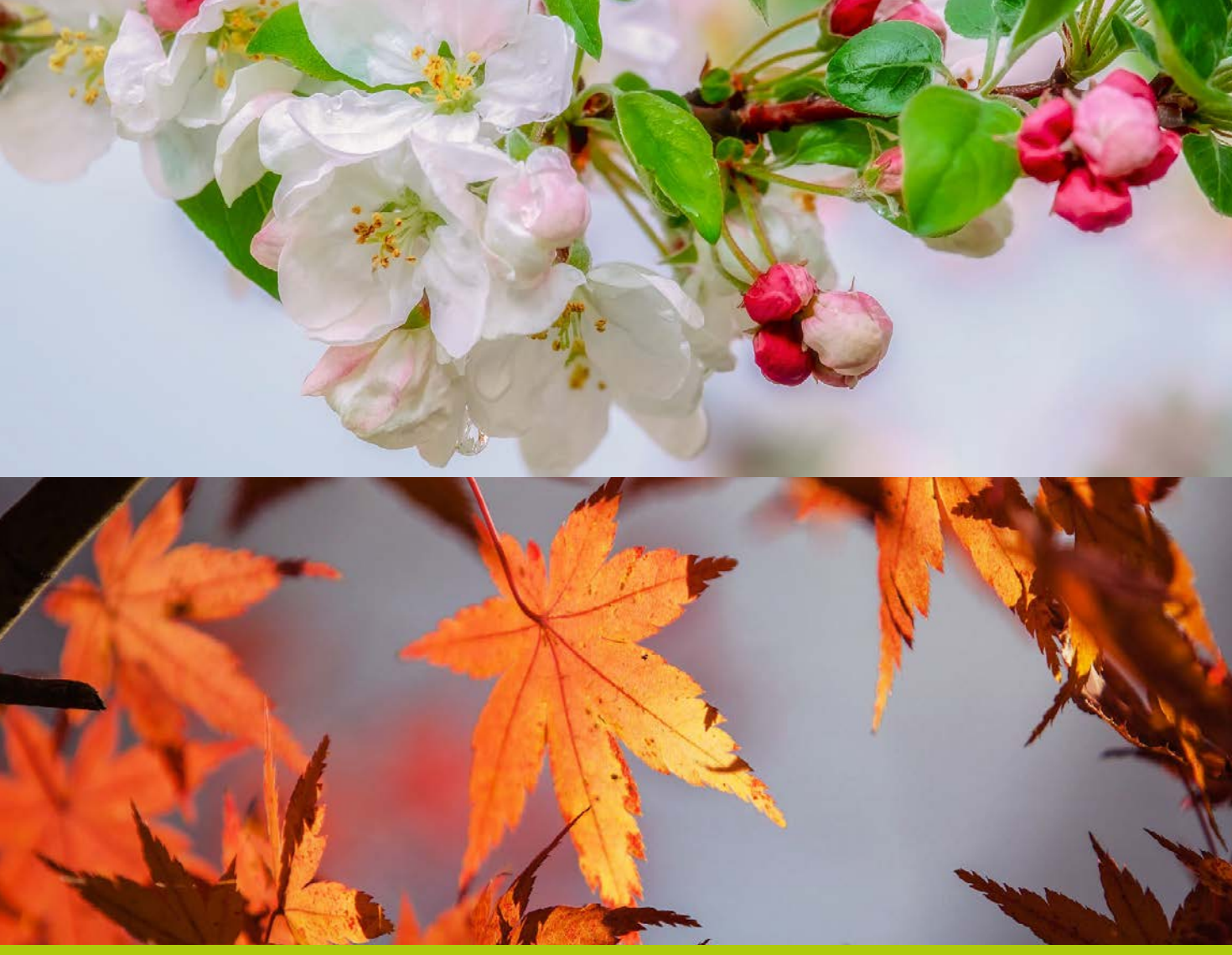
					Size											
Model		Refrig.	T _{WATER} MAX	T _{EXT} /T _{WATER}	2.1	3.1	4.1	5.1	6.1M/T	7.1M/T	8.1M/T	9.1	10.1	12.1	14.1	
Refrigerant-split	SPHERA EVO 2.0		R-32	Full El.: 65 °C Hybrid: 75 °C	A7/W35	6,26	7,41	9,11	10,3	14,6	15,5	16,8	-	-	-	-
					A-7/W35	6,25	6,97	8,35	9,30	13,9	14,1	14,3	-	-	-	-
					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		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		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

CONVENIENCE



Weekley Timer



Contemporaneity (Hybrid Version)



Instant DHW (Hybrid Version)



Integrated DHW tank

COMFORT



Hot Cold



DHW



Silent

MANAGEMENT AND CONNECTIVITY



Input ON/OFF



Port Modbus



Control via App



management CONTROL4 NRG



Clivet Eye monitoring



User interface / thermostat

RELIABILITY



Backup heater (optional)



025



ProdottiQualità CasaClima

HEALTH



Renewable Energy (Full electric version)

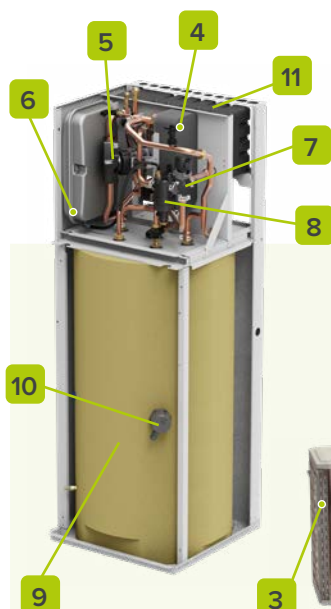
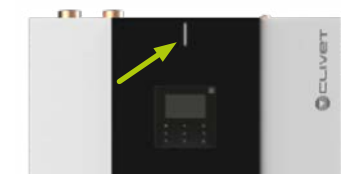


- ✓ Energy efficiency at the highest level
- ✓ Designed not to disturb, operating very quietly
- ✓ Suitable for every need, thanks to the dual version with 190-litre or 250-litre DHW storage tank
- ✓ Compact outdoor unit requiring very little installation space
- ✓ Simultaneous operation in system and 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		VDACSX	Thermostated diverter valve for DHW
	KCSX	Kit for secondary circuit (1 liter circuit breaker + circulation pump)		DTX	Drain pan with antifreeze electrical heater
	KIRE2HLX	Two-zone distribution kit: direct + mixed		APAVX	Kit of antivibration mounts for floor installation
	KIRE2HX	Double zone distribution unit: direct + direct		ASTFX	Antivibration mounts kit for installation on the brackets for wall installation or drain pan
	ACI40X	40 liter system inertial storage tank		KSIPX	Kit with wall fixing brackets
	DI50-2X	50 liter hydraulic separator		HTC2WX	White HID-TConnect2 chronothermostat for temperature control
	COFX	Aesthetic cover for inertial storage tank		SWCX	Receiver / IoT switch SwitchConnect
	T1BX	10m water temperature probe			
	T1B30X	30m water temperature probe			

technical data

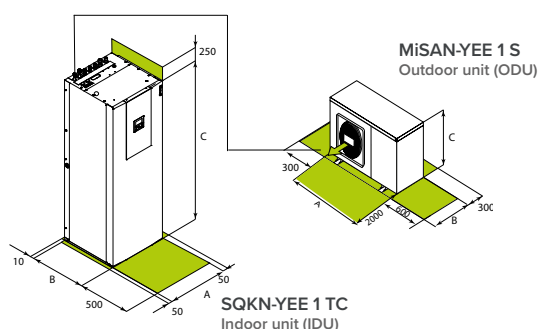
Size - Set				2.1		3.1		4.1		5.1		6.1		7.1		8.1		
DHW tank				190L	250L	190L	250L	190L	250L	190L	250L	250L	250L	250L	250L	250L		
Heating	Capacity	Water 35/30 °C	Nominal / Maximum	kW	4,32 / 6,26		6,18 / 7,41		8,30 / 9,11		10,1 / 10,3		12,1 / 14,6		14,5 / 15,5		16,0 / 16,8	
	COP	Outdoor air 7 °C	Nominal	-	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	250	250	
Water mixed at 40 °C (V40) ¹			l	204	269	204	269	204	269	204	269	269	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	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+	A+	A+		
		Withdrawal profile	-	L	XL	L	XL	L	XL	L	XL	L	XL	XL	XL	XL	XL	
Size - Indoor unit					A	A	A	A	A	A	A	A	B	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	
Operating range	Cooling	-	Minimum / Maximum	°C	5 / 25		5 / 25		5 / 25		5 / 25		5 / 25		5 / 25		5 / 25	
	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

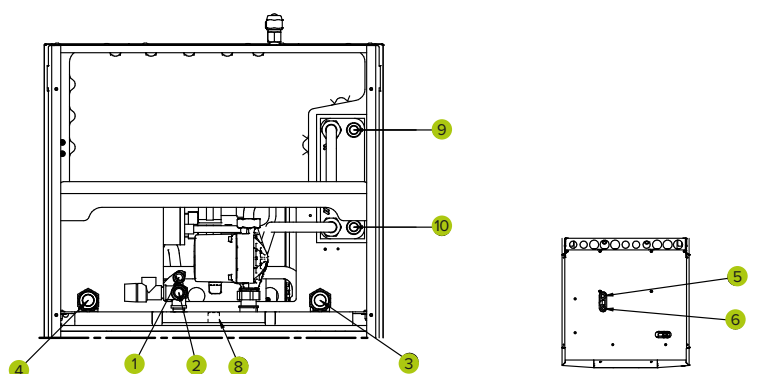
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).
Energy classes with energy assistant for Clivet Smart Home

(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
					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	Energy class		-	-	A++	A++	A++
	Heating	Annual energy consumption	-	-	6.793	7.380	7.915
	Water 55 °C	SCOP	-	-	3,56	3,52	3,48
		ηs (seasonal output)	%	-	139	138	136
	Energy class		-	-	A+++	A+++	A+++
	Heating	Annual energy consumption	-	-	4.994	5.868	6.602
	Water 35 °C	SCOP	-	-	5,00	4,91	4,89
		ηs (seasonal output)	%	-	196	193	193
	Energy class		-	-	A+	A+	A+
	DHW	Withdrawal profile	-	-	XL	XL	XL

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
Operating range (Outdoor air)	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25
	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

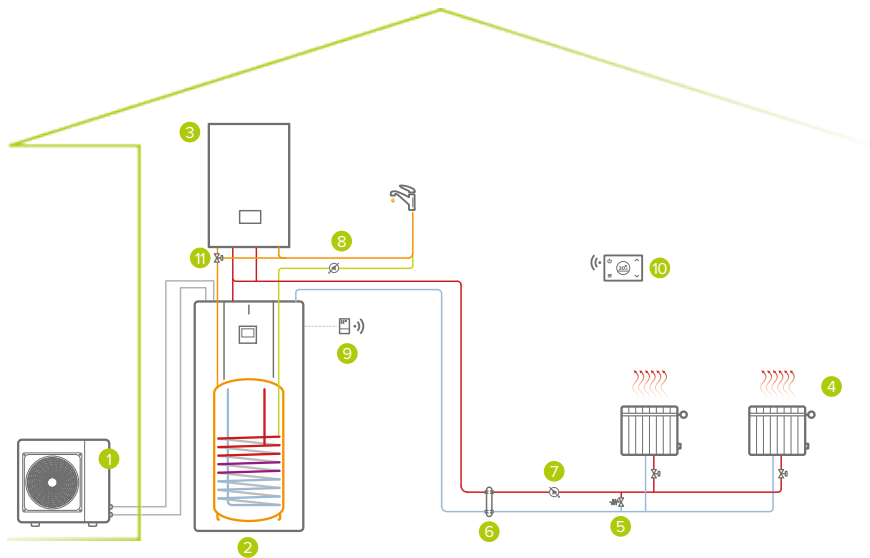
Data according to EN 14511:2018 and EN 14825:2016

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

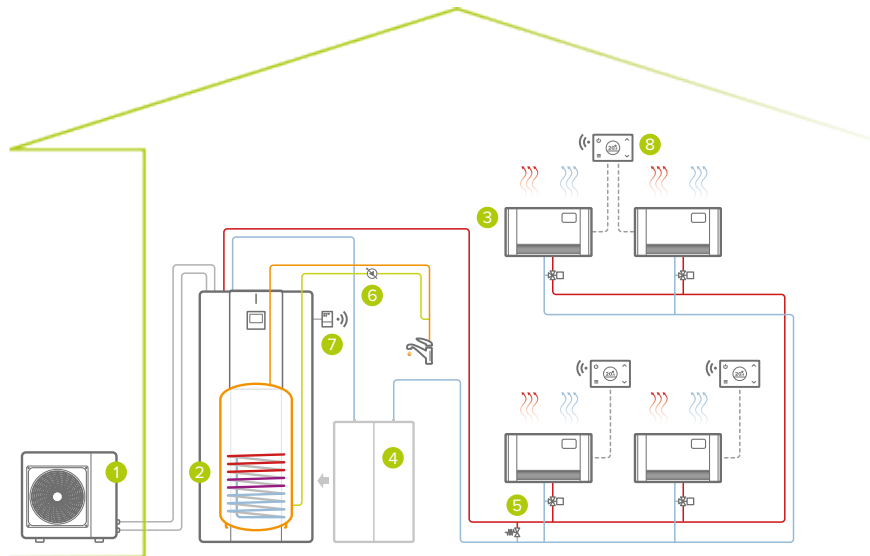
Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	Indoor unit ACS190	AxCxB	mm	600x1.696x612	600x1.696x612	600x1.696x612	600x1.696x612	600x2.010x6112	600x2.010x6112	600x2.010x6112
	Indoor unit ACS250	AxCxB	mm	-	-	-	-	600x2.010x6112	600x2.010x6112	600x2.010x6112
	Outdoor unit	AxCxB	mm	920x712x400	920x712x400	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



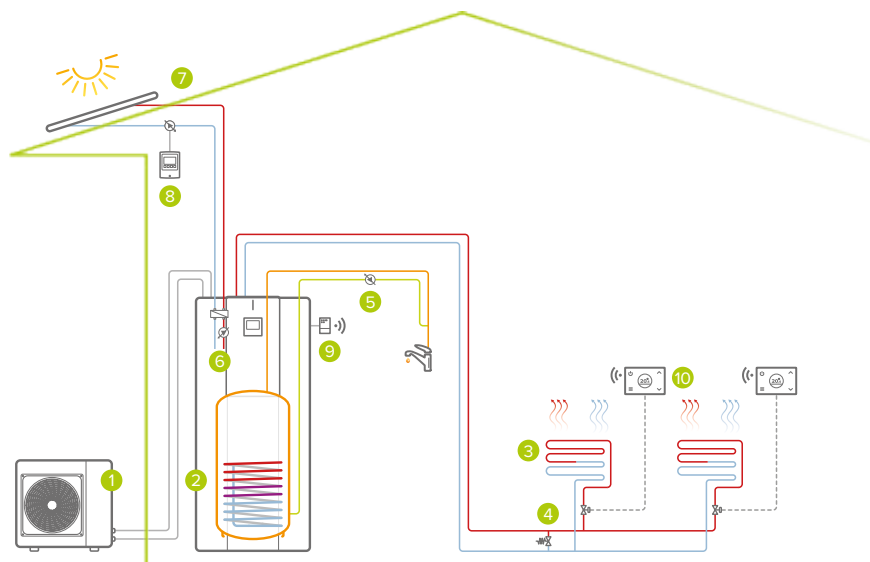
Hybrid single-zone system: Heating / DHW

- 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

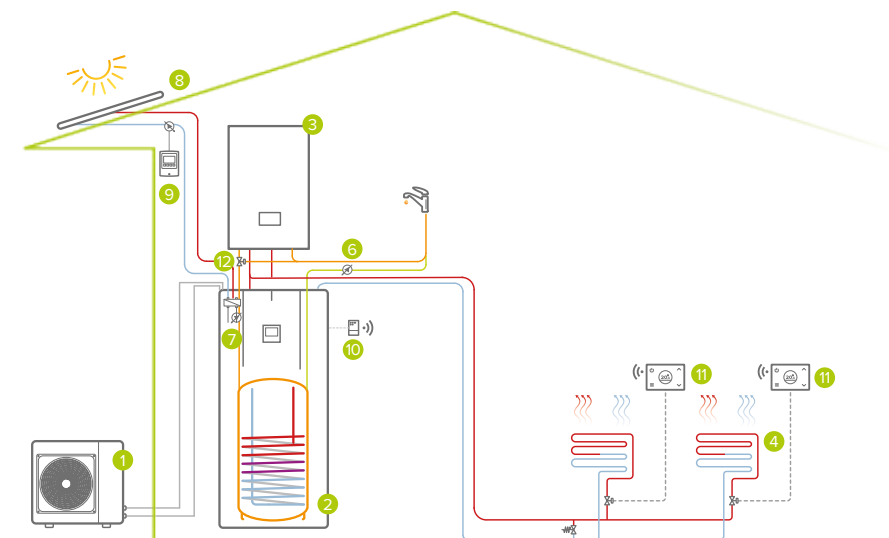
- 1 outdoor unit
- 2 indoor unit
- 3 heating/cooling zone
- 4 system inertial storage (optional)
- 5 bypass*
- 6 DHW recirculation pump*
- 7 SwitchConnect Wi-Fi receiver (optional)
- 8 HID-TConnect2 Wi-Fi chronothermostat (optional)



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 ELFOSun³ thermal solar (optional)
- 8 solar circulation kit (optional)
- 9 SwitchConnect Wi-Fi receiver (optional)
- 10 HID-TConnect2 Wi-Fi chronothermostat (optional)

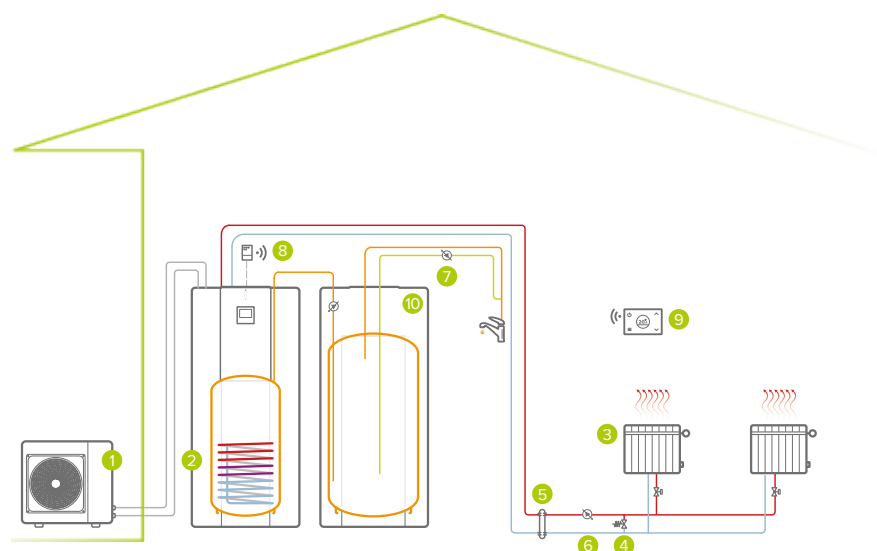
*from external supply



Hybrid single-area system with thermal solar:

Heating / Cooling / DHW

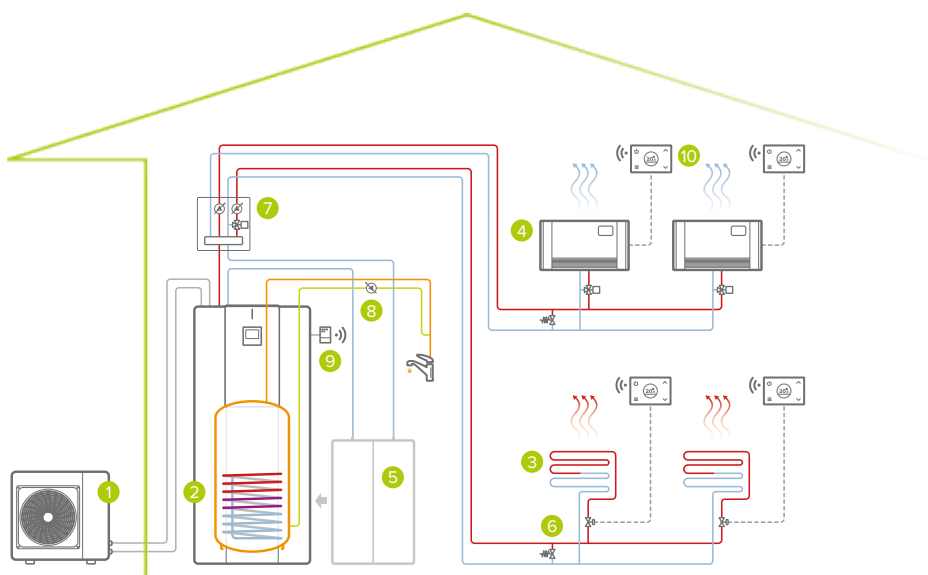
- 1 outdoor unit
- 2 indoor unit
- 3 instantaneous boiler (*Hybrid version*)
- 4 heating/cooling zone
- 5 bypass*
- 6 DHW recirculation pump (optional)
- 7 kit di collegamento solare (opzionale)
- 8 ELFOSun³ thermal solar (optional)
- 9 solar circulation kit (optional)
- 10 SwitchConnect Wi-Fi receiver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

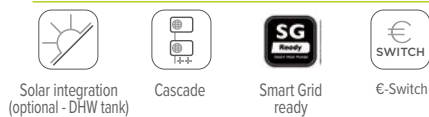
*from external supply

SPHERA EVO 2.0 BOX

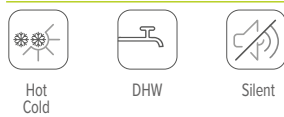
SQKN-YEE 1 BC + MiSAN-YEE 1 S 2.1÷8.1

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

ENERGY SAVING



COMFORT



RELIABILITY



HEALTH



CONVENIENCE



MANAGEMENT AND CONNECTIVITY

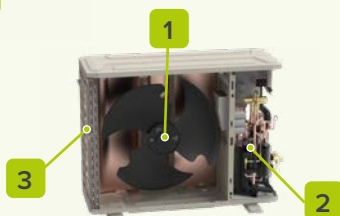
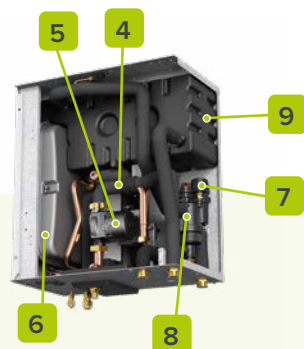


- ✓ It does not need to be coupled to a boiler if DHW is produced by the boiler (Hybrid version)
- ✓ Energy efficiency at the highest level
- ✓ Designed not to disturb, operating very quietly
- ✓ Can be combined with DHW tanks of a volume suitable for the application in which it is to be installed
- ✓ 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		VDACSX	Thermostated diverter valve for DHW
	ACS300X	300 liter DHW tank			
	ACS500X	500 liter DHW tank			
	SCS08X	Solar coil for ACS200X/ACS300X DHW tank		DTX	Drain pan with antifreeze electrical heater
	SCS12X	Solar coil for ACS500X DHW tank			
	KCSX	Kit for secondary circuit (1 liter circuit breaker + circulation pump)		APAVX	Kit of antivibration mounts for floor installation
	KIRE2HLX	Two-zone distribution kit: direct + mixed		ASTFX	Antivibration mounts kit for installation on the brackets for wall installation or drain pan
	KIRE2HX	Double zone distribution unit: direct + direct			
	ACI40X	40 liter system inertial storage tank		KSIPX	Kit with wall fixing brackets
	DI50-2X	50 liter hydraulic separator		KISX	Kit di installazione semplificata con raccordi per SPHERA EVO 2.0 Box Hybrid
	T1BX	10m water temperature probe			
	T1B30X	30m water temperature probe		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
Cooling	COP	Outdoor air 7 °C	Nominal	-	3,93	3,83	3,95	3,86	3,80	3,65	3,60
	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					2.1	3.1	4.1	5.1	6.1	7.1	8.1
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	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

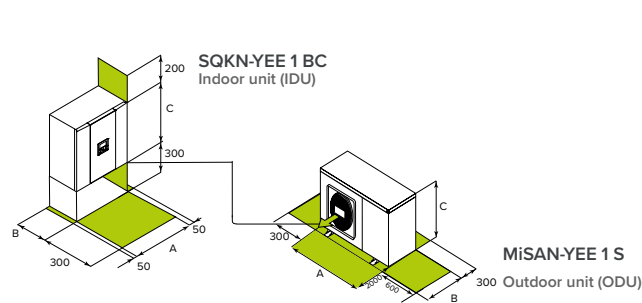
Data according to EN 14511:2018 and EN 14825:2016

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

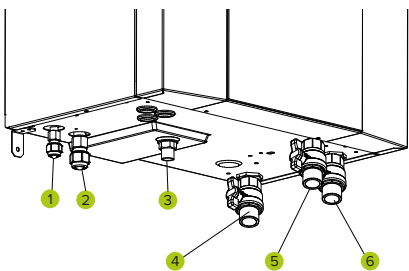
dimensions and connections

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
			inch	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"
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

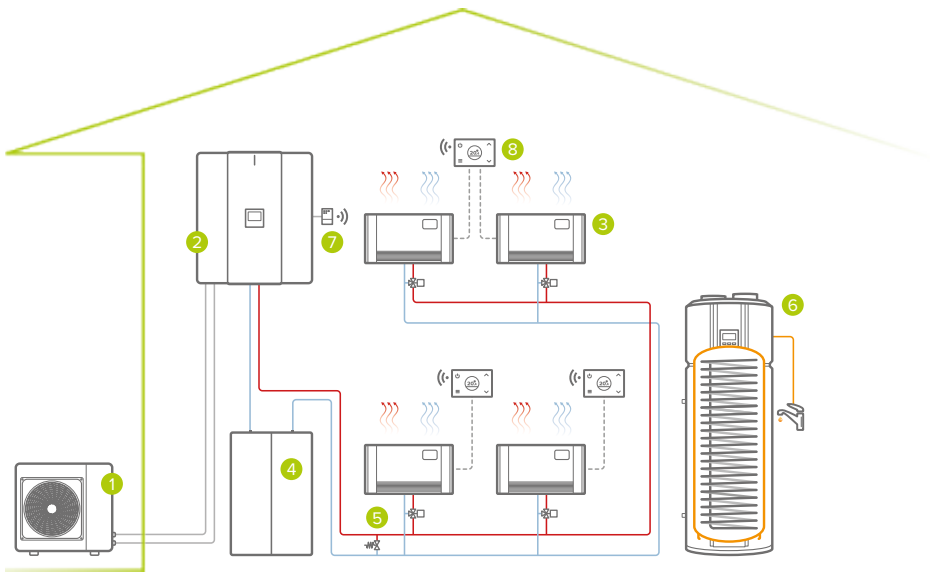


For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.



- 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"

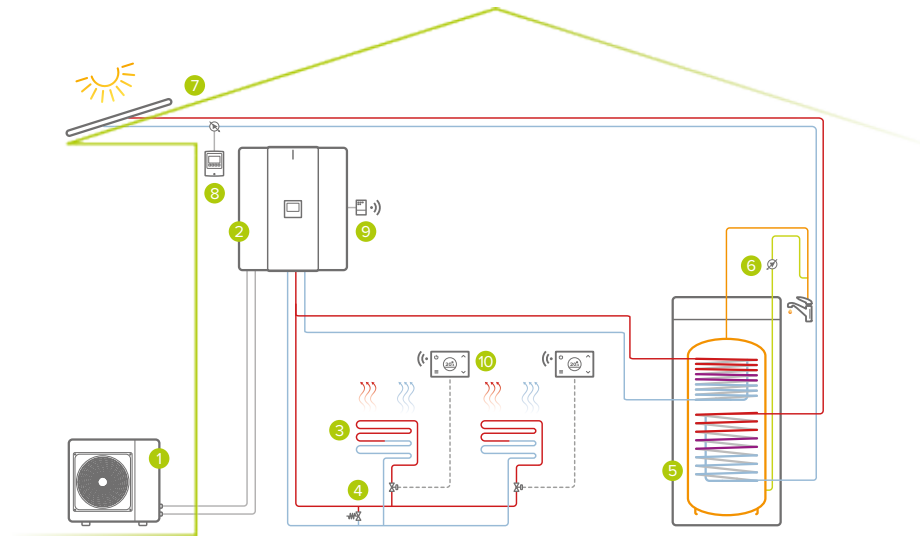
system diagrams



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)

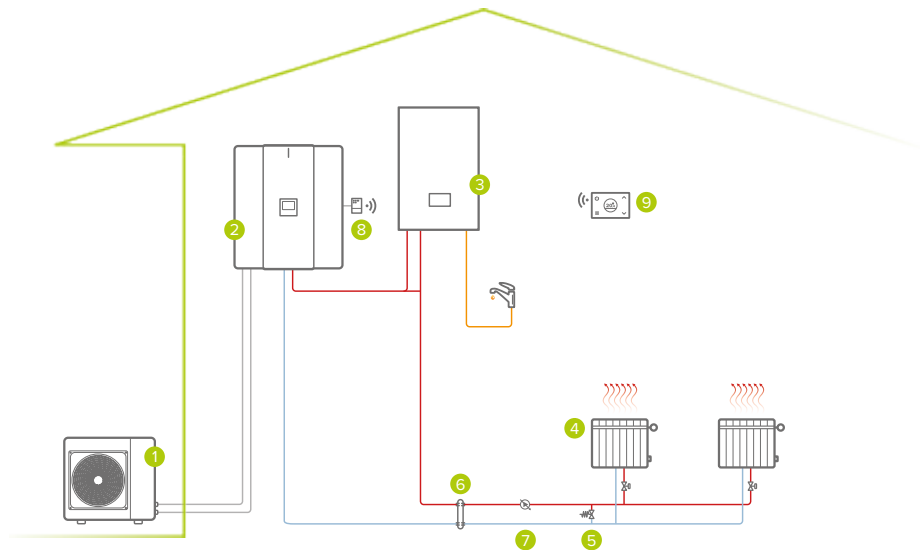
*from external supply



Full electric single-area system with thermal solar:

Heating / Cooling / DHW

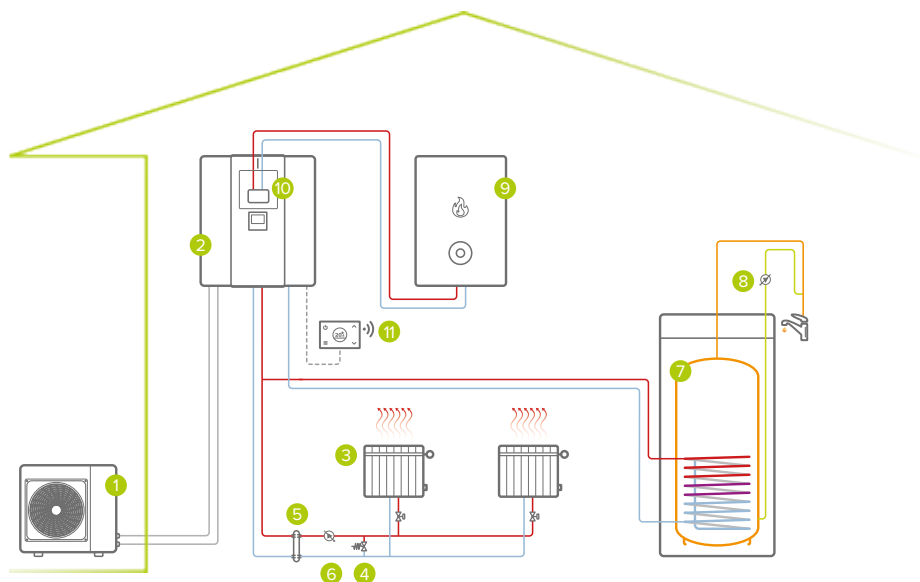
- 1 outdoor unit
- 2 indoor unit
- 3 heating/cooling zone
- 4 bypass*
- 5 DHW boiler with solar coil (optional)
- 6 DHW recirculation pump*
- 7 ELFOSun³ thermal solar (optional)
- 8 solar circulation kit (optional)
- 9 SwitchConnect Wi-Fi receiver (optional)
- 10 HID-TConnect2 Wi-Fi chronothermostat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

