CLIVET Home

GUIDE ***2024***

PRODUCTS AND SYSTEMS

HOME

2024

CLIVET | AIR CONDITIONING AND AIR QUALITY PARTNER

Inspiring Solutions since 1989

CLIVET Home

This document is dedicated to those looking for advanced and specialized solutions for heating and cooling, air conditioning, renewal and purification of air in the residential area.

Solutions able to increase the comfort level in the places where we live be they single or multi-family homes, new homes or renovations.

Complete year round systems, focused on substantial energy savings and a reduction in CO_2 emissions.

Full electric or hybrid heat pumps, with integrated condensing boiler, cased or uncased that adapt to any type of system.

With over 30 years of experience!

INSPIRING SOLUTIONS

CLIVET | AIR CONDITIONING AND AIR QUALITY PARTNER

Discover the dealer closest to you

This Guide 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
- ✓ Boilers for Hybrid heat pumps

ACCESSORY PRODUCTS TO HEAT PUMPS:

- ✓ Domestic hot water boilers
- ✓ Thermal solar

FAN COILS

HEAT PUMPS FOR DHW (Domestic Hot Water)

CONTROLLED MECHANICAL VENTILATION WITH RE-COVERY

COMFORT AND ENERGY MANAGEMENT SOLUTIONS

ALWAYS READY FOR THE FUTURE

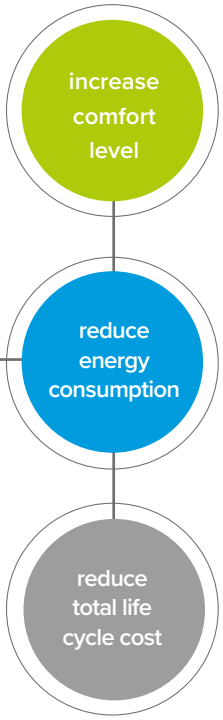
INSPIRING SOLUTIONS

In over 30 years of working on the design, manufacturing and distribution of air conditioning and handling systems, combining high efficiency with minimal environmental impact, Clivet has developed solutions to ensure sustainable comfort and the well-being of people and the environment. Designing and developing year-round air conditioning solutions with innovative technologies are part of Clivet's DNA, which means the company has always been ready for the future.

OUR VALUES FOR THE SECTORS

IN THE RESIDENTIAL, COMMERCIAL AND INDUSTRIAL SECTORS

Increasing comfort, saving energy and providing customers with the best value for the entire life cycle of the system: these are the values that inspire our systems for the residential, services and industrial sectors.



OUR NUMBERS

36
AGENCIES
IN ITALY

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

100
COUNTRIES WE
EXPORT TO

975
EMPLOYEESI
IN ITALY AND
ABROAD

270
WHOLESALERS WITH
CONTRACT

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

170
SERVICE CENTRES

2015
CLIVET LIVE IS BORN

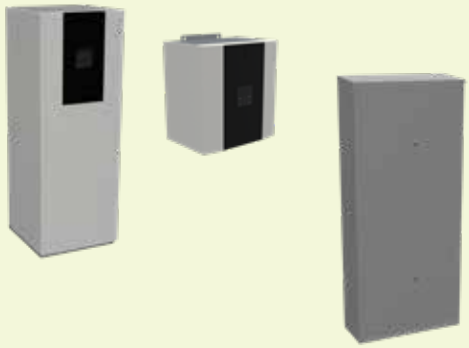
2016
STRATEGIC ALLIANCE
WITH MIDEA GROUP

2023
MIDEA GROUP 278 FORTUNE GLOBAL 500

47.3 $M
MIDEA TURNOVER 2022

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.
Available from June



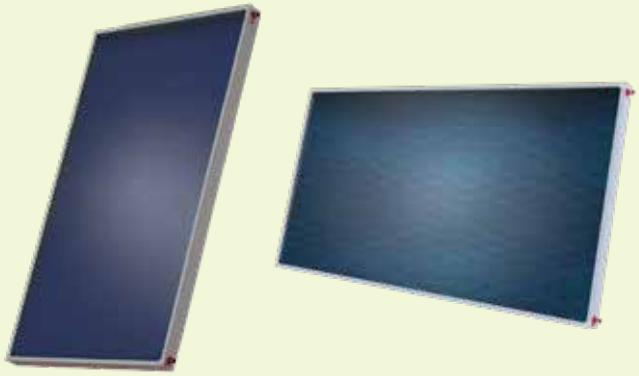
NEW PRODUCTS

Even more eco-friendly heat pumps

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

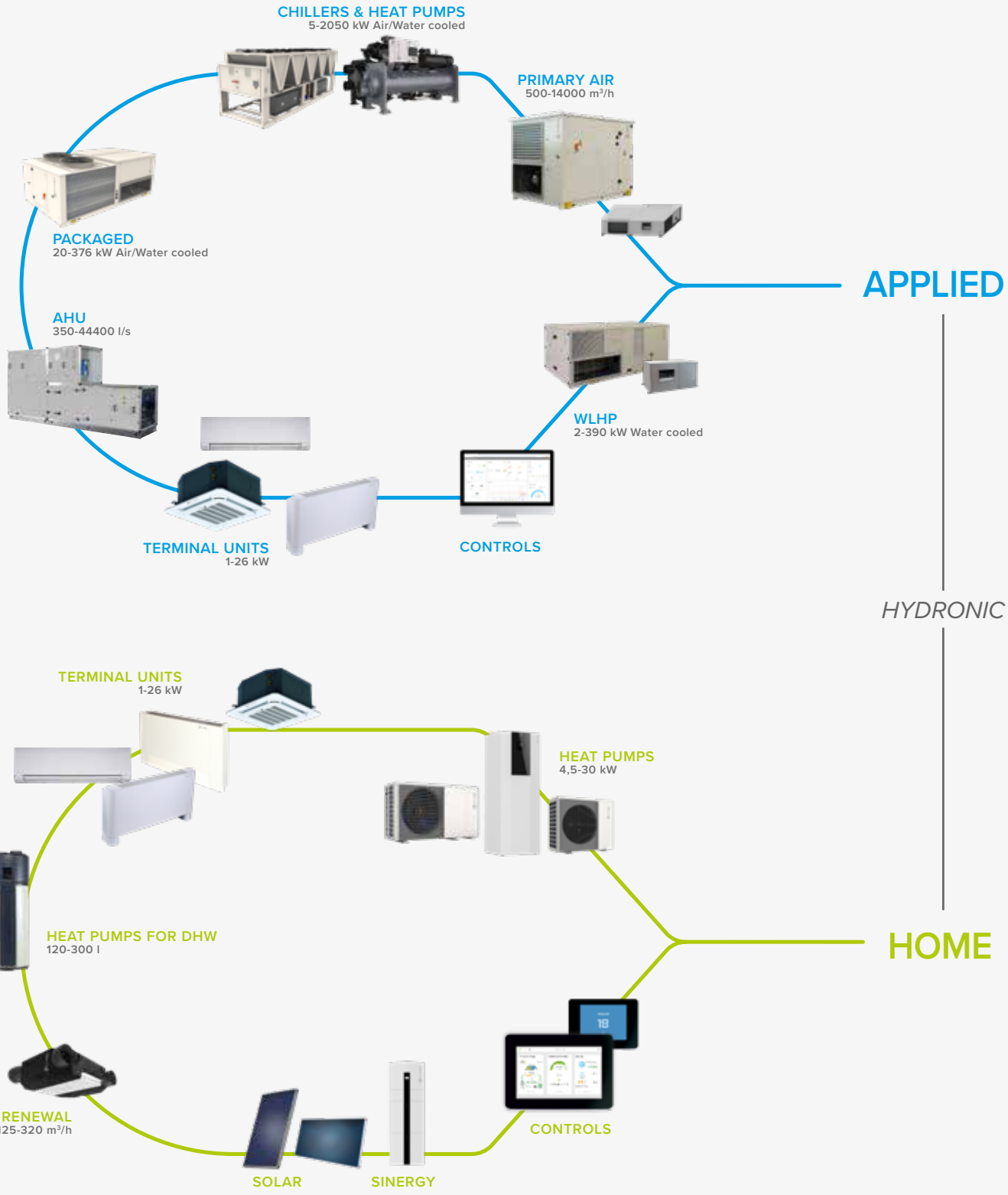
Enhancement and simplification of the ELFOSun^3 series

The series of thermal solar panels has been renewed and expanded, with the introduction of panels in new sizes and with horizontal installation. Their selection has also been made easier and more intuitive.

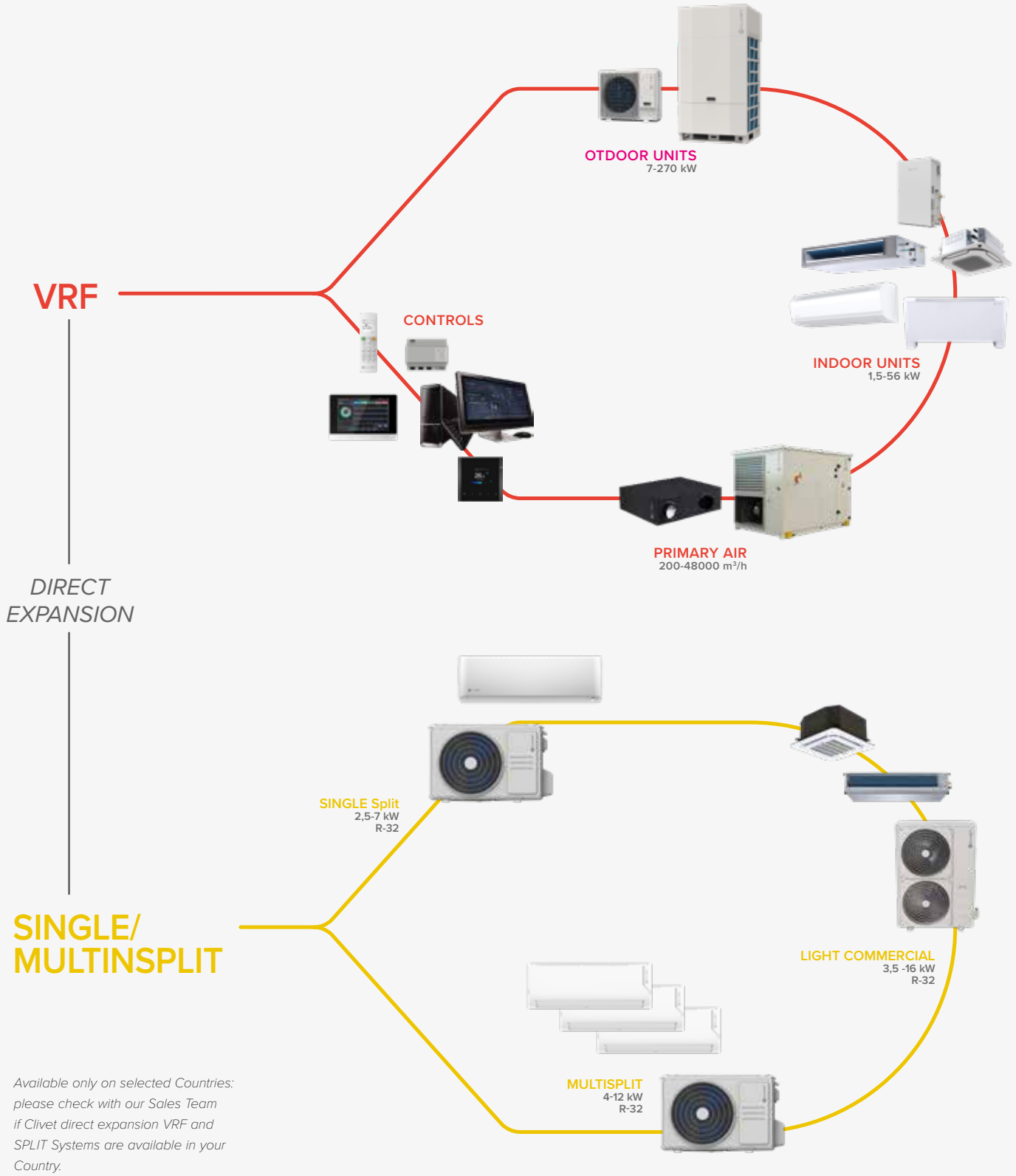


ALL TECHNOLOGIES FOR

A COMPLETE PROPOSAL



Heating, cooling, air renewal and domestic hot water production



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

HOME

The range Clivet HOME

Heat pumps

Refrigerant-split

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

Monobloc

	Edge EVO 2.0 - EXC		4 ÷ 30 kW
	Edge F[NEW]	R-290	4 ÷ 16 kW

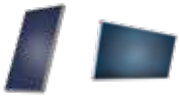
Hydro-split

	EASYTank[PREVIEW]	R-290 *(optional)*	4 ÷ 16 kW
	EASYBox[PREVIEW]	R-290 *(optional)*	4 ÷ 16 kW
	EASYIn[PREVIEW]	R-290 *(optional)* Integr. Boiler *(optional)*	4 ÷ 16 kW 24 ÷ 34 kW (boiler)

Boilers for Hybrid heat pumps

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

Accessory products for heat pumps

	Boilers for domestic hot water		200 ÷ 1.000 l
	ELFOSun^3 - thermal solar [NEW]		2 ÷ 2,5 m^2

Fan coils

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

Heat pumps for domestic hot water

	AQUA Plus	190-300 l

Controlled Mechanical Ventilation with recovery

	ELFOFresh EVO	Full Inverter DC	125 ÷ 320 m³/h

Comfort management solutions

	HID-TConnect[2]	-
	Control4 NRG	-
	Sinergy - storage for solar photovoltaics	5 ÷ 20 kWh

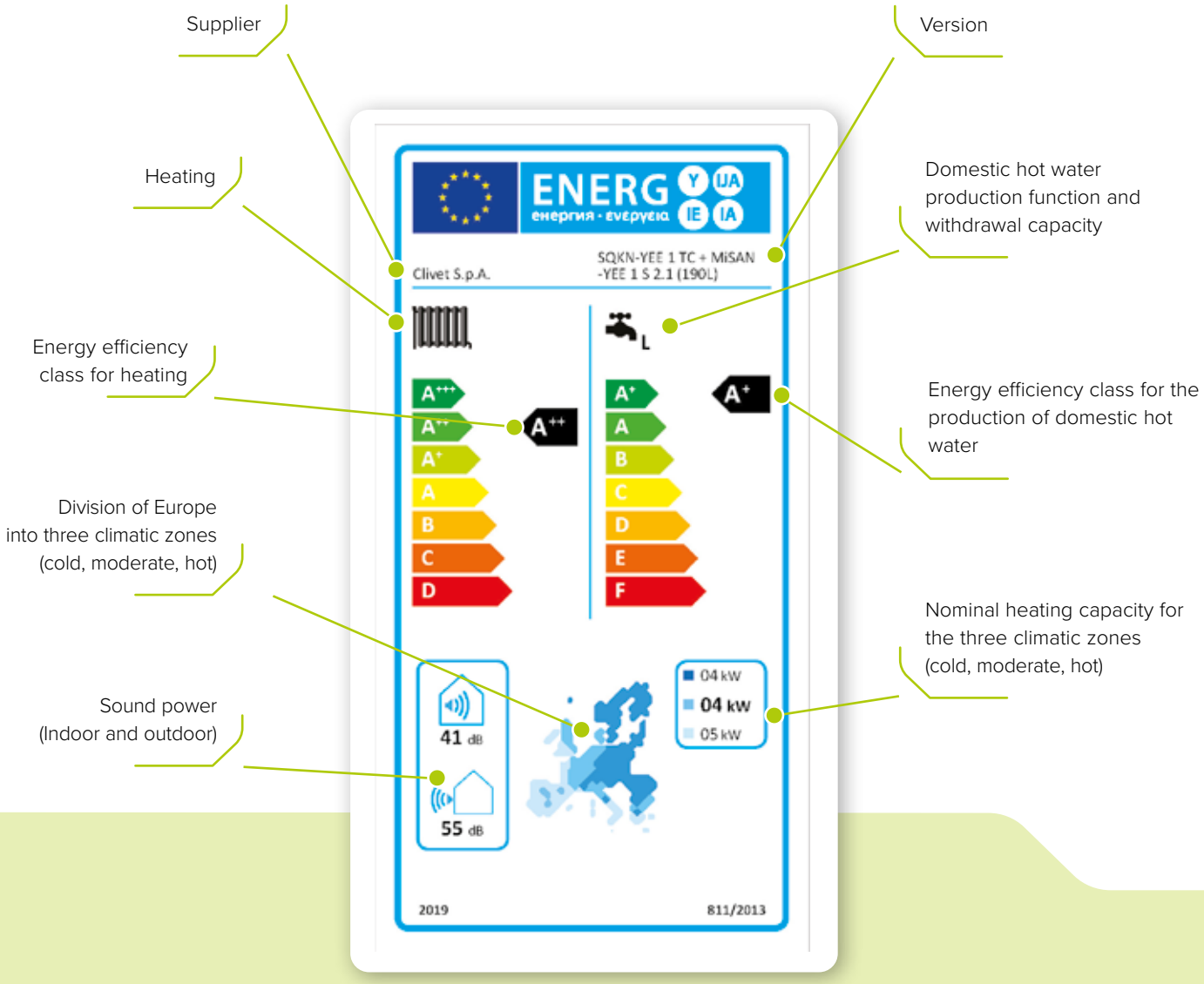
For the symbols, see the Icon Key at the back of the catalogue

ErP - Energy Related Products

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

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

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



PRODUCT LABEL

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

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

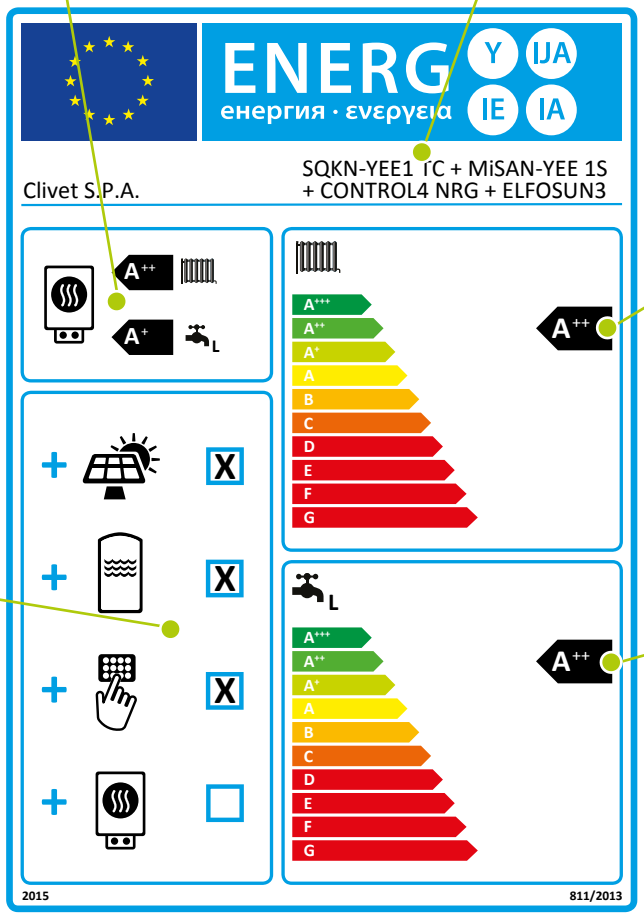
Energy efficiency class of the appliance for heating and for the production of domestic hot water

Models that are part of the system

Overall heating energy efficiency class

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

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



SYSTEM LABEL

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

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

CLIVET COMBINES THE BEST TECHNOLOGY

with an excellent product quality and performance certification system

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

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

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

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

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

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

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

Clivet participates in the EUROVENT "Liquid Chilling Packages and Heat Pumps", "Rooftops", "Air Handling Units" and "VRF" Certification programmes. The products concerned feature in the EUROVENT guide to certified products and on the website www.eurovent-certification.com. The programmes cover water chillers and heat pumps up to the limits set by the purpose of each programme.
Where applicable.
Check the validity of the current certificate: www.eurovent-certification.com
The following products are not certified: Gas Boiler FE, Gas Boiler UC, ELFOSun^{3}, BOLLITORI ACS, AQUA PLUS, ELFOFresh EVO, ELFOAir, Control4 NRG, Clivet EYE, SINERGY, HID-TConnect2 e INTELLIPLANT

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

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

A solution for every home

NEW BUILDINGS

Building and system working together as one

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

- ✓ SPHERA EVO 2.0
- ✓ SPHERA EVO 2.0 Invisible
- ✓ Edge EVO 2.0 / Edge F
- ✓ EASYTank / EASYIn
- ✓ ELFOSun^3
- ✓ ELFOFresh EVO
- ✓ AQUA Plus

RENOVATIONS

Turn your ideas into reality and create comfort

Solutions designed to **enhance systems in existing houses by also intervening on the distribution and control system**, which require building works such as renovating the distribution system, installing an intelligent management system or creating a thermal cladding system.
Incentives make these interventions extremely cost-effective, even with low investments.
These are cutting-edge systems that significantly increase comfort levels: they are **designed at the renovation stage** to replace the Heating system and the production of Domestic Hot Water, but also to add cooling, renewable energy sources (e.g. solar panels) or intelligent management systems such as Control4 NRG

.