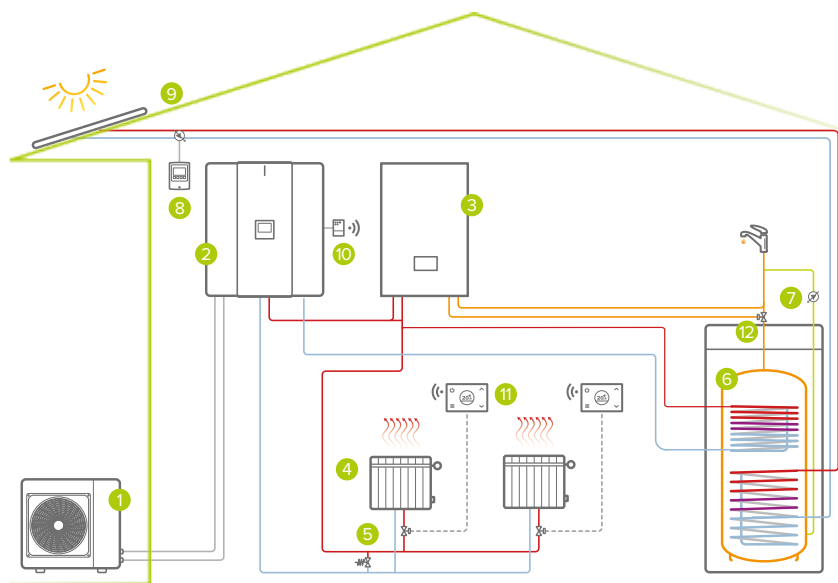


Hybrid single-zone system:

Heating / DHW

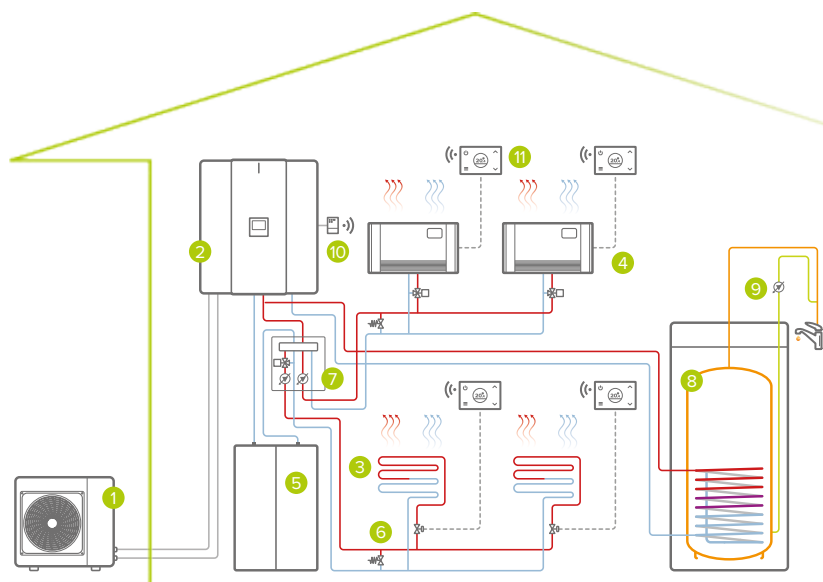
- 1 outdoor unit
- 2 indoor unit
- 3 heating area
- 4 bypass*
- 5 hydraulic separator (optional)
- 6 secondary circuit pump*
- 7 DHW tank (optional)
- 8 DHW recirculation pump*
- 9 boiler heating only*
- 10 kit for management of a boiler from another supplier (optional)
- 11 HID-TConnect2 Wi-Fi chronothermostat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

*from external supply



Hybrid single-zone system: Heating / Cooling / DHW

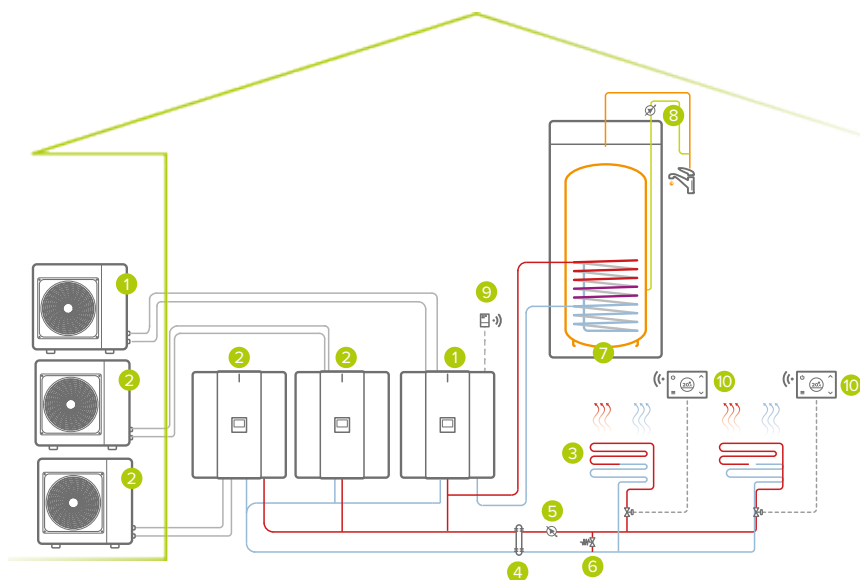
- 1 outdoor unit
- 2 indoor unit
- 3 instantaneous boiler (Hybrid version)
- 4 heating area
- 5 bypass*
- 6 DHW tank with solar predisposition (optional)
- 7 DHW recirculation pump*
- 8 kit di circolazione solare (opzionale)
- 9 ELFOSun³ thermal solar (optional)
- 10 SwitchConnect Wi-Fi receiver (optional)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



MOD
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

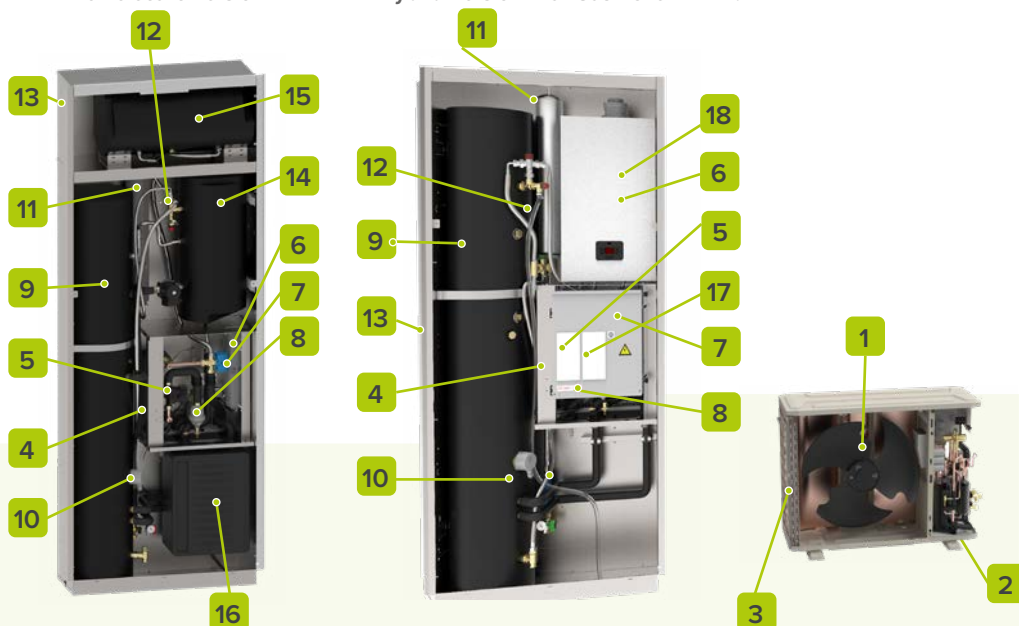
SPHERA EVO 2.0 Invisible is the ideal choice for all homes that do not have a technical room and which need to make the unit invisible by embedding it in the wall.

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		KCIACSX	DHW storage connection kit
	ACS150X	150 liter DHW tank			

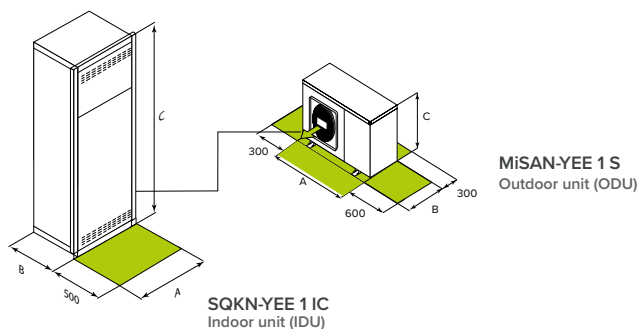
accessories

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



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			

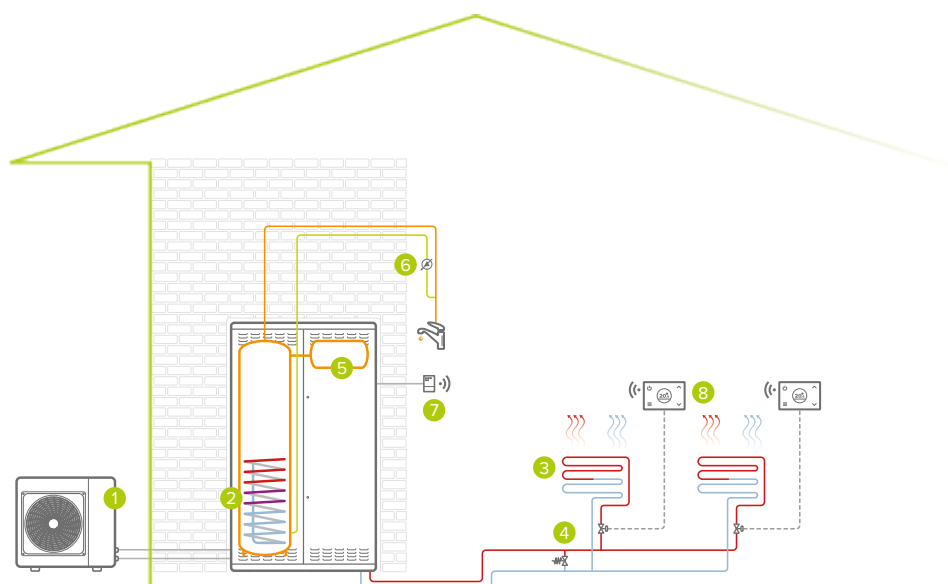
Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281). Energy classes with Control4 NRG system control

(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		920x712x400	950x2.200x360	
	Outdoor unit	AxCxB	mm				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						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		
	Hybrid Version	Exhaust gas	mm		80		

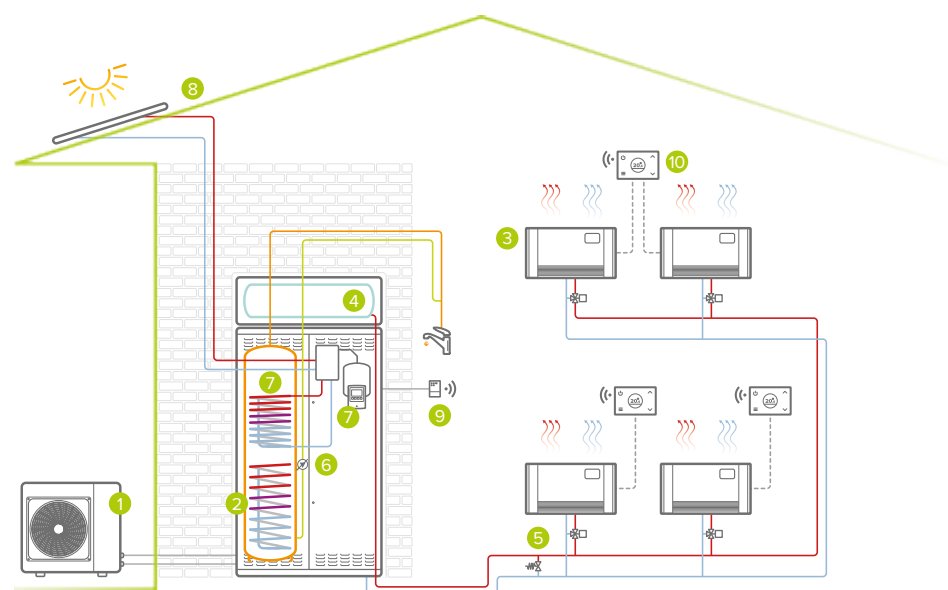
Check in the manual if the indoor unit requires a minimum installation surface

system diagrams



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

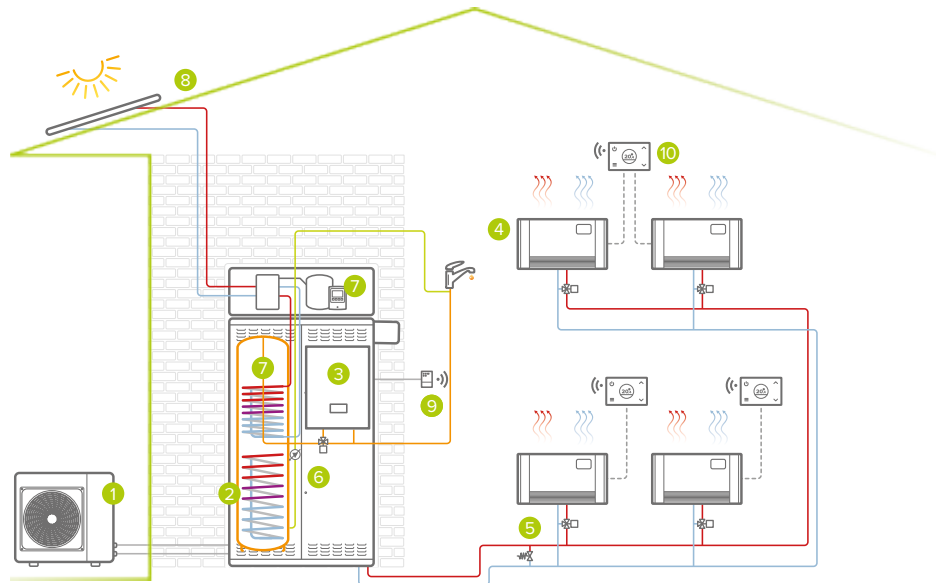
- 1 outdoor unit
- 2 indoor unit
- 3 heating/cooling zone
- 4 bypass*
- 5 additional DHW tank
- 6 DHW recirculation pump*
- 7 SwitchConnect Wi-Fi receiver (optional)
- 8 HID-TConnect2 Wi-Fi chronothermostat (optional)



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 ELFOSun³ thermal solar collector (optional)
- 9 SwitchConnect Wi-Fi receiver (optional)
- 10 HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply



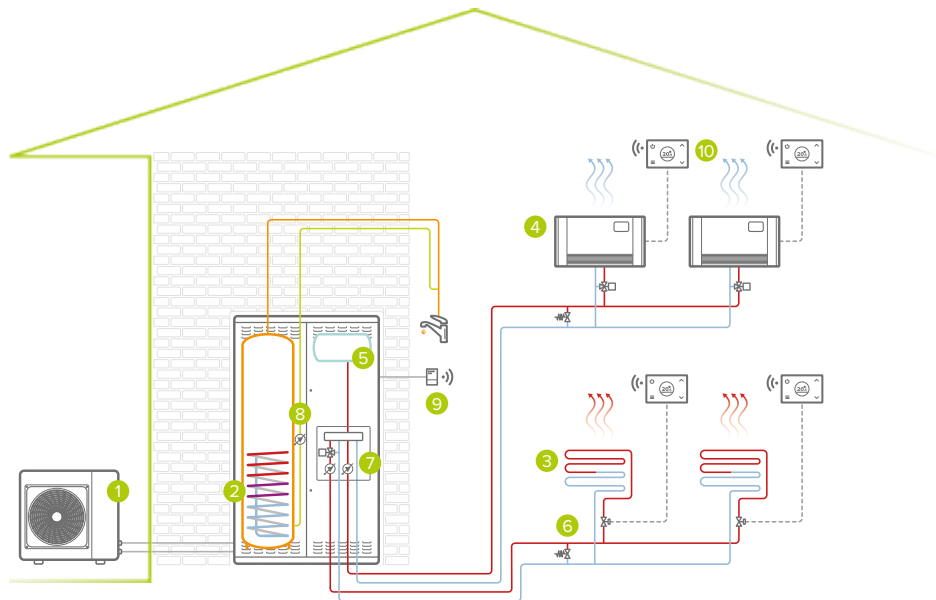
Hybrid single-area system with thermal solar:

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

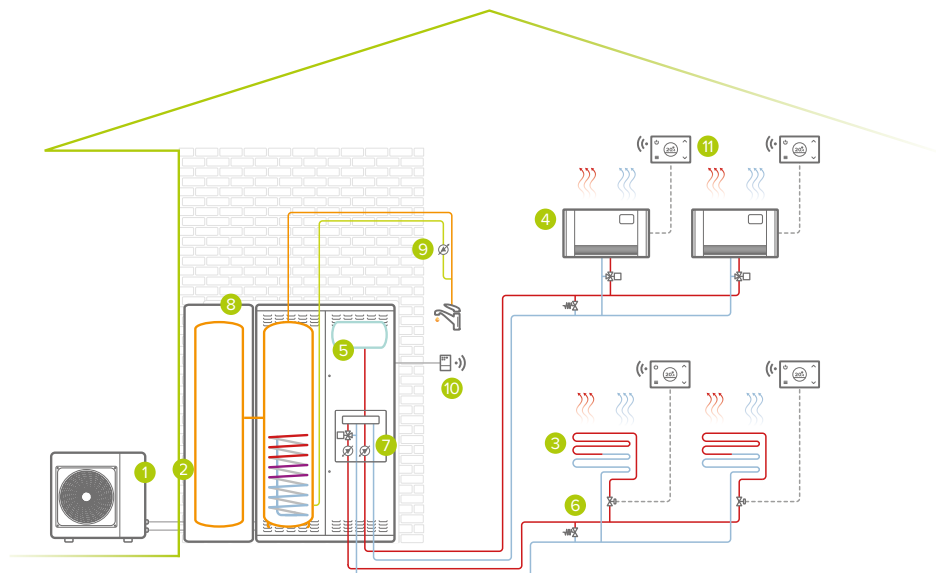


Full electric two-zone system:

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	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	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

CONVENIENCE



Weekley Timer



Contemporaneity



Instant DHW

COMFORT



Hot Cold



DHW



Silent

MANAGEMENT AND CONNECTIVITY



Input ON/OFF



Port Modbus



Control via App



management Control4 NRG



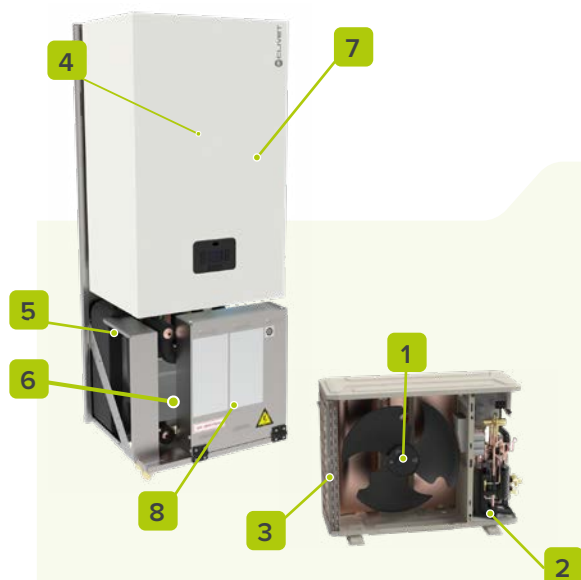
Clivet Eye monitoring



- ✓ 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 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).



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		CCOAX	90° coaxial curve for suction and flue gas discharge, 360° adjustable (d. 60/100 mm)
	ACS300X	300 liter DHW tank			
	ACS500X	500 liter DHW tank			
	SRICX	Additional PCB for 2-zone management		TCOAX	1 m coaxial pipe with terminal (d. 60/100 mm)
	KCSX	Kit for secondary circuit (1 liter circuit breaker + circulation pump + management PCB)		VDACSX	Thermostated diverter valve for DHW
	SCS08X	Solar coil for ACS200X/ACS300X DHW tank		3DHWX	3-way deviating valve for system/ DHW 1" connections
	SCS12X	Solar coil for ACS500X DHW tank			
	KIRE2HLX	Two-zone distribution kit management PCB: direct + mixed		DTX	Drain pan with antifreeze electrical heater
	KIRE2HX	Two-zone distribution kit management PCB: direct + direct		APAVX	Kit of antivibration mounts for floor installation
	DI50-2X	50 liter hydraulic separator		ASTFX	Antivibration mounts kit for installation on the brackets for wall installation or drain pan
	ACI40X	40 liter system inertial storage tank		KSIPX	Kit with wall fixing brackets
	KSDFX	Splitter for suction and flue gas discharge (d. 80/80 mm)		HTC2WX	White HID-TConnect ² chronothermostat for temperature control
	KCSAFX	Vertical coaxial fitting for smoke intake and discharge (d. 60/100 mm)		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	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	
Heating Heat pump	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	
	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	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	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	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	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++	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+++	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	A	A	A	
		Withdrawal profile	-	XL	XXL	XL	XXL	XL	XXL	XL	XXL	XXL	XXL	XXL	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	
Operating range	Cooling	-	Minimum / Maximum	°C	5 / 25		5 / 25		5 / 25		5 / 25		5 / 25		5 / 25		5 / 25	
	Heating	-	Minimum / Maximum	°C	-25 / 35		-25 / 35		-25 / 35		-25 / 35		-25 / 35		-25 / 35		-25 / 35	
(Outdoor air)	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
			type / GWP	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675
Refrigerant precharge			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"
		Gas	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Boiler	Intake air	mm	80	80	80	80	80	80	80
		Exhaust gas	mm	80	80	80	80	80	80	80

Size - Set (400TN version)

					6.1	7.1	8.1
					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
	Capacity	Water 18/23 °C	Nominal / Maximum	kW	12,1 / 15,0	13,8 / 15,3	14,8 / 16,4
Cooling	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 $\Delta T=30$ °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	Energy class			-	A++	A++	A++
	Heating Water 55 °C	Annual energy consumption		kWh/year	6.793	7.380	7.915
		SCOP		-	3,56	3,52	3,48
		η_s (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
		η_s (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			l/s	0,57	0,67	0,75
Pump available pressure	Outdoor air 7 °C			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

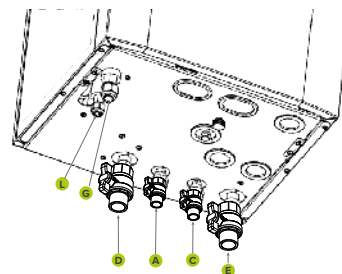
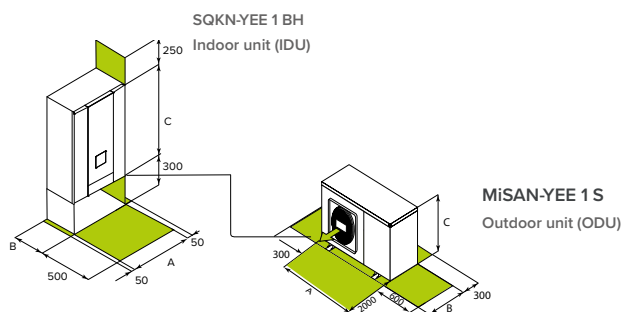
Operating range

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	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)

**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

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

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 ELFOSun³ 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



e-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



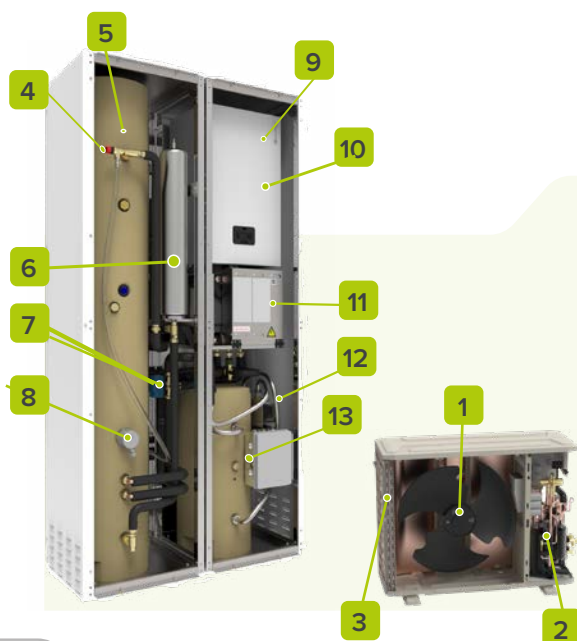
Clivet Eye monitoring



- ✓ 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):

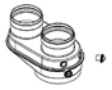
220M **Power supply 230/1/20 (standard)**
400TN Power supply 400/3/50+N

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		ANEDX	Electronic anode to protect DHW boiler
	TDUEX	Additional 150 liter DHW tank with aesthetic cabinet		KSDFX	Smoke intake and exhaust splitter (d. 80/80 mm)
	TDUESX	Additional 150 liter DHW tank with solar coil with aesthetic cabinet		KCSAFX	Vertical coaxial fitting for smoke intake and discharge (d. 60/100 mm)
	KCACSX	Pipe connection kit for TDUEX, TDUESX accessories		CCOAX	90° coaxial curve for suction and flue gas discharge, 360° adjustable (d. 60/100 mm)
	TTREX	Additional aesthetic cabinet for system accessories		TCOAX	1 m coaxial pipe with terminal (d. 60/100 mm)
	TTREAX	Second additional 150 liter DHW tank with aesthetic cabinet		3DHWX	3-way deviating valve for system/DHW 1" connections
	KC150X	Pipe connection kit for TTREAX accessory		DTX	Drain pan with antifreeze electrical heater
	SRICX	Additional PCB for 2-zone management		APAVX	Kit of antivibration mounts for floor installation
	KCSIX	Kit for secondary circuit for installation inside the unit (1 liter circuit breaker + circulation pump + management PCB)		ASTFX	Antivibration mounts kit for installation on the brackets for wall installation or drain pan
	KIR2HLX	Two-zone distribution kit management PCB: direct + mixed (for installation inside the unit)		KSIPX	Kit with wall fixing brackets
	KIR2HX	Two-zone distribution kit with management PCB: direct + direct (for installation inside the unit)		KCVEX	Solar kit: circulation unit, control unit and expansion vessel
	AC50X	50 liter system inertial storage tank with connection kit for EASYHybrid (for installation inside the unit)		HTC2WX	White HID-TConnect ² chronothermostat for temperature control
	KPRSX	DHW recirculation pump kit (for installation inside the unit)		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	34	34							
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		3,23		3,07		3,13		2,82		2,74							
Heat pump	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	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	34,0	34,0							
			Nominal	%	97,8	97,7	97,8	97,7	97,8	97,7	97,8	97,7	97,7	97,7	97,7	97,7	97,7							
Heat pump	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							
Cooling	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	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	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	Heating	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								
	Medium climate	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							
		Withdrawal profile		-	XL		XXL		XL		XXL		XL		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 tempe- rature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65																			
	Hybrid	-	Minimum / Maximum	°C	25 / 80																			
Operating range (Outdoor air)	Cooling	-	Minimum / Maximum	°C	5 / 25																			
	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		1100x2100x530 (TUNOX + TDUEx)						
	Outdoor unit	AxCxB	mm		920x712x400						
Operating weight	Indoor unit		kg		325						
	Boiler - 24 kW		kg		31						
	Boiler - 34 kW		kg		34						
	Outdoor unit		kg		112						
Max / min equivalent length		L	m		30 / 2						
Max difference in level ODU / IDU		H	m		25						
			type / GWP		R-32 / 675						
Refrigerant precharge			kg		1,50						
			CO ₂ tons		1,05						
Equivalent pipe length with pre-charging only			m		15						
External diameters	Refrigerant piping	Liquid	inch		1/4"						
		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
					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
Heating Heat pump	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
	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 $\Delta T=30$ °C in 10 minutes		l/min	16,0	16,0	16,0
Electrical power for meter sizing					kW	5,40	5,70
Seasonal efficiency Medium climate	Energy class			-	A++	A++	A++
	Heating	Annual energy consumption		kWh/year	6.793	7.380	7.915
	Water 55 °C	SCOP		-	3,56	3,52	3,48
		η_s (seasonal output)		%	139	138	136
	Energy class			-	A+++	A+++	A+++
	Heating	Annual energy consumption		kWh/year	4.994	5.868	6.602
	Water 35 °C	SCOP		-	5,00	4,91	4,89
		η_s (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			l/s	0,57	0,67	0,75
Pump available pressure	Outdoor air 7 °C			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

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

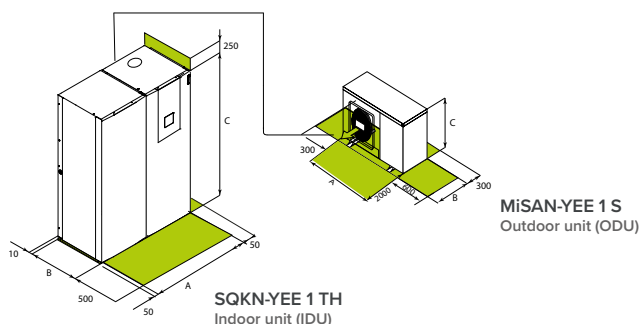
Operating range

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

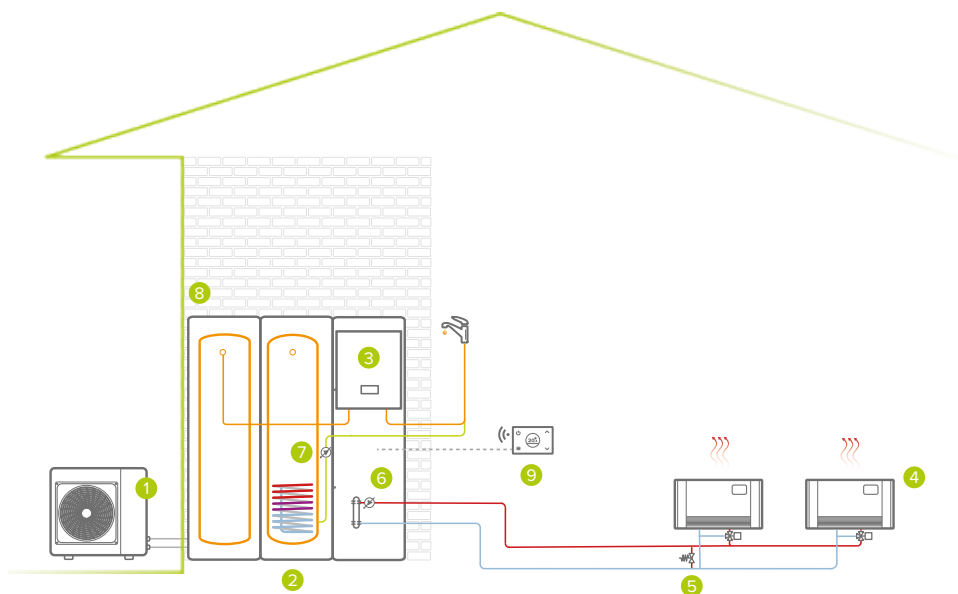
Data according to EN 14511:2018 and EN 14825:2016

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)

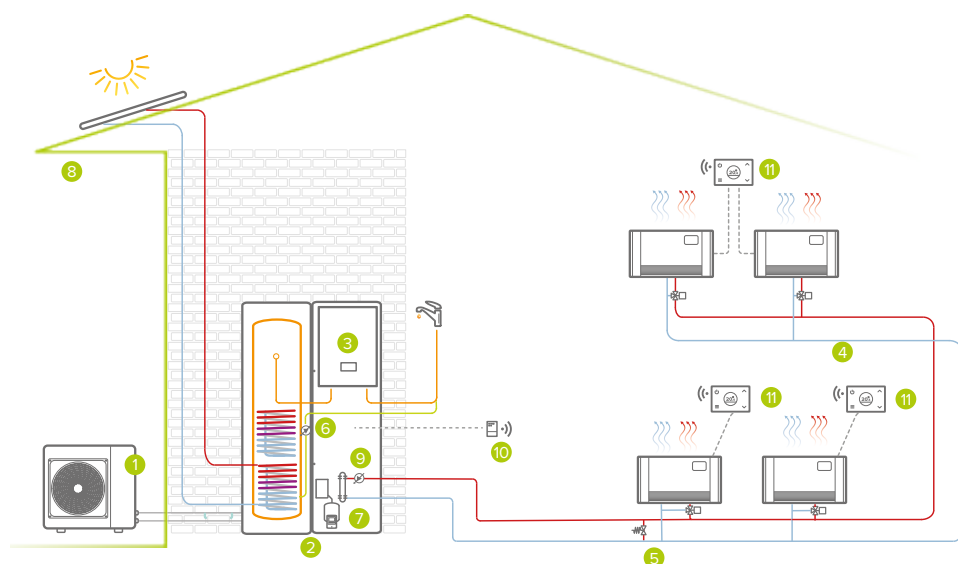


For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.