- ✓ SPHERA EVO 2.0
- ✓ SPHERA EVO 2.0 Box
- ✓ SPHERA EVO 2.0 EASYHybrid Tower
- ✓ Edge EVO 2.0 / Edge F
- ✓ EASYTank / EASYBox
- ✓ Edge EVO 2.0 Versione Hybrid
- ✓ ELFOSun^3
- ✓ ELFOFresh EVO

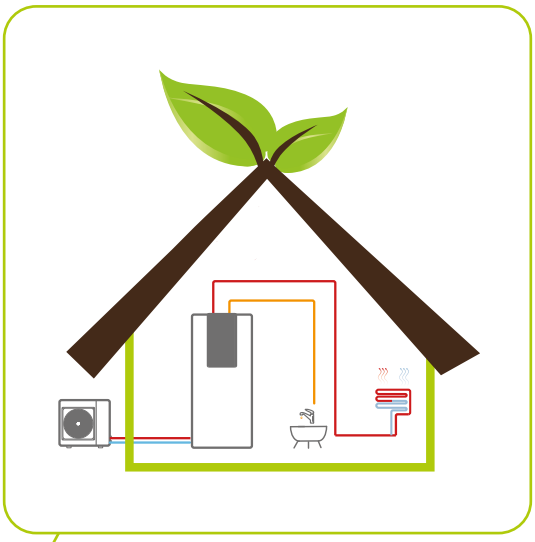
REPLACEMENTS

Get maximum results with minimum effort

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

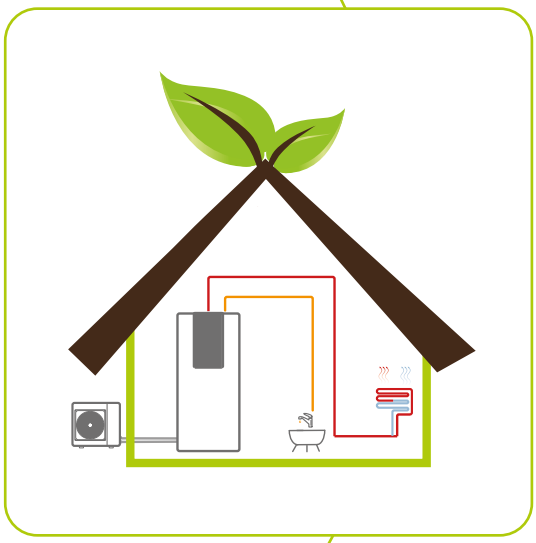
- ✓ SPHERA EVO 2.0 Box
- ✓ SPHERA EVO 2.0 EASYHybrid Box
- ✓ SPHERA EVO 2.0 EASYHybrid Tower
- ✓ SPHERA EVO 2.0 Box Hybrid
- ✓ Edge EVO 2.0 / Edge F
- ✓ EASYTank / EASYIn / EASYBox
- ✓ AQUA Plus

Three solutions for every need



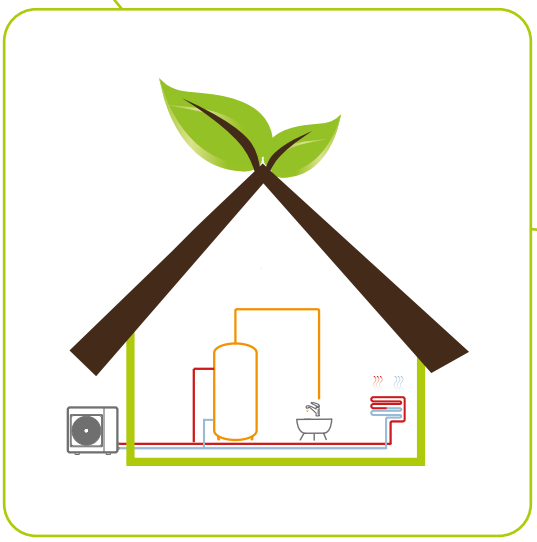
HYDRO-SPLIT

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



REFRIGERANT-SPLIT

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



MONOBLOC

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

OVERVIEW OF THE HEAT PUMP RANGE

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

Note:

Reference conditions:

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

Data include defrosting cycles

Heat pumps:

- ✓ Refrigerant-split
- ✓ Monobloc
- ✓ 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#In#for heating, cooling and domestic hot water production

ENERGY SAVING
- Integration Heating/DHW
- Cascade
- Smart Grid ready
- €-Switch

COMFORT
- Hot Cold
- DHW
- Silent

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

HEALTH
- Renewable Energy (Full electric version)

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

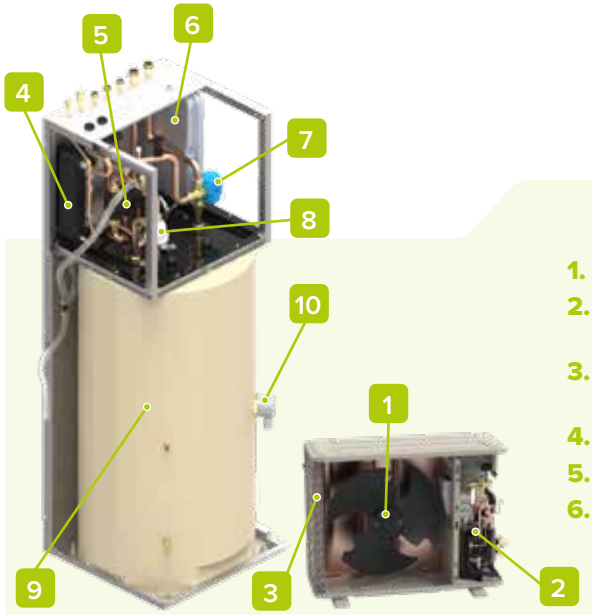
MANAGEMENT AND CONNECTIVITY
- Input ON/OFF
- Port Modbus
- Control via App
- Control4 NRG
- Clivet Eye monitoring
- User interface / thermostat

TOP SYSTEM EFFICIENCY ErP 55°C A++ L A+

- ✓ 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 system and DHW operation *(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. 8L system expansion tank
7. 3-way valve
8. Magnetic dirt separator filter
9. 190L/250L DHW tank with coil
10. 2 kW DHW safety heater

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

	ACSA250X	250 liter DHW tank with aesthetic cabinet
	SOLX	Thermal solar management kit
	KCSX	Kit for secondary circuit (1 liter circuit breaker + circulation pump)
	KIRE2HLX	Two-zone distribution kit: direct + mixed
	KIRE2HX	Double zone distribution unit: direct + direct
	DIX	1 liter hydraulic separator
	ACI40X	40 liter system inertial storage tank
	DI50-2X	50 liter hydraulic separator
	COFX	Aesthetic cover for inertial storage tank
	KCCEX	Kit for management of a 2-pipe boiler in heating and DHW mode
	KCCE4X	Kit for management of an instantaneous boiler in heating and DHW mode
	ANEDX	Electronic anode to protect DHW boiler

	T1BX	10m water temperature probe
	T1B30X	30m water temperature probe
	VDACSX	Thermostated diverter valve for DHW
	DTX	Drain pan with antifreeze electrical heater
	APAVX	Kit of antivibration mounts for floor installation
	ASTFX	Antivibration mounts kit for installation on the brackets for wall installation or drain pan
	KSIPX	Kit with wall fixing brackets
	HTC2WX	White HID-TConnect[2] chronothermostat for temperature control
	SWCX	Receiver / IoT switch SwitchConnect

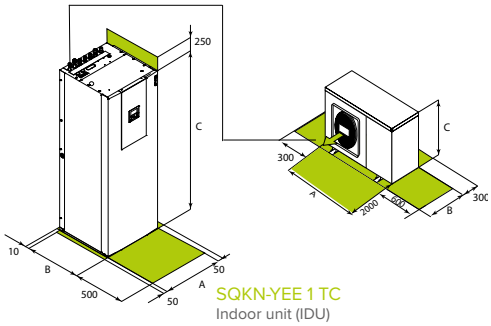
technical data

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

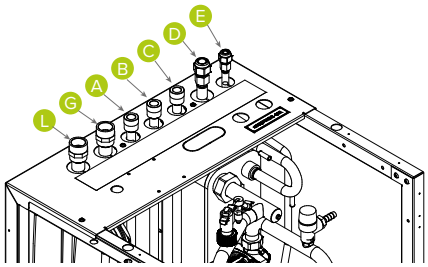
dimensions and connections



SQKN-YEE 1 TC
Indoor unit (IDU)

MiSAN-YEE 1 S
Outdoor unit (ODU)

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



- **L.** Refrigerant - liquid pipe
- **G.** Refrigerant - gas pipe
- **A.** Domestic hot water - hot water outlet
- **B.** Domestic hot water - circulation inlet
- **C.** Domestic hot water - cold water inlet
- **D.** System - water return
- **E.** System - water supply

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

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

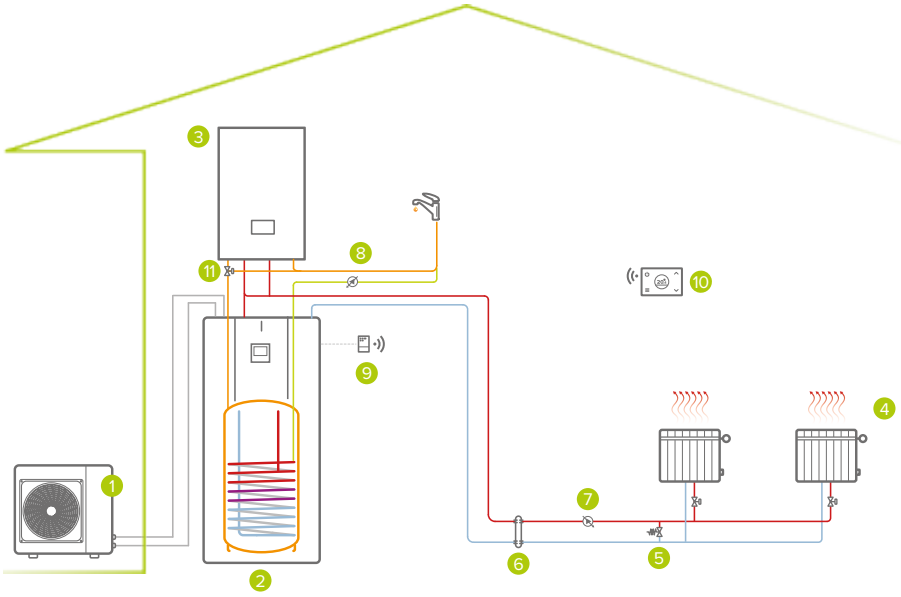
Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281). Energy classes with Control4 NRG system control

(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	6.1	7.1	8.1
Dimensions	Indoor unit ACS190	AxCxB	mm	600x1.694x615					-	
	Indoor unit ACS250	AxCxB	mm				600x2.004x615			
	Outdoor unit	AxCxB	mm	920x712x400				1.042x866x444		
Operating weight	Indoor unit ACS190		kg		359				-	
	Indoor unit ACS250		kg		419				421	
	Outdoor unit		kg	58			77		112	
Max / min equivalent length		L	m				30 / 2			
Max difference in level ODU / IDU		H	m				25			
Refrigerant precharge			type / GWP				R-32 / 675			
			kg	1,50			1,65		1,84	
			CO^2 tons	1,05			1,10		1,24	
Equivalent pipe length with pre-charging only			m				15			
External diameters	Refrigerant piping	Liquid	inch	1/4”				3/8”		
		Gas	inch				5/8”			
	Indoor unit	Water (System)	inch				1”			
		Water (DHW)	inch				3/4”			

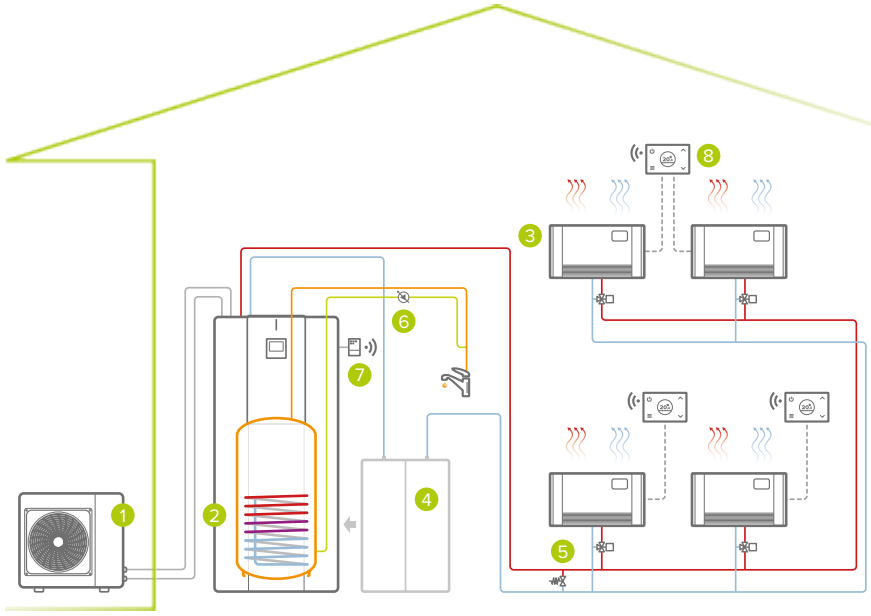
Check in the manual if the indoor unit requires a minimum installation surface

system diagrams



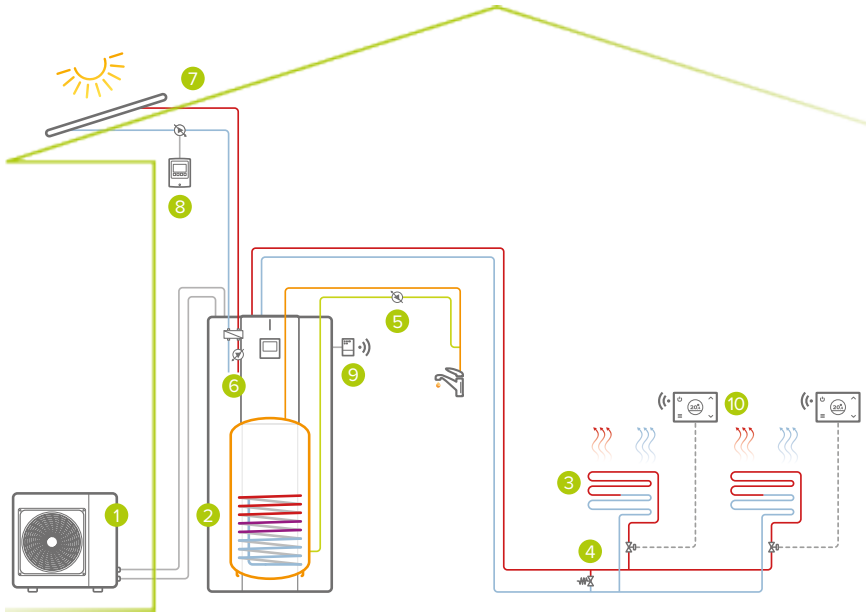
Hybrid single-zone system:
Heating / DHW

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



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

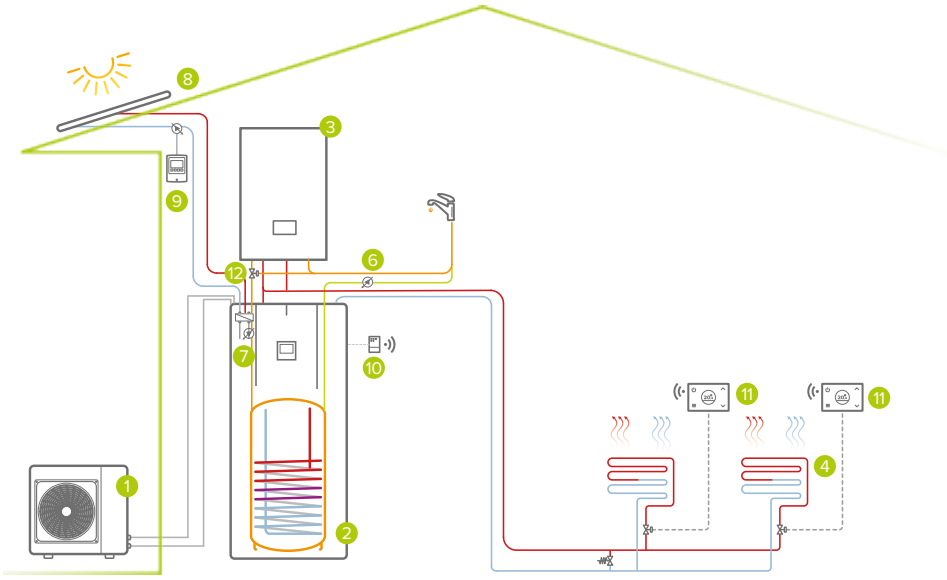
1. outdoor unit
2. indoor unit
3. heating/cooling zone
4. system inertial storage (optional)
5. bypass*
6. DHW recirculation pump*
7. SwitchConnect Wi-Fi receiver (optional)
8. HID-TConnect2 Wi-Fi chronothermostat (optional)



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

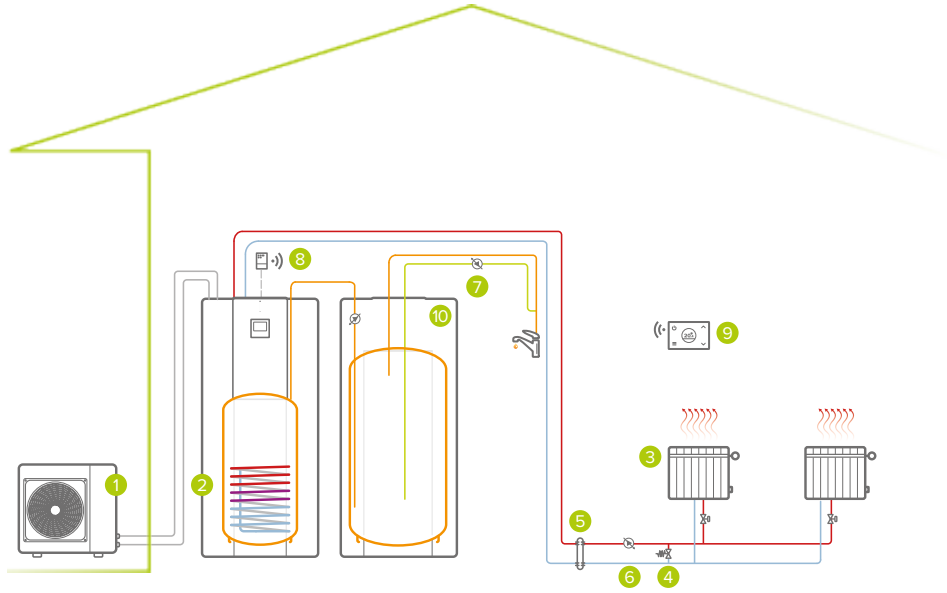
1. outdoor unit
2. indoor unit
3. heating/cooling zone
4. bypass*
5. DHW recirculation pump*
6. solar connection kit (optional)
7. ELFOSun^3 thermal solar (optional)
8. solar circulation kit (optional)
9. SwitchConnect Wi-Fi receiver (optional)
10. HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply



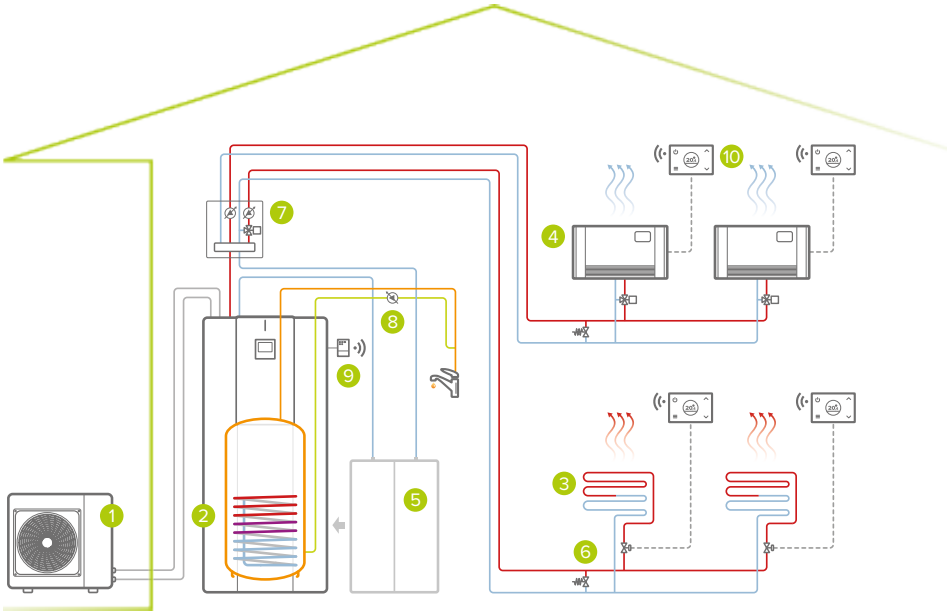
Hybrid single-area system with thermal solar:
Heating / Cooling / DHW

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



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

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



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

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

Note: solar connection kit and booster kit can coexist

*from external supply

SPHERA EVO 2.0 Box

SQKN-YEE 1 BC + MiSAN-YEE 1 S 2.1÷8.1

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

ENERGY SAVING

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

COMFORT

- Hot Cold
- DHW
- Silent

RELIABILITY

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

HEALTH

- Renewable Energy (Full electric version)

CONVENIENCE

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

MANAGEMENT AND CONNECTIVITY

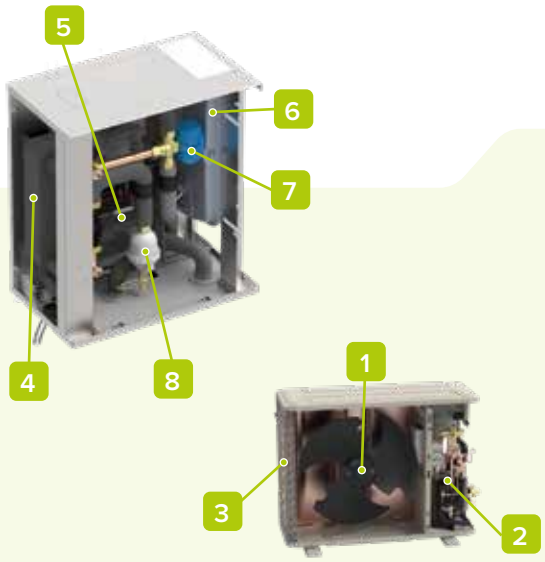
- Input ON/OFF
- Port Modbus
- Control via App
- Control4 NRG management
- Clivet Eye monitoring
- User interface / thermostat

TOP SYSTEM EFFICIENCY ErP 55°C A++ 35°C A+++

- ✓ 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. 8L system expansion tank
7. 3-way valve
8. Magnetic dirt separator filter

configurations

OUTDOOR UNIT POWER SUPPLY (size 6.1÷8.1):

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

PUMP:

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

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

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

accessories

	ACS200X	200 liter DHW tank
	ACS300X	300 liter DHW tank
	ACS500X	500 liter DHW tank
	SCS08X	Solar coil for ACS200X/ACS300X DHW tank
	SCS12X	Solar coil for ACS500X DHW tank
	KCSX	Kit for secondary circuit (1 liter circuit breaker + circulation pump)
	KIRE2HLX	Two-zone distribution kit: direct + mixed
	KIRE2HX	Double zone distribution unit: direct + direct
	DIX	1 liter hydraulic separator
	ACI40X	40 liter system inertial storage tank
	DI50-2X	50 liter hydraulic separator
	KCCEX	Kit for management of a 2-pipe boiler in heating and DHW mode
	KCCE4X	Kit for management of an instantaneous boiler in heating and DHW mode
	T1BX	10m water temperature probe
	T1B30X	30m water temperature probe

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

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

Size - Indoor unit					A					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						
Expansion tank capacity				l	8						
Sound power		Nominal		dB(A)	41						
Sound pressure @1m		Nominal		dB(A)	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
		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

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

|b|Sizes - Indoor unit|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	
Expansion tank capacity				l		8	
Sound power			Nominal	dB(A)		41	
Sound pressure @1m			Nominal	dB(A)		26	

|b|Sizes - Outdoor unit|b|					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		
		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		

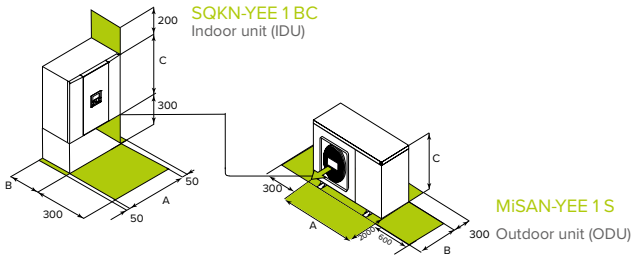
Data according to EN 14511:2018 and EN 14825:2016

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

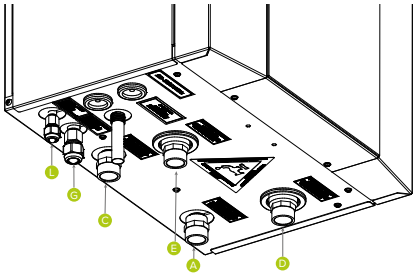
dimensions and connections

Size				2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	Indoor unit	AxCxB	mm	547x604x386						
	Outdoor unit	AxCxB	mm	920x712x400				1.042x866x444		
Weight	Indoor unit		kg	52					54	
	Outdoor unit		kg	58		77			112	
Max / min equivalent length		L	m	30 / 2						
Max difference in level ODU / IDU		H	m	25						
Refrigerant precharge			type / GWP	R-32 / 675						
			kg	1,50		1,65			1,84	
			CO^2 tons	1,05		1,10			1,24	
Equivalent pipe length with pre-charging only			m	15						
External dia-meters	Refrigerant piping	Liquid	inch	1/4"				3/8"		
		Gas	inch	5/8"						
	Indoor unit	Water (System)	inch	1"						
		Water (DHW)	inch	3/4"						

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

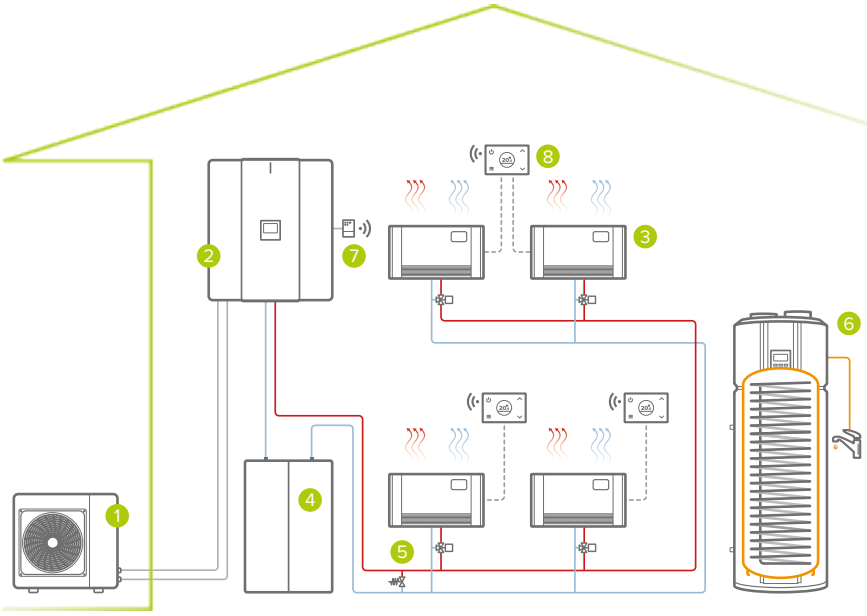


For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.



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

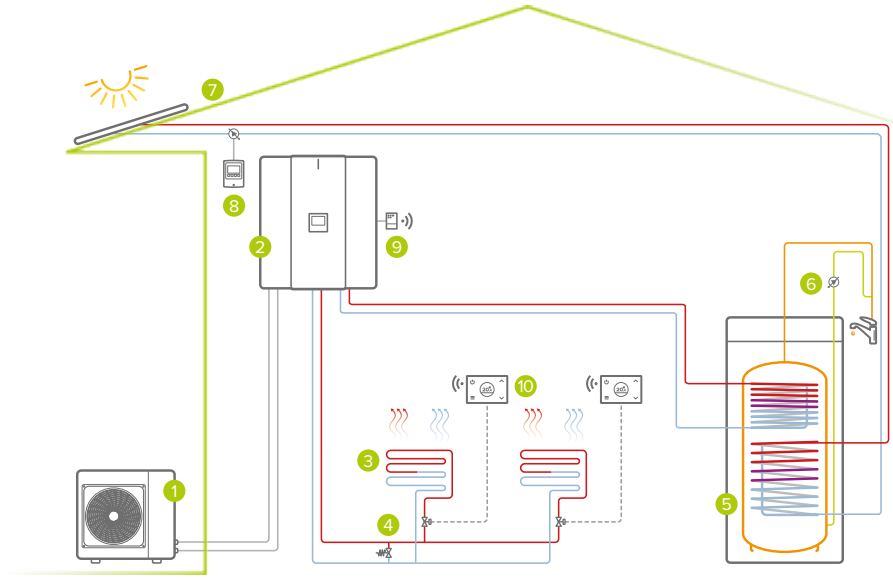
system diagrams



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

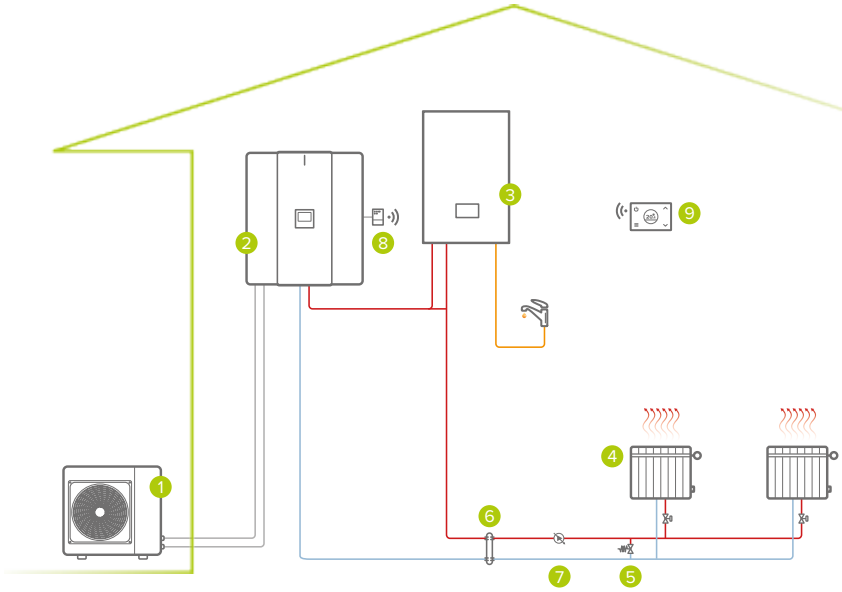
1. outdoor unit
2. indoor unit
3. heating/cooling zone
4. system inertial storage (optional)
5. bypass*
6. heat pump for DHW
7. SwitchConnect Wi-Fi receiver (optional)
8. HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply



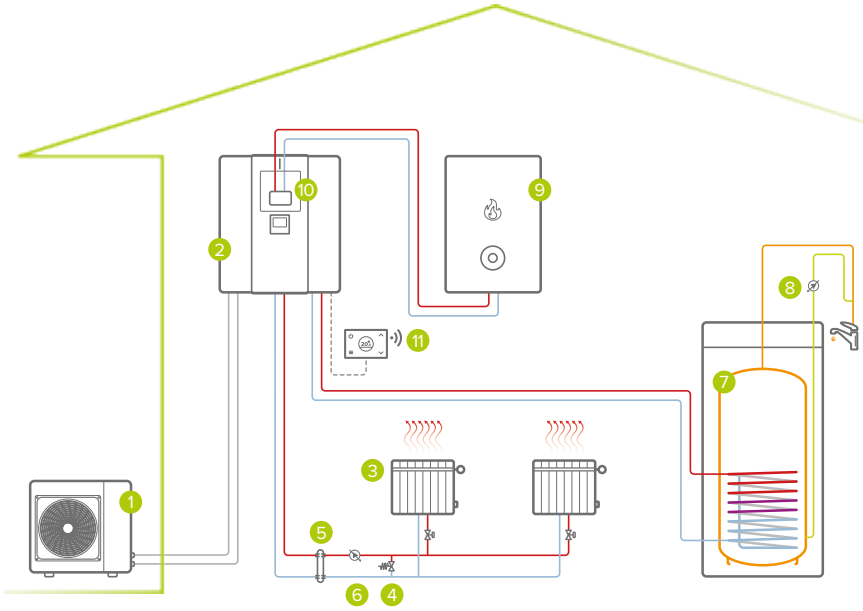
Full electric single-area system with thermal solar:
Heating / Cooling / DHW

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

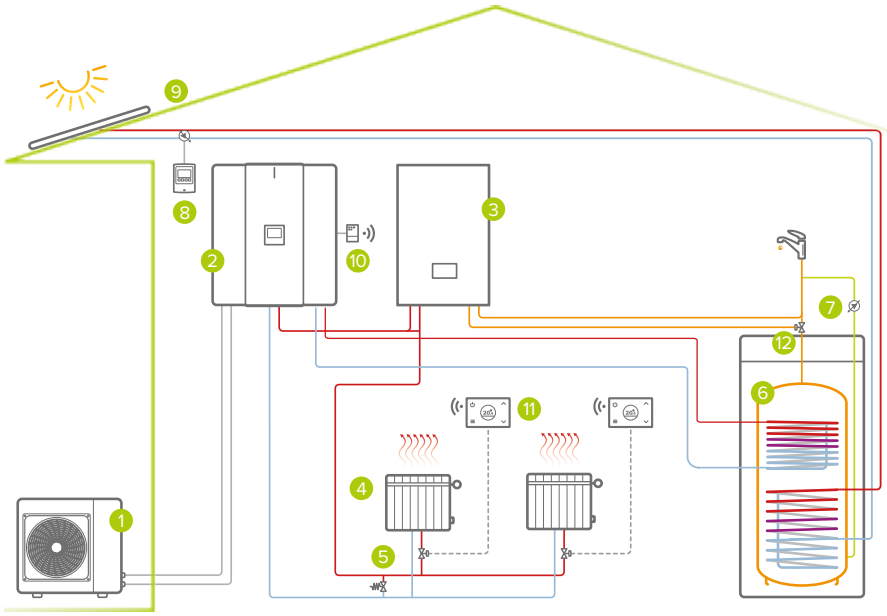
1. outdoor unit
2. indoor unit
3. instantaneous boiler (Hybrid version)
4. heating area
5. bypass*
6. hydraulic separator (optional)
7. secondary circuit pump*
8. SwitchConnect Wi-Fi receiver (optional)
9. HID-TConnect2 Wi-Fi chronothermostat (optional)



Hybrid single-zone system:
Heating / DHW

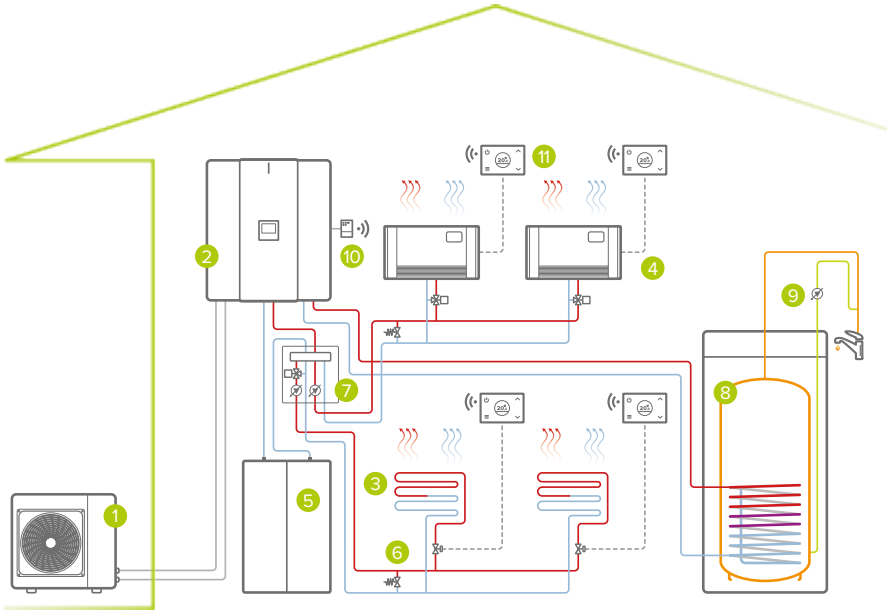
1. outdoor unit
2. indoor unit
3. heating area
4. bypass*
5. hydraulic separator (optional)
6. secondary circuit pump*
7. DHW tank (optional)
8. DHW recirculation pump*
9. boiler heating only*
10. kit for management of a boiler from another supplier
11. (optional)
    HID-TConnect2 Wi-Fi chronothermostat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

*from external supply



Hybrid single-zone system:
Heating / Cooling / DHW

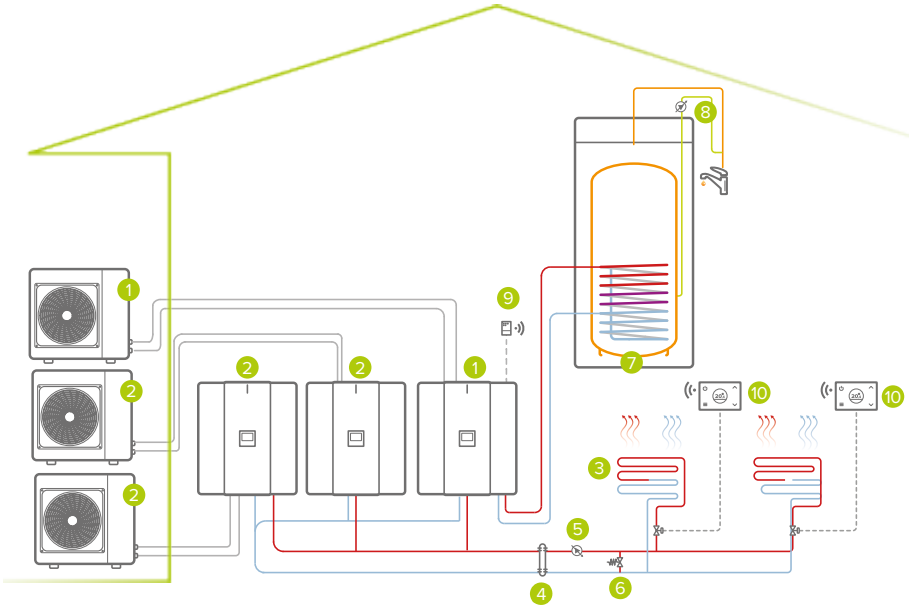
1. outdoor unit
2. indoor unit
3. instantaneous boiler (Hybrid version)
4. heating area
5. bypass*
6. DHW tank with solar predisposition (optional)
7. DHW recirculation pump*
8. kit di circolazione solare (opzionale)
9. ELFOSun³ thermal solar (optional)
10. SwitchConnect Wi-Fi receiver (optional)
11.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

* available in the Hybrid version with FE 24.4 BOILER

Uncased air-to-water 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)
- Keymark 025
- ProdottiQualità CasaClima

HEALTH
- Energy renewable (Full electric version)

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

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

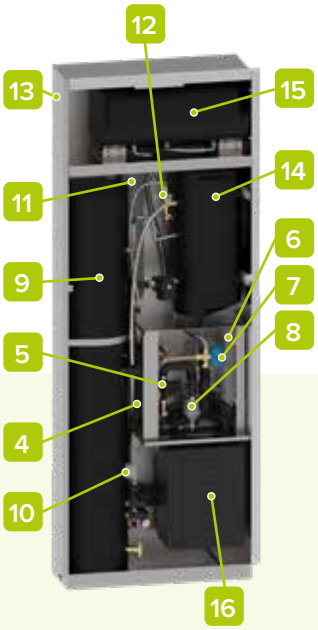
TOP SYSTEM EFFICIENCY ErP 55°C A++ L A+

- ✓ 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
- ✓ Compact outdoor unit requiring very little installation space
- ✓ Advanced connectivity: management via the dedicated Smart Home App or via the Modbus port with Control4 NRG standard supplied

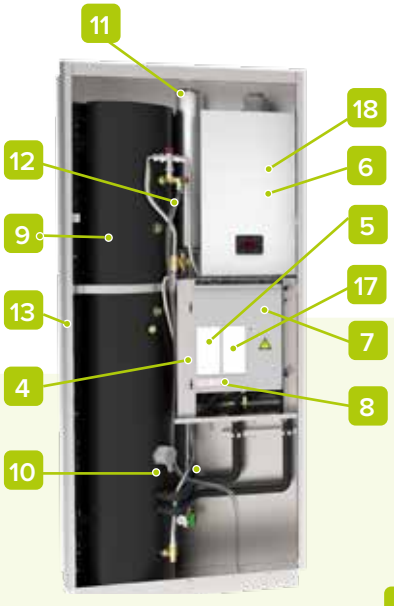
Optimize the space

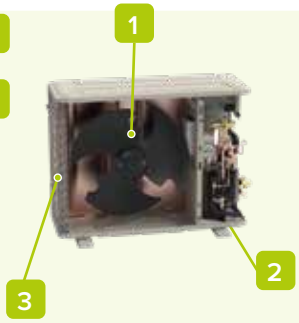
SPHERA EVO 2.0 Invisible is the ideal choice for all homes that do not have a technical room and which need to make the unit invisible by embedding it in the wall.
The cabinet has an adjustable telescopic frame and can be painted to make the unit disappear completely.

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

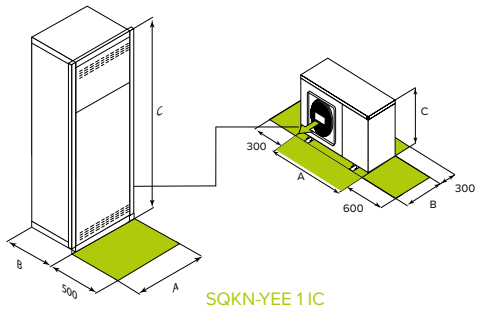
	ADIX	Main in-wall cabinet for Sphera EVO 2.0 Invisible
	ACS150X	150 liter DHW tank
	KCIACSX	SPHERA Invisible IC DHW tank connection kit

accessories

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

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. 8L system expansion tank
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
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)

dimensions and connections



MiSAN-YEE 1 S
Outdoor unit (ODU)

SQKN-YEE 1 IC
Indoor unit (IDU)

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

technical data

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

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

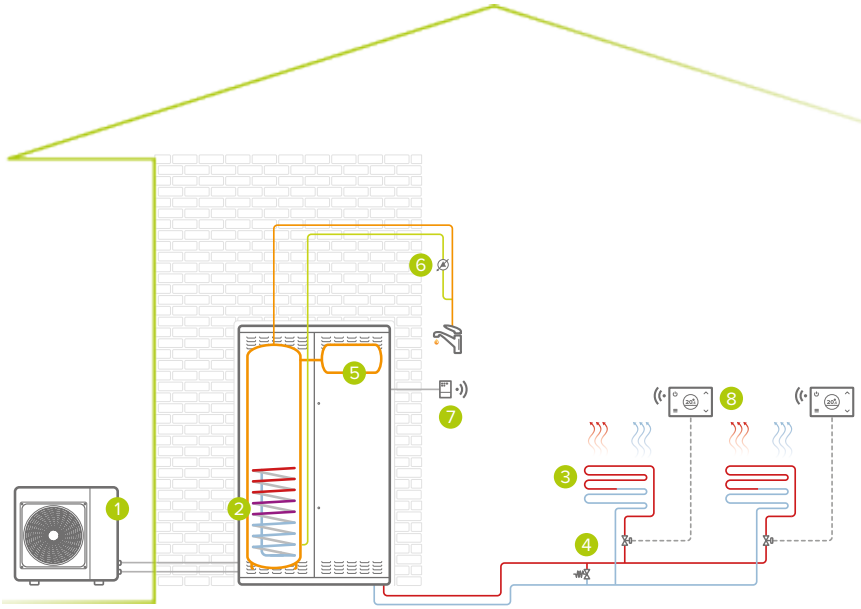
Data according to EN 14511:2018 and EN 14825:2016
The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281). Energy classes with Control4 NRG system control