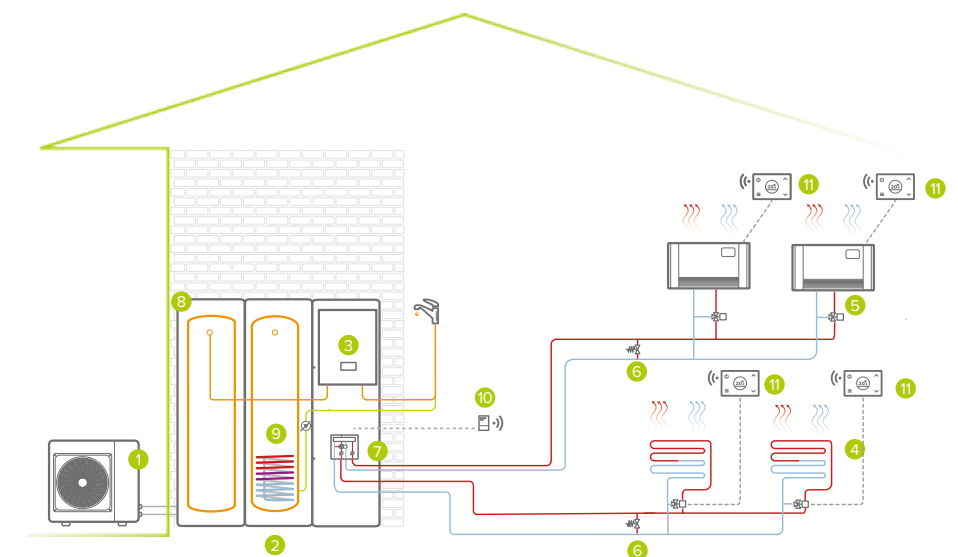
Hybrid single-zone system: Heating / DHW

- 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 ELFSun³ 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



MOD
Modbus



Control
via App



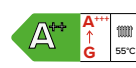
management
CONTROL4 NRG



Clivet Eye
monitoring



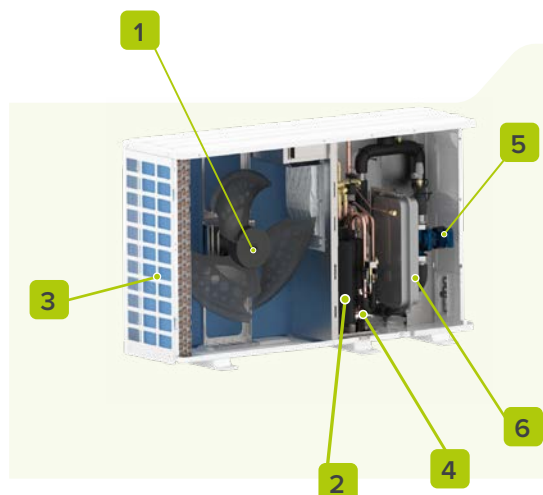
Energy
metering



- ✓ 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

	KTFLEX	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 m ² 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-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
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 / 14,6bl	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	Energy class			-	A++	A++	A++	A++	A++	A++	A++
	Heating	Annual energy consumption	kWh/year	2.749	3.348	4.064	4.541	6.916	6.917	7.213	
		Water 55 °C	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	
		Energy class			-	A+++	A+++	A+++	A+++	A+++	A+++
	Medium climate	Heating	Annual energy consumption	kWh/year	2.354	2.849	3.223	3.649	5.156	5.157	6.011
		Water 35 °C	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

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
Operating range	Cooling	-	Minimum / Maximum °C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
	Heating	-	Minimum / Maximum °C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
(Outdoor air)	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

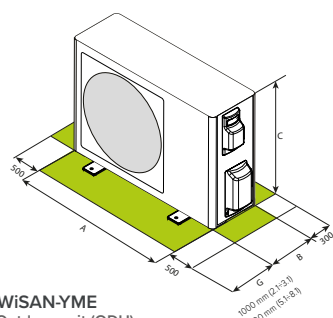
Data according to EN 14511:2018 and EN 14825:2016

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

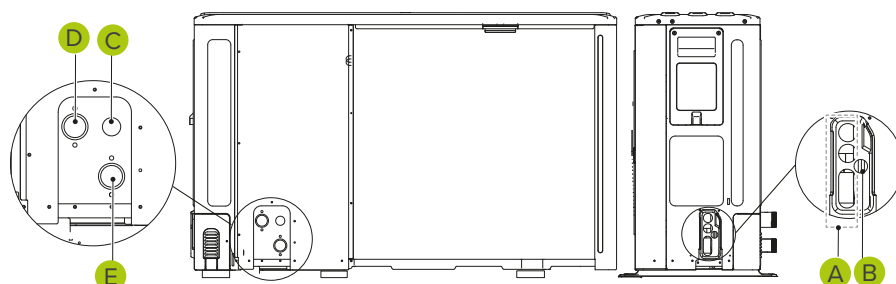
SIZES 2.1 to 3.1



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 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	Energy class			-	A++	A++	A++	A++	A++	A+	A+
	Heating Water 55 °C	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

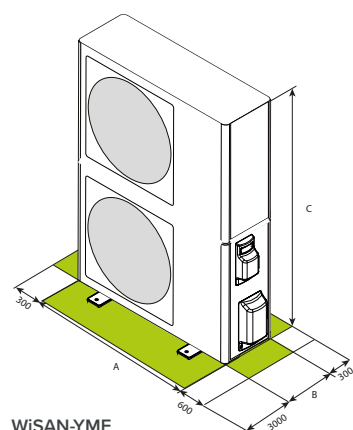
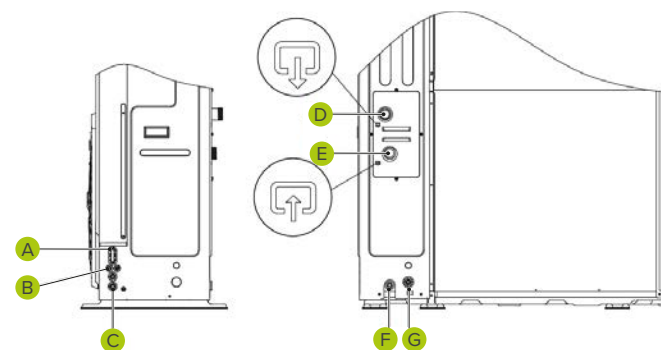
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65	25 / 65	25 / 65	25 / 60	25 / 60	25 / 60	25 / 60
		Hybrid	Minimum / Maximum	°C	25 / 75	25 / 75	25 / 75	25 / 70	25 / 70	25 / 70	25 / 70
Operating range	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 /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

SIZES 9.1 to 14.1

WiSAN-YME
Outdoor unit (ODU)

- 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

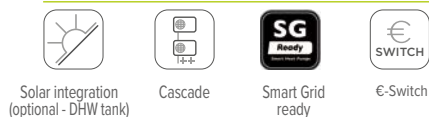
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

EDGE F

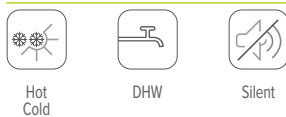
WiSAN-PME 1 S 2.1÷8.1

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

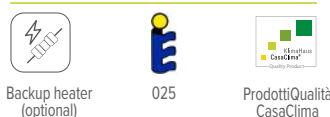
ENERGY SAVING



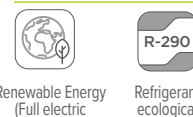
COMFORT



RELIABILITY



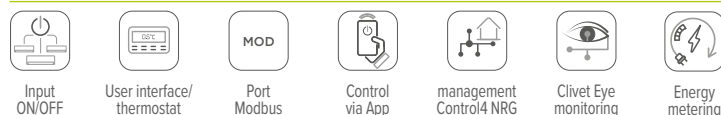
HEALTH



CONVENIENCE



MANAGEMENT AND CONNECTIVITY

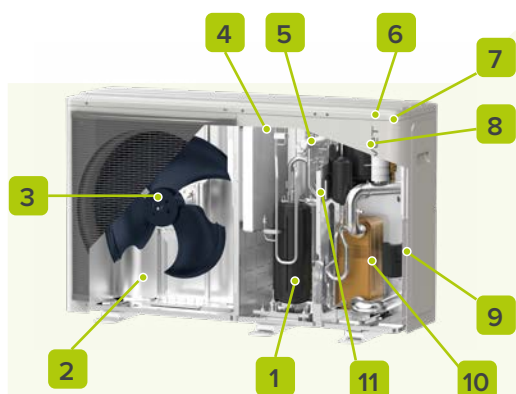


- ✓ R-290 technology: combines high performance with full respect for the environment
- ✓ Versatile: wide range of applications in both packaged and hydro-split versions
- ✓ Renovation is easy: supply temperature up to 75 °C, perfect for any distribution system
- ✓ Modular: combines up to 6 units in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

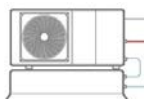
BACK-UP ELECTRIC HEATER (INTEGRATED IN THE UNIT):

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

technical data

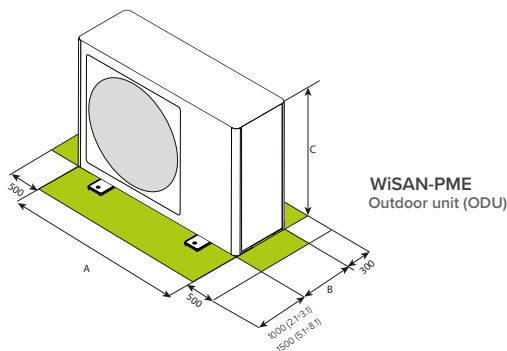
Size					2.1	3.1	4.1	5.1	6.1	7.1	8.1
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,50 / 6,86	6,20 / 7,70	8,40 / 10,4	10,0 / 11,0	12,0 / 14,7	14,0 / 16,0	15,0 / 17,6
	COP	Outdoor air 7°C	Nominal	-	5,15	4,90	5,00	4,70	4,80	4,50	4,40
	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,50 / 5,56	5,90 / 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	Energy class			-	A++	A++	A++	A++	A++	A++	A++
	Heating	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
	Water 55°C	ηs (seasonal output)		%	148,7	149,7	149,7	149,8	141,8	141,9	139,9
		Energy class		-	A+++	A+++	A+++	A+++	A+++	A+++	A+++
	Heating	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
	Water 35°C	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
Operating range (Outdoor air)	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
	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).

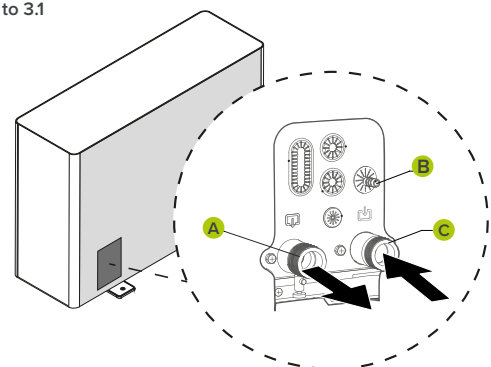
dimensions and connections

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



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



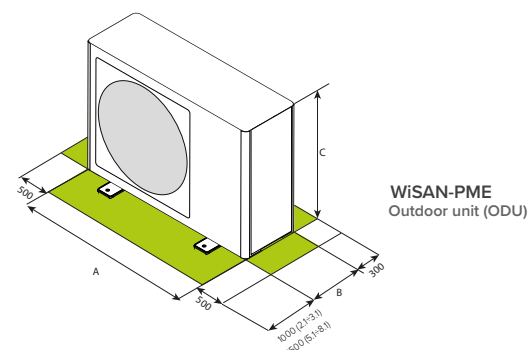
- A. 1" system supply
- B. Pressure relief valve Ø 16mm
- C. 1" system return

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	Energy class		-	A++	A++	A++	
	Heating	Annual energy consumption	kWh/year	6.847	7.414	8.349	
	Water 55°C	SCOP	-	3,62	3,62	3,57	
	ηs (seasonal output)		%	141,8	141,9	139,9	
	Energy class		-	A+++	A+++	A+++	
	Medium climate	Heating	Annual energy consumption	kWh/year	5.376	6.091	6.630
Water 35°C		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

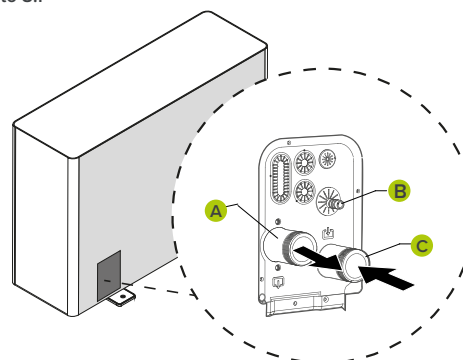
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).

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
External diameters		CO ₂ tons	0,004	0,004	0,004
	Water	inch	1" 1/4	1" 1/4	1" 1/4

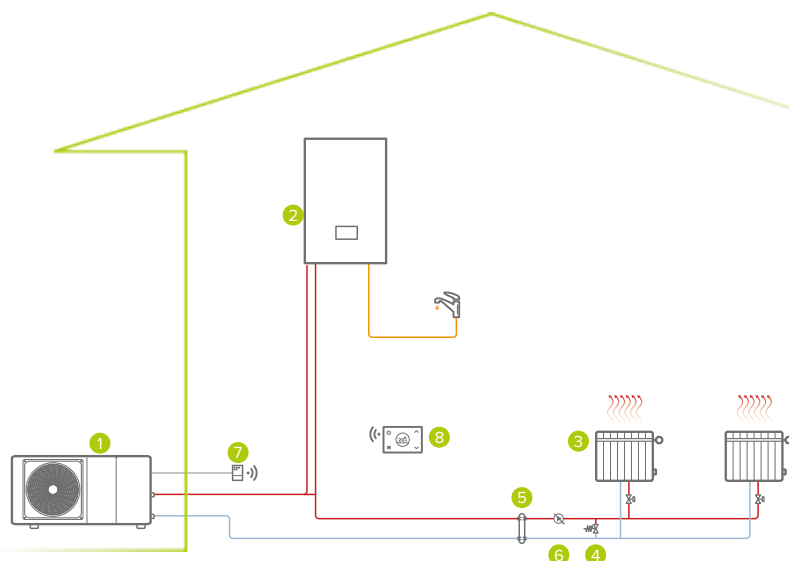


For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

SIZES 4.1 to 8.1



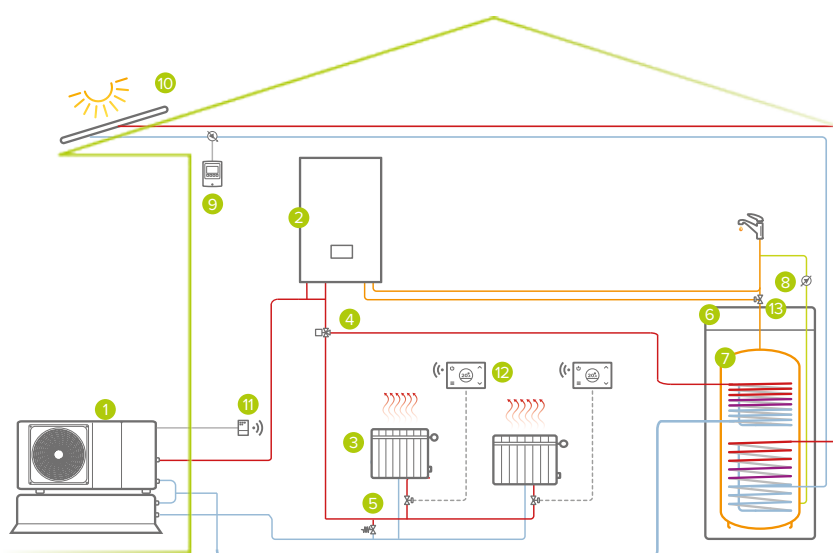
- A. 1 1/4" system supply
- B. Pressure relief valve Ø 16mm
- C. 1 1/4" system return



Hybrid single-zone system:

Heating / DHW

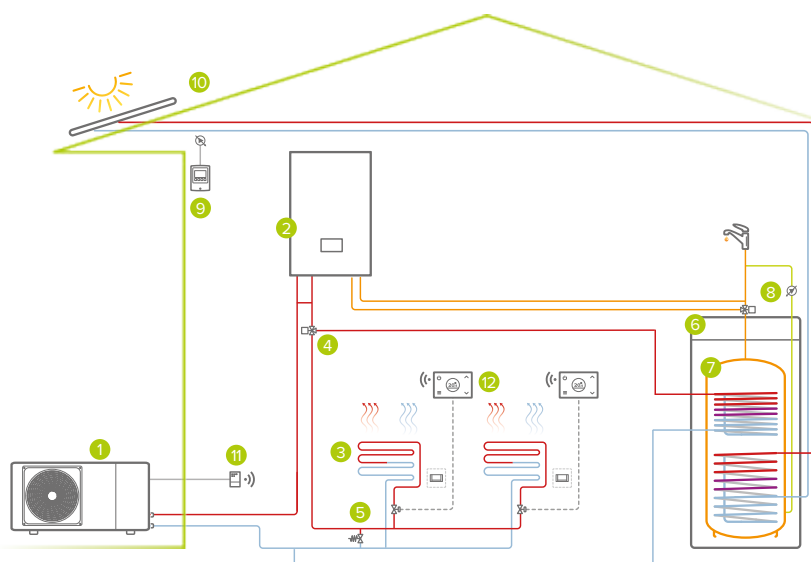
- 1 outdoor unit
- 2 instantaneous boiler (*Hybrid version*)
- 3 heating area
- 4 bypass*
- 5 hydraulic separator (optional)
- 6 secondary circuit pump (optional)
- 7 SwitchConnect Wi-Fi receiver (optional)
- 8 HID-TConnect2 Wi-Fi chronothermostat (optional)



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 ELFOSun³ thermal solar (optional)
- 11 SwitchConnect Wi-Fi receiver (optional)
- 12 HID-TConnect2 Wi-Fi chronothermostat (optional)
- 13 thermostatic switching valve for DHW (optional)

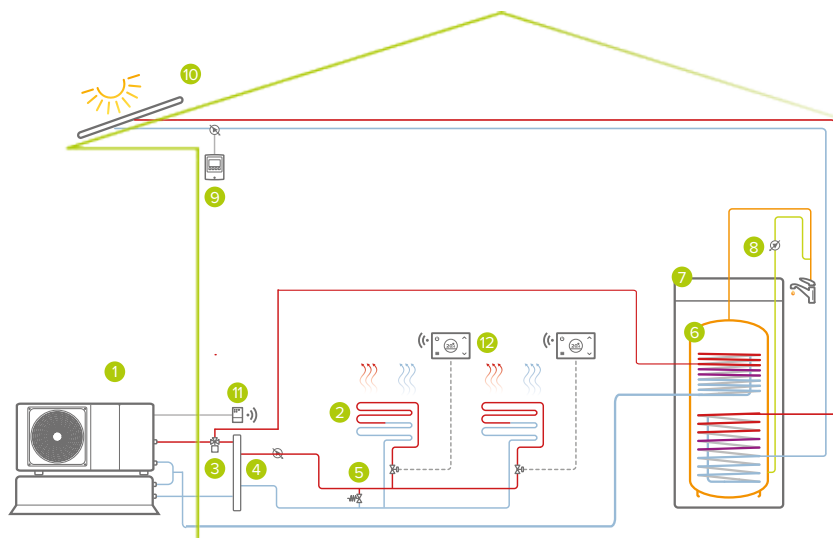


Hybrid single-area system with thermal solar:

Heating / Cooling / DHW

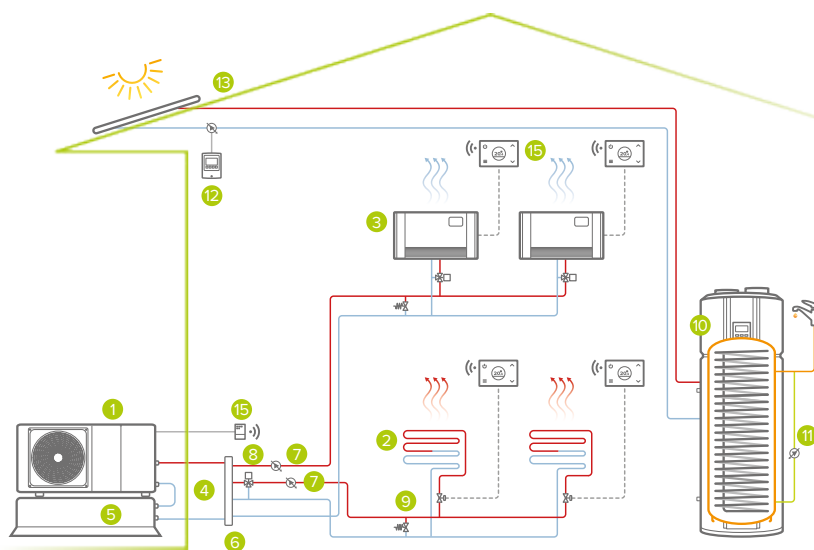
- 1 outdoor unit
- 2 boiler
- 3 heating/cooling zone
- 4 3-way switching valve (optional)
- 5 bypass*
- 6 boiler kit connection QERAX (optional)
- 7 DHW tank with solar predisposition (optional)
- 8 DHW recirculation pump*
- 9 kit di circolazione solare (opzionale)
- 10 ELFOSun³ thermal solar (optional)
- 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

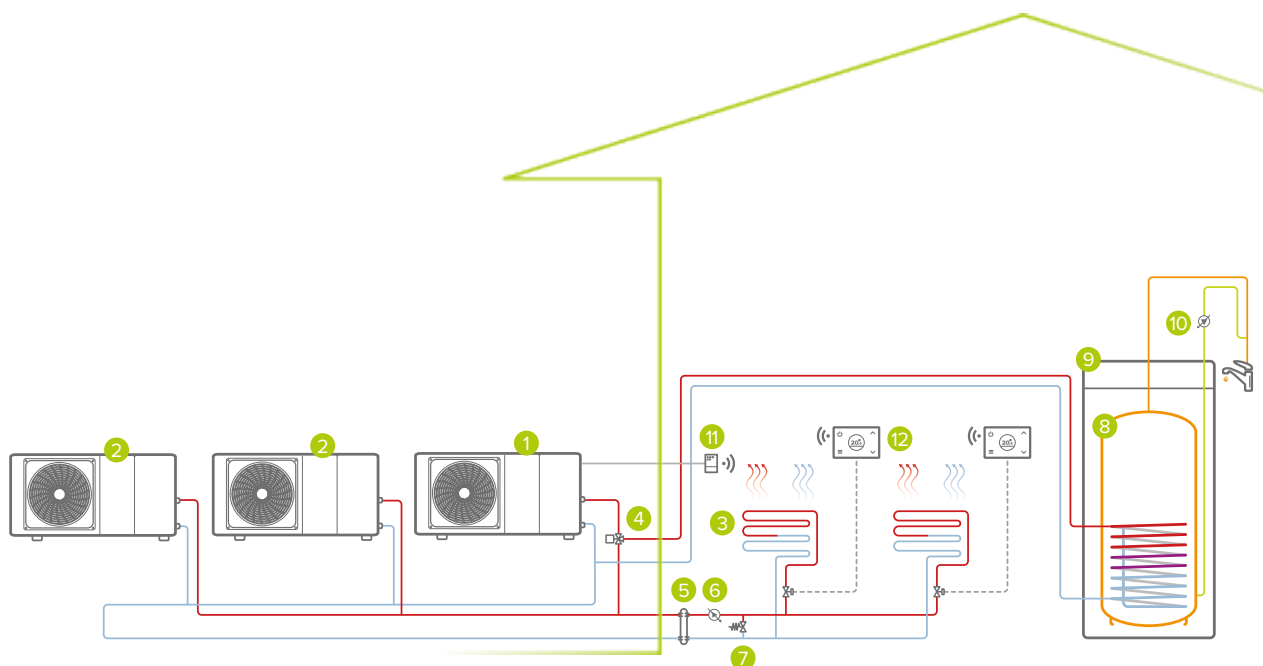
- 1 outdoor unit
- 2 heating/cooling zone
- 3 3-way switching valve (optional)
- 4 single-area separator + pump kit
- 5 bypass*
- 6 DHW boiler with solar coil (optional)
- 7 boiler connection kit (optional)
- 8 DHW recirculation pump (optional)
- 9 kit di circolazione solare (opzionale)
- 10 ELFOSun³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

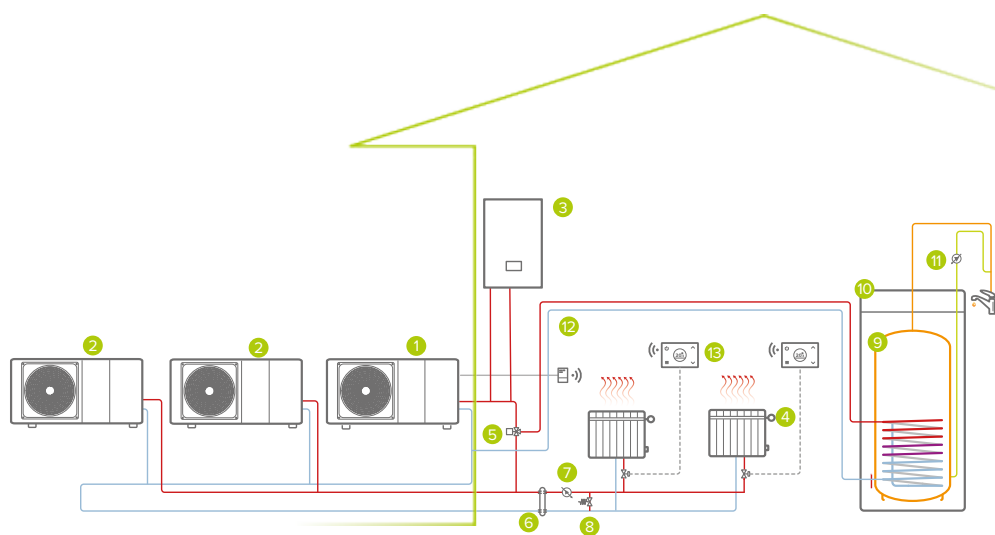


Full electric single-zone system in cascade:

Heating / Cooling / DHW

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

*from external supply



Hybrid single-zone system in cascade:

Heating / DHW

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

*from external supply





OVERVIEW OF HYDRO-SPLIT SYSTEMS

					Size								
Model			Refrig.	T _{WATER} MAX	T _{EXT} /T _{WATER}	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		R-32	Full EI.: 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 EI.: 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 EI.: 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 EI.: 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



E-Switch

CONVENIENCE



Weekley Timer



Contemporaneity
(Hybrid Version)



Instant DHW
(Hybrid Version)



Integrated DHW
tank

COMFORT



Hot
Cold



DHW



Silent

RELIABILITY



Backup heater
(optional)

MANAGEMENT AND CONNECTIVITY



Input ON/OFF



Port
Modbus



Control
via App



Management
Control4 NRG



Clivet Eye
monitoring



User interface /
thermostat

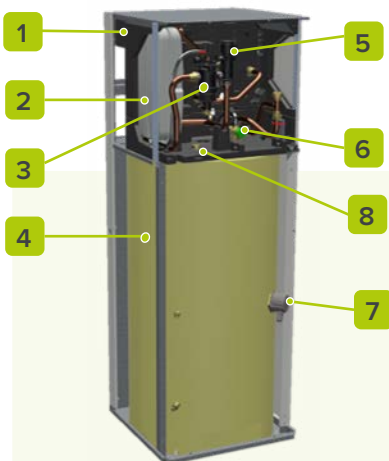


- ✓ 190 or 250 l ACS storage tank
- ✓ Wide range of integrable accessories
- ✓ Can be combined with EDGE outdoor units
- ✓ Reduced space requirements
- ✓ Easy installation

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		KIR2HX	Hydraulic kit for managing two areas with the same temperature
	EH9X	Additional electric heater adjustable to one capacity of 9 kW		KIR2HLX	Hydraulic kit for managing two areas with high and mixed temperature
	KCSIX	Secondary circuit kit (1L hydraulic circuit breaker + pump)		SOLX	DHW plate exchanger kit for solar thermal connection
				SICGX	Intermediate exchanger for clean separation between primary and secondary circuit

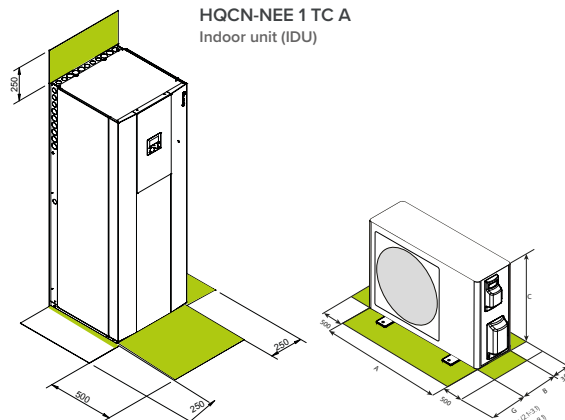
external accessories

	ACI40X	System inertial tank 40 litres		VEACSX	Sanitary expansion tank
	COFX	Aesthetic cover for inertial tank		KCAIAX	Additional inertial tank connection kit

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	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	250	250	250	
	Water mixed at 40°C (V40)		l	204	269	204	269	204	269	204	269	269	269	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	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++	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+++	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+							
		Withdrawal profile	-	L	XL	L	XL	L	XL	L	XL	XL	XL	XL	XL	XL	XL	XL
	Size - Indoor unit					A	A	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	12	12	12	12	12	12	
Sound power		Nominal		dB(A)	41	41	41	41	41	41	41	41	41	41	41	41	41	
Sound pressure @1m		Nominal		dB(A)	26	26	26	26	26	26	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							
Operating range	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25							
	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

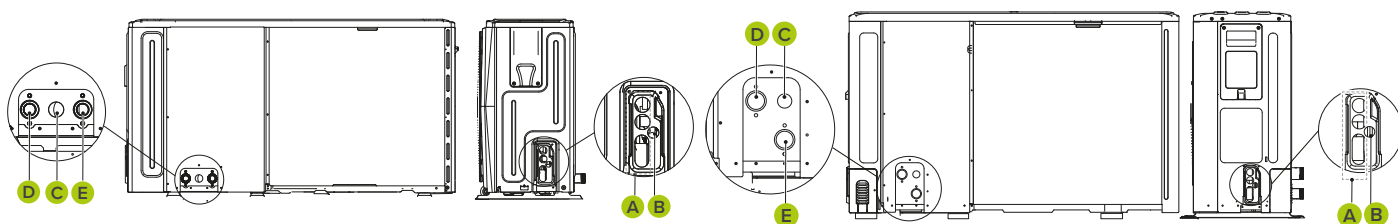
Size - Set				6.1	7.1	8.1	
DHW tank				250L	250L	250L	
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	12,1 / 14,6	14,5 / 15,5	15,9 / 16,8
	COP	Outdoor air 7°C	Nominal	-	4,95	4,60	4,50
	Capacity	Water 35/30°C	Nominal / Maximum	kW	10,0 / 11,0	12,0 / 12,7	13,1 / 13,9
	COP	Outdoor air -7°C	Nominal	-	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)