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

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

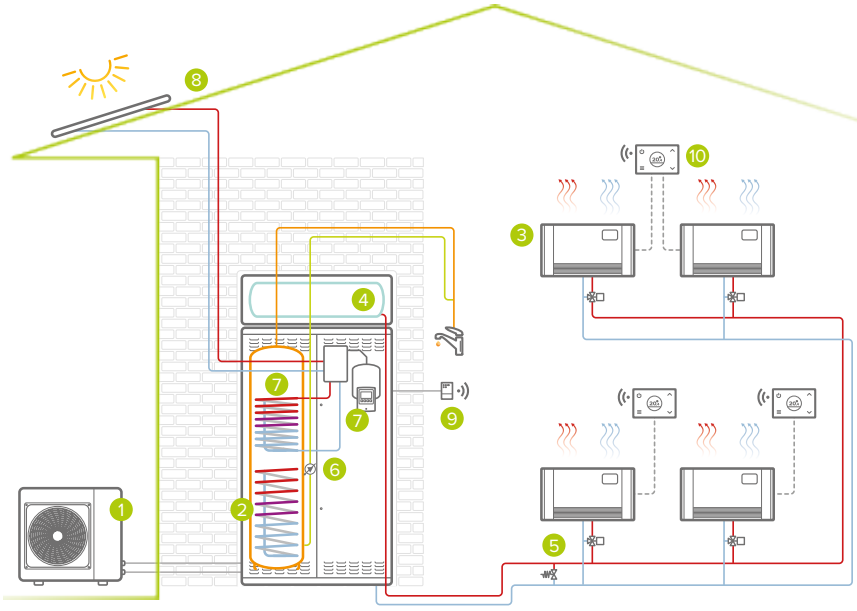
Check in the manual if the indoor unit requires a minimum installation surface

system diagrams



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

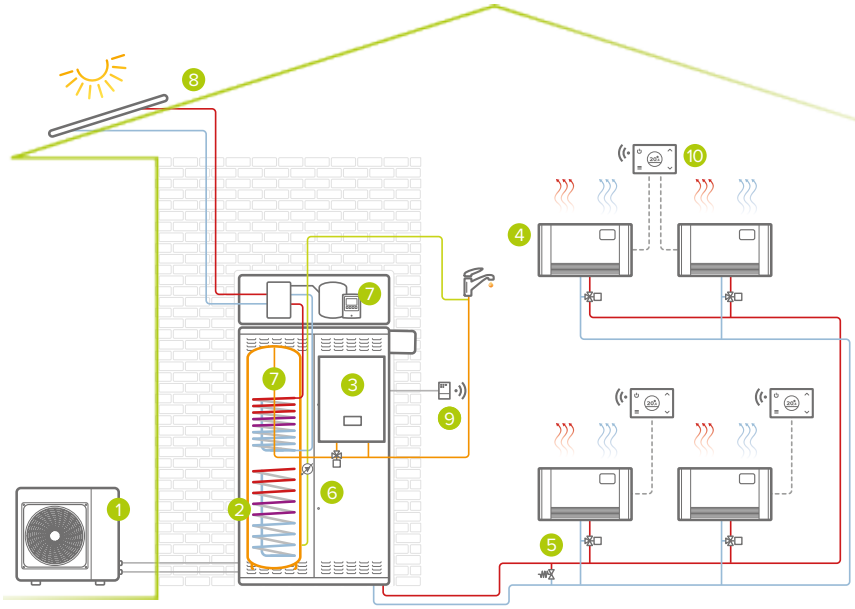
1. outdoor unit
2. indoor unit
3. heating/cooling zone
4. bypass*
5. additional DHW tank
6. DHW recirculation pump*
7. SwitchConnect Wi-Fi receiver (optional)
8. HID-TConnect2 Wi-Fi chronothermostat (optional)



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

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

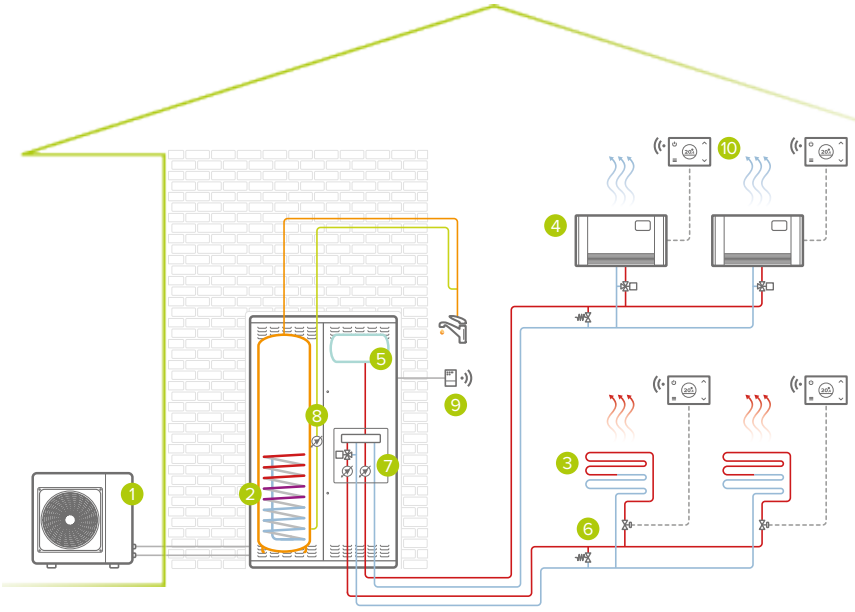
*from external supply



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

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

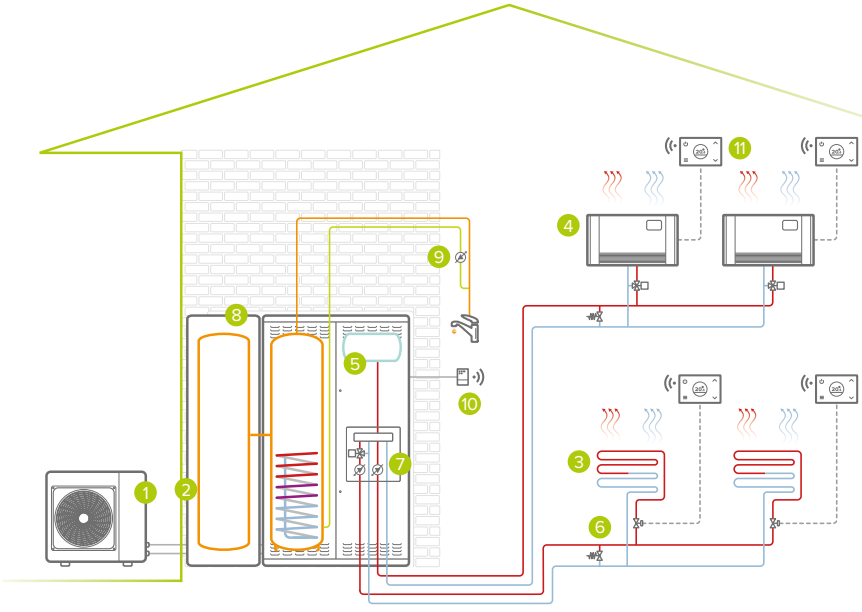
Note:
- *flue to be fitted on the side or back*



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

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

*from external supply



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

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

*from external supply

TECHNICAL INSIGHT

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

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

SPHERA EVO 2.0 EASYHybrid Box

SQKN-YEE 1 BH + MiSAN-YEE 1 S 2.1÷8.1

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

ENERGY SAVING

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

COMFORT

- Hot Cold
- DHW
- Silent

CONVENIENCE

- Weekley Timer
- Contemporaneity
- Instant DHW

MANAGEMENT AND CONNECTIVITY

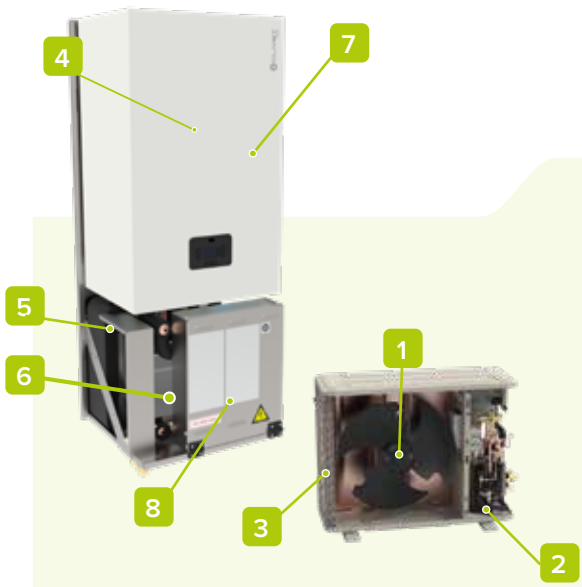
- Input ON/OFF
- Port Modbus
- Control via App
- Control4 NRG management
- Clivet Eye monitoring

TOP SYSTEM EFFICIENCY ErP 55°C A++ XL A

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

The €/Switch function

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



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

configurations

OUTDOOR UNIT POWER SUPPLY (SIZES 6.1 TO 8.1):

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

INTEGRATED CONDENSING BOILER:

HYFE24	24 kW instantaneous boiler
HYFE34	34 kW instantaneous boiler

Note: boiler to be selected separately

accessories

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

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

technical data

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

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

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

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

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

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

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

dimensions and connections

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

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

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

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

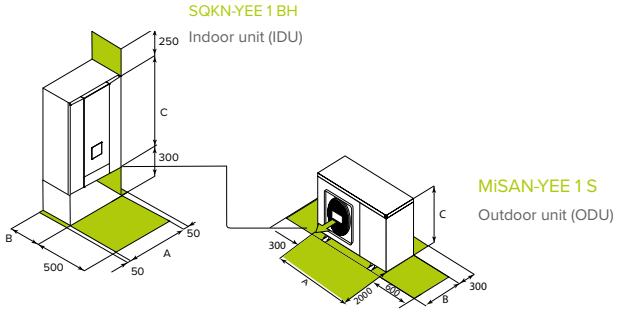
HYFE boiler						**34**	
Power supply		Voltage/Frequency/Phases		V/Hz/n°		230/50/1	
Power input			Water content	W		99	

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

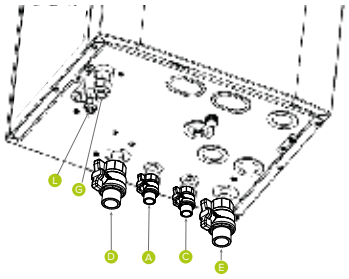
Operating range							
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C		25 / 65	
		Hybrid	Minimum / Maximum	°C		25 / 80	
	Cooling	-	Minimum / Maximum	°C		5 / 25	
Operating range (Outdoor air)	Heating	-	Minimum / Maximum	°C		-25 / 35	
	DHW	-	Minimum / Maximum	°C		-25 / 43	
	Cooling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

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

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

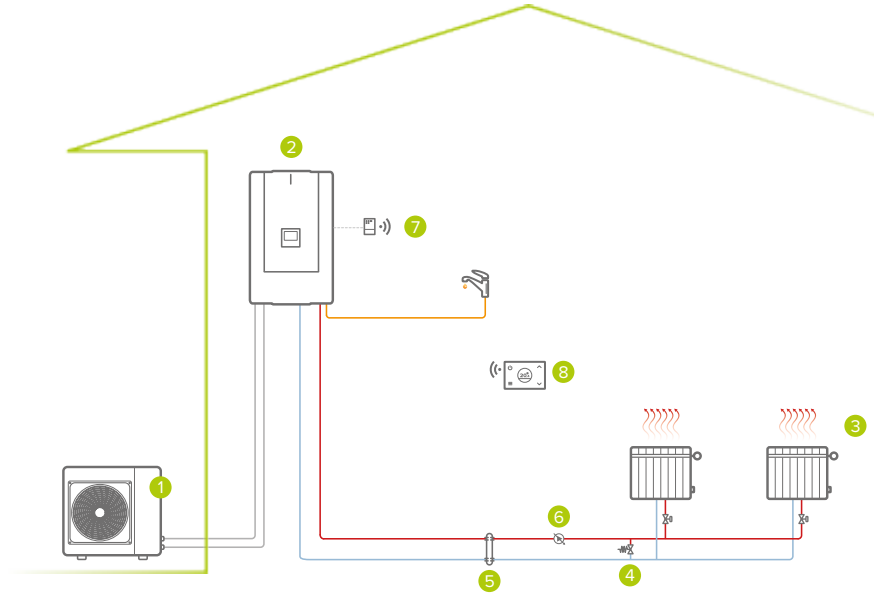


For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.



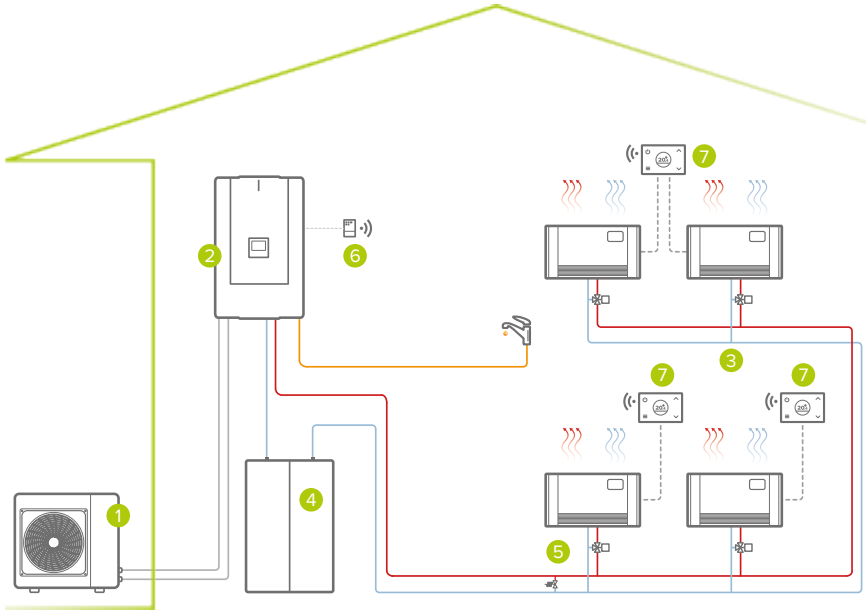
- **L.** Refrigerant - liquid pipe
- **G.** Refrigerant - gas pipe
- **A.** Domestic hot water - supply to external exchanger
- **C.** Domestic hot water - return from external exchanger
- **D.** System - water return
- **E.** System - water supply

system diagrams



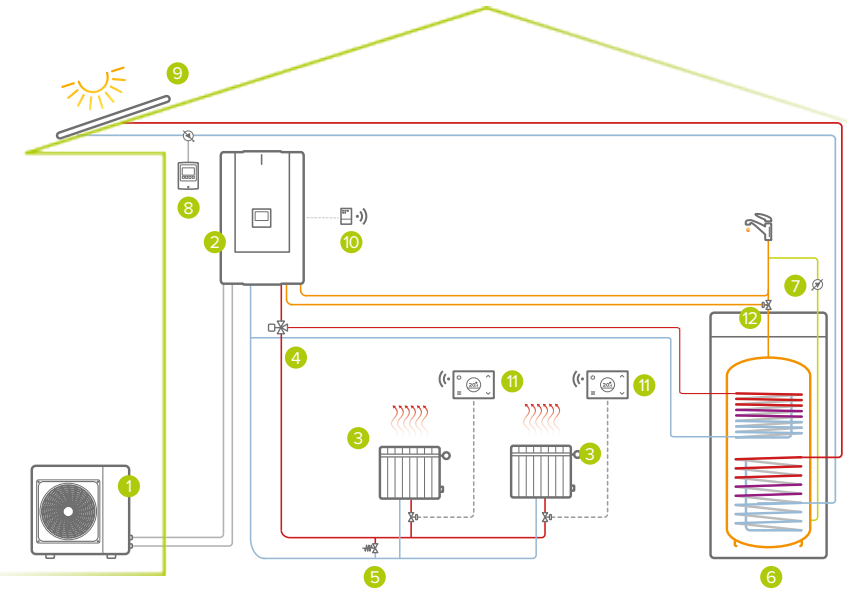
Hybrid single-zone system:
Heating / DHW

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



Hybrid single-zone system:
Heating / Cooling / DHW

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



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

1. outdoor unit
2. indoor hybrid unit
3. heating area
4. 3-way switching valve (optional)
5. bypass*
6. DHW boiler with solar coil (optional)
7. DHW recirculation pump*
8. kit di circolazione solare (opzionale)
9. 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

TH configuration with accessories cabinet

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

ENERGY SAVING

Integration Heating/DHW

€-Switch

COMFORT

Hot Cold

DHW

Silent

CONVENIENCE

Weekley Timer

Integrated DHW tank

Instant DHW

MANAGEMENT AND CONNECTIVITY

Input ON/OFF

Port Modbus

Control via App

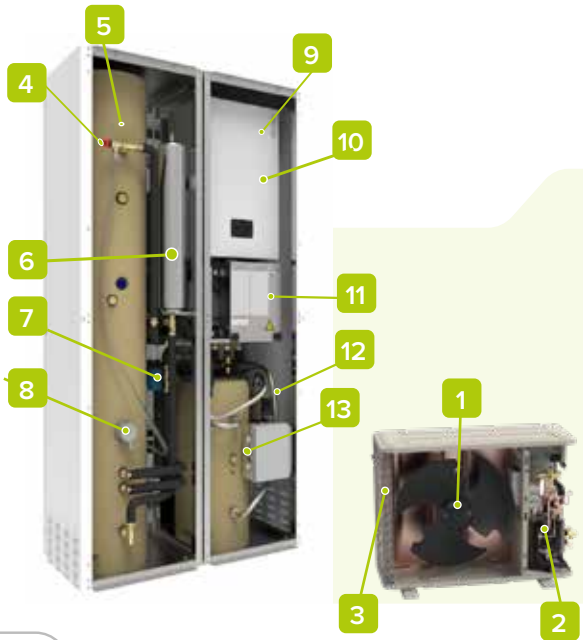
Control4 NRG management

Clivet Eye monitoring

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

Flexible and compact

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



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

configurations

OUTDOOR UNIT POWER SUPPLY (SIZES 6.1 TO 8.1):

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

INTEGRATED CONDENSING BOILER:

HYFE24	24 kW instantaneous boiler
HYFE34	34 kW instantaneous boiler

Note: boiler to be selected separately

accessories

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

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

technical data

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

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

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

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

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

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

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

dimensions and connections

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

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

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

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

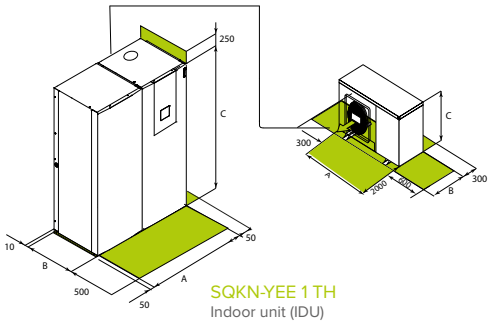
HYFE boiler					**34**
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1
Power input			Water content	W	99

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

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

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

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

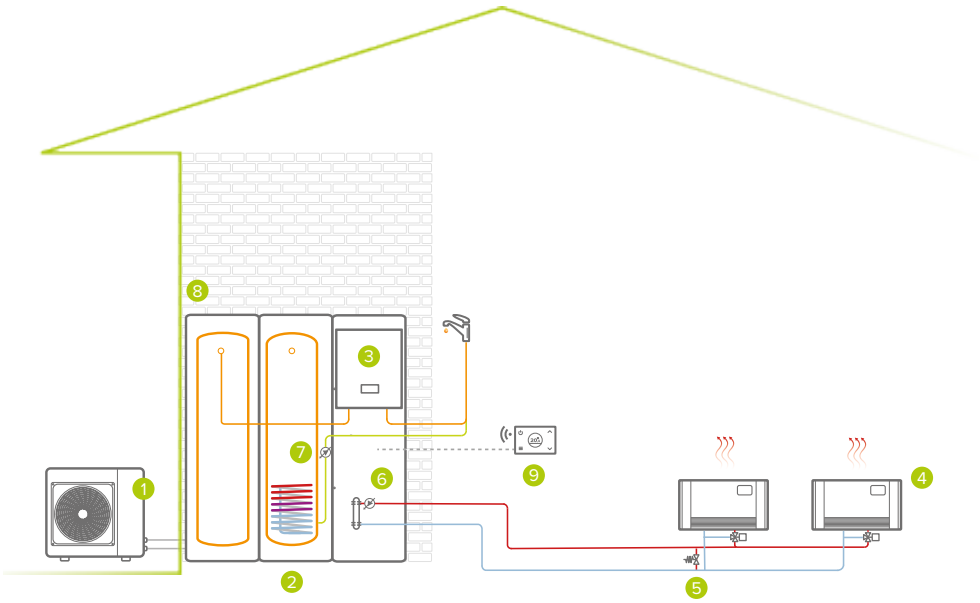


MiSAN-YEE 1 S
Outdoor unit (ODU)

SQKN-YEE 1 TH
Indoor unit (IDU)

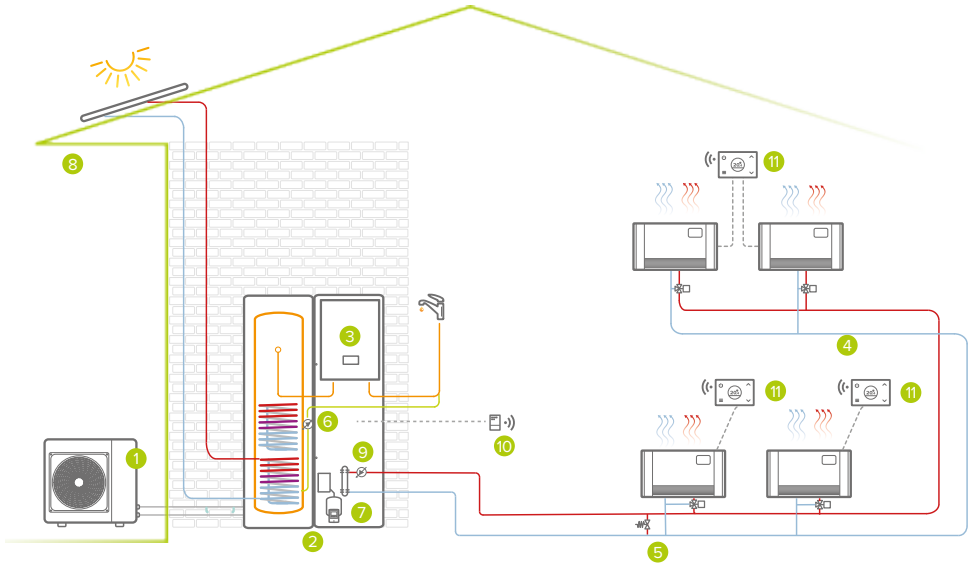
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

system diagrams



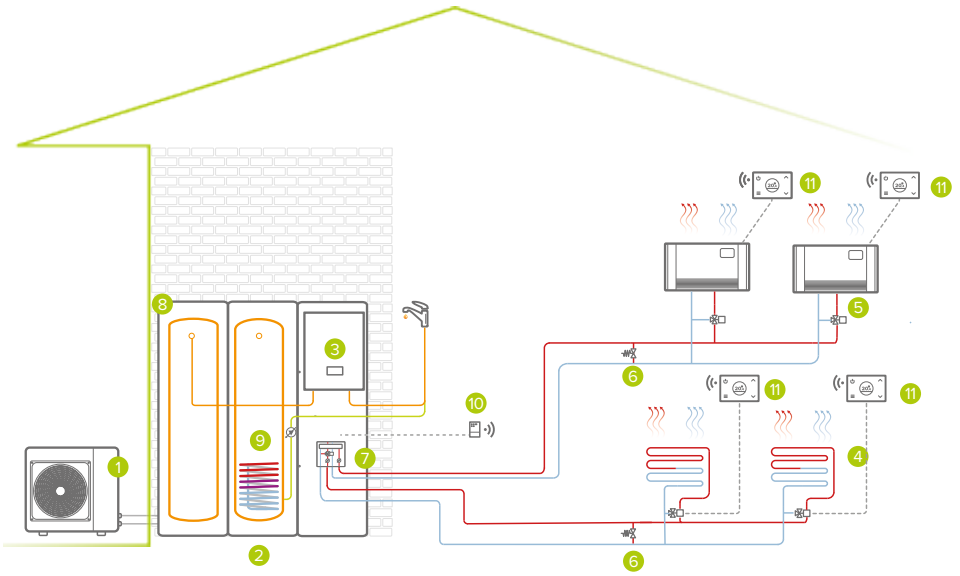
Hybrid single-zone system:
Heating / DHW