D. Water outlet

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

E. Water inlet

C. Hole for discharge pipe

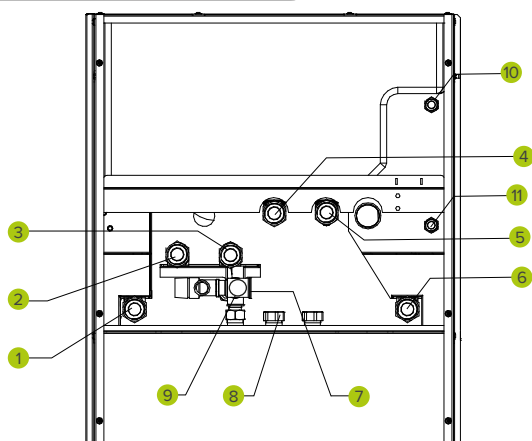
technical data - TOWER version + Edge F

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	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								
Cooling	COP	Outdoor air 7°C	Nominal	-	4,05	3,80	3,85	3,65	3,70	3,50	3,35								
	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	250	250	250	250	250	250	250	250	
	Water mixed at 40°C (V40)		l		204	269	204	269	204	269	269	269	269	269	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	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+ A+	A+ A+								
		Withdrawal profile	-		L XL	L XL	L XL	L XL	L XL	L XL	L 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	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		
(Outdoor air)	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
			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
Refrigerant charge			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)

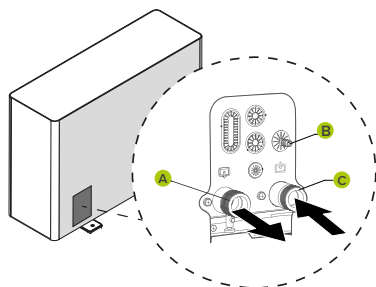
Size - Set

Size - Set				6.1	7.1	8.1	
				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	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43
(Outdoor air)	Cooling	-	Minimum / Maximum	°C	-5 / 43	-5 / 43	-5 / 43

Size

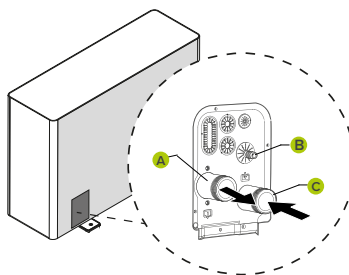
				6.1	7.1	8.1
Dimensions	Indoor unit ACS190	AxCxB	mm	-	-	-
	Indoor unit ACS250	AxCxB	mm	600x2.004x615	600x2.004x615	600x2.004x615
	Outdoor unit	AxCxB	mm	1.385x865x423	1.385x865x423	1.385x865x423
Operating weight	Indoor unit ACS190		kg	-	-	-
	Indoor unit ACS250		kg	421	421	421
	Outdoor unit		kg	135	135	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

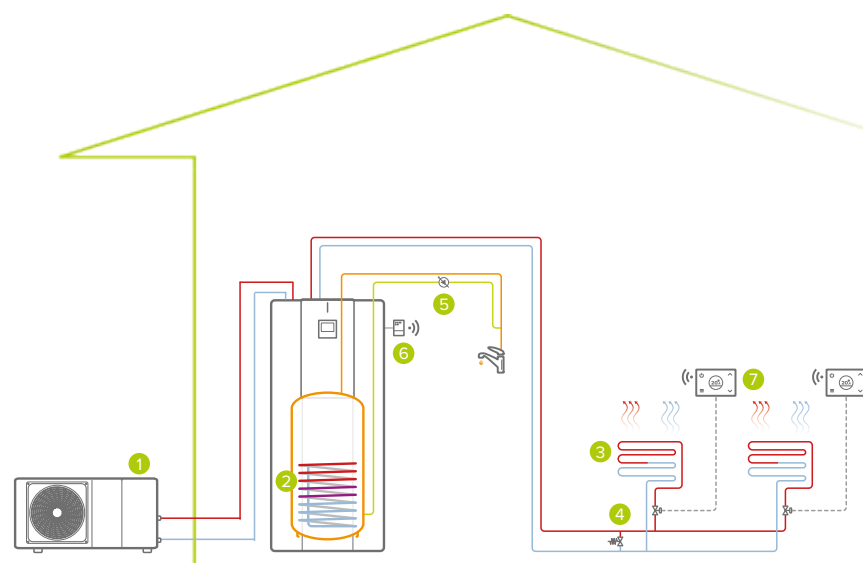


- A. 1" system supply
B. Pressure relief valve Ø 16 mm
C. 1" system return

SIZES 4.1 to 8.1

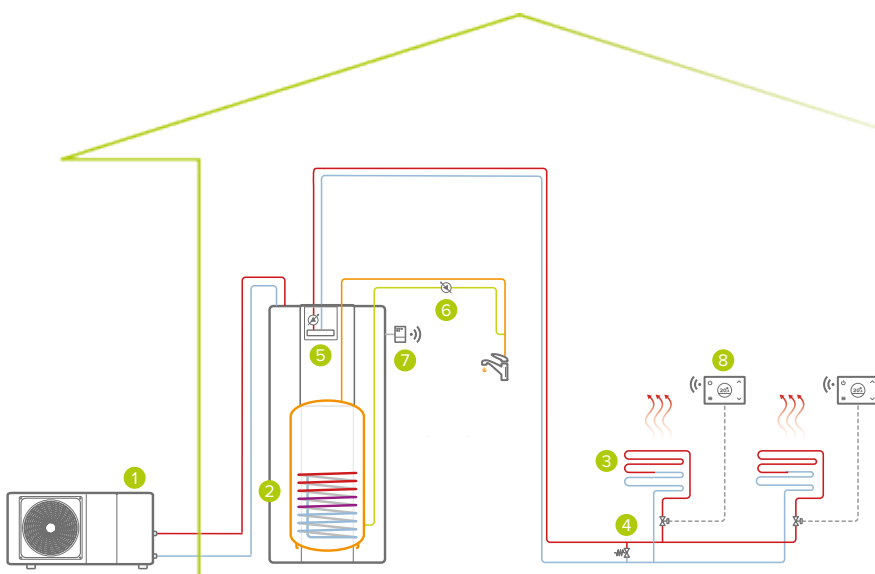


- A. System supply 1 1/4"
B. Pressure relief valve Ø 16 mm
C. System return 1 1/4"



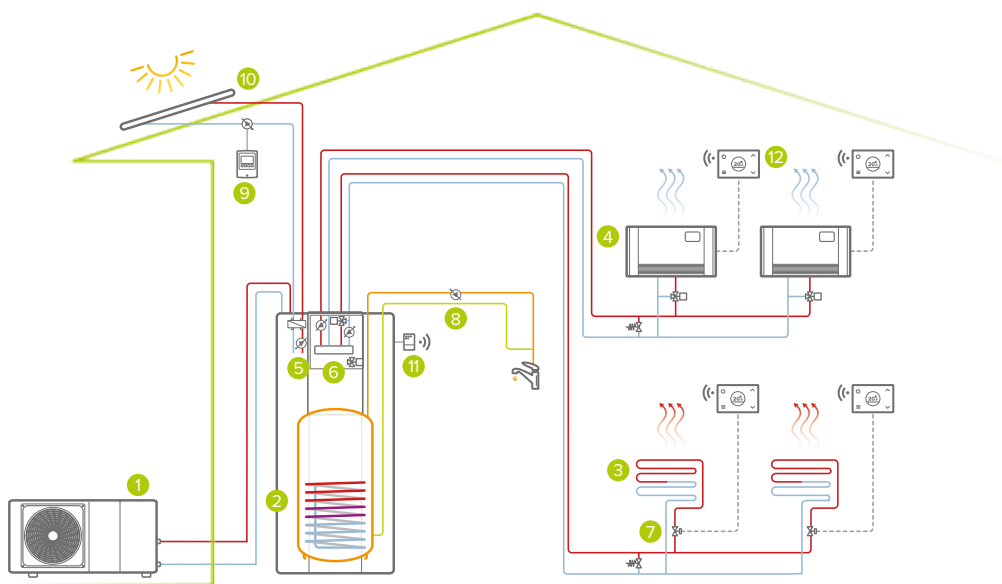
Single-zone system:
Heating / DHW

- 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

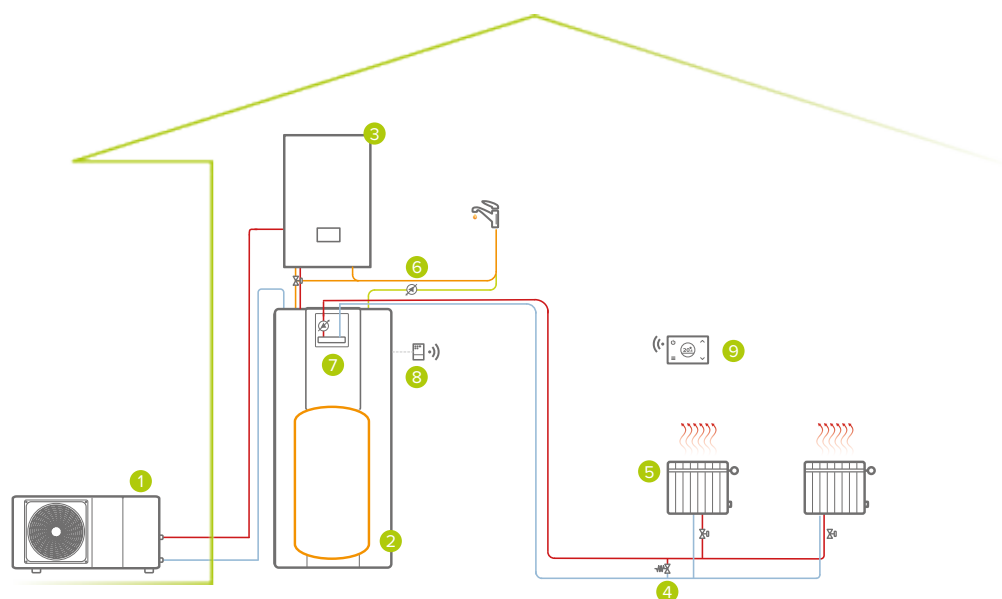
- 1 outdoor unit
- 2 indoor unit
- 3 heating area
- 4 bypass*
- 5 hydraulic separator single-area kit plus pump
- 6 DHW recirculation pump
- 7 SwitchConnect Wi-Fi receiver
- 8 Wi-Fi chronothermostat HID-TConnect2



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



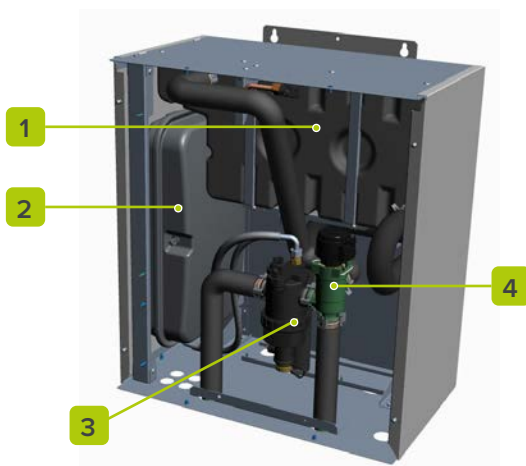
User interface /
thermostat



- ✓ 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

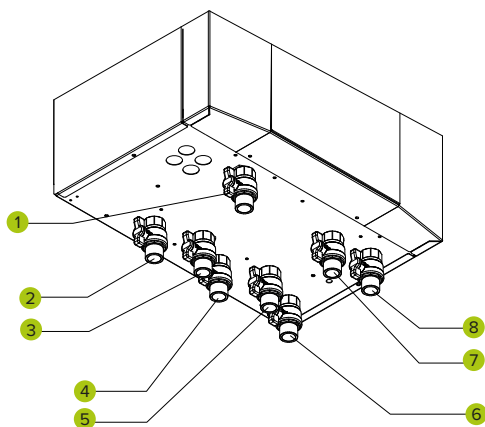
	ACS200X	200 liter DHW tank		T1BX	Water temperature probe 10 m
	ACS300X	300 liter DHW tank		T1B30X	Water temperature probe 30 m
	ACS500X	500 liter DHW tank		VDACSX	Thermostatic switching valve ACS
	SCS08X	Solar coil for boilers ACS ACS200X/ACS300X			Simplified installation kit with fittings for EASYBOX
	SCS12X	Solar coil for boiler ACS ACS500X			
	ACI40X	System inertial tank 40 litres		HTC2WX	Chronothermostat HID-TConnect22 for temperature control, white
	ANEDX	Electronic anode		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
Cooling	COP	Outdoor air 7°C	Nominal	-	3,80	3,70	3,85	3,75	3,70	3,60	3,50
	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++	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+++	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	
Expansion tank capacity				l	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	
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
Operating range	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
	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
(Outdoor air)	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



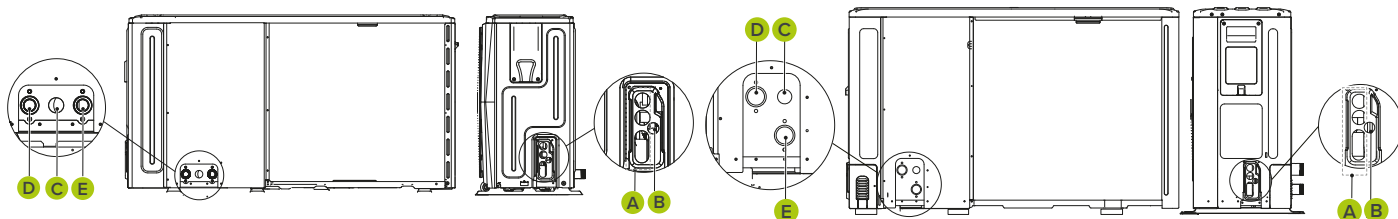
1. Water supply from outdoor unit 1"
2. Area 1 system return - 1"
3. Area 1 system supply - 1"
4. Area 2 system return - 1" (optional)
5. Area 2 system supply - 1" (optional)
6. Water return to outdoor unit 1"
7. DHW exchanger return (with optional water tank)
8. DHW exchanger supply (with optional water 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
Operating range (Outdoor air)	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25
	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

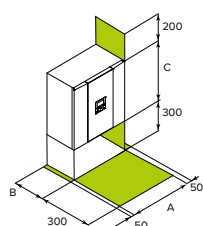
Size - Set					2.1	3.1	4.1	5.1	6.1	7.1	8.1
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,50 / 6,86	6,20 / 7,70	8,40 / 10,4	10,0 / 11,0	12,0 / 14,7	14,0 / 16,0	15,0 / 17,6
	COP	Outdoor air 7°C	Nominal	-	5,15	4,90	5,00	4,70	4,80	4,50	4,40
	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,50 / 5,56	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++	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+++	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	
Expansion tank capacity				l	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	
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

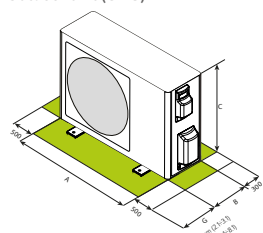
Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	547x604x386	547x604x386	547x604x386	547x604x386	547x604x386	547x604x386	547x604x386
	Outdoor unit	AxCxB	mm	1.295x718x371	1.295x718x371	1.385x865x423	1.385x865x423	1.385x865x423	1.385x865x423	1.385x865x423
Operating weight	Indoor unit		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)



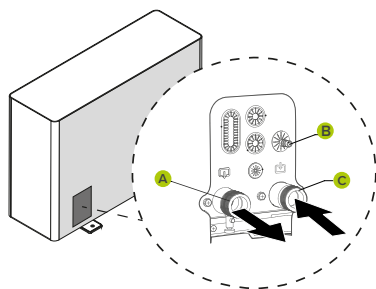
G = 1000 mm (2.1-3.1) / 1500 mm (5.1-8.1)

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	Heating	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 46	-25 / 46	-25 / 46
	(Outdoor air)	Cooling	-	Minimum / Maximum	°C	-5 / 46	-5 / 46

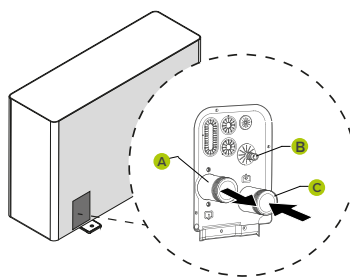
Size				6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	547x604x386	547x604x386	547x604x386
	Outdoor unit	AxCxB	mm	1.385x865x423	1.385x865x423	1.385x865x423
Operating weight	Indoor unit		kg	52	52	52
	Outdoor unit		kg	135	135	135
Refrigerant precharge ¹			type / GWP	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02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

SIZES 2.1 to 3.1

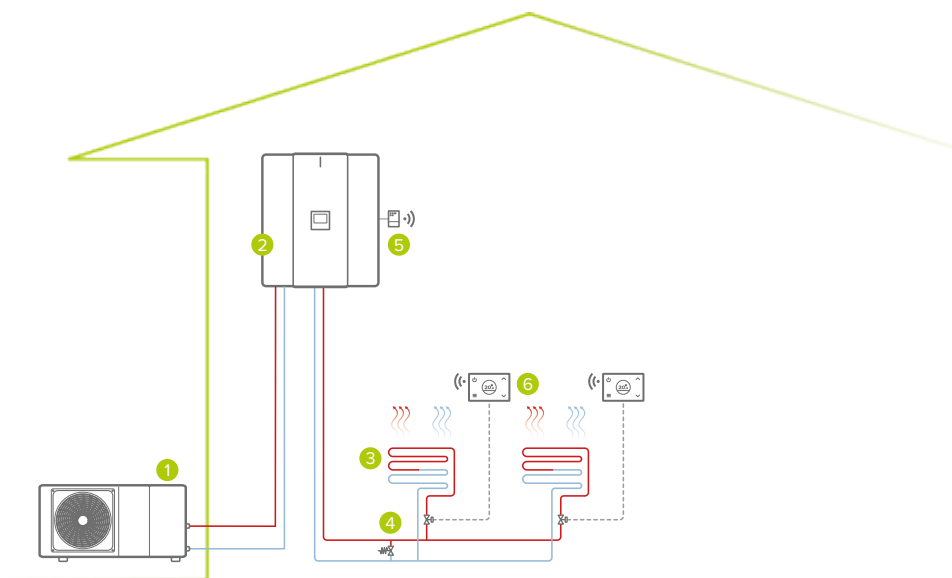


- A. 1" system supply
B. Pressure relief valve Ø 16 mm
C. 1" system return

SIZES 4.1 to 8.1

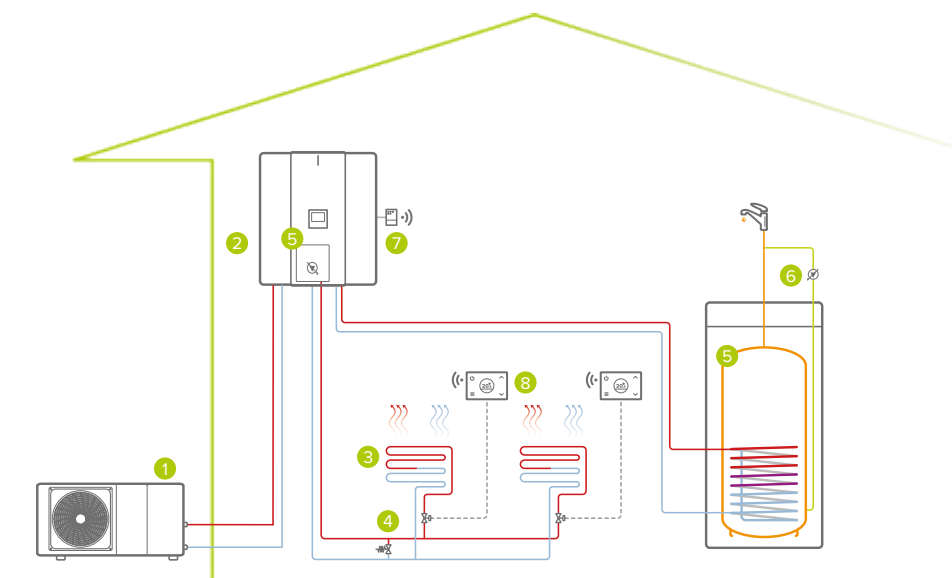


- A. System supply 1 1/4"
B. Pressure relief valve Ø 16 mm
C. System return 1 1/4"



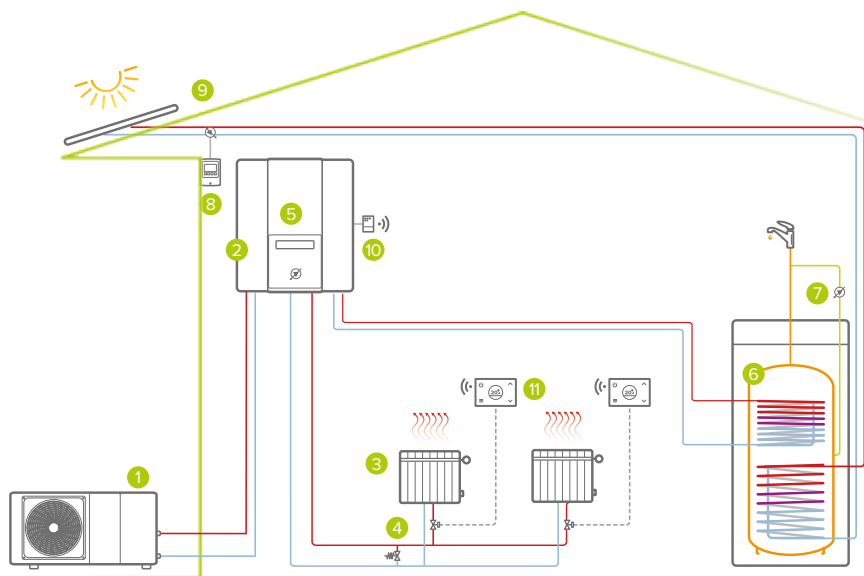
Single-zone system:
Heating / DHW

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



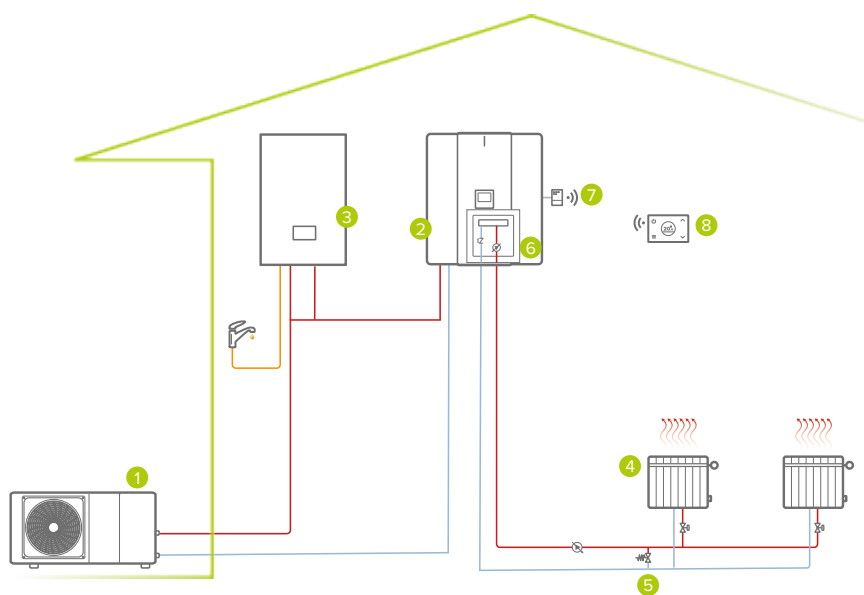
Single-area system + external DHW water tank:
Heating / DHW

- 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



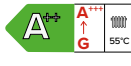
ELFOControl
management



Clivet Eye
monitoring



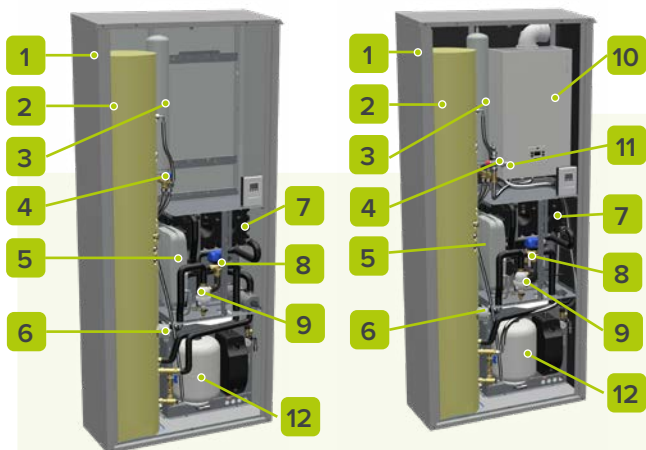
User interface /
thermostat



- ✓ 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		KCIACSX	DHW storage connection kit
	ACS150X	150 l DHW tank			

internal accessories

	AENVX	Additional aesthetic practical cabinet for system accessories in full view ^(NEW)		SICGX	Intermediate exchanger for glycol circuit ^(NEW)
	DPX	Template for connecting the additional aesthetic practical cabinet for system accessories in full view		ACSA150X	Additional 150 l DHW storage tank
	KCIACSX	Storage tank connection kit (Std)		ACSA50X	Additional 50 l DHW storage tank
	KCSX	Single zone kit		KCI150X	150 l additional cylinder connection kit
	KIR2HX	Hydraulic kit for managing two areas with the same temperature		ADIAX	150 l additional DHW storage tank cabinet
	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		KCVEX	Solar controller module + pump + expansion tank
	EH9X	Additional electric heater adjustable to one capacity of 9 kW		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
Cooling	COP	Outdoor air 7 °C	Nominal	-	3,80	3,70	3,85	3,75
	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

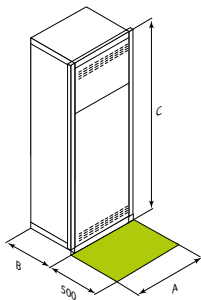
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281). Energy classes with Control4 NRG system control

(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

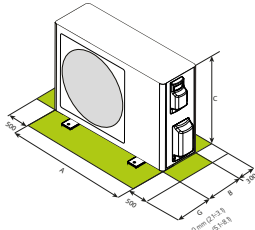
dimensions and connections

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
			type / GWP	R-32 / 675	R-32 / 675	R-32 / 675	R-32 / 675
Refrigerant charge			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"
		Gas	inch	3/4"	3/4"	3/4"	3/4"
Boiler Hybrid version	Intake air	mm		80	80	80	80
	Exhaust gas	mm		80	80	80	80

HQCN-NEE 1 IC
Indoor unit (IDU)

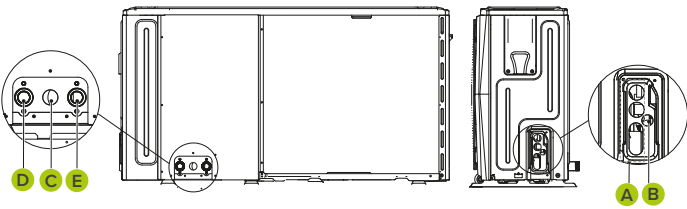


WiSAN-YME
Outdoor unit (ODU)



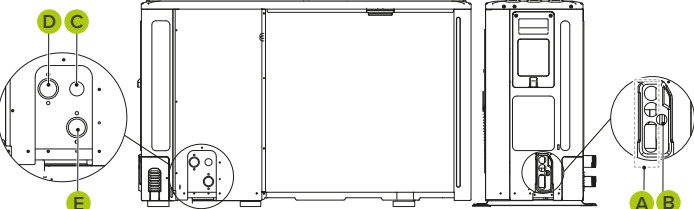
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

SIZES 2.1 to 3.1



- A. Hole for high voltage cable (power supply)
- B. Hole for low pressure cable (control and signal cables)
- C. Hole for discharge pipe

SIZE 4.1 ÷ 5.1



- 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
Cooling	COP	Outdoor air 7 °C	Nominal	-	4,05	3,80	3,85	3,65
	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

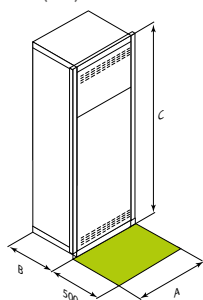
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281). Energy classes with Control4 NRG system control

(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

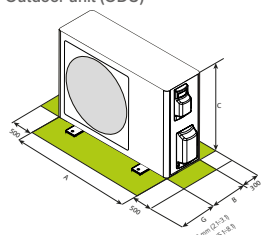
dimensions and connections

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
			type / GWP	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02	R-290 / 0.02
Refrigerant charge			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
		Gas	inch	3/4"	3/4"	3/4"	3/4"
	Boiler Hybrid version	Intake air	mm	80	80	80	80
		Exhaust gas	mm	80	80	80	80

HQCN-NEE 1 IC
Indoor unit (IDU)

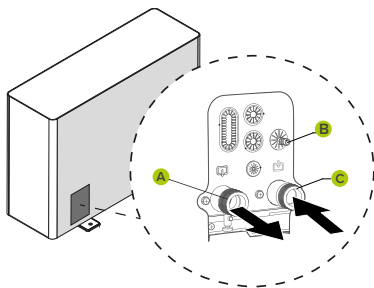


WiSAN-PME 1 S
Outdoor unit (ODU)



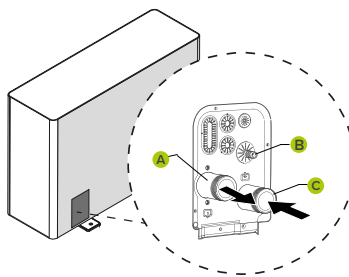
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

SIZES 2.1 to 3.1

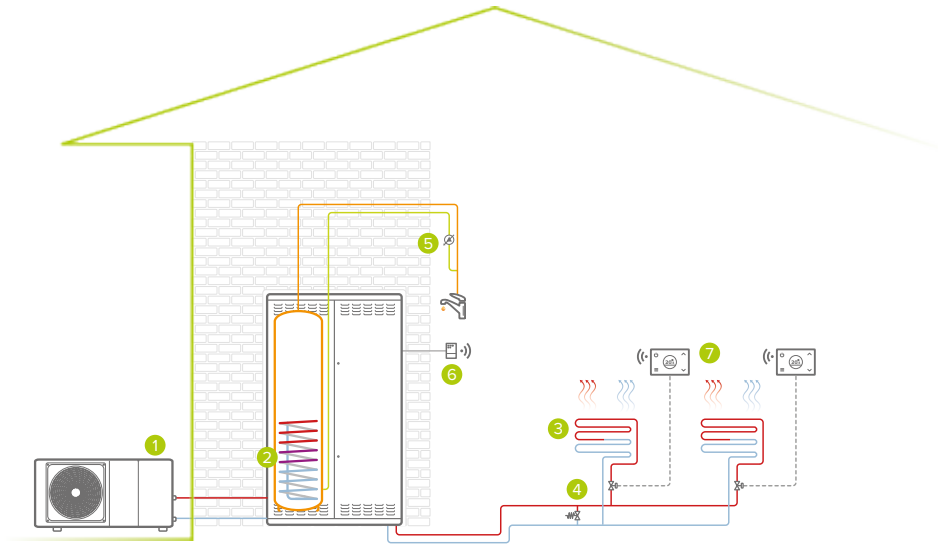


- A. 1" system supply
- B. Pressure relief valve Ø 16 mm
- C. 1" system return

SIZE 4.1 ÷ 5.1

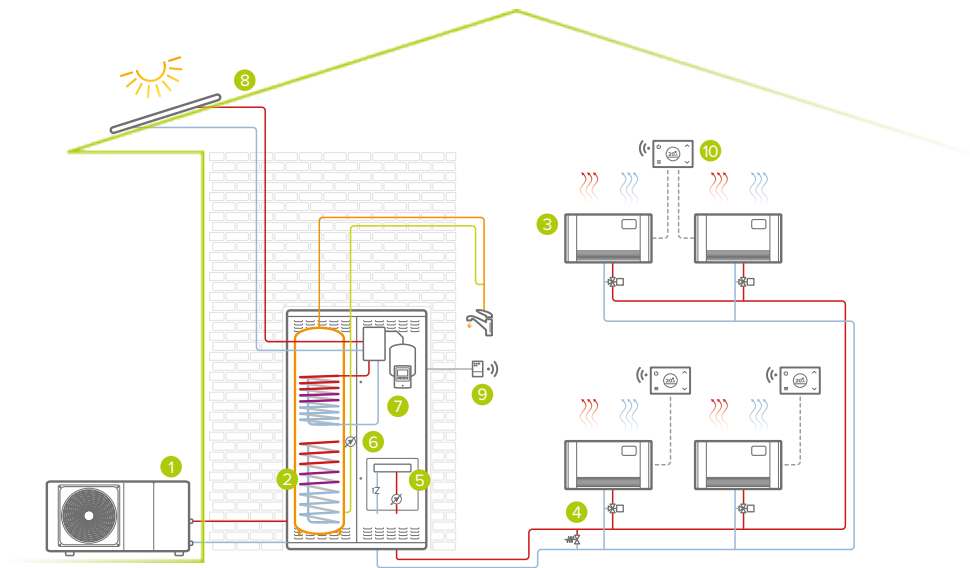


- A. System supply 1 1/4"
- B. Pressure relief valve Ø 16 mm
- C. System return 1 1/4"



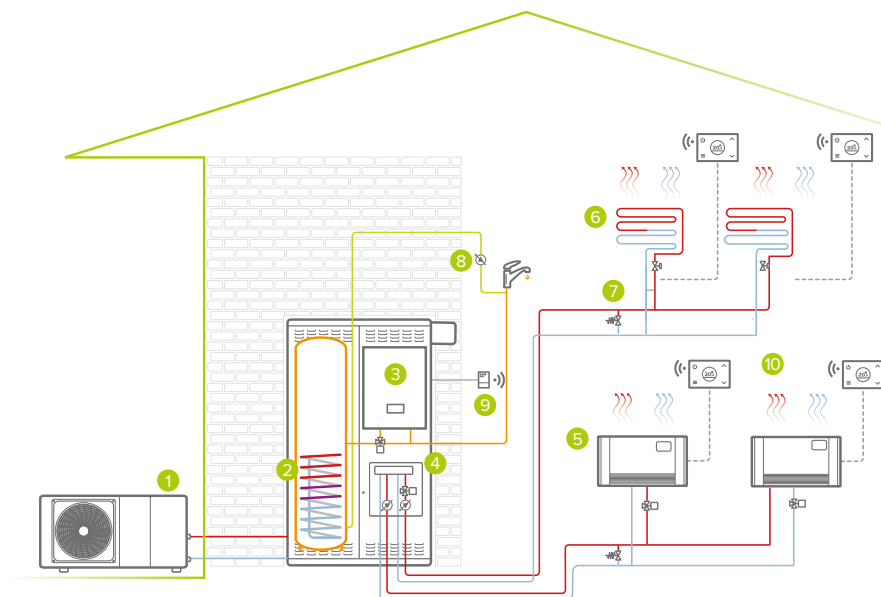
Single-zone system:
Heating / DHW

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



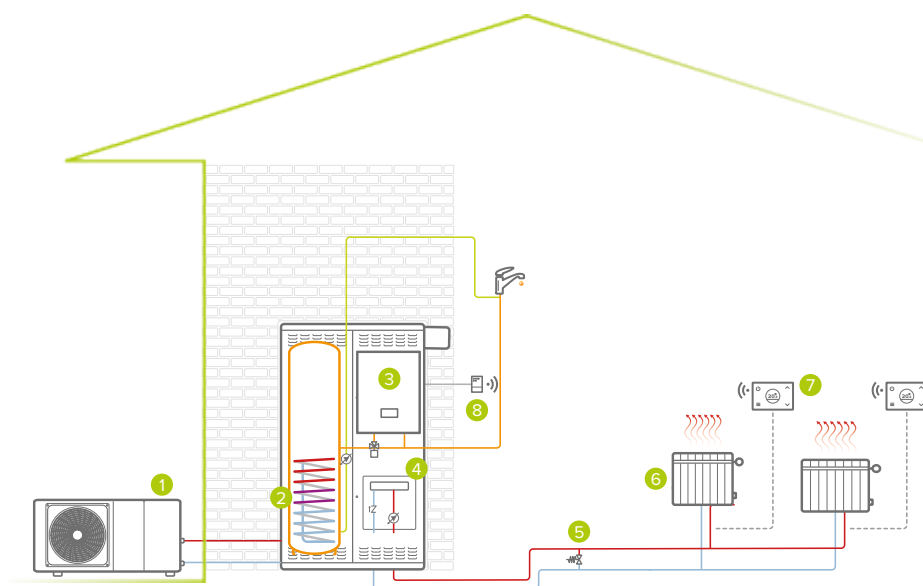
Single-zone + solar system:
Heating / DHW

- 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 solar collector
- 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

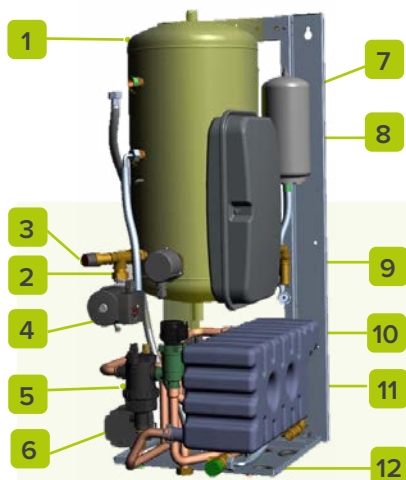


- ✓ 50 l DHW storage tank
- ✓ Complete unit
- ✓ Integrated hydraulic separator
- ✓ Can be combined with EDGE outdoor units
- ✓ Reduced space requirements
- ✓ Easy installation

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

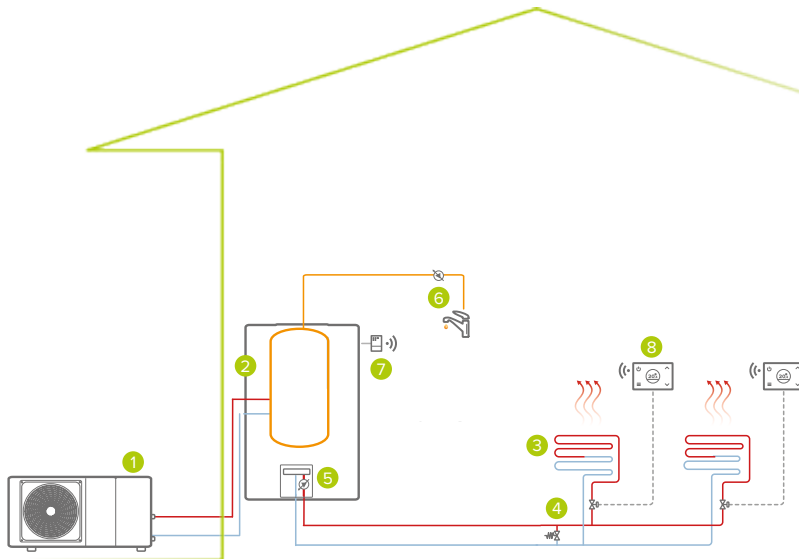
configurations

CONTROL:

HMIR32 Can be combined with EDGE EVO 2.0

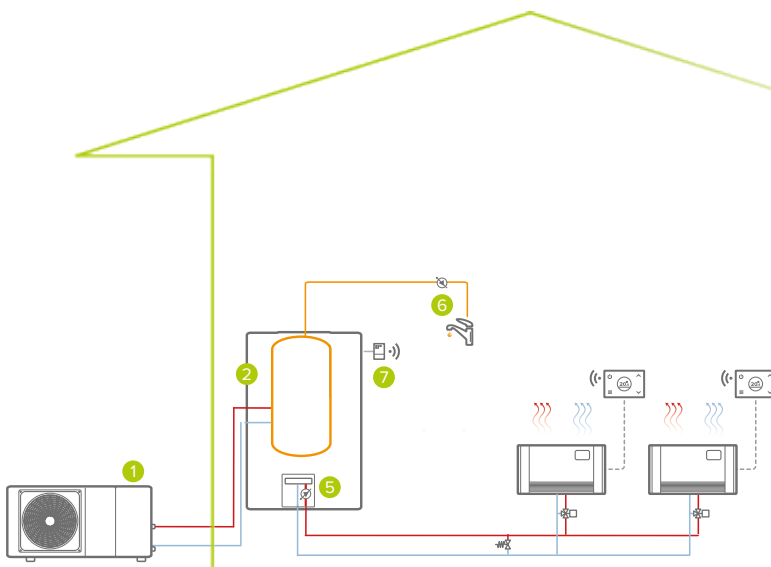
HMIR290 Can be combined with EDGE F

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

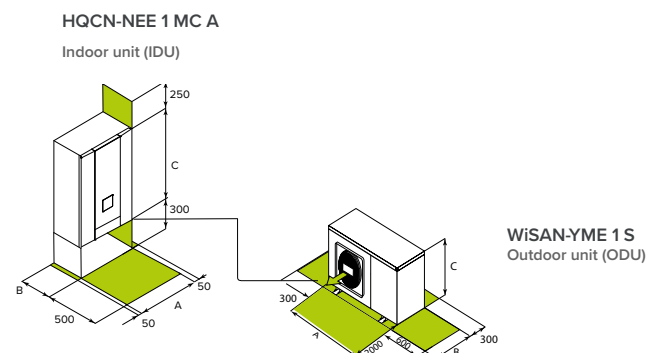
- 1 outdoor unit
- 2 indoor unit
- 3 heating area
- 4 bypass*
- 5 hydraulic separator single-area kit plus pump
- 6 DHW recirculation pump
- 7 SwitchConnect Wi-Fi receiver
- 8 Wi-Fi chronothermostat HID-TConnect2

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	
	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++	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+++	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	
System expansion tank capacity				l	8	8	8	8	8	8	
DHW expansion tank capacity				l	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
Operating range	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
	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
	(Outdoor air)	Cooling	-	Minimum / Maximum	°C	-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
	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
					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"
		Water (System)	inch		1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4

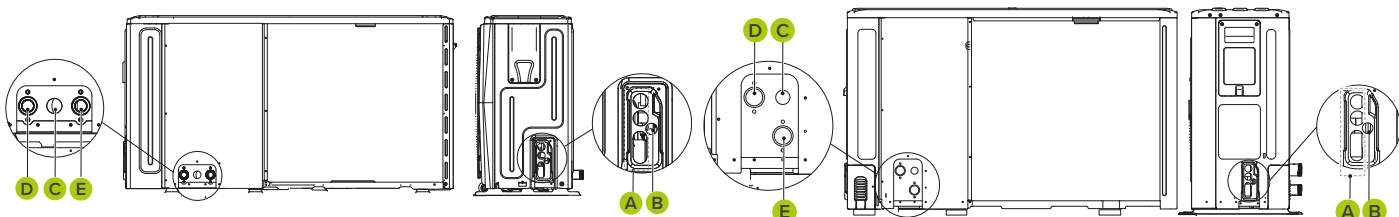


Size - Set					6.1	7.1	8.1
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	12,1 / 14,6	14,5 / 15,5	15,9 / 16,8
	COP	Outdoor air 7°C	Nominal	-	4,95	4,60	4,50
	Capacity	Water 35/30°C	Nominal / Maximum	kW	10,0 / 11,0	12,0 / 12,7	13,1 / 13,9
	COP	Outdoor air -7°C	Nominal	-	3,00	2,85	2,70
	Capacity	Water 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		Energy class	-	A++	A++	A++	
	Heating	Annual energy consumption	-	6.916	6.917	7.213	
	Water 55°C	SCOP	-	3,45	3,47	3,41	
		ηs (seasonal output)	%	135	135	133	
		Energy class	-	A+++	A+++	A+++	
	Heating	Annual energy consumption	-	5.156	5.157	6.011	
	Water 35°C	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	Heating / DHW	-	Minimum / Maximum	°C	-25 / 35	-25 / 35	-25 / 35
	DHW	-	Minimum / Maximum	°C	-25 / 43	-25 / 43	-25 / 43
(Outdoor air)	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

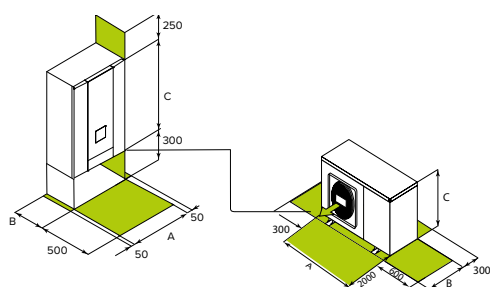
Size - Set				2.1	3.1	4.1	5.1	6.1	7.1	8.1	
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,50 / 6,86	6,20 / 7,70	8,40 / 10,4	10,0 / 11,0	12,0 / 14,7	14,0 / 16,0	15,0 / 17,6
	COP	Outdoor air 7°C	Nominal	-	5,15	4,90	5,00	4,70	4,80	4,50	4,40
	Capacity	Water 35/30°C	Nominal / Maximum	kW	4,50 / 5,56	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	Heating Water 55°C	Energy class	-	A++	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+++	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				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	
System expansion tank capacity				l	8	8	8	8	8	8	
DHW expansion tank capacity				l	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
Operating range (Outdoor air)	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
	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)



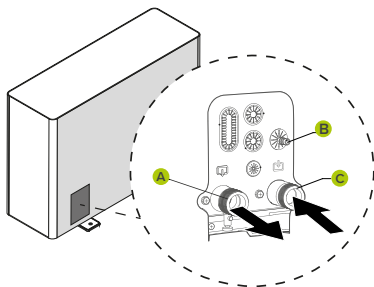
WiSAN-PME 1 S
Outdoor unit (ODU)

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
Operating range (Outdoor air)	Cooling	-	Minimum / Maximum	°C	5 / 25	5 / 25	5 / 25
	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

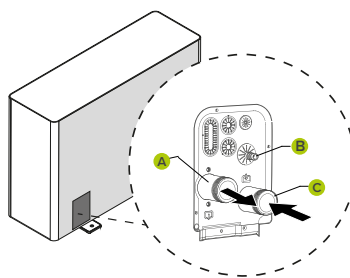
Size				6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	-	-	-
	Outdoor unit	AxCxB	mm	1.385x865x423	1.385x865x423	1.385x865x423
Operating weight	Indoor unit		kg	130	130	130
	Outdoor unit		kg	135	135	135
Refrigerant charge			type / GWP	R-290 / 3	R-290 / 3	R-290 / 3
			kg	1,25	1,25	1,25
			CO ₂ tons	0,004	0,004	0,004
Equivalent pipe length with pre-charging only				m		
External dia- meters	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



Input 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)		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)		KISX	Kit di installazione semplificata con raccordi per SPHERA EVO 2.0 Box Hybrid
	TCOAX	1 m coaxial pipe with terminal (d. 60/100 mm)			

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



Input
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					(to exhaustion)					
					FE 24.4	FE 33.4	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
DHW	30% di Pn		-	%	109,7	109,7	108,6	107,3	107,2	108,9
	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	Heating	Energy class	-	A	A	A	A	A	A	
		ηs (seasonal output)	%	94	94	93	93	92	93	
	Medium climate	DHW	Energy class	-	A	A	A	-	-	-
Withdrawal profile			-	XL	XXL	XL	-	-	-	
		nwh	%	85	85	90	-	-	-	

Technical specifications

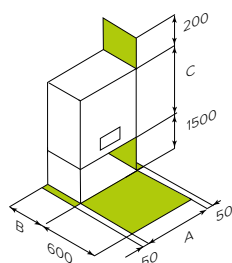
Type	-	-	-	-	-	-	-	-	-	-
Installation	-	-	-	-	-	-	-	-	-	-
Power supply	Voltage/Frequency/Phases	V/Hz/n°	-	-	-	-	-	-	-	-
Expansion tank capacity	-	l	8	10	230/50/1	-	-	-	-	-
Power input	Water content	W	82	99	122	267	314	580	-	-
Sound power	Nominal	dB(A)	49	52	56	63	-	-	-	-

Operating range

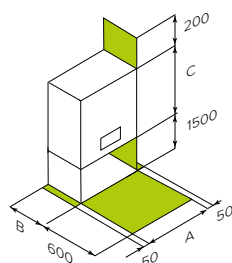
Water supply temperature	Heating	Minimum / Maximum	°C	20 / 95	15 / 85	20 / 85
	DHW	Minimum / Maximum	°C	40 / 65	-	-
Operating range (Outdoor air)	Heating / DHW	Minimum / Maximum	°C	-5* / 50	-	-

* with antifreeze kit down to -15°C

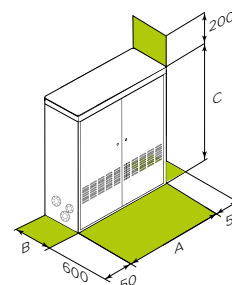
dimensions and connections



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

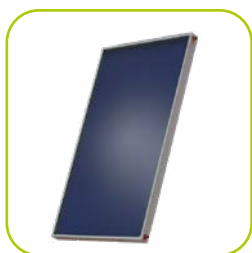
“Factory made” hybrid combinations

		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	-	-	✓	✓	✓
	2.1+2.1	✓	✓	✓	✓	✓
	3.1+3.1	-	✓	✓	✓	✓
	4.1+4.1	-	✓*	✓	✓	✓
2 unit (cascade)	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	-	-	-	-	✓
	2.1+2.1+2.1	-	✓	✓	✓	✓
	3.1+3.1+3.1	-	-	✓	✓	✓
3 unit (cascade)	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	-	-	-	-	✓
	2.1+2.1+2.1+2.1	-	-	✓	✓	✓
4 unit (cascade)	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	-	-	-	-	✓
	2.1+2.1+2.1+2.1+2.1	-	-	✓	✓	✓
	3.1+3.1+3.1+3.1+3.1	-	-	✓	✓	✓
5 unit (cascade)	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	-	-	-	-	✓
	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 unit (cascade)	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	-	-	-	-	✓
	2.1+2.1+2.1+2.1+2.1+2.1+2.1	-	-	-	-	✓

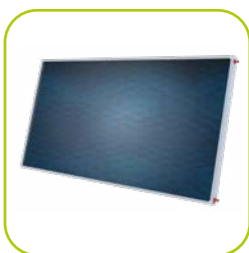
Note: * only with Sphera EVO 2.0



ACCESSORY PRODUCTS TO HEAT PUMPS



ELFOSUN³



Bollitori ACS

ELFOSUN³

F-L / F-XL / FH-XL

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

RELIABILITY

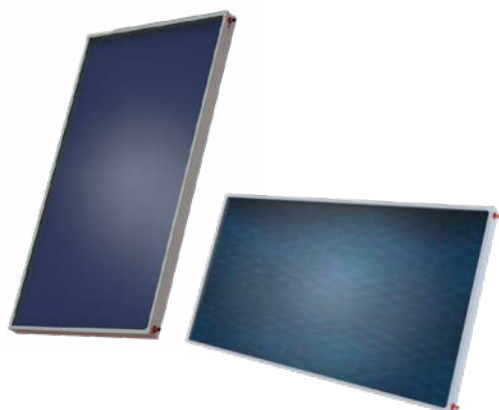


031

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

ELFOSUN³ 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, ELFOSUN³ 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	m ²	2,00		2,37
	opening	m ²	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/m ² K		3,60	
	a2 - Temperature / heat loss coefficient ratio	W/m ² K ²		0,014	
Stagnant temperature		°C		190	
Operating pressure		bar		10	
Panel water flow		l	1,42	1,71	2,16
Panel water flow		l/min/m ²	1,6÷2		2÷2,7
Absorptance		%		≥ 95	

The Product complies with the European ErP Directive (UE Regulations 811/2013 - 813/2013)

(†) Control unit for indoor installation

	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

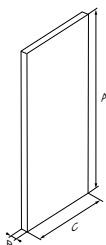
dimensions and connections

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

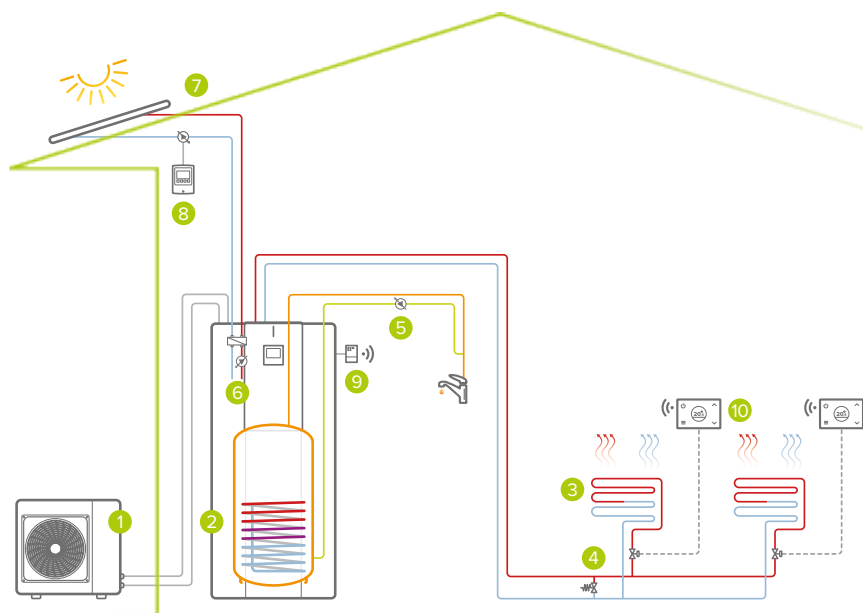
FH-XL: up to 3 panels can be connected in parallel



Note: refer to the specific documentation to connect several panels

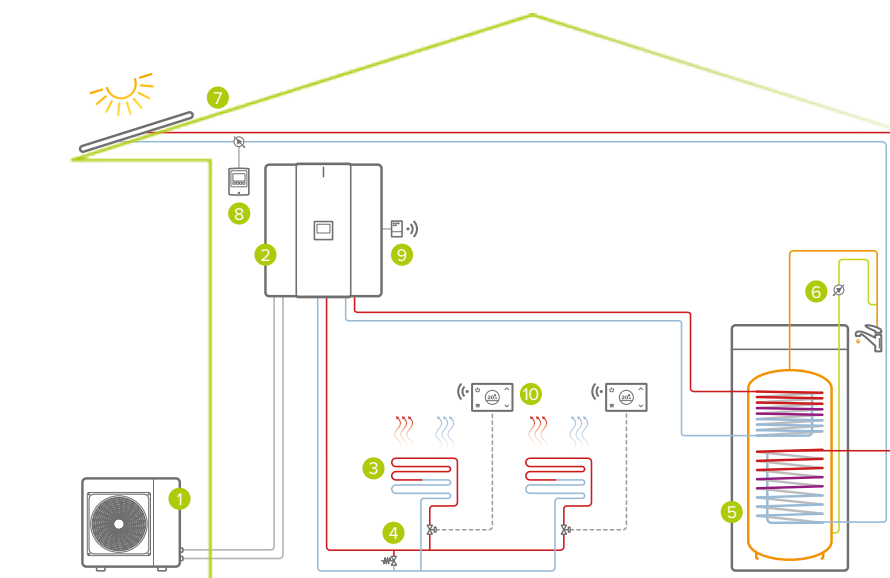


			F-L	F-XL	FH-XL
Dimensions	AxCxB	mm	1.980x1.010x86	1.930x1.230x86	1.230x1.930x86
Weight		kg	34	42	
External diameters		mm		22 (x4)	



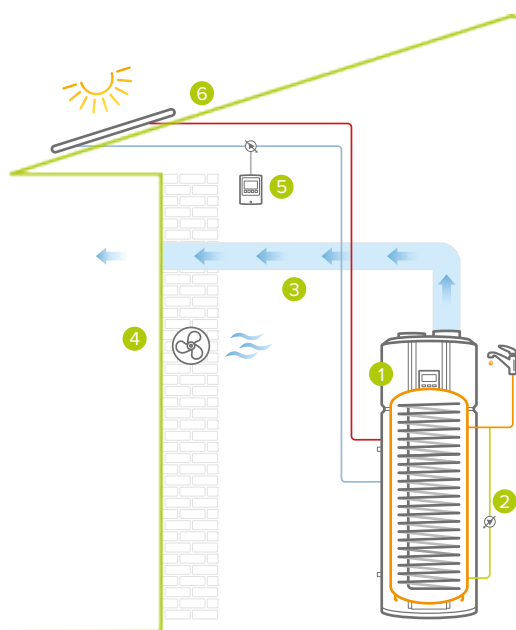
Full electric single-area system with thermal solar:
Heating / Cooling / DHW

- 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

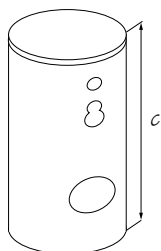
				ACS200X	ACS300X	ACS500X	DHW1000	ACS10SX	
Performance	Net water volume		l	196	273	475	930	900	
	Energy efficiency class		-	B					C
	Maximum water temperature		°C	95					
	Insulation: Material / Medium thickness1		mm	PU / 70			PE / 100		
	Thermal dispersions		W/K	1,13	1,40	1,78	3,16		
	Electric heater		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



ELFORRoom²



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

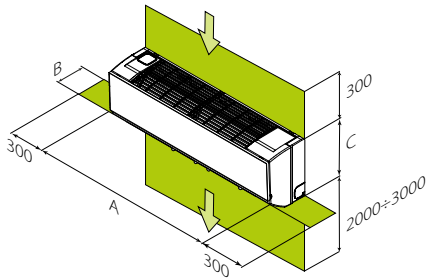
MOOD can be connected to CONTROL4 NRG, the touch-screen centraliser that coordinates the entire system intelligently and efficiently to always ensure the utmost comfort at the lowest possible cost.

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 diameters	Water	inch			3/4"		
	Condensate drain	mm			20		

accessories

	KJR90X	KJR90 electronic room control for wall installation		CCM09 <i>to exhaustion</i>	Wired centraliser with weekly scheduler
	PROL5X PREVIEW	5-metre extension lead for connecting the KJR-90D electronic wall-mounted room controller		CCM-180A/WS	Wired centraliser with 6.2" touchscreen display and weekly scheduler
	KJR150X	Indoor units' group controller		CCM-270A/WS	Wired centraliser with 10.1" touchscreen display and weekly scheduler
	CCM30BX	Touch-key indoor units' centralized controller			

technical data

Size				1	2	3	4	5
Cooling	Total yield	Water 7/12°C	kW	2,70	2,91	3,81	3,96	4,87
	Sensible yield	Ambient air 27°C/19°Cwb	kW	2,15	2,33	3,18	2,66	4,11
	Water flow-rate	Maximum ventilation speed	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	kW	2,94	3,23	4,30	4,84	5,26
	Water flow-rate	Ambient air 20°C	l/h	365	556	741	682	906
	Water pressur drop	Maximum ventilation speed	kPa	37,5	40,6	61,9	43,7	51,7
	Yeld	Water 50°C/cool water flow-rate	kW	3,4	3,68	4,59	5,43	5,98
	Water flow-rate	Ambient air 20°C	l/h	465	501	656	770	839
	Water pressur drop	Maximum ventilation speed	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



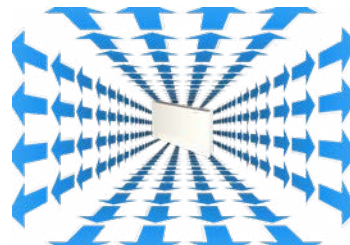
- ✓ Suitable for any installation: vertical or horizontal, cased or uncased
- ✓ Quiet and efficient, thanks to the fan's brushless DC motor
- ✓ Management via ON/OFF, 3-speed or 0-10V contacts and ON/OFF output for calling an external device
- ✓ Optional germicidal UV lamp for air purification
- ✓ Management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

Ready for anything

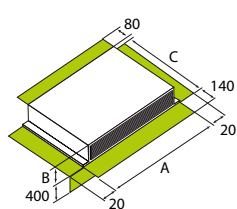
ELFOROOM² is highly flexible, thanks to the availability of many accessories that enhance its potential.

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.

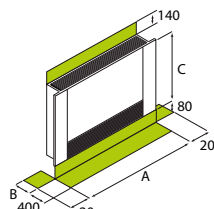
The rest of the optional equipment is designed to facilitate installation: feet for fixing to the ground, recessed fan coil / grid kit to make uncased installations invisible, telescopic or 90° plenum for ducting.