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



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

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



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

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

*from external supply

MONOBLOC

Edge EVO 2.0 - EXC

Edge F*NEW*

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)
- Keymark 041
- ProdottiQualità CasaClima

HEALTH

- Renewable Energy (Full electric version)

CONVENIENCE

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

MANAGEMENT AND CONNECTIVITY

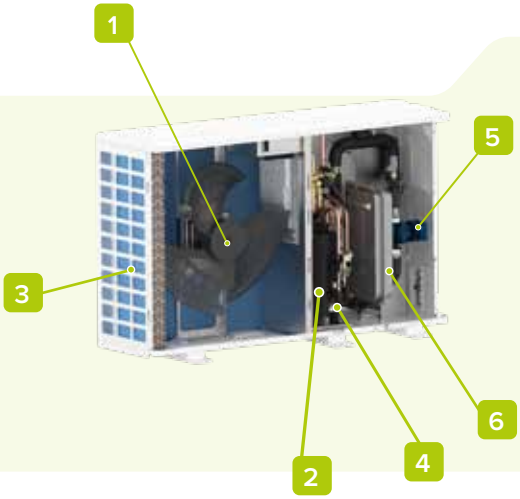
- Input ON/OFF
- User interface/ thermostat
- Port Modbus
- Control via App
- Control4 NRG management
- Clivet Eye monitoring
- Energy metering

TOP SYSTEM EFFICIENCY ErP 55°C A++ 35°C A+++

- Space saving: installed outdoors, no indoor unit is required
- 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 Smart Home App or via the Modbus port with Control4 NRG standard supplied

Senza pensieri

Edge EVO 2.0 - EXC **Hybrid version** is the solution designed for upgrading old generators without having to alter the system. The system is in fact extremely versatile and able to adapt to whatever already exists: it simply replaces the generator that produces Heating and Domestic Hot Water, improving comfort and efficiency, as well as ensuring peace of mind.



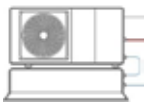
1. Inverter DC fan
2. Inverter DC twin-rotary compressor
3. Air-gas finned exchanger (blue fin treatment)
4. Gas/water plate exchanger
5. Inverter DC high efficiency pump
6. 4.8-litre system expansion tank

configurations

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

-	**No heater (standard)**
IBH	Back-up electric heater (only available for WiSAN-YME 1 S 2.1-8.1)

accessories

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

technical data

Size					2.1	3.1	4.1	5.1	6.1	7.1	8.1
Heating	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**4,20 / 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
Electrical power for meter sizing				kW	2,30	2,70	3,40	3,70	5,50	5,80	6,20
Seasonal efficiency Medium climate	Heating Water 55 °C	Energy class		-	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**	**A++**
		Annual energy consumption		kWh/year	2.749	3.348	4.064	4.541	6.916	6.917	7.213
		SCOP		-	3,31	3,52	3,37	3,47	3,45	3,47	3,41
		ηs (seasonal output)		%	129	138	131	137	135	135	133
	Heating Water 35 °C	Energy class		-	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**
		Annual energy consumption		kWh/year	2.354	2.849	3.223	3.649	5.156	5.157	6.011
		SCOP		-	4,85	4,95	5,22	5,20	4,81	4,72	4,62
		ηs (seasonal output)		%	191	195	205	205	189	186	182

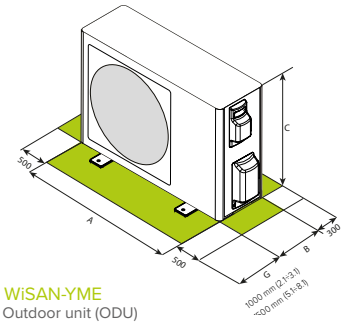
Technical specifications											
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1						
Water flow-rate		Water 35/30 °C	Nominal	l/s	0,20	0,30	0,40	0,48	0,58	0,69	0,76
Pump available pressure		Outdoor air 7 °C	Nominal	kPa	85	85	86	86	88	87	87
Minimum system water content				l	30				70		
Expansion 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			Minimum / Nominal	dB(A)	39 / 41	41 / 44	40 / 45	40 / 46	44 / 50	44 / 50	44 / 53

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).

dimensions and connections

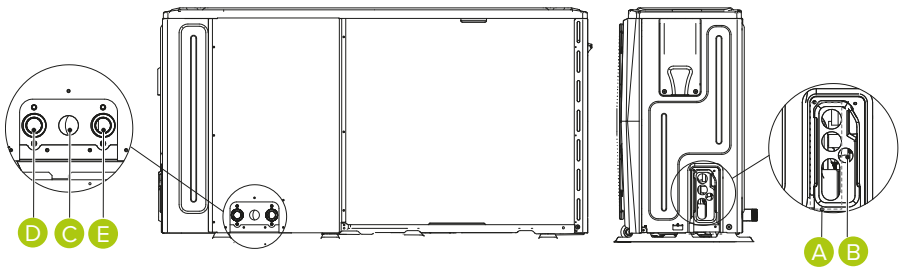
Size			2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	AxCxB	mm	1.295x717x400				1.385x864x445		
Weight		kg	86		105			129	
Refrigerant charge		type / GWP	R-32 / 675						
		kg	1,40					1,75	
		CO_2 tons	0,95					1,18	
External diameters	Water	inch	1”				1” 1/4		



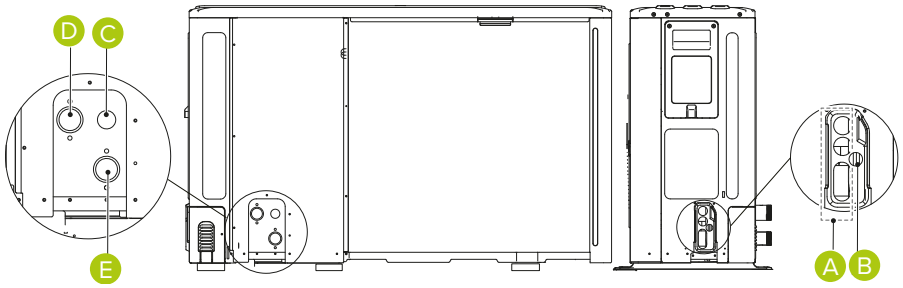
WiSAN-YME
Outdoor unit (ODU)

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

SIZES 2.1 to 3.1



SIZES 4.1 to 8.1



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

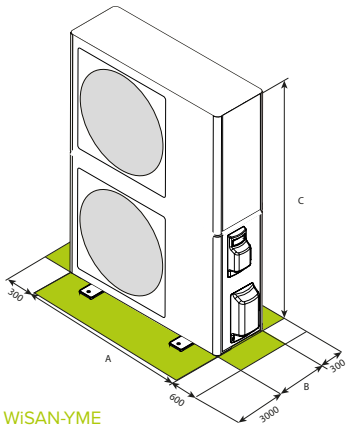
Size					6.1T	7.1T	8.1T	9.1	10.1	12.1	14.1
Heating	Capacity	Water 35/30 °C	Nominal / Maximum	kW	**12,1 / 14,6**	**14,5 / 15,5**	**15,9 / 16,8**	**18,0 / 20,7**	**22,0 / 24,9**	**26,0 / 29,1**	**30,1 / 31,8**
	COP	Outdoor air 7 °C	Nominal	-	4,95	4,60	4,50	4,70	4,40	4,08	3,91
	Capacity	Water 35/30 °C	Nominal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

Technical specifications											
Power supply		Voltage/Frequency/Phases		V/Hz/n°	400/50/3+N						
Water flow-rate		Water 35/30 °C	Nominal	l/s	0,58	0,69	0,76	0,86	1,05	1,25	1,44
Pump available pressure		Outdoor air 7 °C	Nominal	kPa	88	87	87	112	111	111	110
Minimum system water content				l	70				100		
Expansion tank capacity				l	4,8						
Sound power			Minimum / Nominal	dB(A)	59 / 65	59 / 65	59 / 68	63 / 70	62 / 72	70 / 74	73 / 77
Sound pressure @1m			Minimum / Nominal	dB(A)	44 / 50	44 / 50	44 / 53	48 / 55	46 / 56	54 / 58	57 / 61

Operating range											
Water supply temperature	Heating / DHW	Full electric	Minimum / Maximum	°C	25 / 65			25 / 60			
		Hybrid	Minimum / Maximum	°C	25 / 75			25 / 70			
	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			-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).

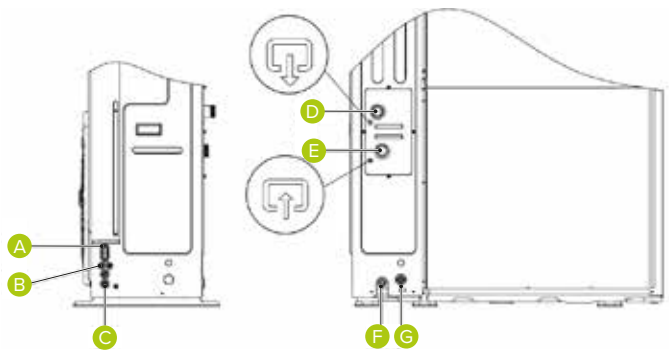
Size			6.1T	7.1T	8.1T	9.1	10.1	12.1	14.1
Dimensions	AxCxB	mm	1.385x864x445			1.120x1.557x445			
Weight		kg	144			177			
Refrigerant charge		type / GWP	R-32 / 675						
		kg	1,75			5,00			
		CO_2 tons	1,18			3,38			
External diameters	Water	inch	1" 1/4						



WiSAN-YME
Outdoor unit (ODU)

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

SIZES 9.1 to 14.1



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

Edge F

WiSAN-PME 1 S 2.1÷8.1

NEW PRODUCT

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)
- Keymark 041
- ProdottiQualità CasaClima

HEALTH

- Renewable Energy (Full electric version)
- Refrigerant ecological

CONVENIENCE

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

MANAGEMENT AND CONNECTIVITY

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

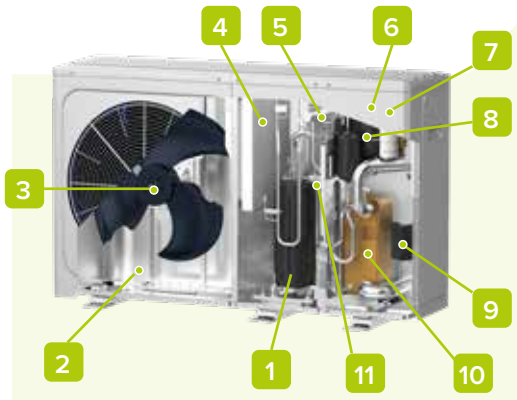
TOP SYSTEM EFFICIENCY ErP 55°C A++ 35°C A+++

- ✓ R-290 technology: combines high performance with full respect for the environment
- ✓ Space saving: installed outdoors, no indoor unit is required
- ✓ 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.

ECO refrigerant R290



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

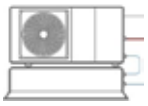
BACK-UP ELECTRIC HEATER (INTEGRATED IN THE UNIT):

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

mandatory accessories

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

accessories

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

technical data

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

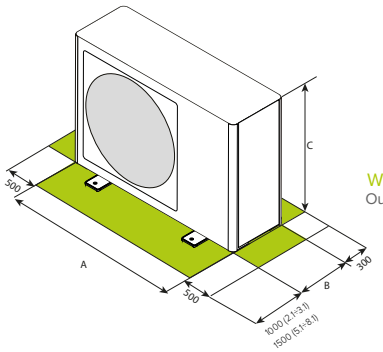
Technical specifications											
Power supply		Voltage/Frequency/Phases		V/Hz/n°	230/50/1						
Water flow-rate		Water 35/30°C	Nominal	l/s	0,21	0,30	0,40	0,48	0,57	0,67	0,71
Pump available pressure		Outdoor air 7°C	Nominal	kPa	85		86			88	
Minimum system water content				l	30				70		
Expansion tank capacity				l	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
		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 / 46
	Cooling	-	Minimum / Maximum	°C	-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

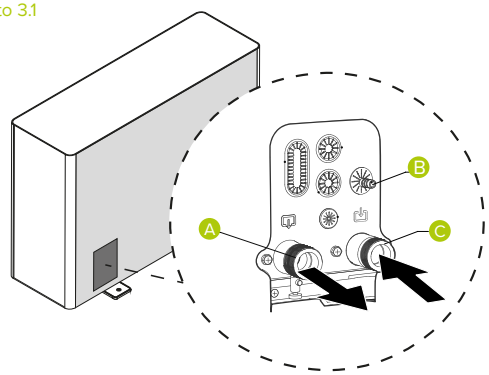
Size			2.1	3.1	4.1	5.1	6.1	7.1	8.1
Dimensions	AxCxB	mm	1.295x718x381				1.385x865x423		
Weight		kg	90		117			135	
Refrigerant charge		type / GWP				R-290 / 3			
		kg	0,70		1,10			1,25	
		CO_2 tons	0,002		0,003			0,004	
External diameters	Water	inch	1”				1” 1/4		



WiSAN-PME
Outdoor unit (ODU)

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

SIZES 2.1 to 3.1



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

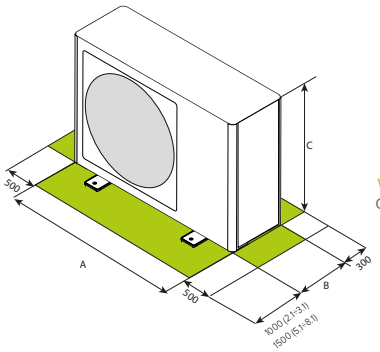
Size					6.1T	7.1T	8.1T
Heating	Capacity	Water 35/30°C	Nominal / Maximum	kW	**12,0 / 14,7**	**14,0 / 16,0**	**15,0 / 17,6**
	COP	Outdoor air 7°C	Nominal	-	4,80	4,50	4,40
	Capacity	Water 35/30°C	Nominal / Maximum	kW	10,0 / 11,1	11,5 / 12,1	12,7 / 13,2
	COP	Outdoor air -7°C	Nominal	-	2,80	2,70	2,50
	Capacity	Water 45/40°C	Nominal / Maximum	kW	12,0 / 14,1	14,0 / 15,3	15,0 / 16,9
	COP	Outdoor air 7°C	Nominal	-	3,70	3,50	3,35
Cooling	Capacity	Water 18/23°C	Nominal / Maximum	kW	**12,0 / 16,4**	**13,0 / 17,3**	**14,4 / 18,6**
	EER	Outdoor air 35°C	Nominal	-	4,50	4,20	3,90
	Capacity	Water 7/12°C	Nominal / Maximum	kW	11,5 / 12,0	12,7 / 12,7	14,0 / 14,3
	EER	Outdoor air 35°C	Nominal	-	3,05	2,90	2,75
Electrical power for meter sizing				kW	5,70	6,00	6,40
Seasonal efficiency Medium climate	Heating Water 55°C	Energy class		-	**A++**	**A++**	**A++**
		Annual energy consumption		kWh/year	6.847	7.414	8.349
		SCOP		-	3,62	3,62	3,57
		ηs (seasonal output)		%	141,8	141,9	139,9
	Heating Water 35°C	Energy class		-	**A+++**	**A+++**	**A+++**
		Annual energy consumption		kWh/year	5.376	6.091	6.630
		SCOP		-	4,68	4,64	4,59
		ηs (seasonal output)		%	184,0	182,4	180,6

Technical specifications							
Power supply		Voltage/Frequency/Phases		V/Hz/n°		400/50/3+N	
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		70	
Expansion tank capacity				l		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	
		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 / 46	
	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).

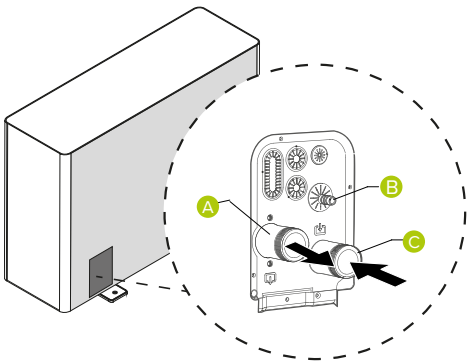
Size			6.1T	7.1T	8.1T
Dimensions	AxCxB	mm		1.385x865x423	
Weight		kg		137	
Refrigerant charge		type / GWP		R-290 / 3	
		kg		1,25	
		CO_2 tons		0,004	
External diameters	Water	inch		1" 1/4	



WiSAN-PME
Outdoor unit (ODU)

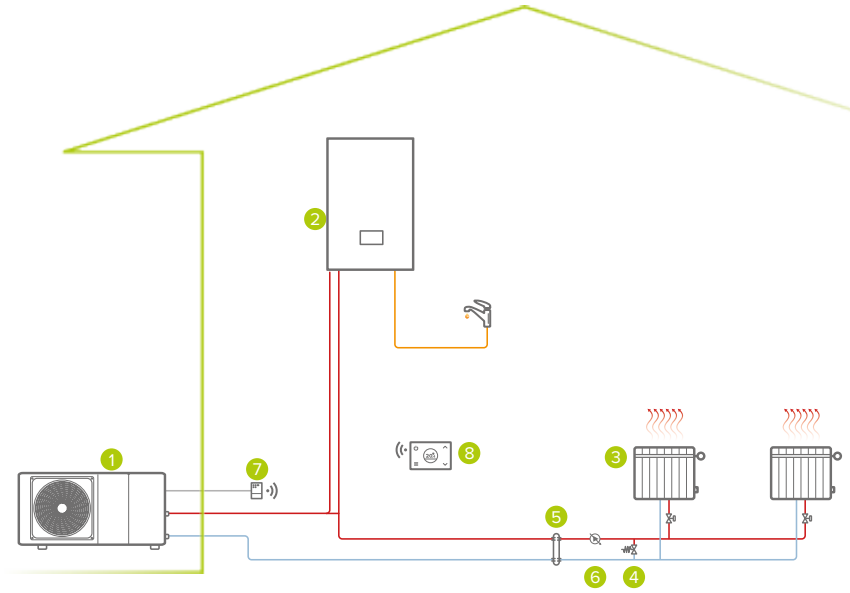
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

SIZES 4.1 to 8.1



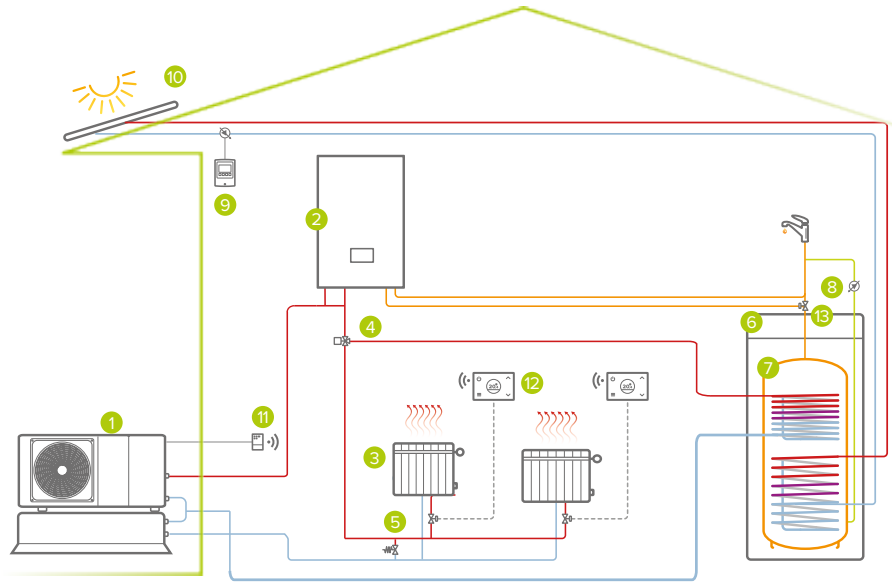
A. 1 1/4" system supply
B. Pressure relief valve Ø 16mm
C. 1 1/4" system return

system diagrams



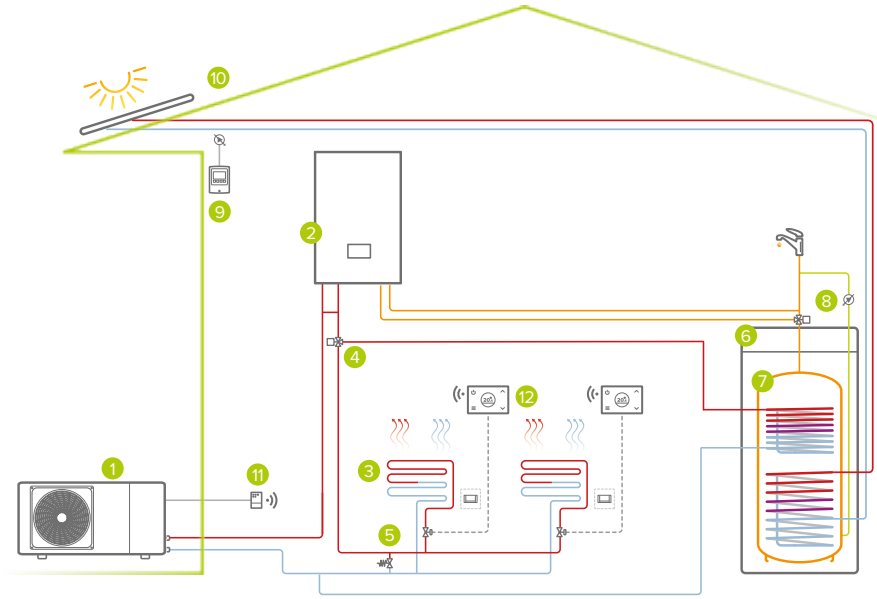
Hybrid single-zone system:
Heating / DHW