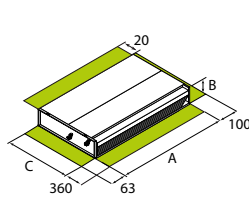
dimensions and connections



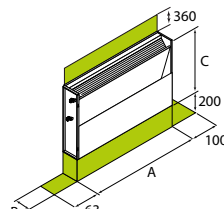
ELFOROOM² OUTVOT
Cased unit



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
	uncased	AxCxB	mm	527x586x130	727x586x130	927x586x130	1.127x586x130
Weight	with casing		kg	17	20	23	26
	uncased		kg	9	12	15	18
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

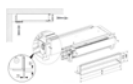
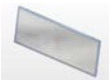
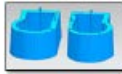
SC010 Ready for connection to 0-10V thermostat

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	kW	0,91	2,12	2,81	3,30	3,71
	Sensible yield	Ambient air 27°C/19°Cwb	kW	0,71	1,54	2,11	2,56	2,90
	Water flow-rate		l/h	157	365	483	568	638
	Water pressur drop	Maximum ventilation speed	kPa	12,1	8,2	17,1	18,0	21,2
Heating	Yield	Water 45/40°C	kW	1,02	2,21	3,02	3,80	4,32
	Water flow-rate	Ambient air 20°C	l/h	175	380	518	654	743
	Water pressur drop	Maximum ventilation speed	kPa	9,1	9,2	19,1	21,2	23,3
	Yield	Water 50°C/cool water flow-rate	kW	1,17	2,55	3,52	4,43	5,09
	Water flow-rate	Ambient air 20°C	l/h	157	365	483	568	638
	Water pressur drop	Maximum ventilation speed	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	m³/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

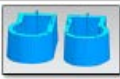
VALVES MOUNTED ON BOARD:

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

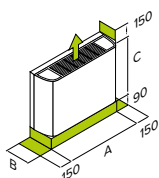
BUILT-IN THERMOSTAT:

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

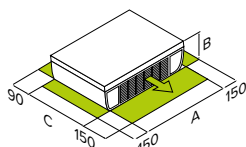
accessories

	BRVHX	Auxiliary condensate collection tray for vertical/horizontal installation		BOXX	Box for wall installation of KJRP-86R user interface
	KPDY	Feet kit		DCPRX	Power interface to control 4 fan coils and valves for 2-4 systems
	3V2DX	3-way ON/OFF valves kit for 2-pipe system (3V2DX for right side fittings / 3V2SX for left side fittings)			
	3V2SX			HIDT19X	Electro-mechanical thermostat for uncased installation + Modbus
	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			

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	1.360x591x200	1.360x591x200
	uncased	AxCxB	mm	628x455x200	858x455x200	1.078x455x200	1.078x455x200	1.198x455x200	1.198x455x200	1.198x455x200
Weight	with casing		kg	16,3	16,7	20,0	20,8	25,4	26,3	28,5
	uncased		kg	11,6	12,0	13,9	14,8	18,2	18,8	21,7
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	kW	1,65	2,25	2,65	3,05	4,20
	Sensible yield	Ambient air 27°C/19°Cwb	kW	1,25	1,65	2,05	2,23	3,05
	Water flow-rate		l/h	283	386	454	523	720
	Water pressur drop	Maximum ventilation speed	kPa	15,8	33,2	18	26,7	41,2
Heating	Yield	Water 45/40°C	kW	1,85	2,35	3,05	3,15	4,30
	Water flow-rate	Ambient air 20°C	l/h	317	403	523	540	740
	Water pressur drop	Maximum ventilation speed	kPa	15,1	33,2	17,6	23,3	37,2
	Yield	Water 50°C/cool water flow-rate	kW	1,93	2,02	2,89	3,28	4,55
	Water flow-rate	Ambient air 20°C	l/h	283	386	454	523	720
	Water pressur drop	Maximum ventilation speed	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	m ³ /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	kW	5,35	6,75	8,25
	Sensible yield	Ambient air 27°C/19°Cwb	kW	3,96	5,09	6,08
	Water flow-rate		l/h	917	1.157	1.414
	Water pressur drop	Maximum ventilation speed	kPa	61,5	40,3	64,7
Heating	Yield	Water 45/40°C	kW	5,70	7,15	8,50
	Water flow-rate	Ambient air 20°C	l/h	977	1.226	1.457
	Water pressur drop	Maximum ventilation speed	kPa	60,9	42,2	62,0
	Yield	Water 50°C/cool water flow-rate	kW	5,99	7,91	9,35
	Water flow-rate	Ambient air 20°C	l/h	917	1.157	1.414
	Water pressur drop	Maximum ventilation speed	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	m ³ /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



0-10V
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)**

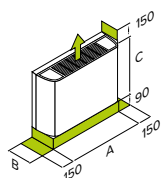
HMIDM KJRP-75A control

accessories

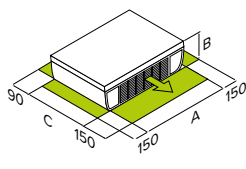
	BRVHX	Auxiliary condensate collection tray for vertical/horizontal installation
	KPDY	Feet kit
	3V2DX	3-way ON/OFF valves kit for 2-pipe system (3V2DX for right side fittings / 3V2SX for left side fittings)
	3V2SX	
	3V4DX	3-way ON/OFF valves kit for 4-pipe system (3V4DX for right side fittings / 3V4SX for left side fittings)
	3V4SX	
	PREVIEW COADY	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 <i>to exhaustion</i>	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

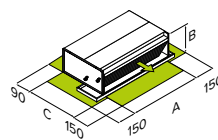
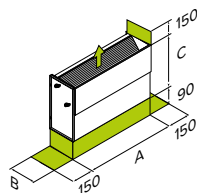
dimensions and connections



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 diameters	Water		inch					3/4"			
	Condensate drain		mm					18,5			

technical data

Size			R3 Version	1*	2	3*	4	6
Cooling	Total yield		kW	1,50	1,95	2,35	2,85	3,90
	Sensible yield	Water 7/12°C	kW	1,14	1,42	1,79	2,06	2,90
	Water flow-rate	Ambient air 27°C/19°Cwb	l/h	260	330	400	490	670
	Water pressur drop	Maximum ventilation speed	kPa	13,9	27,2	13,3	26	37,4
Heating	Yield	Water 45/40°C	kW	1,57	2,05	2,60	2,95	4,00
	Water flow-rate	Ambient air 20°C	l/h	270	350	450	510	700
	Water pressur drop	Maximum ventilation speed	kPa	15,1	25,3	14,3	24,4	36,5
	Yield	Water 50°C/cool water flow-rate	kW	1,81	1,93	2,92	3,14	4,37
	Water flow-rate	Ambient air 20°C	l/h	260	330	400	490	670
	Water pressur drop	Maximum ventilation speed	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	m ³ /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		kW	4,85	6,35	8,25
	Sensible yield	Water 7/12°C	kW	3,63	4,98	6,12
	Water flow-rate	Ambient air 27°C/19°Cwb	l/h	830	1.090	1.430
	Water pressur drop	Maximum ventilation speed	kPa	54,3	32,8	71,4
Heating	Yield	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
	Yield	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	m ³ /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)

MOD 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

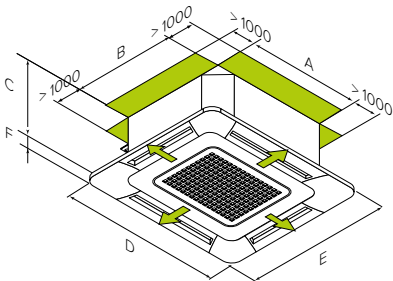
Efficient and quiet



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

technical data

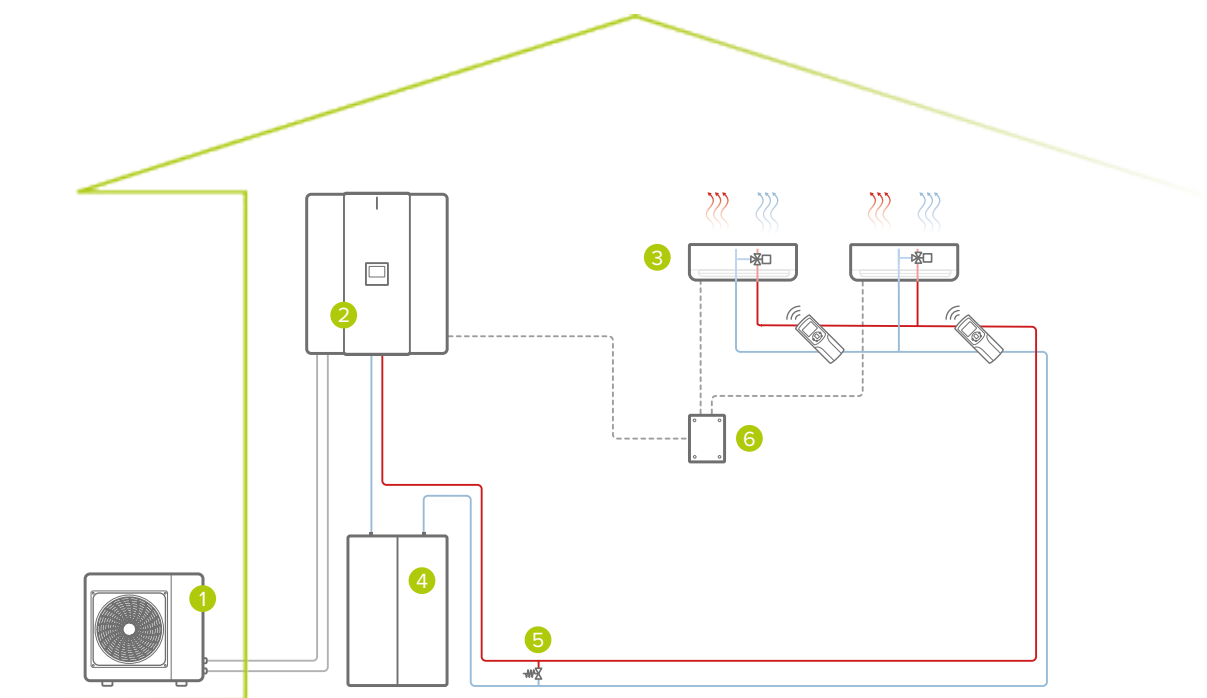
Size				007.0	011.0	015.0	021.0	031.0	041.0
Cooling	Total yield	Water 7/12°C	kW	2,98	3,96	4,20	5,93	7,87	11,2
	Sensible yield	Ambient air 27°C/19°Cwb	kW	2,49	3,20	3,45	5,00	6,68	9,04
	Water flow-rate	Maximum ventilation speed	l/h	513	681	722	1.020	1.354	1.925
	Water pressur drop		kPa	10,0	11,5	12,3	23,8	22,3	36,6
Heating	Yield	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
	Yield	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			W	5/15	9/37	21/43	20/41	45/85	39/126
Operating pressure			bar	16					
Airflow ¹			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			dB(A)	39/51	42/54	44/55	45/55	53/60	51/64
Sound pressure @1m			dB(A)	27/39	30/42	32/43	33/43	41/48	39/49
Power supply			V/Hz/n°	230/50/1					

Sound levels tested in an anechoic chamber according to ISO 3744

(1) With clean filters

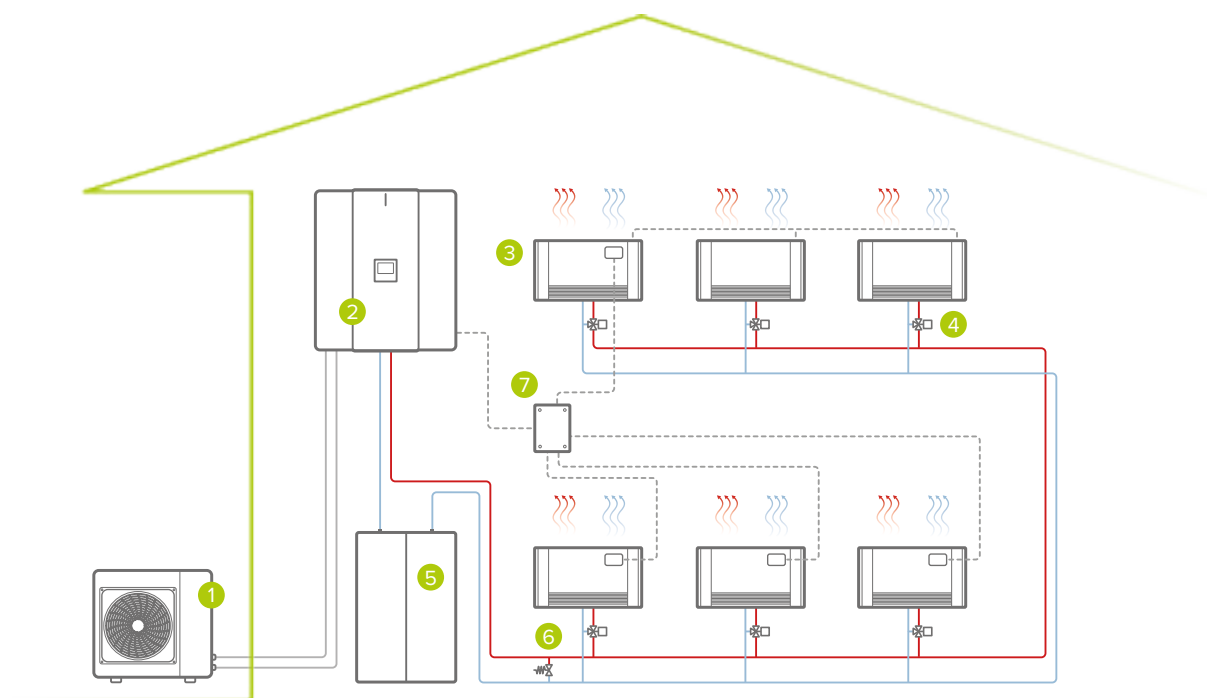
SYSTEM DIAGRAMS

FAN COILS



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*

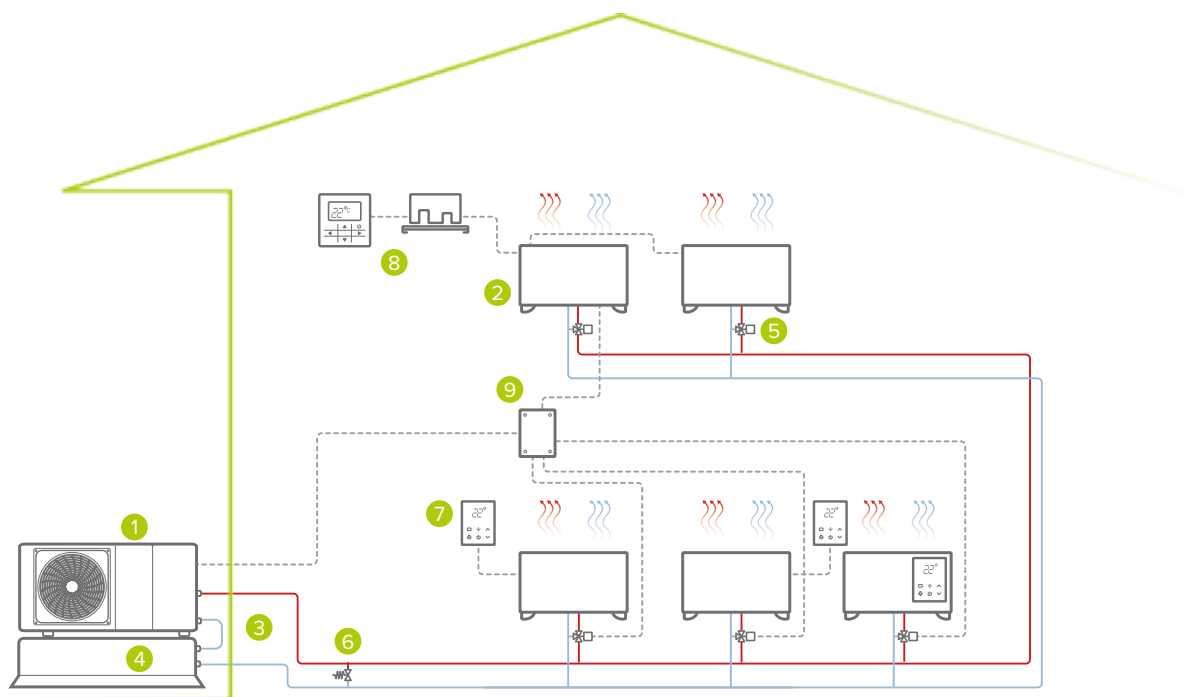


Single-zone system: heating/cooling

- 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



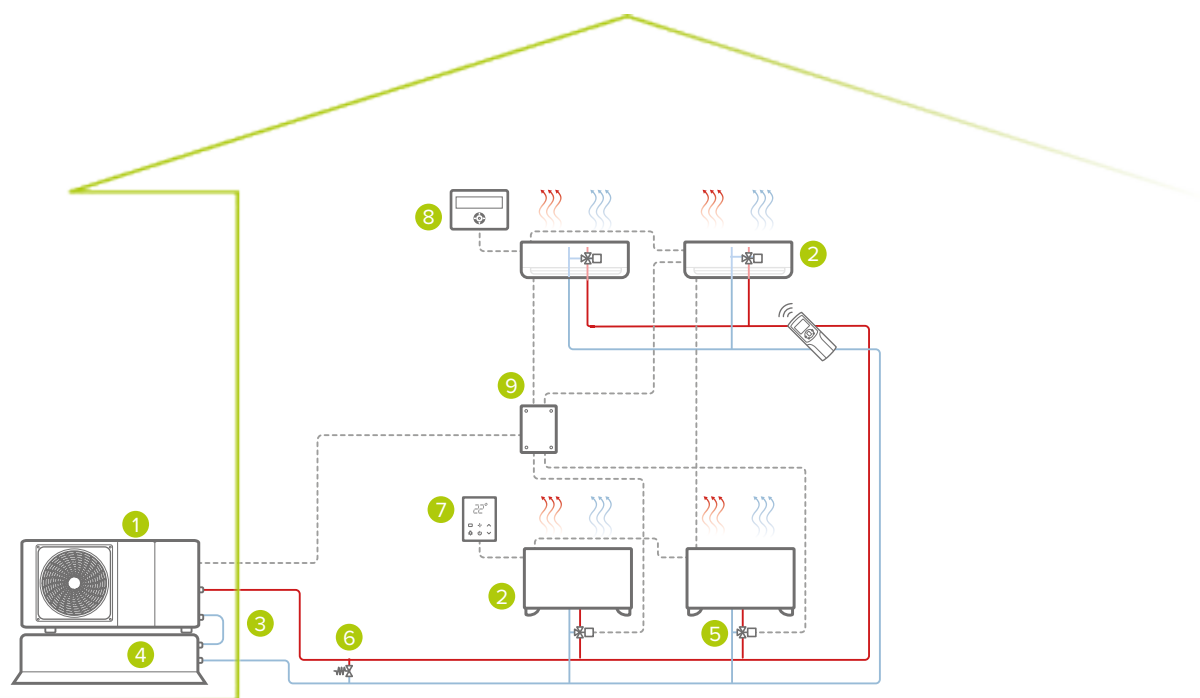
Single-zone system: heating/cooling

- 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



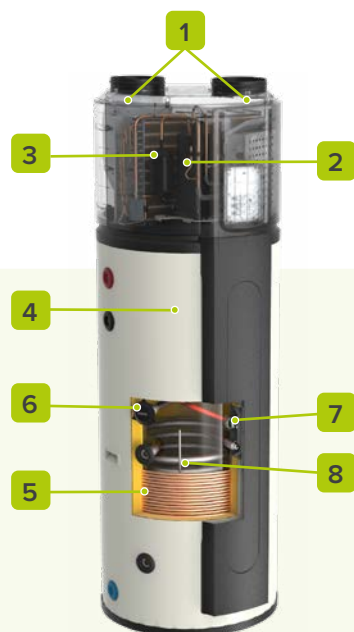
- ✓ Advanced connectivity: management via the App or via the Modbus port with CONTROL4 NRG included as standard
- ✓ Standard supplied with electronic anode, Smart Grid and Photovoltaic contacts and external fan
- ✓ Standard version or with solar integration for combination with ELFOSUN3
- ✓ Operation 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 ELFOSUN³ 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

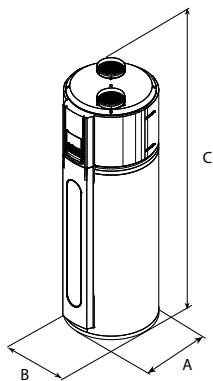


- | | |
|---|---------------------------------------|
| 1. AC fan | 6. Electronic anode |
| 2. Twin-rotary compressor | 7. 1.5kW safety/auxiliary heater |
| 3. Air-gas finned exchanger | 8. Solar coil (only on solar version) |
| 4. 180-litre/280-litre DHW tank | |
| 5. Coil exchanger (wound around the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

accessories

	VENX	Additional fan		CA200X	Adapter to connect a Ø200mm air duct to a Ø190mm connection (for a full kit order 2 pieces)
	COPX	Accessory connection cables			

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	kW	1,59		2,16	
	COP		-	3,69		3,97	
	Heating time	Outdoor air 14°C DB/87% UR	h:min	5:41		6:31	
	Heating capacity	Water 10/53°C	kW	1,38		1,84	
	COP		-	3,29		3,46	
	Heating time	Outdoor air 7°C DB/87% UR	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	
		η _s (seasonal output)	%	115		123	

Technical specifications

Fan	Air flow rate	Nominal	m³/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	m²	-	1,10	-	1,30
Maximum operating pressure			bar		10		
Power supply		Voltage/Frequency/Phases	V/Hz/n°		230/50/1		

Operating range

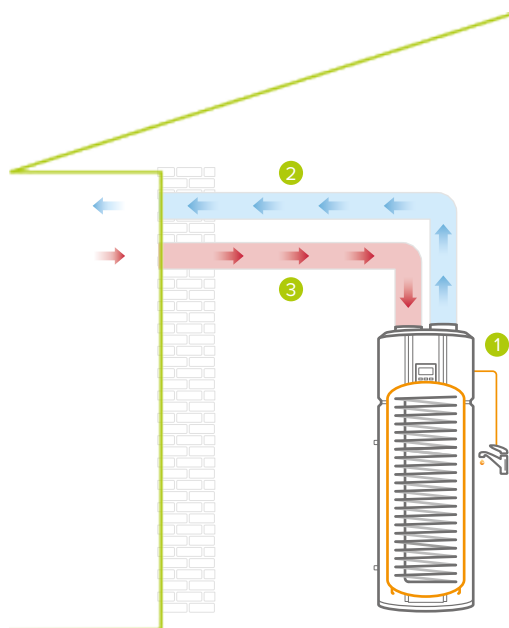
Water temperature		Minimum / Maximum	°C	10 / 70
Operating range (outdoor air)		Minimum / Maximum	°C	-20 / 43

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)

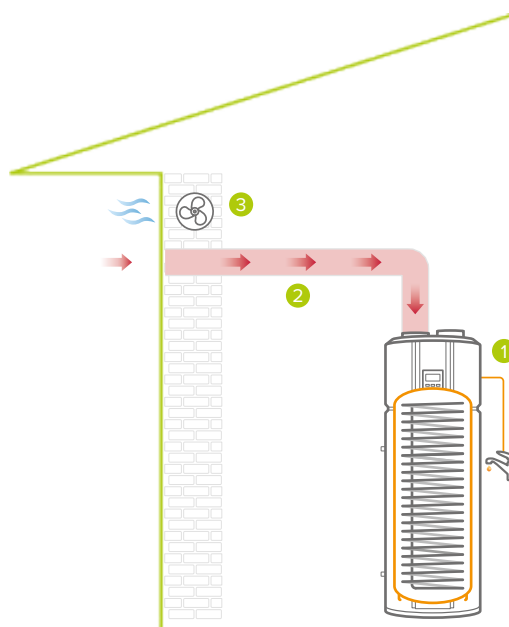
(1) PU+ = Polyurethane foam

Impianto per produzione di ACS



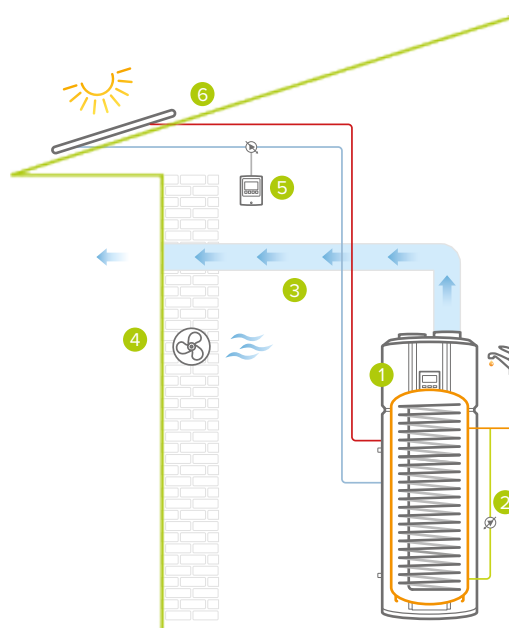
- 1 heat pump for DHW
- 2 exhaust air duct*
- 3 drawn air duct*

Impianto per produzione di ACS



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

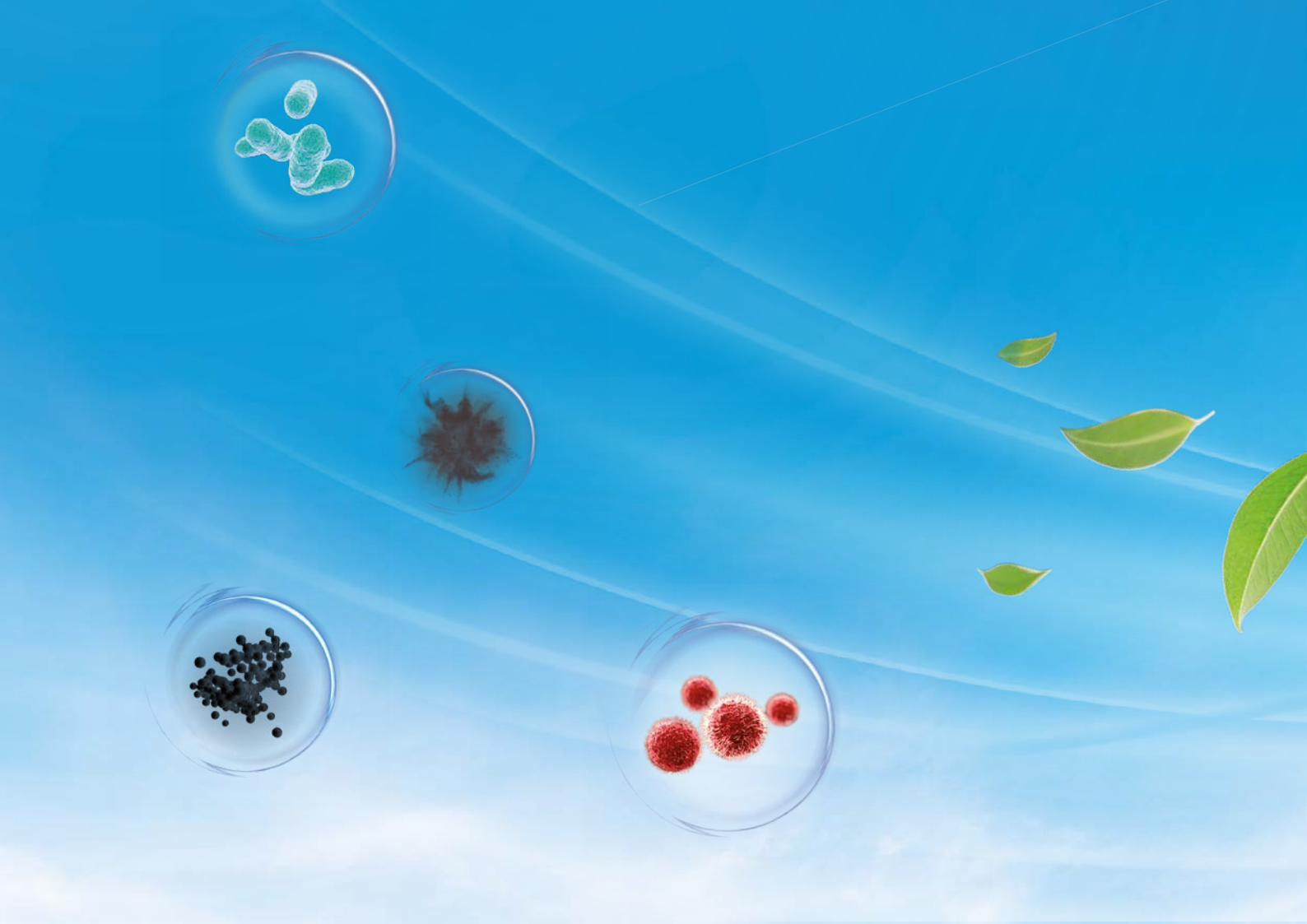
System for DHW production with thermal solar:



- 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 ELFOSun³ 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



Weekly 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

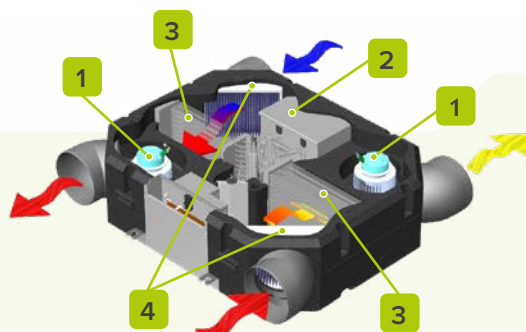
Heats or cools for free

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!

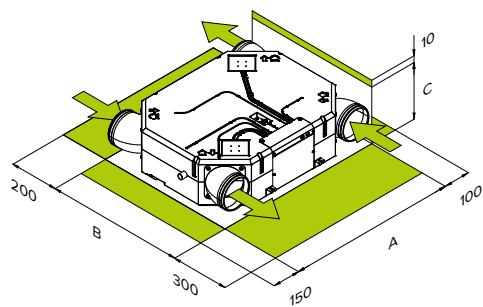


1. DC inverter fan with constant flow
2. Inverter DC rotary compressor
3. Air-gas finned exchanger
4. Air filter

configurations

TYPE OF INSTALLATION:		AIR FILTRATION:	
-	false ceiling (standard)	-	Standard filter (standard)
EI	in-view installation	FIFD	Electronic filters with iFD technology (ISO 16890 ePM1 90%)

dimensions and connections



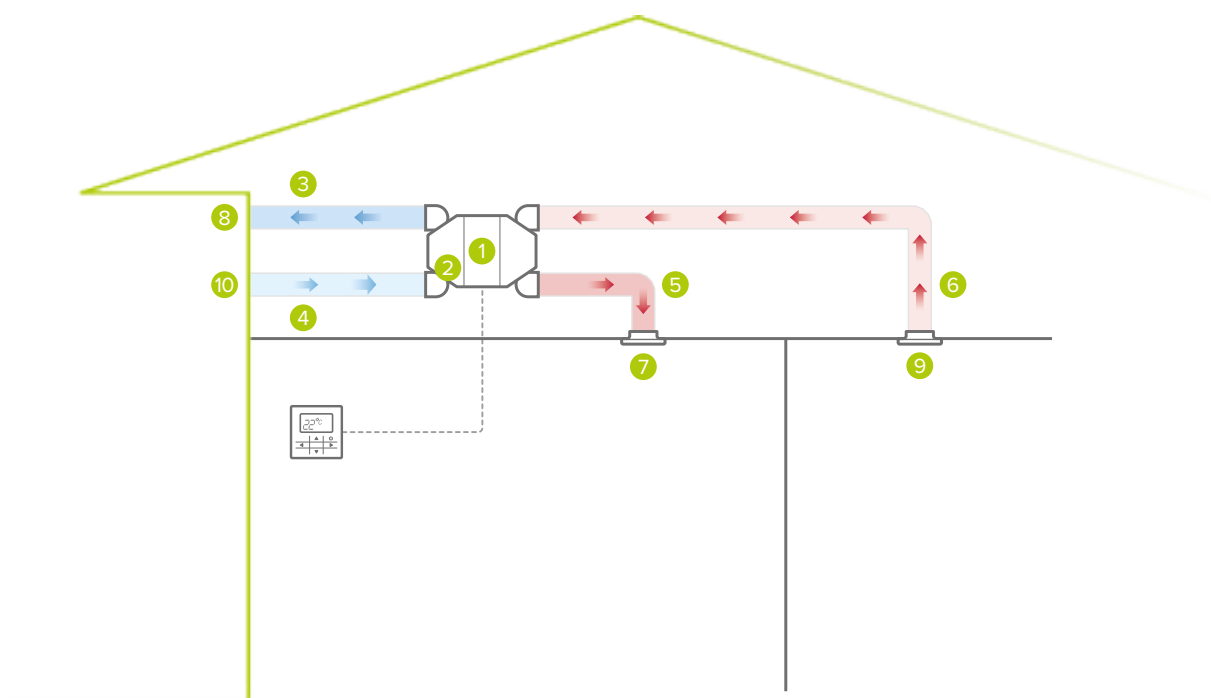
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

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
	Cooling cpacity	Ambient Air 27 °C/50% UR	kW	1,57	1,64	1,73	1,92	2,23
Summer recovery	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	Heating	Minimum / Maximum	°C			15 / 30		
(Indoor air)	Cooling	Minimum / Maximum	°C			16 / 30		
Operating range	Heating	Minimum / Maximum	°C			-20 / 28		
(outdoor air)	Cooling	Minimum / Maximum	°C			16 / 45		

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



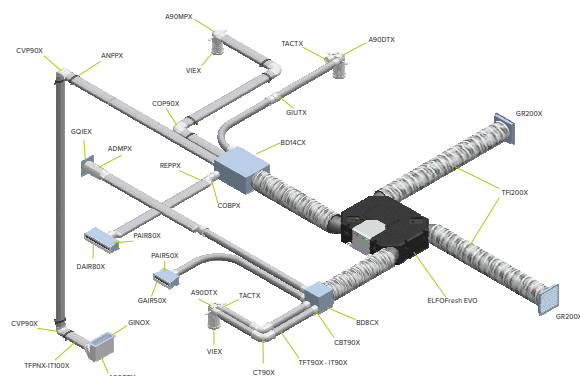
Air renewal system

- 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





- ✓ 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
Round tube distribution (from the distribution box to outlet) (from the distribution box to outlet)		GIVEX	Rectangular supply/intake grille 350x130 mm white
		FREX	Filter for rectangular grille 350x130 mm (5pcs)
		VIEEX	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
		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 m³/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



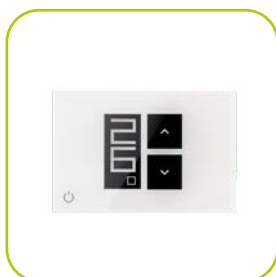
CONTROL4 NRG



SINERGY



Clivet EYE



HID-TConnect2

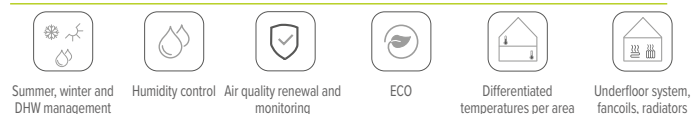


Centralised systems

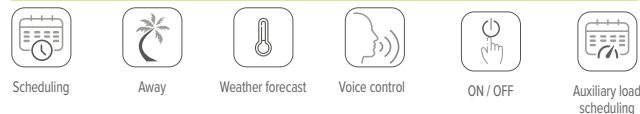
CONTROL4 NRG

Comfort and energy assistant for Clivet Smart Living

COMFORT



CONVENIENCE



ENERGY OPTIMISATION



- ✓ 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

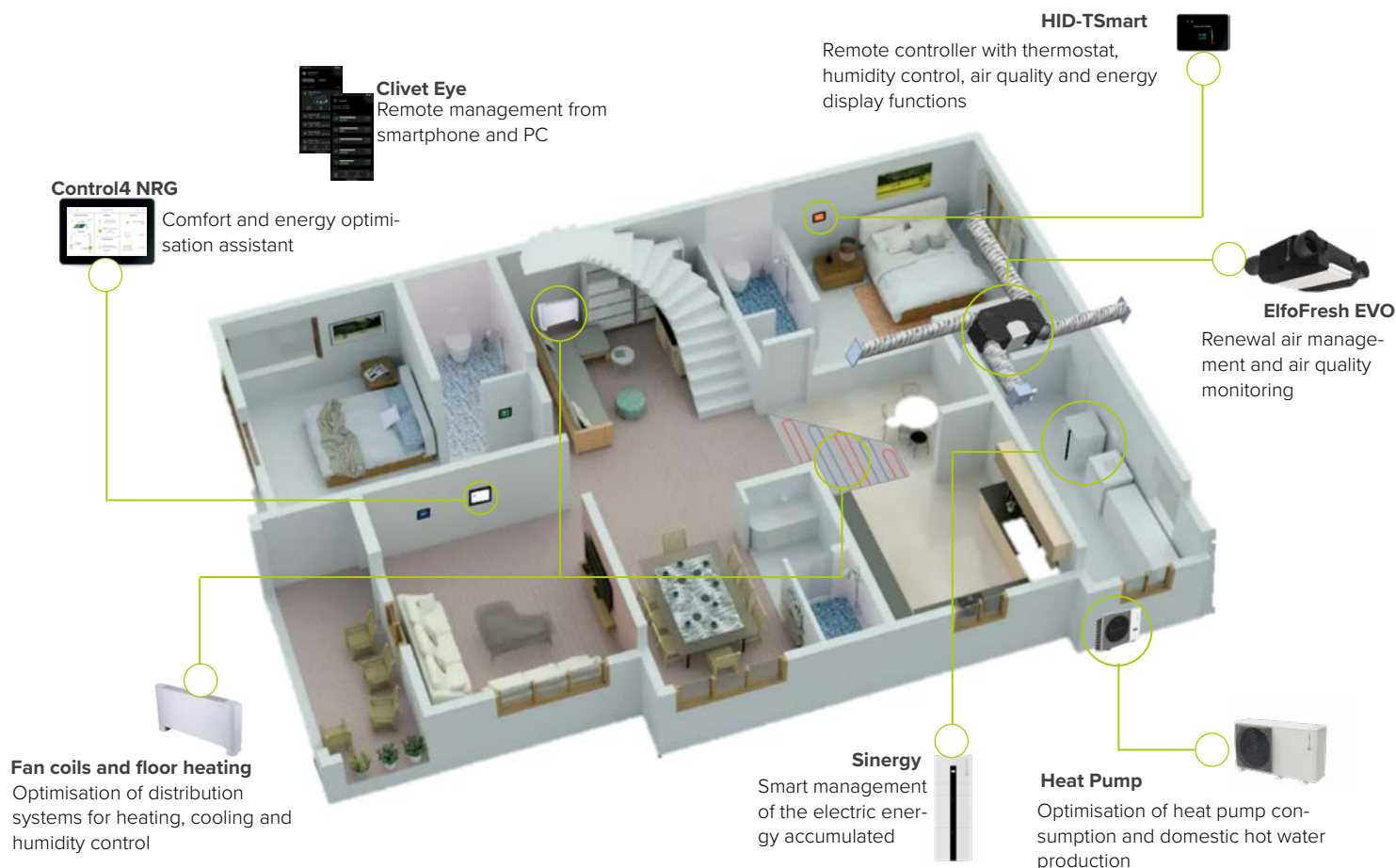
Voice assistants, or more commonly known as Voice Skills, improve accessibility for people with visual or motor disabilities, allowing access to the system (or equipment) without having to physically interact with the devices.