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



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

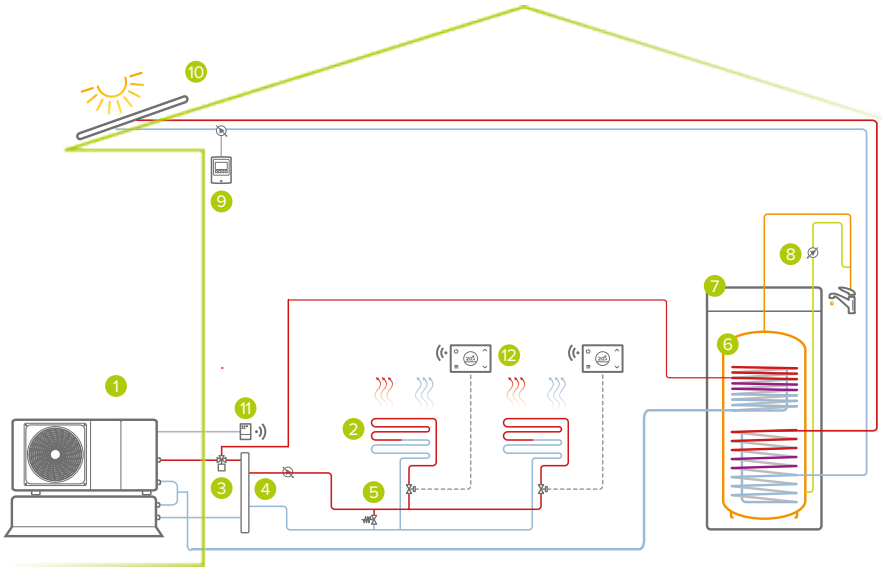
1. outdoor unit
2. instantaneous boiler *(Hybrid version)*
3. heating/cooling zone
4. 3-way switching valve (optional)
5. bypass*
6. boiler connection kit (optional)
7. DHW boiler with solar coil (optional)
8. DHW recirculation pump (optional)
9. kit di circolazione solare (opzionale)
10. ELFOSun^3 thermal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



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

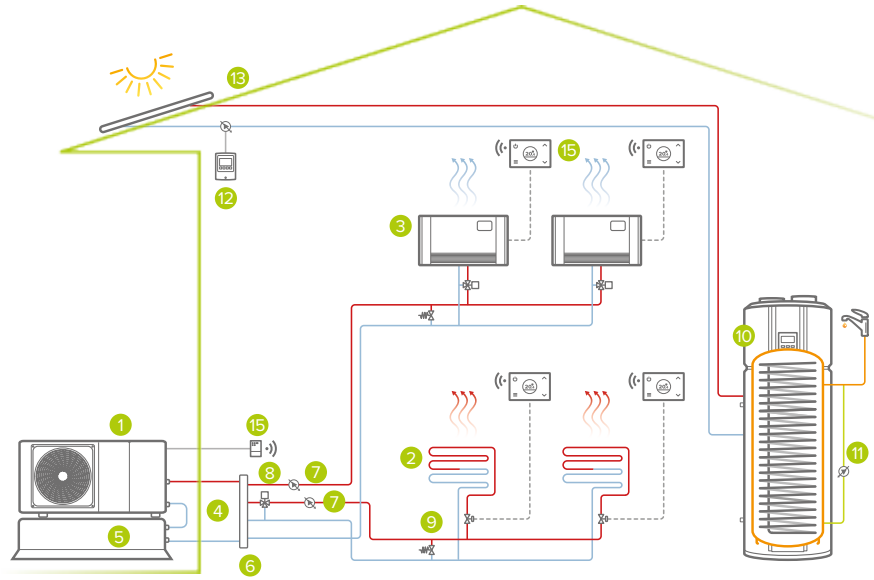
1. outdoor unit
2. boiler
3. heating/cooling zone
4. 3-way switching valve (optional)
5. bypass*
6. boiler kit connection QERAX (optional)
7. DHW tank with solar predisposition (optional)
8. DHW recirculation pump*
9. kit di circolazione solare (opzionale)
10. ELFOSun^3 thermal solar (optional)
11. SwitchConnect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

*from external supply



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

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

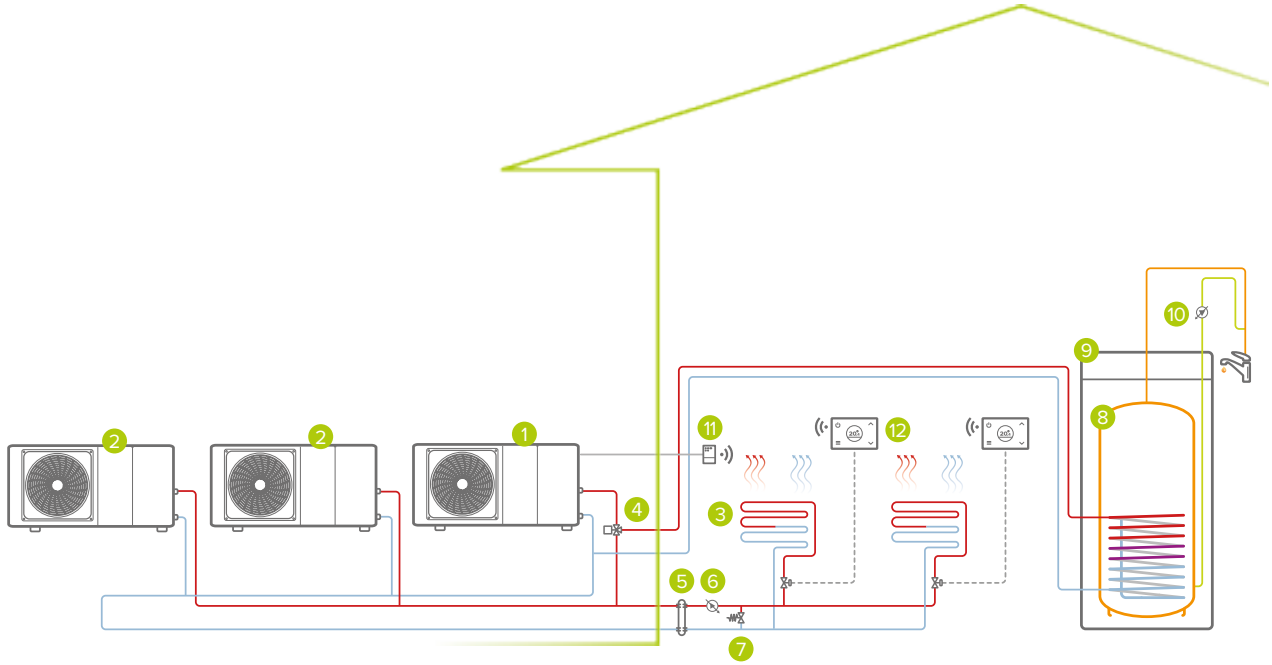


Full electric two-area system with thermal solar:
Heating / Cooling / DHW

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. ELFOSun^3 thermal solar (optional)
14. SwitchConnect Wi-Fi receiver (optional)
15. HID-TConnect2 Wi-Fi chronothermostat (optional)

*from external supply

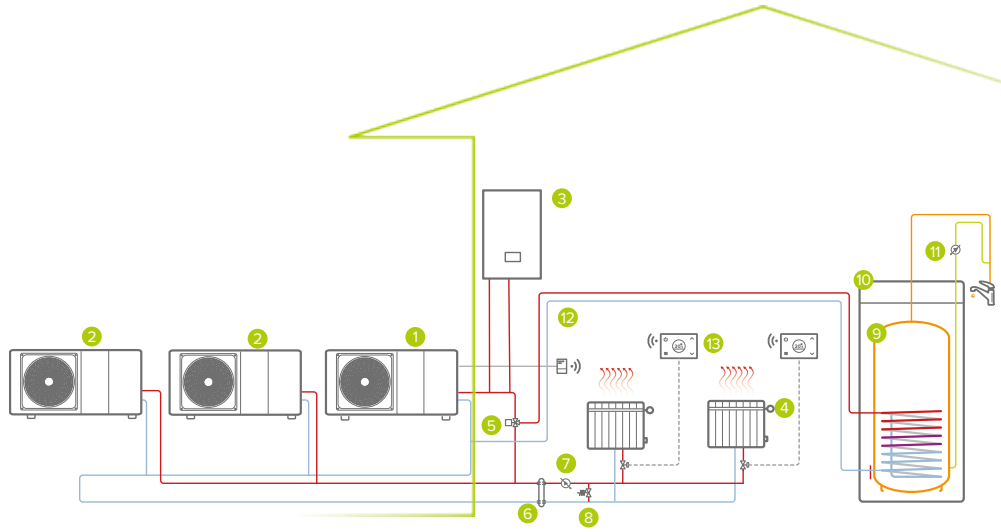
system diagrams



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

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

*from external supply



Hybrid single-zone system in cascade:
Heating / DHW

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

*from external supply

Gas Boiler FE 24.4-33.4

Instantaneous wall-mounted condensing boiler for stand-alone systems

COMFORT

DHW

High temperature

CONVENIENCE

DHW instantaneous

MANAGEMENT AND CONNECTIVITY

Imput ON/OFF

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

The €/Switch function

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

accessories

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

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

(24.4-33.4 while stocks last)

Gas Boiler UC 24.4÷200F.2

Instantaneous wall-mounted condensing boiler (24.4-33.4)
Wall-mounted condensing boiler for heating only (70.2-115.2)
Floor-standing condensing boiler for heating only (200F.2)

COMFORT

- DHW *(24.4-33.4)*
- High temperature

CONVENIENCE

- DHW instantaneous

MANAGEMENT AND CONNECTIVITY

- Imput ON/OFF
- Port Modbus *(optional with HIDUCX for 70.2-115.2, standard for 200F.2)*
- Input 0-10V *(70.2-200F.2)*

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

accessories

	KCSAFX	Vertical coaxial fitting for smoke intake and discharge (d. 60/100 mm) (Gas Boiler UC 24.4-33.4)
	CCOAX	90° coaxial curve for suction and flue gas discharge, 360° adjustable (d. 60/100 mm) (Gas Boiler UC 24.4-33.4)
	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 24.4-33.4)

	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 gas boiler (Gas Boiler UC 70.2-115.2)
	KISX	Kit di installazione semplificata con raccordi per SPHERA EVO 2.0 Box Hybrid

technical data

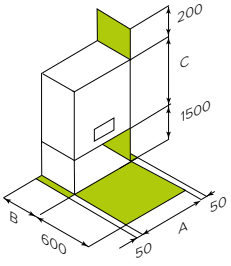
Size					FE 24.4	FE 33.4	UC 24.4 (to exhaustion)	UC 34.4 (to exhaustion)	UC 70.2	UC 115.2	UC 200F.2
Heating	Heating capacity (Pn) P.C.I.	Water 80/60°C	Water content	kW	24,0	34,0	23,4	33,2	67,5	115,0	199,0
			Minimum	kW	4,70	4,90	4,80	4,80	9,10	20,0	19,1
		Water 50/30°C	Water content	kW	26,0	37,0	25,2	35,8	68,7	120,3	205,2
			Minimum	kW	5,20	5,40	5,30	5,40	10,3	21,4	21,1
	Efficiency	Water 80/60°C	Maximum	%	97,8	97,7	97,7	97,7	97,3	97,3	97,9
			Minimum	%	97,6	97,2	96,5	96,4	94,9	95,9	95,6
		Water 50/30°C	Maximum	%	106,1	106,2	105,1	105,2	101,7	104,3	103,1
			Minimum	%	107,3	107,1	106,9	107,0	107,6	107,1	105,4
	30% di Pn		-	%	109,7	109,7	108,7	108,6	107,3	107,2	108,9
DHW	Nominal heating capacity (Qnw)		Maximum	kW	28,5	34,8	28,0	34,0		-	
			Minimum	kW	4,70	5,00	5,00	5,00		-	
	Specific flow rate	ΔT=30 °C in 10 minutes		l/min	13,4	16,2	13,5	15,8		-	
		ΔT=25 °C in 10 minutes		l/min	16,1	19,5	16,2	19,0		-	
Seasonal efficiency Medium climate	Heating	Energy class		-	**A**	**A**	**A**	**A**	**A**	**A**	**A**
		ηs (seasonal output)		%	94	94	93	93	93	92	93
	DHW	Energy class		-	**A**	**A**	**A**	**A**		-	
		Withdrawal profile		-	XL	XXL	XL	XL		-	
		ηwh		%	85	85	87	90		-	

Technical specifications											
Type			-	instantaneous						only heating	
Installation			-	wall-mounted							floor-standing
Power supply	Voltage/Frequency/Phases		V/Hz/n°	230/50/1							
Expansion tank capacity			l	8		10				-	
Power input		Water content	W	82	99	95	122		267	314	580
Sound power		Nominal	dB(A)	49	52	53	56		63	-	-

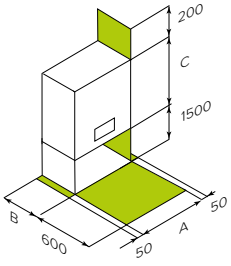
Operating range								
Water supply temperature	Heating	Minimum / Maximum	°C	20 / 95		20 / 85		15 / 85	20 / 85	
	DHW	Minimum / Maximum	°C	40 / 65		38 / 60			-	
Operating range (Outdoor air)	Heating / DHW	Minimum / Maximum	°C	-5* / 50						

* with antifreeze kit down to -15°C

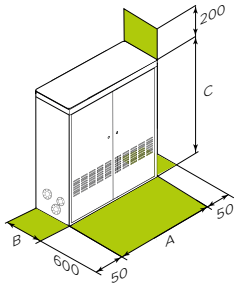
dimensions and connections



FE Version



UC 24.4-115.2 Version



UC 200F.2

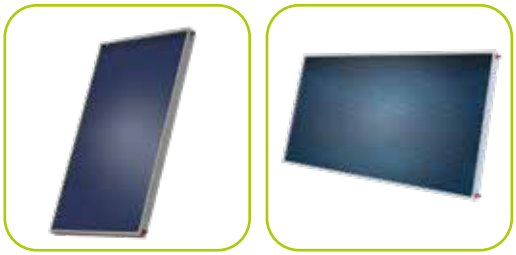
Size			FE 24.4	FE 33.4	UC 24.4	UC 34.4	UC 70.2	UC 115.2	UC 200F.2
Dimensions	AxCxB	mm	420x700x250	420x700x320	420x700x345		615x930x266	500x950x500	950x1.214x606
Weight		kg	27	31	40	41	58,4	81	316
External diameters	Water (System)	inch	3/4"				1 1/4"		3 1/2"
	Water (DHW)	inch	1/2"					-	
	Gas	inch	3/4"					1"	2"
	Intake air	mm	80						
	Exhaust gas	mm	80					100	

“Factory made” hybrid combinations

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

Note: * only with Sphera EVO 2.0

ACCESSORY PRODUCTS TO HEAT PUMPS



ELFOSun³ *NEW*

DWH boilers

ELFOSun³

F-L / F-XL / FH-XL

NEW PRODUCT

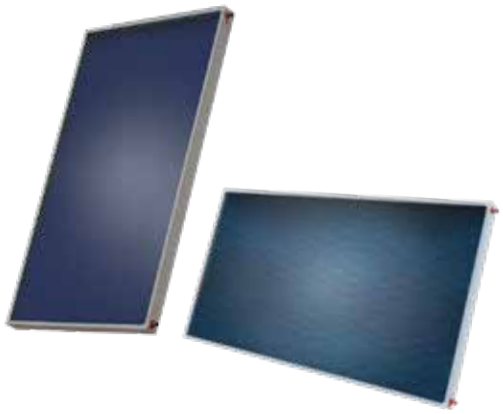
Flat-plate solar thermal collector for combination with domestic hot water production systems

RELIABILITY

Keymark 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	m²	2,00	2,37	
	opening	m²	1,86	2,23	
Peak capacity		W	1.522	1.804	
Technical specifications					
Performances	ηCOL - collector efficiency	%		60	
	η0 - zero-loss collector efficiency	-		0,761	
	a1 - heat loss coefficient	W/m²K		3,60	
	a2 - Temperature / heat loss coefficient ratio	W/m²K²		0,014	
Stagnant temperature		°C		190	
Operating pressure	Water content	bar		10	
Panel water flow		l	1,42	1,71	2,16
Panel water flow	Nominal	l/min/m²	1,6÷2	2÷2,7	
Absorptance		%		≥ 95	

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

accessories

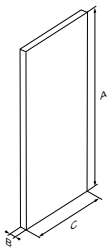
	KFSX	Fixing kit on pitched or flat roofs for 1 vertical solar panel (per F-L / F-XL)
	KFDX	Fixing kit on pitched or flat roofs for 2 vertical solar panels (per F-L / F-XL)
	KFPX	Fixing kit on flat roofs for 1 horizontal solar panel (per FH-XL)
	KFP2X	Fixing kit on flat roofs for 2 horizontal solar panels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

dimensions and connections

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

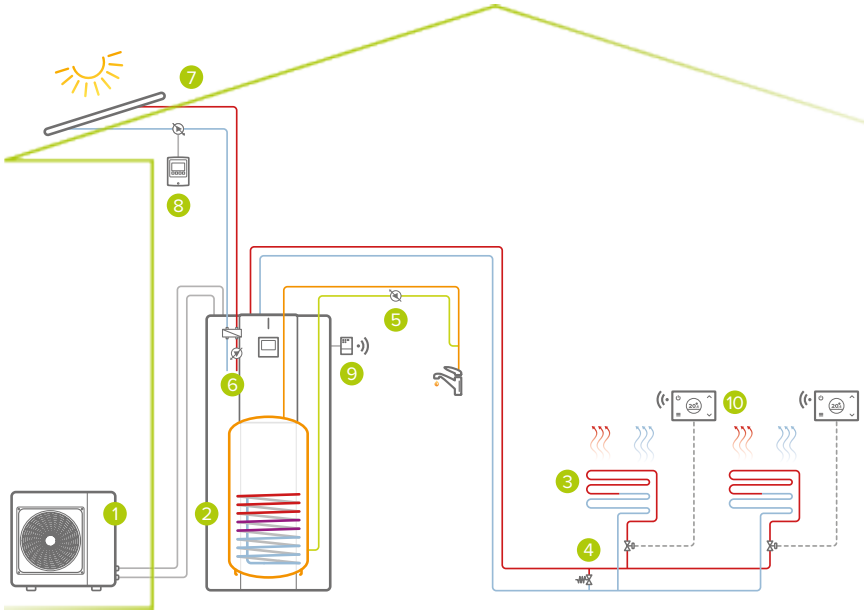
FH-XL: up to 3 panels can be connected in parallel

Note: refer to the specific documentation to connect several panels



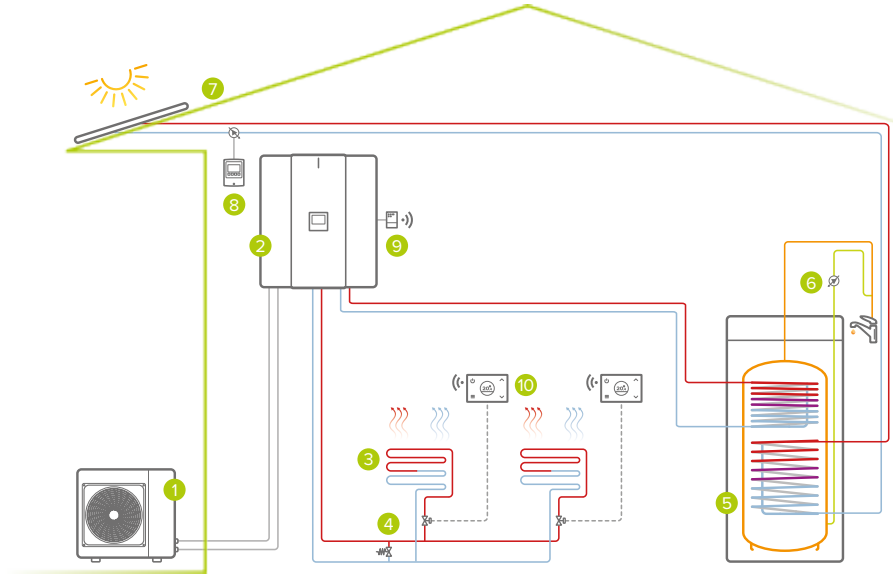
			F-L	F-XL	FH-XL
Dimensions	AxCxB	mm	1.980x1.010x86	1.930x1.230x86	1.230x1.930x86
Weight		kg	34	42	
External diameters		mm		22 (x4)	

system diagrams



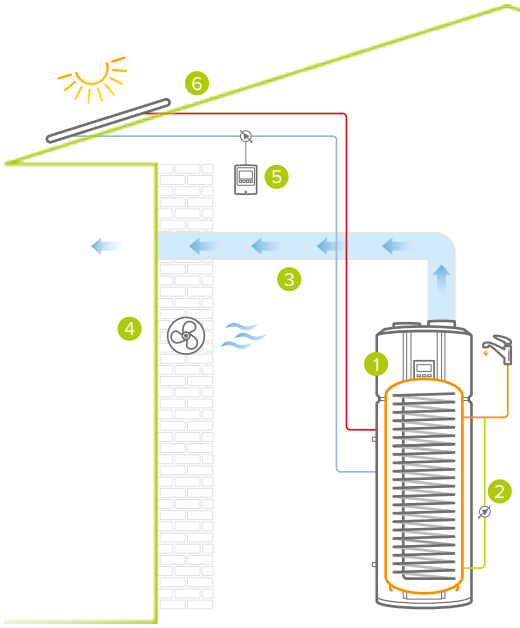
Full electric single-area system with thermal solar:
Heating / Cooling / DHW