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	110 x 70 x 28 mm
		z-IAQX	Acquisition of temperature, humidity, noise, VOC carbon monoxide, carbon dioxide and methane values	
Management of radiant panels (heat and cool), radiators, fan coils, heated towel rails, Management of zone valve, circulation pump, remote start-up		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 x 50 mm
		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

Electric storage system

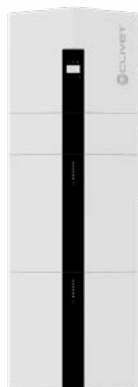
Single-phase version

Sinergy 51.05



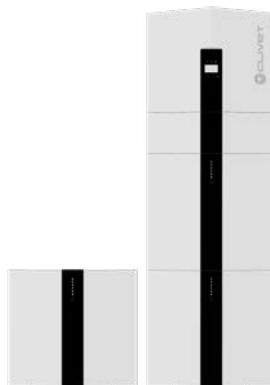
5 kWh =
1 inverter module
15 kWh battery pack

Sinergy 51.10



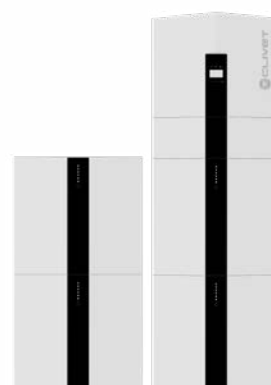
10 kWh =
1 inverter module
2 5 kWh battery packs

Sinergy 51.15



15 kWh =
1 inverter module
3 5 kWh battery packs

Sinergy 51.20



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

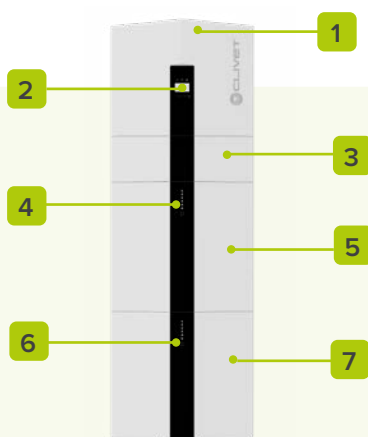
self-consumption optimisation

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.

SOLUTIONS

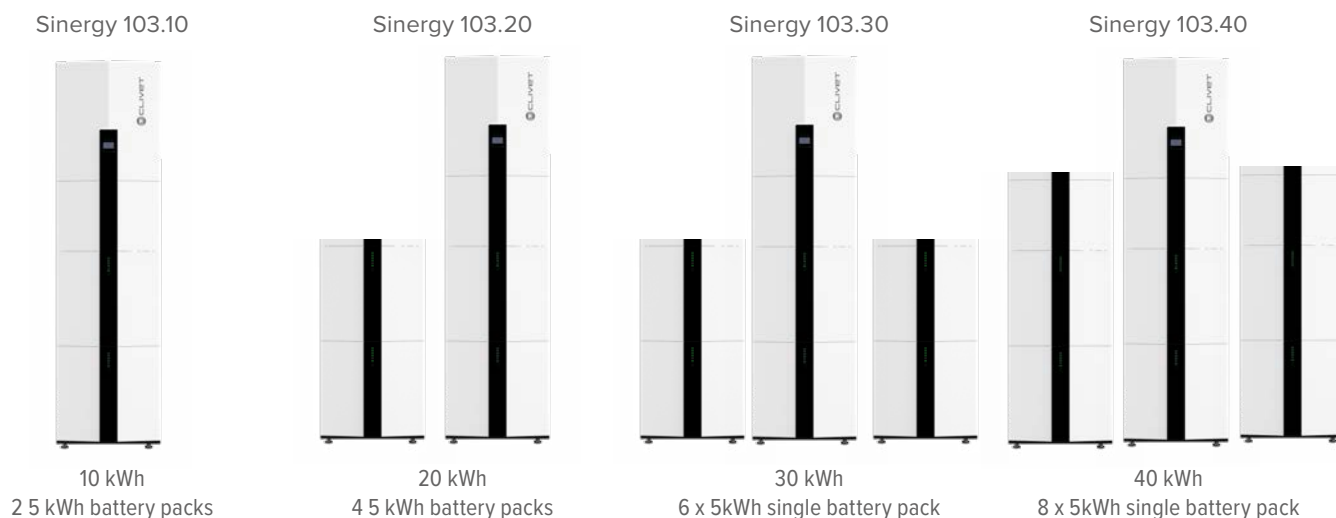


1. 5 kW / 3.68kW hybrid inverter including 2 MPPT inputs totalling 6.5 kW (4.8kW in the 3.68kW version)
2. Display
3. Cable entry for connection to the system
4. Battery pack charge level indicator
5. 5 kWh battery pack including BMS (battery management system)
6. Battery pack charge level indicator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

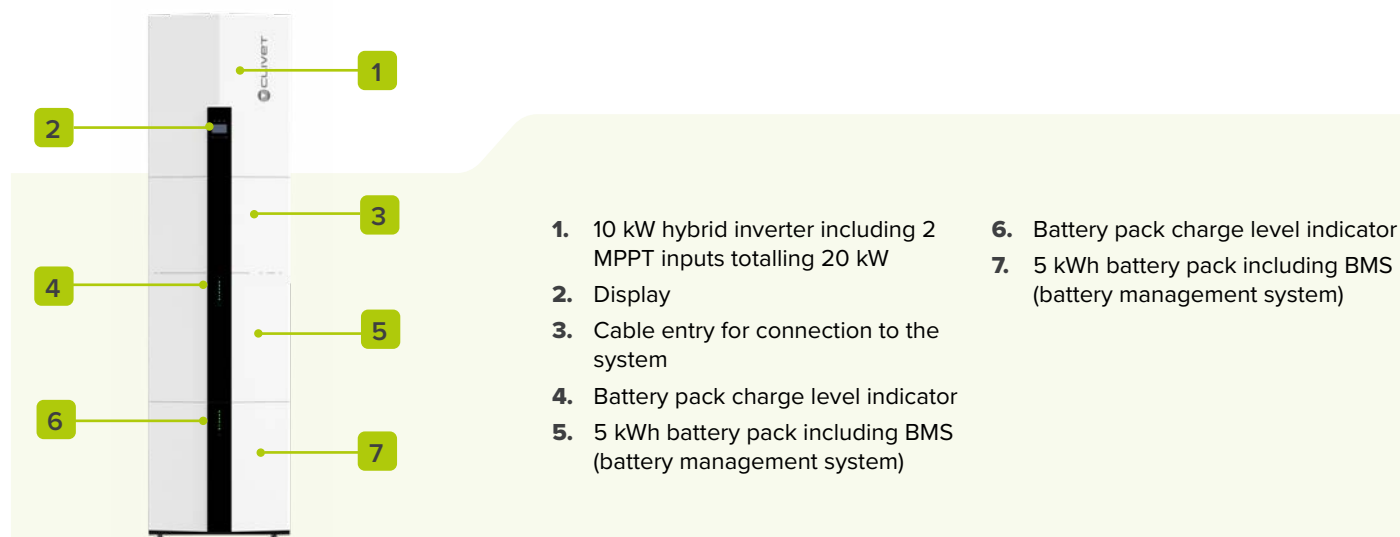


- ✓ 10 kW three-phase 400Vac hybrid inverter
- ✓ Modular system with up to 8 water tanks for capacities of 10/20/30/40 kWh
- ✓ Dual MPPT input for 20 kW photovoltaic system
- ✓ On-grid function and integrated 10 kW back-up output for connecting loads in the event of a voltage failure
- ✓ «Anti-islanding» 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



Operating mode

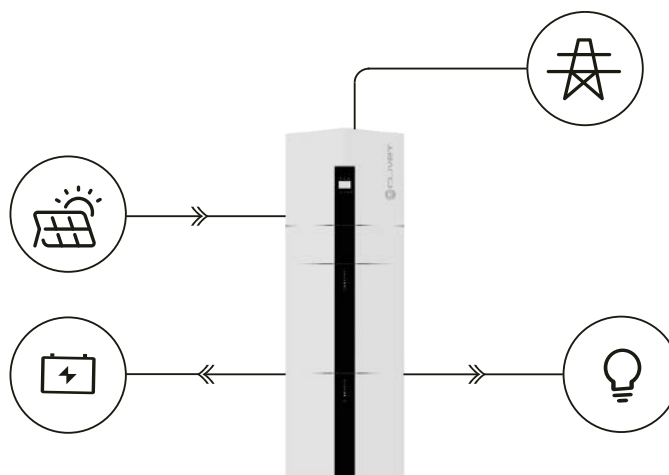
Self-consumption

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.

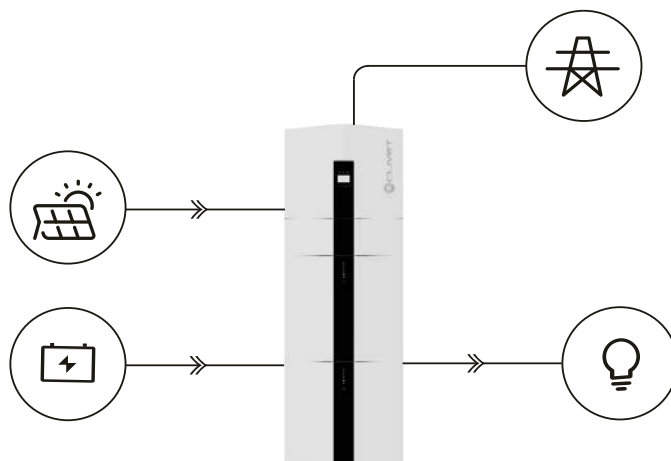
If the power supply from the batteries is not enough, the grid will supply the load demand.



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.

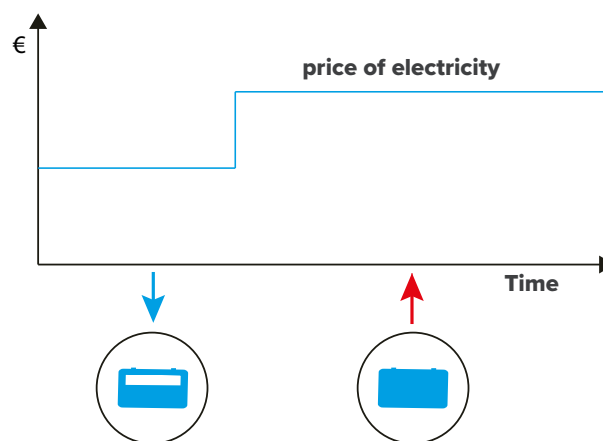
Used to charge the battery from the grid in the absence of a photovoltaic system.

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)



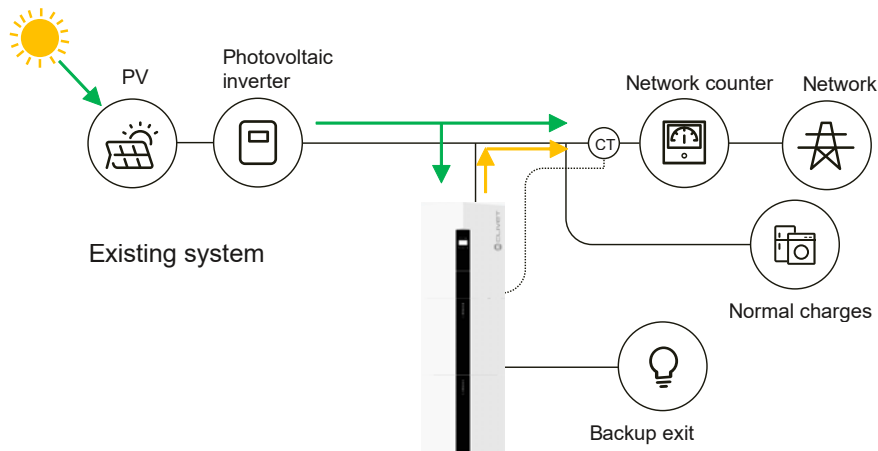
Existing system

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.

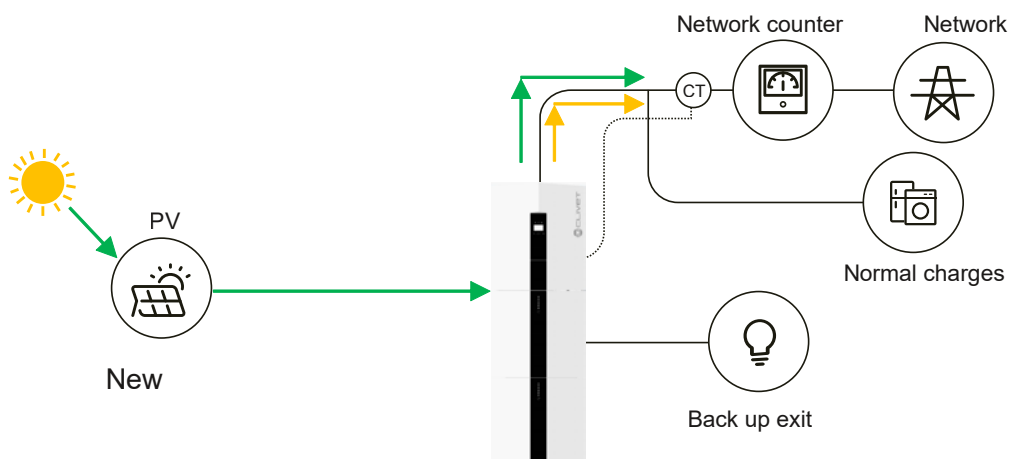


New system

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.



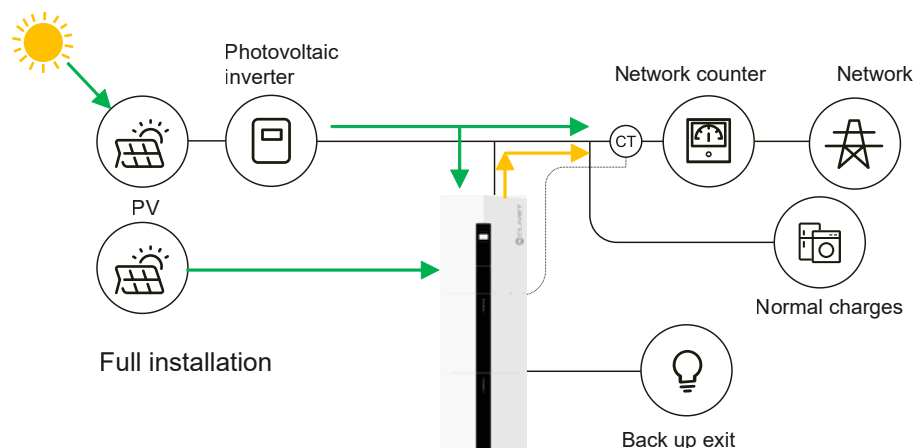
full installation

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 Power	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 $\pm$ 5Hz
Max. Output Current	16A
Max. Input Current	25A
Power Factor (cos Φ)	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%
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Protection

DC Switch	Bipolar DC Switch (125A/Pole)
Anti-islanding Protection	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

Clivet Eye

Smart Living remote monitoring and management system



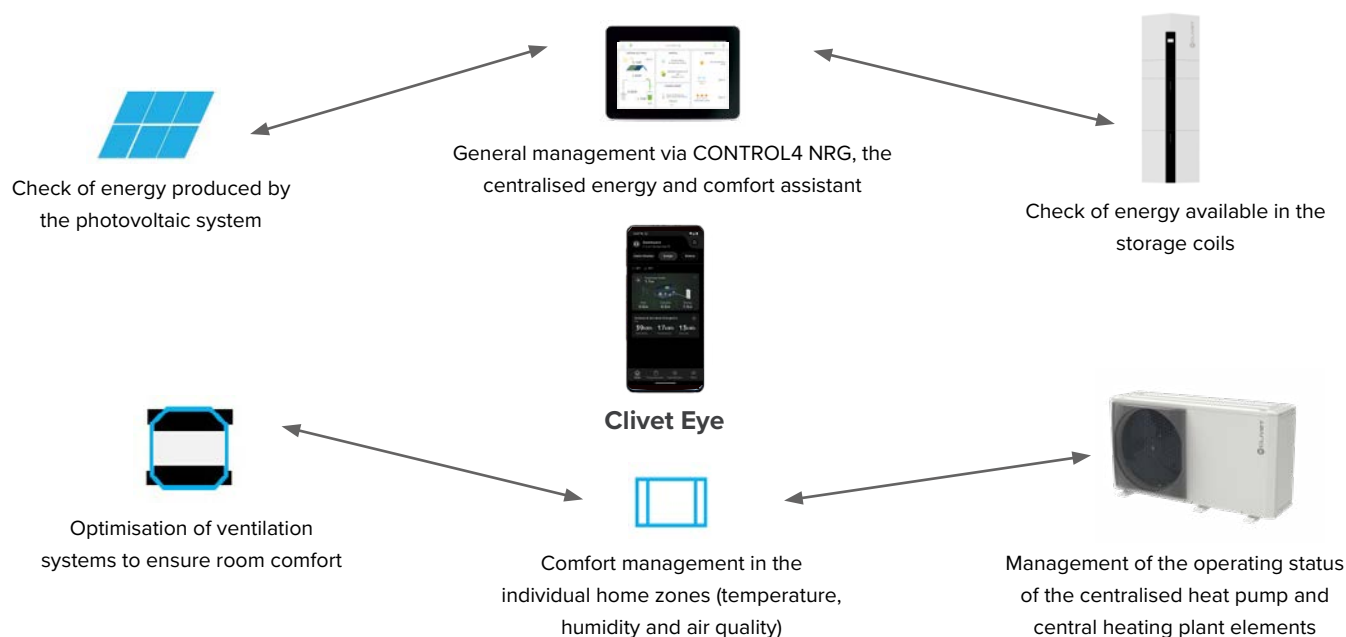
- ✓ App and PC control of all elements connected to Clivet Smart Living
- ✓ Display of system energy data
- ✓ Display of any malfunctions of individual air conditioning control system elements
- ✓ Accessible from the App and web browser via PC
- ✓ App available on Android and iOS platform

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.

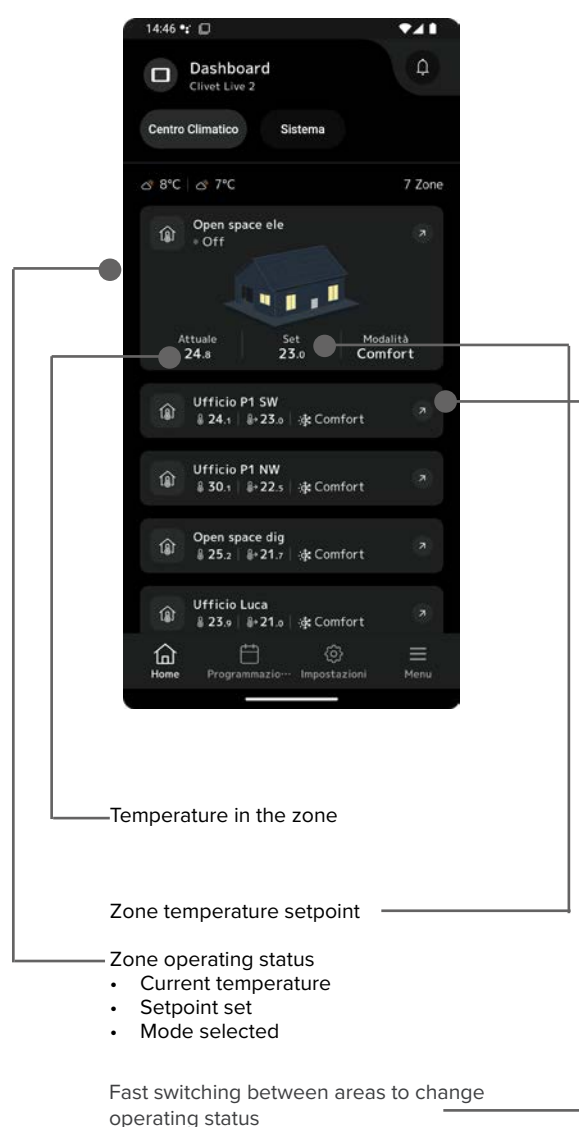
Energy dashboard shows:

- 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”

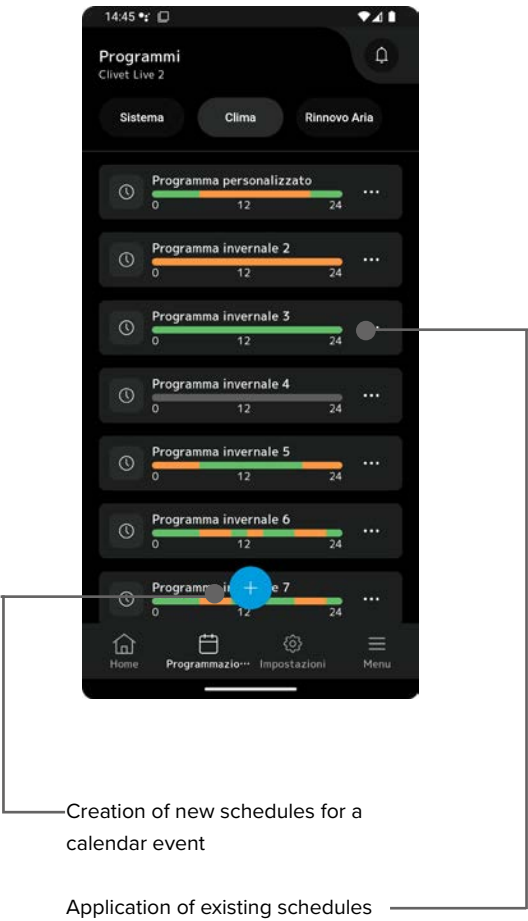
For each of the 24 independent climate areas, the relevant setpoint can be set so as to always obtain the ideal comfort levels.



The screens shown are for demonstration purposes only.

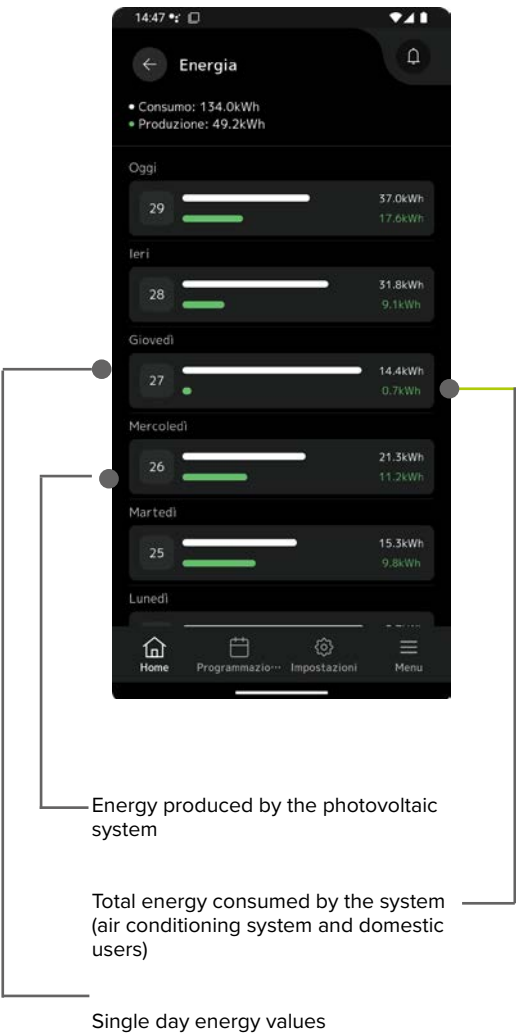
Scheduler

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



Energy page

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

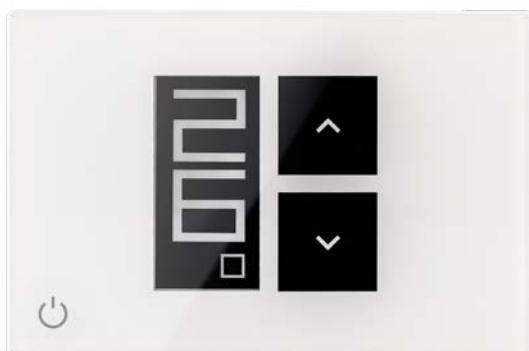


The screens shown are for demonstration purposes only.



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

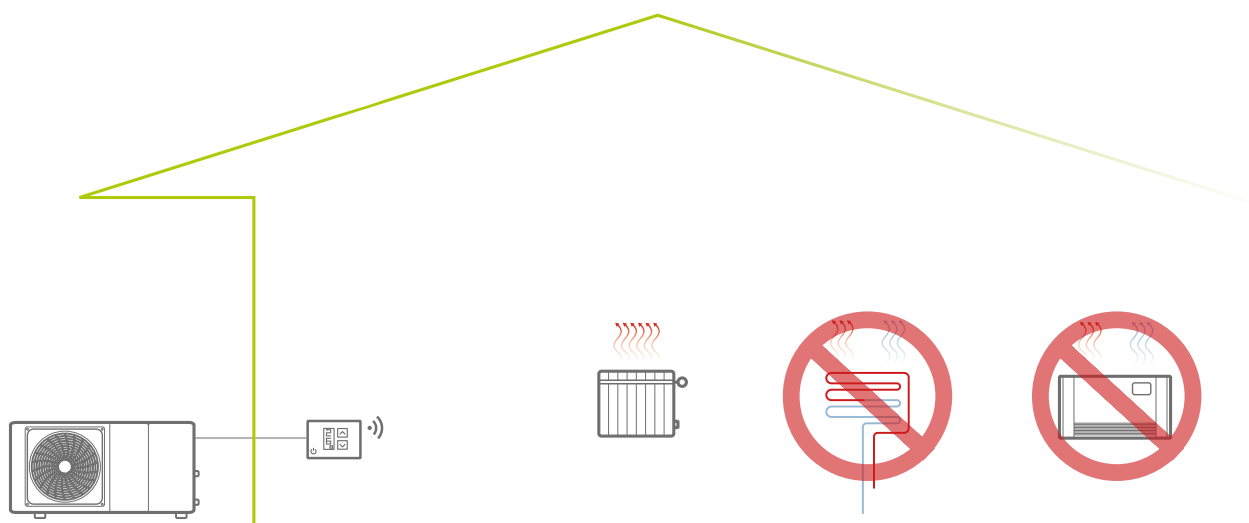
Management via App

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

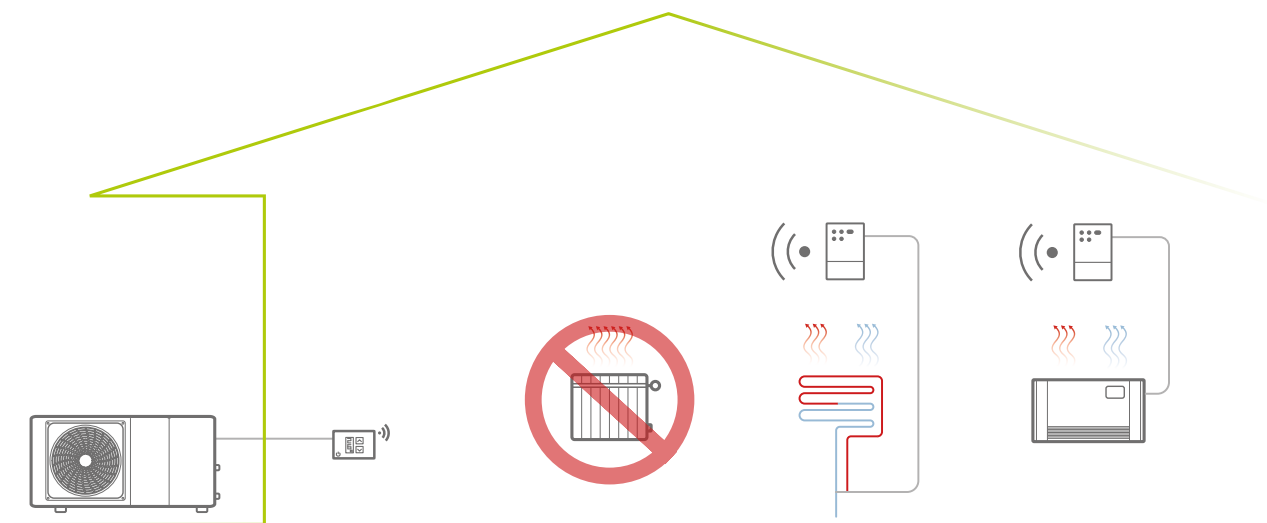
HID-TConnect2 can be wired directly to the heat pump without additional accessories: ideal to manage a heat-only radiator system.



Note: mode change and distribution system management not available

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.