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



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

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



System for DHW production with thermal solar:

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

*from external supply

DWH BOILERS

Domestic hot water tanks for heat pumps

ENERGY SAVING — Integration Heating/DHW

COMFORT — DHW

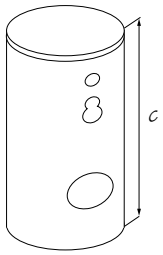
RELIABILITY — Backup heater

- ✓ Additional coil for connection to ELFOSun³ thermal solar (optional)
- ✓ Inspection flange
- ✓ Magnesium anodic protection
- ✓ Carbon steel tank with vitrification treatment
- ✓ 70 or 100 mm rigid polyurethane insulation

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

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

dimensions and connections



			ACS200X	ACS300X	ACS500X	ACS1000X	ACS10SX
Dimensions	ØxA	mm	640x1.215	640x1.615	790x1.705	990X2.205	
Weight		kg	77	98	128	224	294
External dia-meters	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

Distribution fan coils

of heating and cooling at home

MOOD

ELFORoom²

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 (optional KJR-90D) · 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 · Control4NRG management · Input 0-10 V · Output ON/OFF

CONVENIENCE

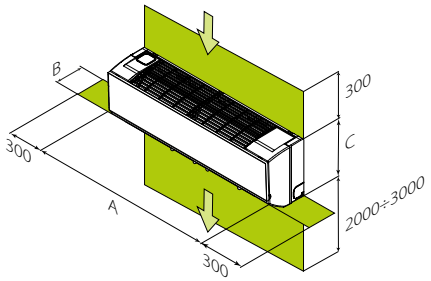
Auto Restart

- Standard supplied with 3-way ON/OFF valves and potential-free contact for generator demand
- Quiet and efficient, thanks to the fan's brushless DC motor
- Standard supplied infrared remote control
- Standard supplied input contact for 0-10V management
- Management via Modbus port with connection to BMS or Control4 NRG

Management with energy assistant

Mood can be connected to Control4 NRG, the touch-screen centraliser that coordinates the entire system intelligently and efficiently to always ensure the utmost comfort at the lowest possible cost.
By connecting the fan coils to this central "brain", the heat diffusion system can be managed with "room by room" temperature control by turning the individual thermostats with temperature and humidity control (where available) or directly on the terminal units, changing their speed and reducing consumption. The temperature in the house will certainly be more consistent and controlled, for maximum comfort.
It is also possible to create and manage dual emitter systems: fan coils for cooling and radiant panels for heating.

dimensions and connections



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

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

accessories

	KJR90X	KJR90 electronic room control for wall installation
	KJR150X	Indoor units' group controller
	CCM30BX	Touch-key indoor units' centralized controller
	CCM09 *to exhaustion*	Wired centraliser with weekly scheduler

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

technical data

Size				1	2	3	4	5
Cooling	Total yield	Water 7/12°C Ambient air 27°C/19°Cwb Maximum ventilation speed	kW	2,70	2,91	3,81	4,47	4,87
	Sensible yeld		kW	2,15	2,33	3,18	3,67	4,11
	Water flow-rate		l/h	465	501	656	770	839
	Water pressur drop		kPa	31,6	37,2	56,8	41,2	50,7
Heating	Yeld	Water 45/40°C Ambient air 20°C Maximum ventilation speed	kW	2,12	3,23	4,30	4,36	5,26
	Water flow-rate		l/h	365	556	741	751	906
	Water pressur drop		kPa	37,5	40,6	61,9	43,7	51,7
	Yeld	Water 50°C/cool water flow-rate Ambient air 20°C Maximum ventilation speed	kW	3,4	3,68	4,59	5,43	5,98
	Water flow-rate		l/h	465	501	656	770	839
	Water pressur drop		kPa	13,8	15,7	24,8	45,7	54,6
Heat recovery capacity		Minimum / Maximum	W	10/13	9/15	15/34	13/26	18/38
Operating pressure		Water content	bar			16		
Airflow[1]		Minimum / Nominal / Maximum	m^3/h	400/454/492	413/485/585	590/689/825	634/741/862	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)
- Control4NRG management (IN-MOD/MOD)
- input 0-10 V (SC010V)
- Output ON/OFF (IN-MOD/MOD)

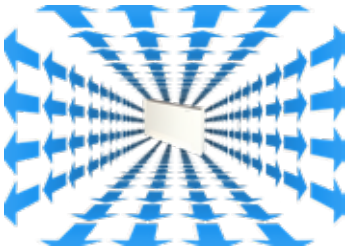
CONVENIENCE

- Auto Restart

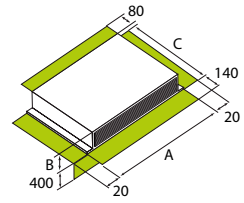
- ✓ Suitable for any installation: vertical or horizontal, cased or uncased
- ✓ Quiet and efficient, thanks to the fan's brushless DC motor
- ✓ Management via ON/OFF, 3-speed or 0-10V contacts and ON/OFF output for calling an external device
- ✓ Optional germicidal UV lamp for air purification
- ✓ Management via Modbus port with connection to BMS or Control4 NRG

Ready for anything

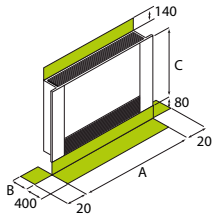
ELFORoom² is highly flexible, thanks to the availability of many accessories that enhance its potential.
The unit can be managed with the on-board control, with LCD display and very discreet, with external thermostat, ON/OFF input via potential-free contact or input with 0-10V signal.
Multiple ELFORoom² units can also be grouped together in mini-networks of up to 9 units with master/slave management by thermostat or by Control4 NRG centraliser or BMS with Modbus protocol.
The rest of the optional equipment is designed to facilitate installation: feet for fixing to the ground, recessed fan coil / grid kit to make uncased installations invisible, telescopic or 90° plenum for ducting.



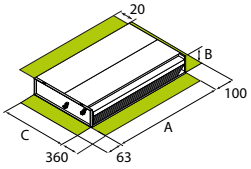
dimensions and connections



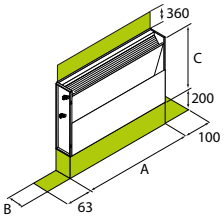
ELFORoom² OUTVOT
Cased unit



ELFORoom² OUTVL-OUTVOT
Cased unit



ELFORoom² INVOT
Uncased unit



ELFORoom² INVOT
Uncased unit

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

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

configurations

TYPE OF CONFIGURATION:

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

HYDRAULIC CONNECTIONS

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

TYPE OF INSTALLATION:

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

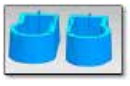
CONTROL ELECTRONIC

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

AIR PURIFICATION

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

accessories

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

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

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 yeld	Ambient air 27°C/19°Cwb	kW	0,73	1,72	2,11	2,71	2,90
	Water flow-rate	Maximum ventilation speed	l/h	157	365	483	568	638
	Water pressur drop		kPa	12,1	8,2	17,1	18,0	21,2
Heating	Yeld	Water 45/40°C	kW	1,02	2,21	3,01	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
	Yeld	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
Heat recovery capacity		Minimum / Maximum	W	5/11	4/19	6/20	5/29	5/33
Operating pressure		Water content	bar			10		
Airflow[1]		Minimum / Nominal / Maximum	m^3/h	49/91/146	124/210/294	194/318/438	302/410/567	364/479/663
Sound power		Minimum / Maximum	dB(A)	33/51	35/53	36/54	36/55	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 the thermostat*

HEALTH

- High density filter

MANAGEMENT AND CONNECTIVITY

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

CONVENIENCE

- Auto Restart *(on thermostat)*

- ✓ Sleek and elegant design, suitable for blending into any environment
- ✓ Suitable for any installation: vertical or horizontal, cased or uncased
- ✓ Complete range: sizes from 1.5 kW to 8.3 kW, ideal for houses or hotel rooms
- ✓ Can be adapted on-site to have fittings on the right side as well
- ✓ Management via Modbus port (in the controller) with connection to BMS or Control4 NRG

Dedicated control

The unit can be selected with the innovative, specially designed KJRP-86R user interface. The controller can either be installed on board the unit (for cased versions) or remotely on the wall. It has a touch screen, back-light, 3-speed control + AUTO, ON/OFF timer and water probe for anti-cold air function.
The controller has a Modbus port for connection to Control4 NRG or BMS controllers operating with this protocol.

configurations

TYPE OF SYSTEM:

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

AIR RETURN:

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

HYDRAULIC CONNECTIONS

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

VALVES MOUNTED ON BOARD:

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

BUILT-IN THERMOSTAT:

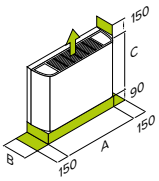
NOHMI	**not required (standard)**
HMIAM	KJRP-86R control

accessories

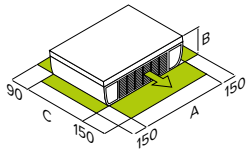
	BRVHX	Auxiliary condensate collection tray for vertical/horizontal installation
	KPDX	Feet kit
	3V2DX	3-way ON/OFF valves kit for 2-pipe system (3V2DX for right side fittings / 3V2SX for left side fittings)
	3V2SX	
	3V4DX	3-way ON/OFF valves kit for 4-pipe system (3V4DX for right side fittings / 3V4SX for left side fittings)
	3V4SX	

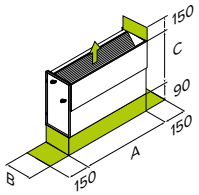
	HMIFACX	KJRP-86R electronic wired controller for unit- or wall-mounting
	BOXX	Box for wall installation of KJRP-86R user interface
	DCPRX	Power interface to control 4 fan coils and valves for 2-4 systems
	HIDTI9X	Electro-mechanical thermostat for uncased installation + Modbus

dimensions and connections

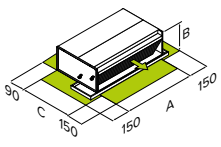


CAS
Cased unit





UNC
Uncased unit



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

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

technical data

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

The Product is compliant with the Erp (regulation 2016/2281)
Sound levels tested in an anechoic chamber according to ISO 3744
(1) With clean filters
*RF version not available

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

The Product is compliant with the Erp (regulation 2016/2281)
Sound levels tested in an anechoic chamber according to ISO 3744
(1) With clean filters
*RF version not available

AURA - *Inverter version*

CFFC / CFFU 1÷12

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

COMFORT

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

HEALTH

High density filter

MANAGEMENT AND CONNECTIVITY

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

CONVENIENCE

Auto Restart

- ✓ Sleek and elegant design, suitable for blending into any environment
- ✓ Suitable for any installation: vertical or horizontal, cased or uncased
- ✓ Quiet and efficient, thanks to the fan's brushless DC motor
- ✓ Complete range: sizes from 1.5 kW to 8.3 kW, ideal for houses or hotel rooms
- ✓ Can be adapted on-site to have fittings on the right side as well
- ✓ Management via Modbus port with connection to BMS or Control4 NRG

Dedicated control

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:

RP	**From the back (standard)**
RB	Downward

HYDRAULIC CONNECTIONS

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

VALVES MOUNTED ON BOARD:

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

BUILT-IN THERMOSTAT:

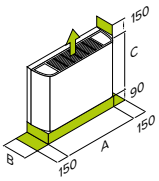
NOHMI	**not required (standard)**
HMIDM	KJRP-75A control

accessories

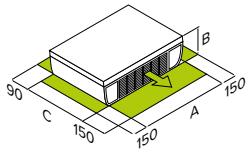
	BRVHX	Auxiliary condensate collection tray for vertical/horizontal installation
	KPDX	Feet kit
	3V2DX	3-way ON/OFF valves kit for 2-pipe system (3V2DX for right side fittings / 3V2SX for left side fittings)
	3V2SX	
	3V4DX	3-way ON/OFF valves kit for 4-pipe system (3V4DX for right side fittings / 3V4SX for left side fittings)
	3V4SX	
	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)

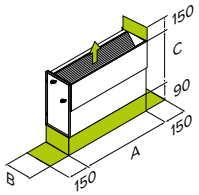
	KJR90X	KJR90 electronic room control for wall installation
	KJR150X	Indoor units' group controller
	CCM30BX	Touch-key indoor units' centralized controller
	CCM09 *to exhaustion*	Plastic frame for air supply and return (Standard)
	CCM-180A/WS	Wired centraliser with 6.2" touchscreen display and weekly scheduler
	CCM-270A/WS	Wired centraliser with 10.1" touchscreen display and weekly scheduler

dimensions and connections

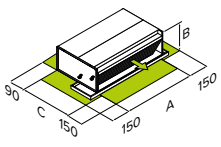


CAS
Cased unit





UNC
Uncased unit



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

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

technical data

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

The Product is compliant with the Erp (regulation 2016/2281)
Sound levels tested in an anechoic chamber according to ISO 3744
(1) With clean filters
*RF version not available

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

The Product is compliant with the Erp (regulation 2016/2281)
Sound levels tested in an anechoic chamber according to ISO 3744
(1) With clean filters
*RF version not available

ELFOSpace BOX3

CFK 007.0÷041.0

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

COMFORT

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

RELIABILITY

Condensate drain pump

HEALTH

High density filter

MANAGEMENT AND CONNECTIVITY

input ON/OFF | Remote control | Wired controller (optional) | Centralised controller (optional) | Port Modbus | Control4NRG management | input 0-10 V (021.0÷041.0)

CONVENIENCE

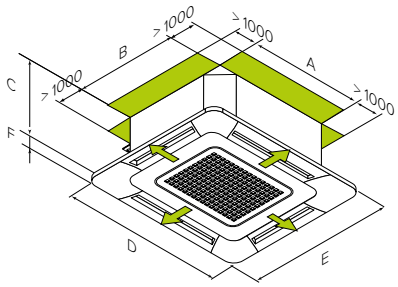
Auto Restart

- ✓ Management with potential-free contact input or 0-10V input, alarm output
- ✓ Quiet and efficient, thanks to the fan's brushless DC motor
- ✓ Standard supplied infrared remote control
- ✓ Standard supplied condensate drain pump on board
- ✓ Management via Modbus port with connection to BMS or Control4 NRG

Efficient and quiet

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

dimensions and connections



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

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

configurations

SYSTEM TYPE:

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

accessories

	KJR90X	KJR90 electronic room control for wall installation
	KJR150X	Indoor units' group controller
	CCM30BX	Touch-key indoor units' centralized controller
	CCM09 *to exhaustion*	Wired centraliser with weekly scheduler
	CCM-180A/WS	Wired centraliser with 6.2" touchscreen display and weekly scheduler
	CCM-270A/WS	Wired centraliser with 10.1" touchscreen display and weekly scheduler

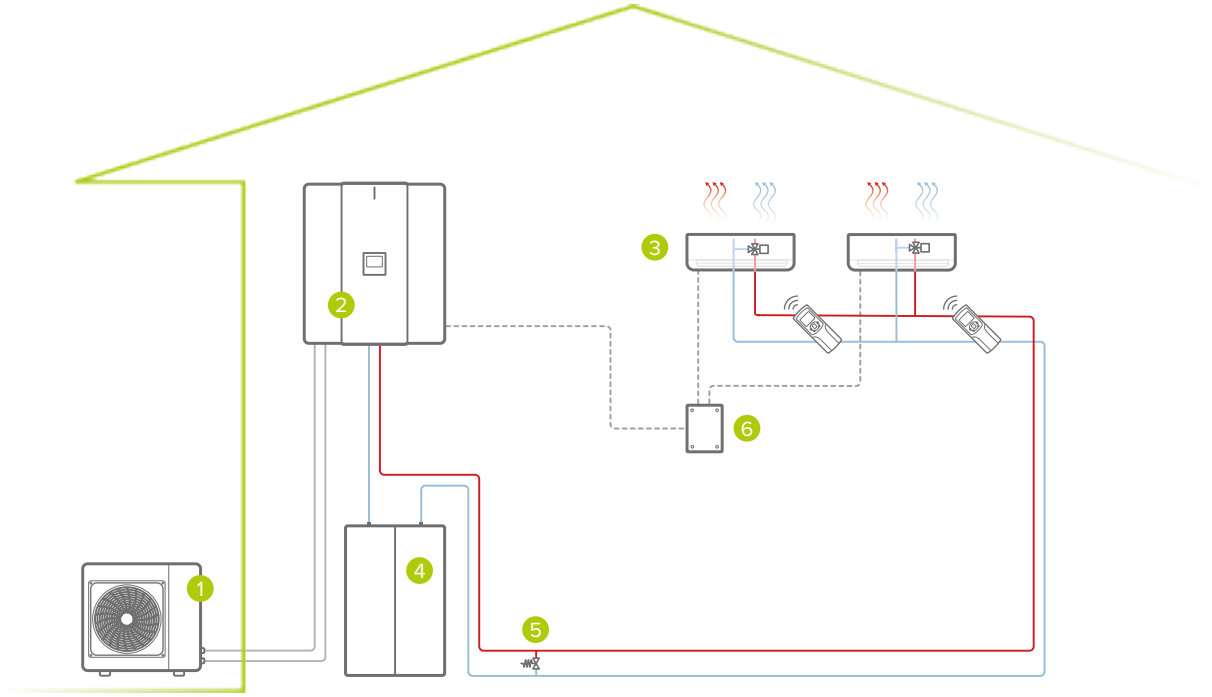
	360PX	Air return and supply frame with supply at 360°
	3V2X	Three-way valve kit for 2-pipe "on/off" system
	3V4X	Three-way valve kit for 4-pipe "on/off" system
	DTX	Auxiliary condensate collection tray

technical data

Size				007.0	011.0	015.0	021.0	031.0	041.0
Cooling	Total yield	Water 7/12°C	kW	2,98	3,96	4,20	5,93	7,87	11,2
	Sensible yeld	Ambient air 27°C/19°Cwb	kW	2,49	3,20	3,45	5,00	6,68	9,04
	Water flow-rate	Maximum ventilation speed	l/h	513	681	722	1.020	1.354	1.925
	Water pressur drop		kPa	10,0	11,5	12,3	23,8	22,3	36,6
Heating	Yeld	Water 45/40°C	kW	2,61	4,08	4,95	6,06	9,16	10,07
	Water flow-rate	Ambient air 20°C	l/h	450	700	870	1.040	1.580	1.735
	Water pressur drop	Maximum ventilation speed	kPa	12,1	9,2	9,4	25,9	28,8	49,2
	Yeld	Water 50°C/cool water flow-rate	kW	3,11	4,58	5,58	7,01	10,4	11,5
	Water flow-rate	Ambient air 20°C	l/h	513	681	722	1.020	1.354	1.925
	Water pressur drop	Maximum ventilation speed	kPa	16,3	10,7	9,0	12,8	10,7	8,9
Heat recovery capacity		Minimum / Maximum	W	5/15	9/28	21/43	20/41	45/85	39/126
Operating pressure		Water content	bar	16					
Airflow[1]		Minimum / Nominal / Maximum	m^3/h	322/429/535	381/477/610	494/611/781	768/987/1.175	1.236/1.371/1.581	1.198/1.415/1.871
Sound power		Minimum / Maximum	dB(A)	39/51	42/54	44/55	45/55	53/60	51/64
Sound pressure @1m		Minimum / Maximum	dB(A)	27/39	30/42	32/43	33/43	41/48	39/49
Power supply		Voltage/Frequency/Phases	V/Hz/n°	230/50/1					

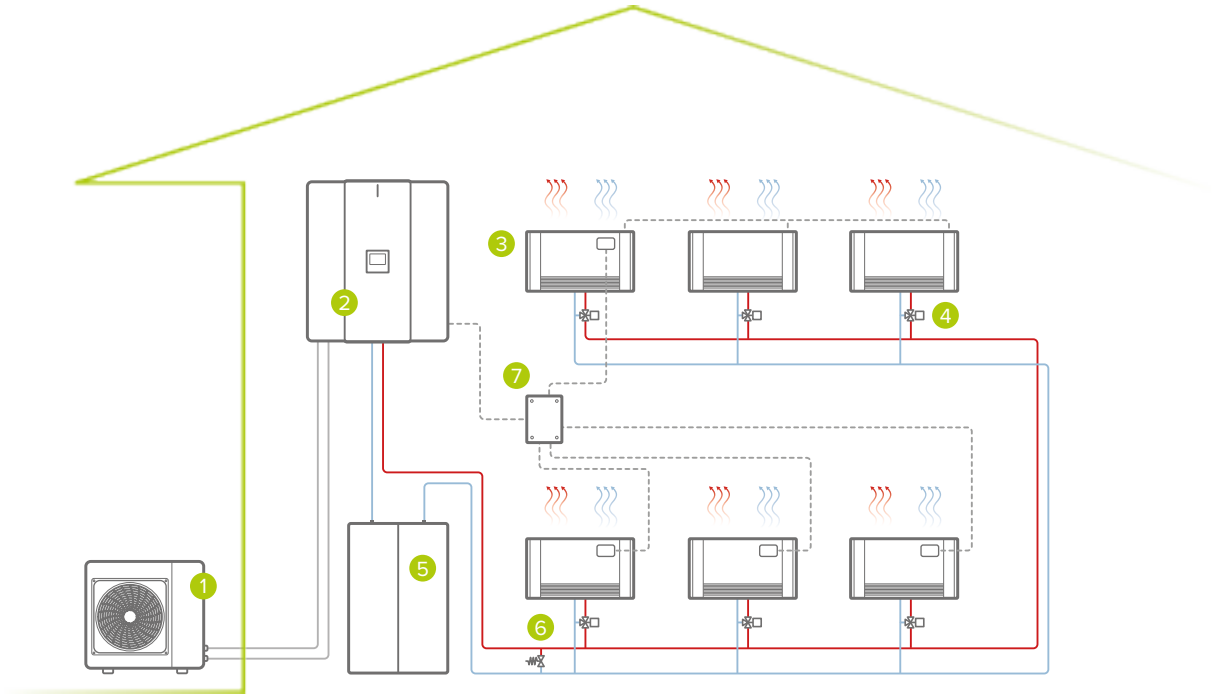
Sound levels tested in an anechoic chamber according to ISO 3744
(1) With clean filters