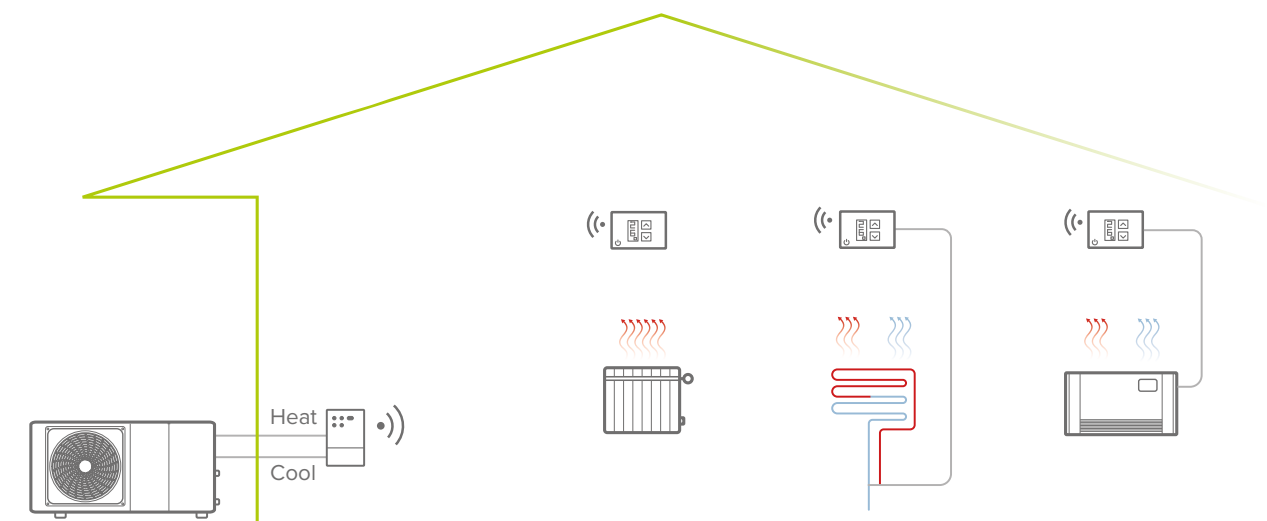
Note: the mode change must be managed in the heat pump (from the user interface or the MSmart Home App).

Wi-Fi connection to the generator and cabled distribution connection

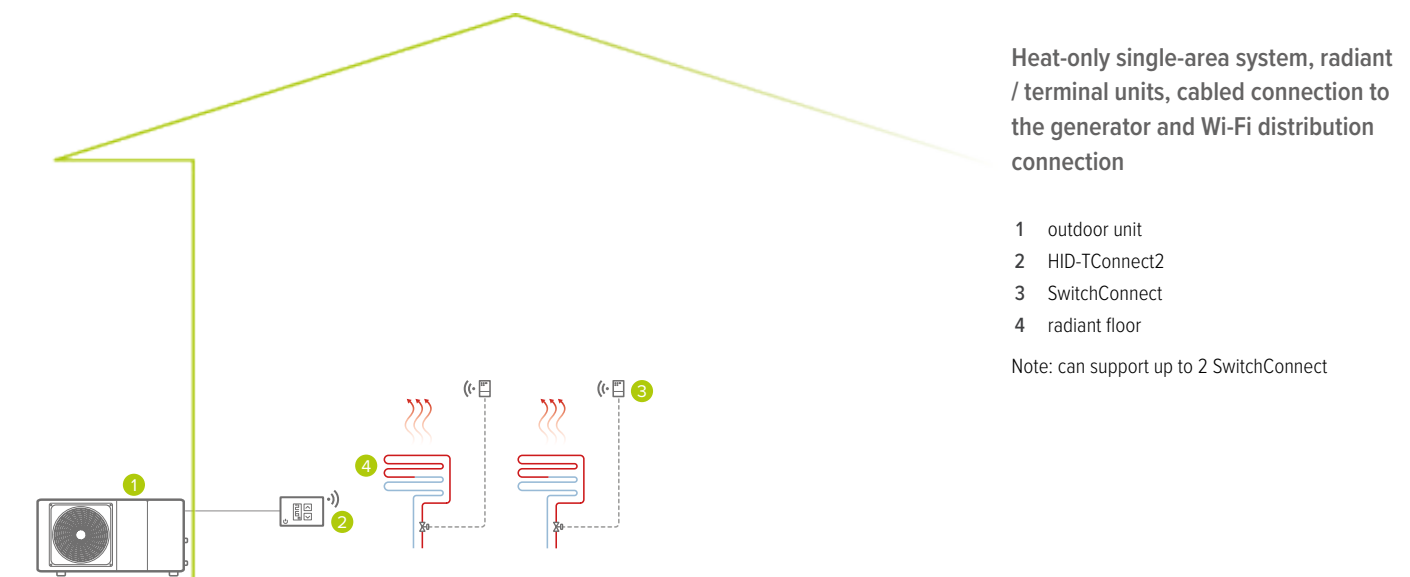
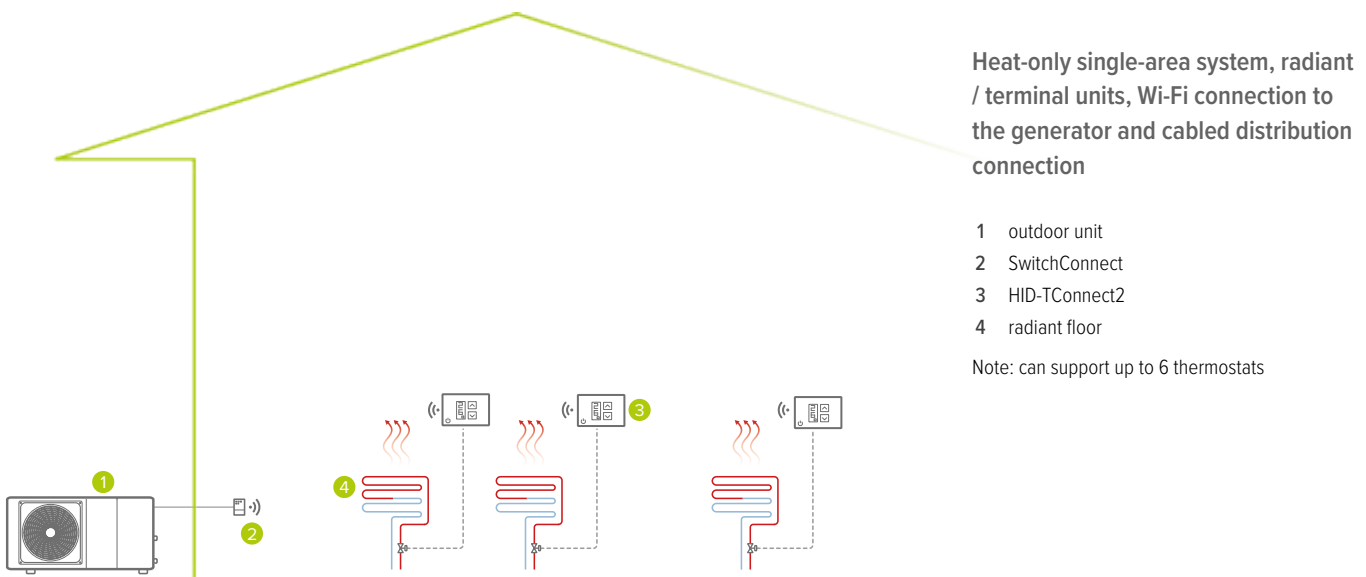
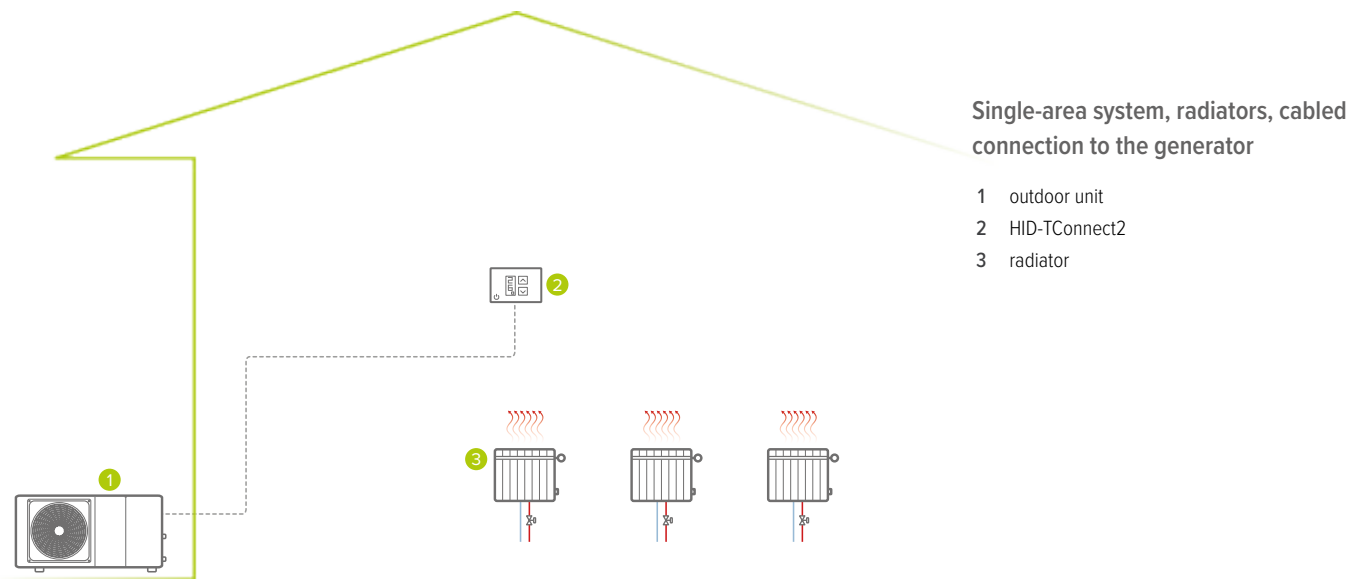
HID-TConnect2 can be connected via cable and open/close the heads of a radiant system or remotely turn a fan coil ON/OFF. The signal of a single thermostat can manage several fan coils or radiant panels.

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.

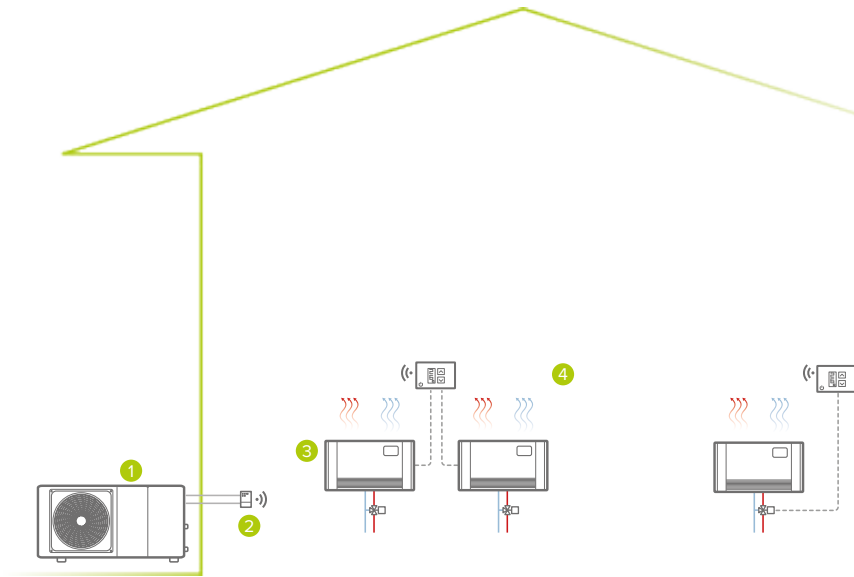


Heating/cooling single area system, radiant / terminal units, Wi-Fi connection to the generator and cabled distribution connection

- 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



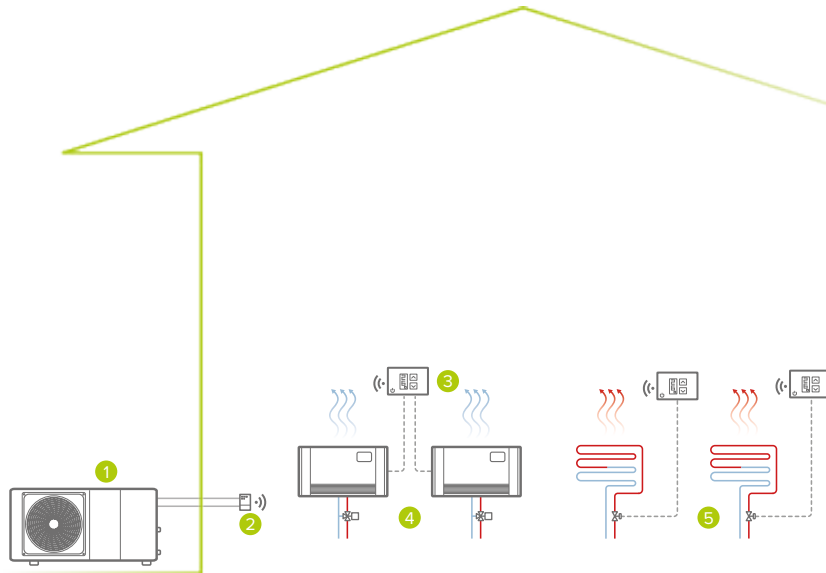
Heating/cooling single area system, radiant / terminal units, Wi-Fi connection to the generator and cabled distribution connection

- 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



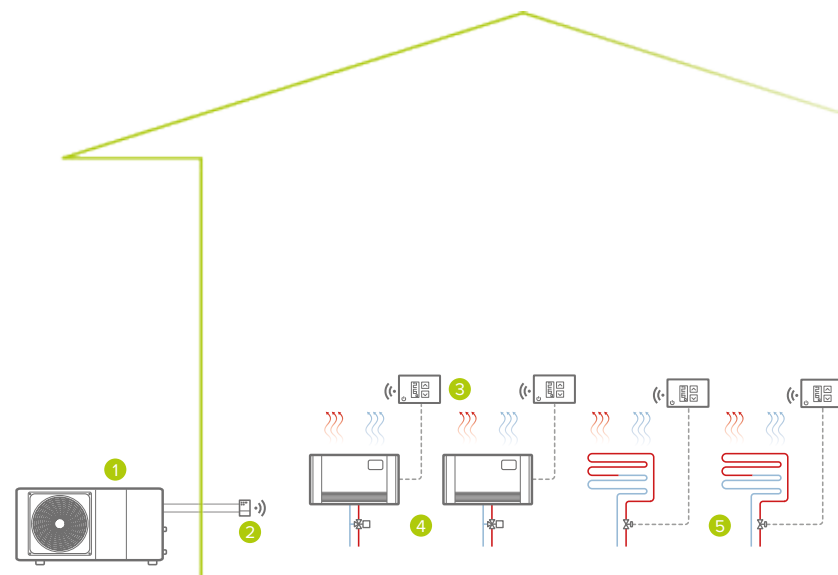
Heating/cooling dual area system, radiant / terminal units, Wi-Fi connection to the generator and cabled distribution connection

- 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





- ✓ 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

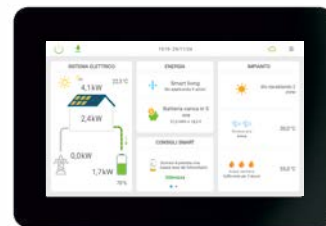
The INTELLIPLANT system allows you to efficiently and continuously manage the system on the local operator panel and the remote interface on a computer, smartphone or tablet.

- ✓ 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

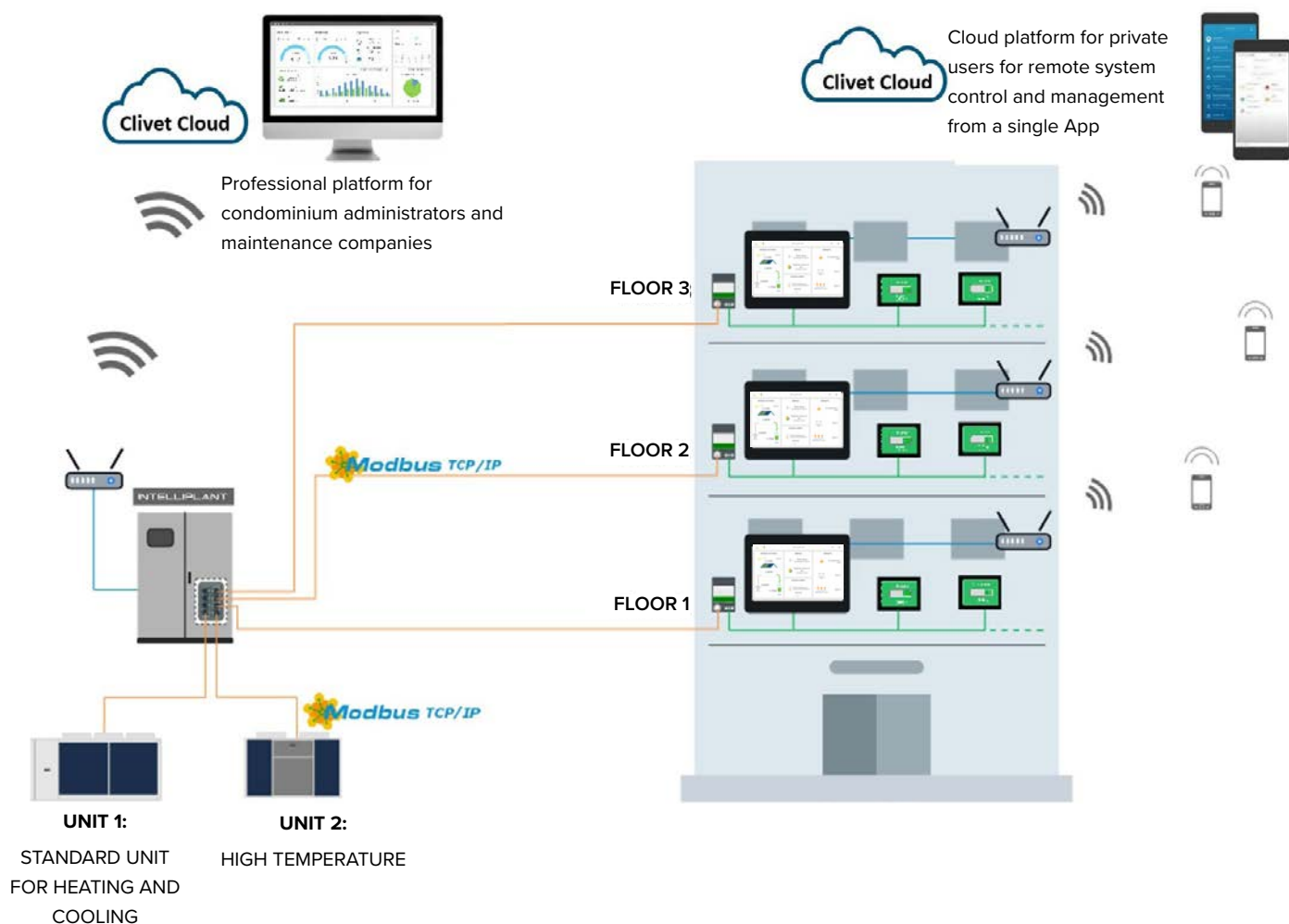
Private users

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



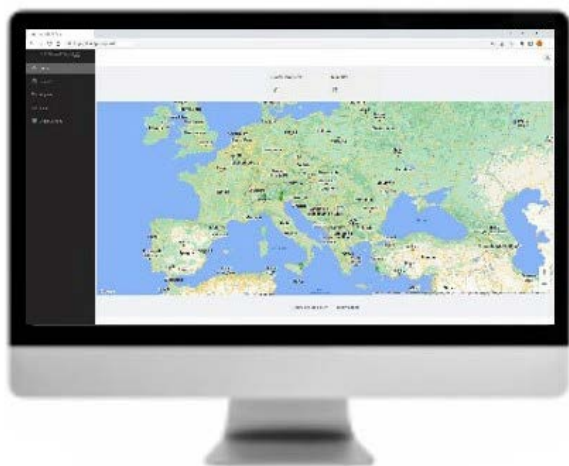
Central heating plant

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



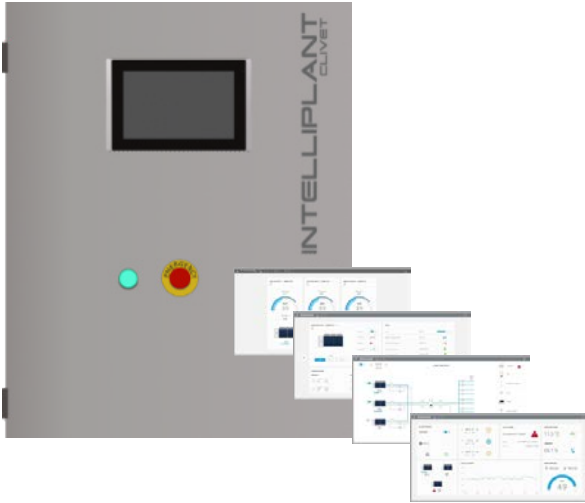
CLIVET CLOUD, THE SYSTEM IN YOUR HANDS

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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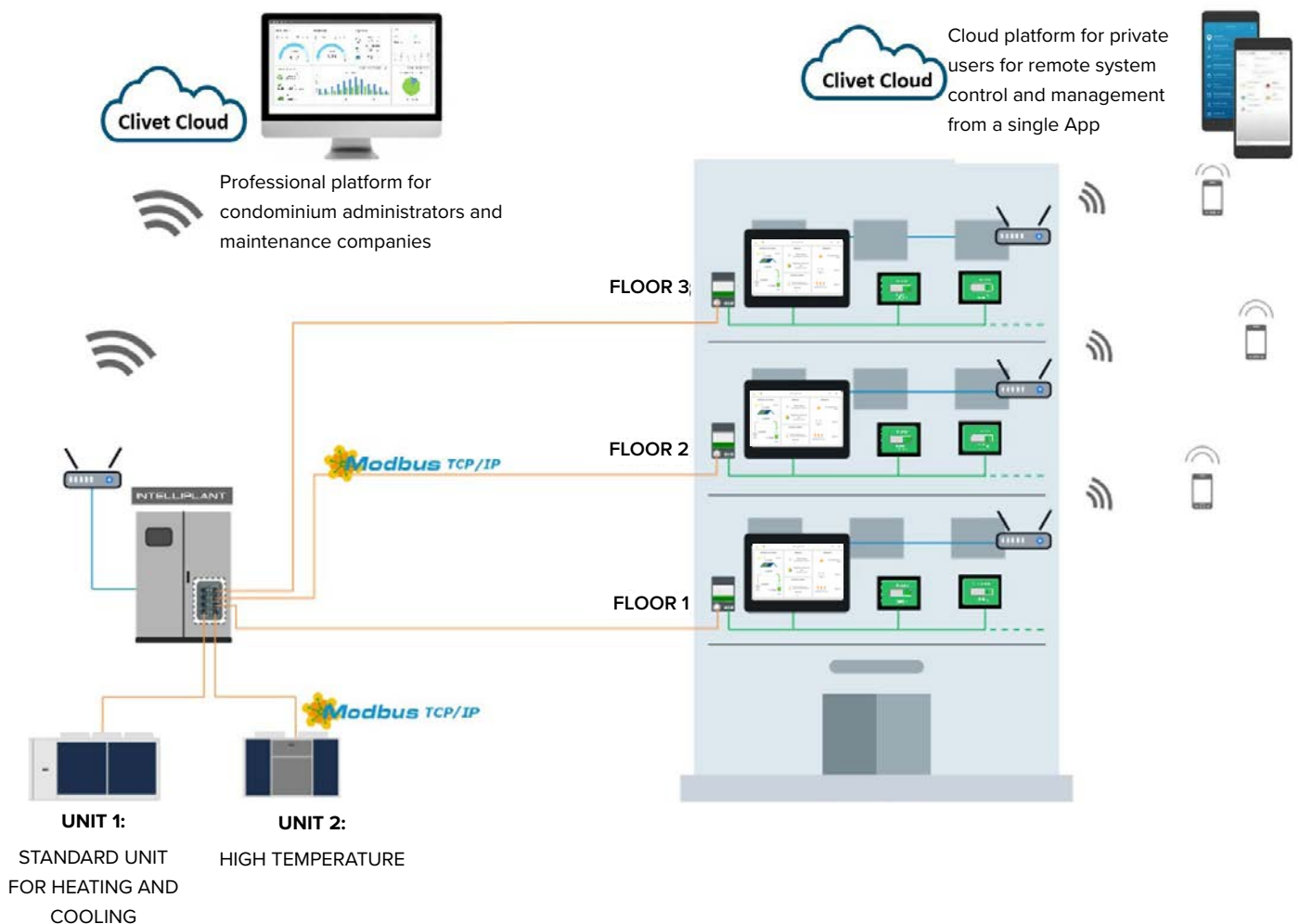
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- ✓ Compatibility with HID-TSmart thermostats to display the home operating parameters such as temperature, humidity, electricity consumption, air quality, SINERGY coil charge level (when present)



Example of infrastructure



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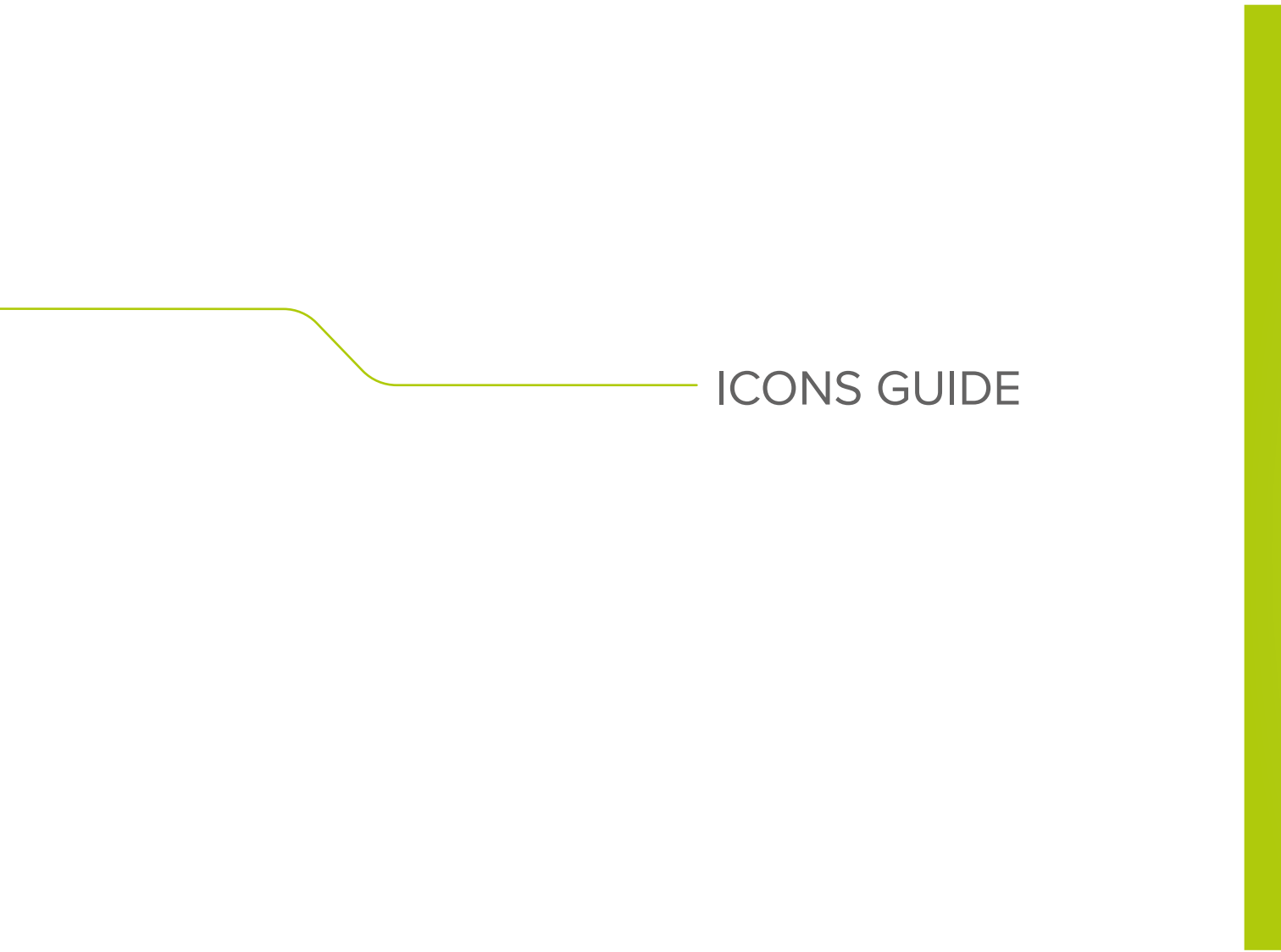
RANGE	SIZE FROM	TO	MODEL NAME	GROUP	PAGE
SQKN-YEE 1 TC + MiSAN-YEE 1 S	2.1	8.1	SPHERA EVO 2.0	Heat pumps	24
SQKN-YEE 1 BC + MiSAN-YEE 1 S	2.1	8.1	SPHERA EVO 2.0 BOX	Heat pumps	30
SQKN-YEE 1 IC + MiSAN-YEE 1 S	2.1	5.1	SPHERA EVO 2.0 INVISIBLE	Heat pumps	36
SQKN-YEE 1 BH + MiSAN-YEE 1 S	2.1	8.1	SPHERA EVO 2.0 EASYHYBRID BOX	Heat pumps	42
SQKN-YEE 1 BH + MiSAN-YEE 1 S	2.1	8.1	SPHERA EVO 2.0 EASYHYBRID TOWER	Heat pumps	48
WiSAN-YME 1 s	2.1	14.1	EDGE EVO 2.0 - EXC	Heat pumps	56
WiSAN-PME 1 S	2.1	8.1	EDGE F	Heat pumps	60
WiSAN-YME 1 S + HQCN-NEE 1 TC A	2.1	8.1	HYDRO-SPLIT TOWER version	Heat pumps	70
WiSAN-YME 1 S + HQCN-NEE 1 BC A	2.1	8.1	HYDRO-SPLIT BOX version	Heat pumps	78
WiSAN-YME 1 S + HQCN-NEE 1 IC A	2.1	5.1	HYDRO-SPLIT INVISIBLE version	Heat pumps	86
WiSAN-YME 1 S + HQCN-NEE 1 MC A	2.1	8.1	HYDRO-SPLIT MINI version	Heat pumps	94
Gas Boiler FE	24.4	33.4	Gas Boiler FE	Heat pumps	100
Gas Boiler UC	24.4	200F.2	Gas Boiler UC	Heat pumps	101
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Bollitori ACS	ACS200X	ACS10SX	Bollitori ACS	Heat pumps	110
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INTELLIPLANT	-	-	INTELLIPLANT	Solutions	166
INTELLIPLANT CORE	-	-	INTELLIPLANT CORE	Solutions	170

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).

Data contained in this catalogue are not binding and may be changed by the Manufacturer without notice.

No part of this publication may be reproduced.

Updated data available on www.clivet.com

A decorative green line starts from the left edge, moves horizontally, then diagonally down and to the right, and finally horizontally again to the right. A solid green vertical bar is located on the far right side of the page.

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



E-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 CO₂ emissions

CONVENIENCE



Weekly 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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CLIVET S.p.A.

Via Camp Lonc 25, Z.I. Villapaiera 32032 - Feltre (BL) - Italy
Tel. +39 0439 3131 - info@clivet.it

CLIVET GMBH

Hummelsbütteler Steindamm 84,
22851 Norderstedt, Germany
Tel. +49 40 325957-0 - info.de@clivet.com

Clivet Group UK LTD

Units F5 & F6 Railway Triangle,
Portsmouth, Hampshire PO6 1TG
Tel. +44 02392 381235 -
Enquiries@Clivetgroup.co.uk

CLIVET LLC

Office 508-511, Elektrozavodskaya st. 24,
Moscow, Russian Federation, 107023
Tel. +7495 6462009 - info.ru@clivet.com

CLIVET MIDEAST FZCO

Dubai Silicon Oasis (DSO) Headquarter Building,
Office EG04-05, P.O Box-342009, Dubai, UAE
Tel. +9714 5015840 - info@clivet.ae

Clivet South-East Europe d.o.o.

Jarušćica 9b
10000, Zagreb, Croatia
Tel. +3851 222 8784 - info.see@clivet.com

CLIVET France

6 Allée Kepler,
77420 Champs-sur-Marne - France
mail: info.fr@clivet.com
Tel: +33 1 88 60 99 40

Clivet Airconditioning Systems Pvt Ltd

Office No.501 & 502,5th Floor, Commercial -I,
Kohinoor City, Old Premier Compound, Off LBS
Marg, Kiroi Road, Kurla West, Mumbai
Maharashtra 400070, India
Tel. +91 22 30930200 - sales.india@clivet.com