SYSTEM DIAGRAMS



Single-zone system: heating/cooling

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

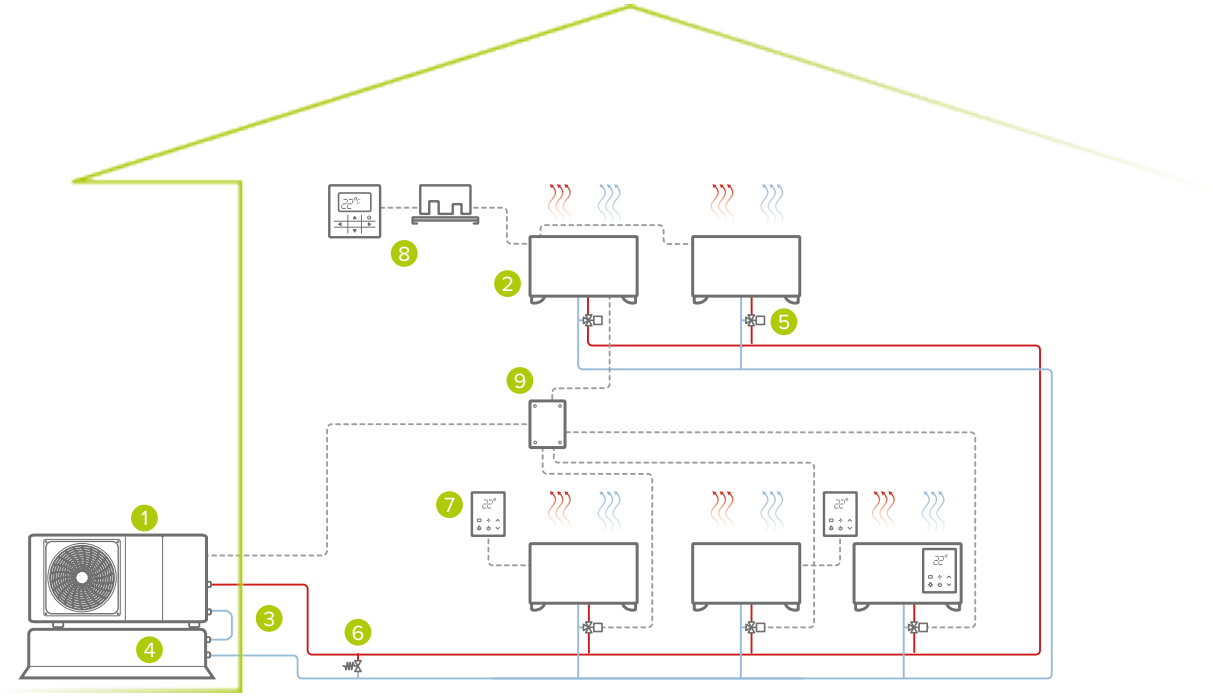


Single-zone system: heating/cooling

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

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

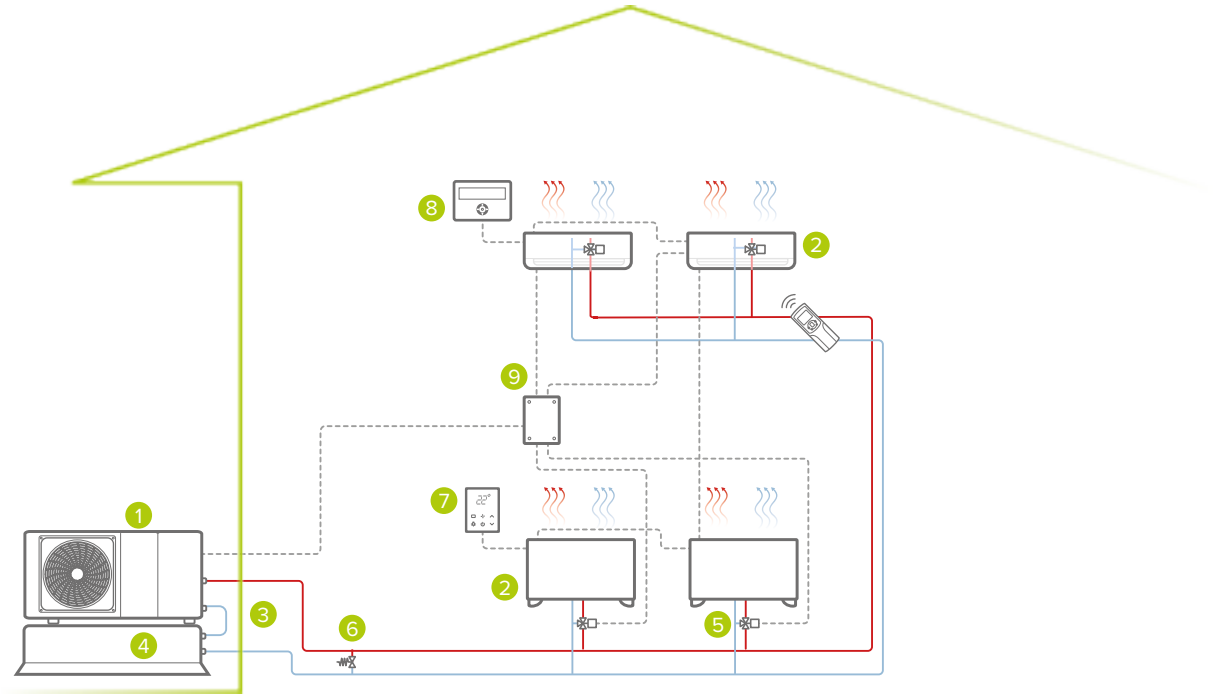
*from external supply



Single-zone system: heating/cooling

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

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



Single-zone system: heating/cooling

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

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

*from external supply

HEAT PUMPS FOR DHW (Domestic Hot Water)

AQUA Plus

AQUA PLUS*

SWAN-2 190÷300

Packaged monoblock heat pump for domestic hot water production

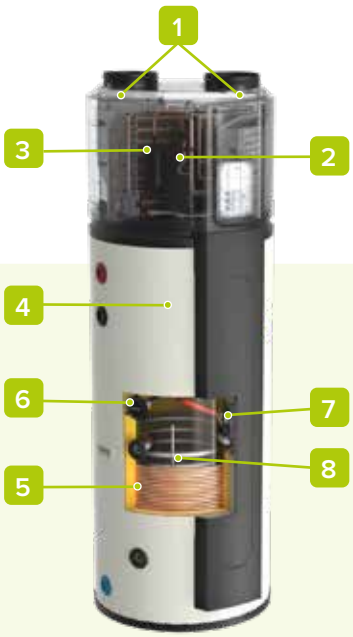
ENERGY SAVING: Integration Heating/DHW; Smart Grid ready
COMFORT: DHW
RELIABILITY: Backup heater; Keymark 025
HEALTH: Energy renewable
CONVENIENCE: Integrated DHW tank
MANAGEMENT AND CONNECTIVITY: Input ON/OFF; Port Modbus; Control4 NRG management; Control via App

TOP SYSTEM EFFICIENCY
ErP 190 L A+ 300 XL A+

- ✓ 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 ELFOSun[3]
- ✓ Operation with heat pump only with the outdoor air between -7°C and 43°C
- ✓ Market-leading A+ efficiency class

Reliable all year round

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

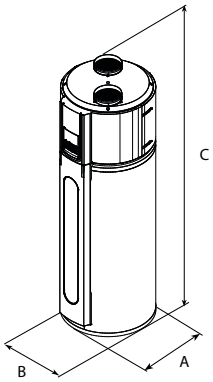


1. AC fan
2. Twin-rotary compressor
3. Air-gas finned exchanger
4. 180-litre/280-litre DHW tank
5. Coil exchanger (wound around the tank)
6. Electronic anode
7. 1.5kW safety/auxiliary heater
8. Solar coil (only on solar version)

accessories

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

dimensions and connections



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

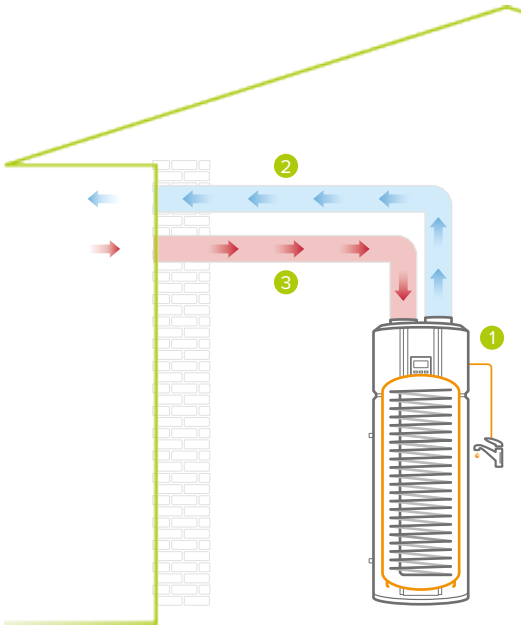
technical data

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

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

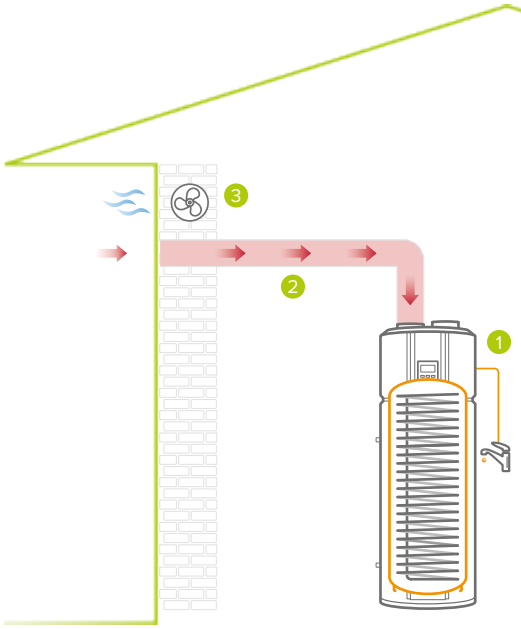
Operating range			
Water temperature	Minimum / Maximum	°C	10 / 70
Operating range (outdoor air)	Minimum / Maximum	°C	-20 / 43

system diagrams



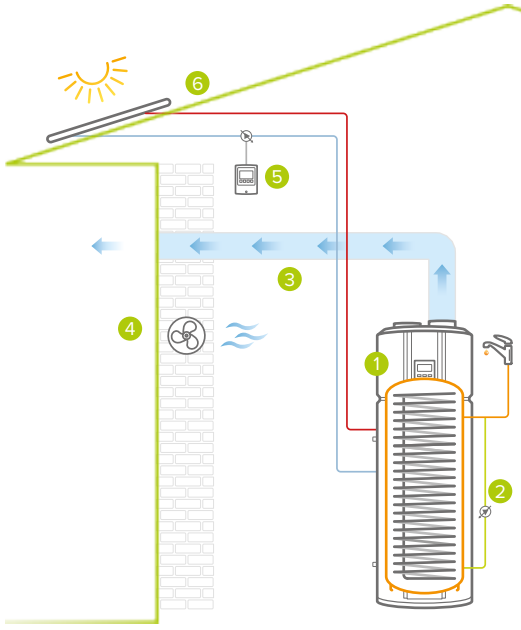
Impianto per produzione di ACS

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



Impianto per produzione di ACS

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



System for DHW production with thermal solar:

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

*from external supply

CONTROLLED MECHANICAL VENTILATION WITH RECOVERY

ELFOFresh EVO

ELFOFresh EVO

CPAN-YIN SIZE2

Controlled mechanical ventilation unit with thermodynamic heat recovery

ENERGY SAVING
- Free Cooling / Heating

COMFORT
- Hot Cold
- Silent

RELIABILITY
- Condensate drain pump

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

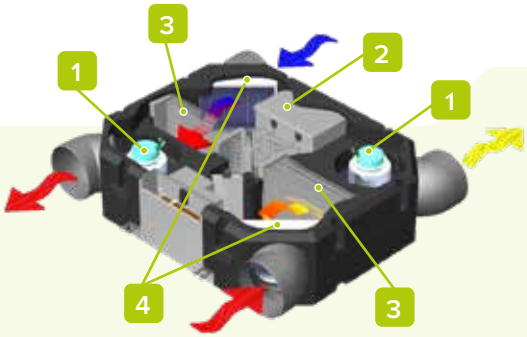
CONVENIENCE
- Weekley Timer

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

- ✓ Innovative heat recovery system that alone fulfils over 85% of the building's demands
- ✓ Humidity control of incoming air
- ✓ Purifies the air with the high efficiency electrostatic filter (optional)
- ✓ Inverter DC compressor and constant flow DC fan for the best modulation operation
- ✓ Advanced connectivity: management via the dedicated SmartHome App or via the Modbus port with Control4 NRG standard supplied

Heats or cools for free

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



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

configurations

TYPE OF INSTALLATION:

- **false ceiling (standard)**

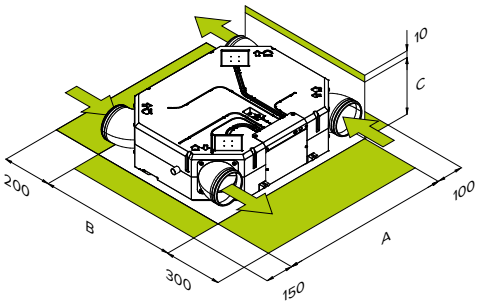
EI false ceiling (standard)

AIR FILTRATION:

- **Standard filter (standard)**

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

dimensions and connections



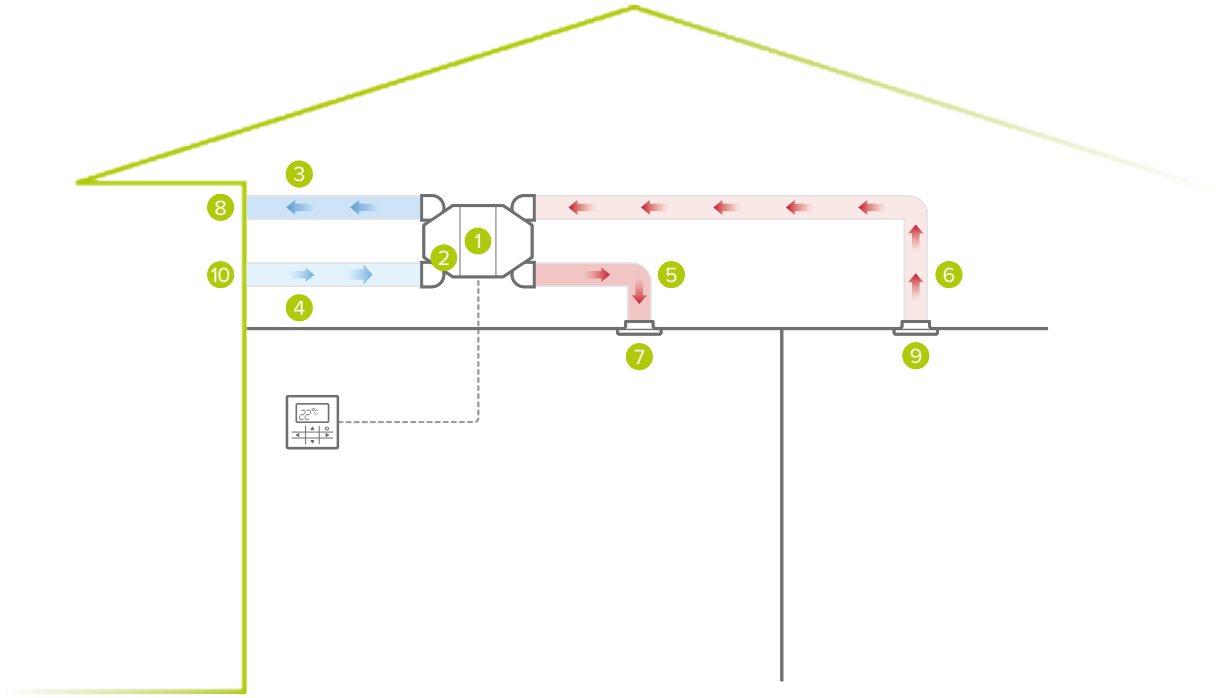
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

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

technical data

Size					**Size 2**				
	Settable air flow			m^3/h	**125**	**150**	**210**	**270**	**320**
Ventilation	Available pressure		Nominal / Maximum	Pa			50 / 120		
	Fresh Air		-	-			100%		
	Filters type		-	-			Folded filter		
	Filtration class		-	-			PM10 50%		
Winter recovery	Heating capacity	Ambient Air 20 °C/50% UR		kW	**1,42**	**1,55**	**1,86**	**2,05**	**2,49**
	COP	Outdoor air 7 °C/6°C WB		-	3,09	3,69	4,13	4,93	4,61
	Heating capacity	Ambient Air 20 °C/50% UR		kW	1,97	2,1	2,21	2,37	2,45
	COP	Outdoor air -5 °C/80% UR		-	4,93	4,04	4,7	6,5	7,66
Summer recovery	Cooling cpacity	Ambient Air 26 °C/50% UR		kW	**1,57**	**1,64**	**1,73**	**1,92**	**2,23**
	EER	Outdoor air 35 °C/50% 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: 2018 and referred to available pressure of 50 Pa.



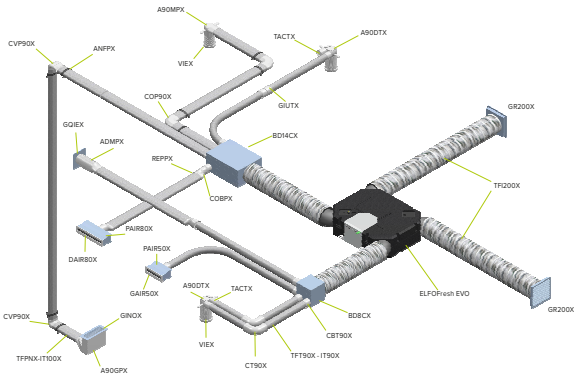
Air renewal system

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

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

ELFOAir

The air distribution system for ELFOFresh



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

ANTISTATIC AND ANTIBACTERIAL

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

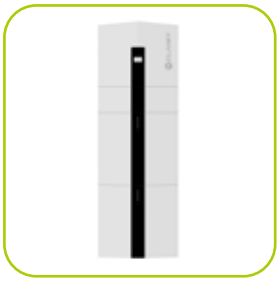
accessories

Internal suction and supply grilles		DAIR50X	AIRJET 50/I supply diffuser - white frame and black inside
		DAIR80X	AIRJET 80/I supply diffuser - white frame and black inside
		GAIR50X	Intake grille + extractable filter AIRJET 50/A - white frame and black inside
		GAIR80X	Intake grille + extractable filter AIRJET 80/A - white frame and black inside
		PAIR50X	Suction/supply plenum with AIRJET 50 control damper - rear connection
		PAIR80X	Suction/supply plenum with AIRJET 80 control damper - rear connection
		GINOX	Rectangular supply/intake grille 350x130 mm stainless steel
		GIVEX	Rectangular supply/intake grille 350x130 mm white
		FREX	Filter for rectangular grille 350x130 mm (5pcs)
		VIEX	Extraction/intake valve in ABS DN125 without air filter
		FT125X	Filter for DN125 valve (5pz.)
		GQIEX	Extraction/intake squared grill of DN125 joint with air filter
Round tube distribution (from the distribution box to outlet) (from the distribution box to outlet)		TFT90X	Round hose DN90 (Int.D 78 mm) in 20 m coil 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
		A90GPX	90-degree adaptor, single flat tube for level grill
		TACPX	Blind plug for flat tube (5pz.)
		ANFPX	Fixing ring for flat tube (10pz.)
		REPPX	Flow controller for flat tube
		RTPTX	Round/flat tube connecting joint
		REGPX	Automatic capacity controller DN 75-90 mm (20-50 m^3/h)
External distribution (Ducts from the outside to the unit and from the unit to the distribution boxes)		BD8CX	Distribution box of DN150-200 joint with 8 connections
		BD14CX	Distribution box of DN200 joint with 14 connections
		TFIS150X	DN150 soundproofing insulated flexible tube in a 10mt. coil
		TFIS200X	DN200 soundproofing insulated flexible tube in a 10mt. coil
		TFIS250X	DN250 soundproofing insulated flexible tube in a 10mt. coil
		GR150X	Exhaust / return square wall grille with circular coupling DN150
		GR200X	Exhaust / return square wall grig with circular coupling DN200
		GR250X	Exhaust / return square wall grig with circular coupling DN250
		GF150X	F/F DN150 Joint
		GF200X	F/F DN200 Joint
		GF250X	F/F DN250 Joint
		R2015X	DN200-DN150 Reducer
		R2520X	DN250-DN200 Reducer
		DY200X	DN200-DN200-DN200 Y-branch
		DY250X	DN250-DN200-DN200 Y-branch

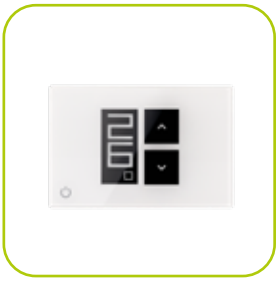
System control and all-in-one system solutions

Control4 NRG



Sinergy

Clivet EYE



HID-TConnect2

Centralised systems

Control4 NRG

Comfort and energy assistant for Clivet Smart Living

COMFORT

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

CONVENIENCE

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

ENERGY OPTIMISATION

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

- ✓ Integrated optimisation of all Clivet units in the home (heat pump, fan coils, electric water tank, air purification systems)
- ✓ Simultaneous and independent management of up to 24 climate areas
- ✓ Class A control of the environments according to European standard EN15232
- ✓ Temperature management, humidity control, air quality monitoring
- ✓ Integrated energy management
- ✓ Remote accessibility via PC or smartphone
- ✓ Release of continuous updates with new features

Comfort becomes smart

Control4 NRG is the technological assistant that allows you to transform your house into an even more comfortable and functional place. Specific features developed to make the electric house more intelligent and welcoming, optimise energy consumption and improve house comfort, customised to your needs.

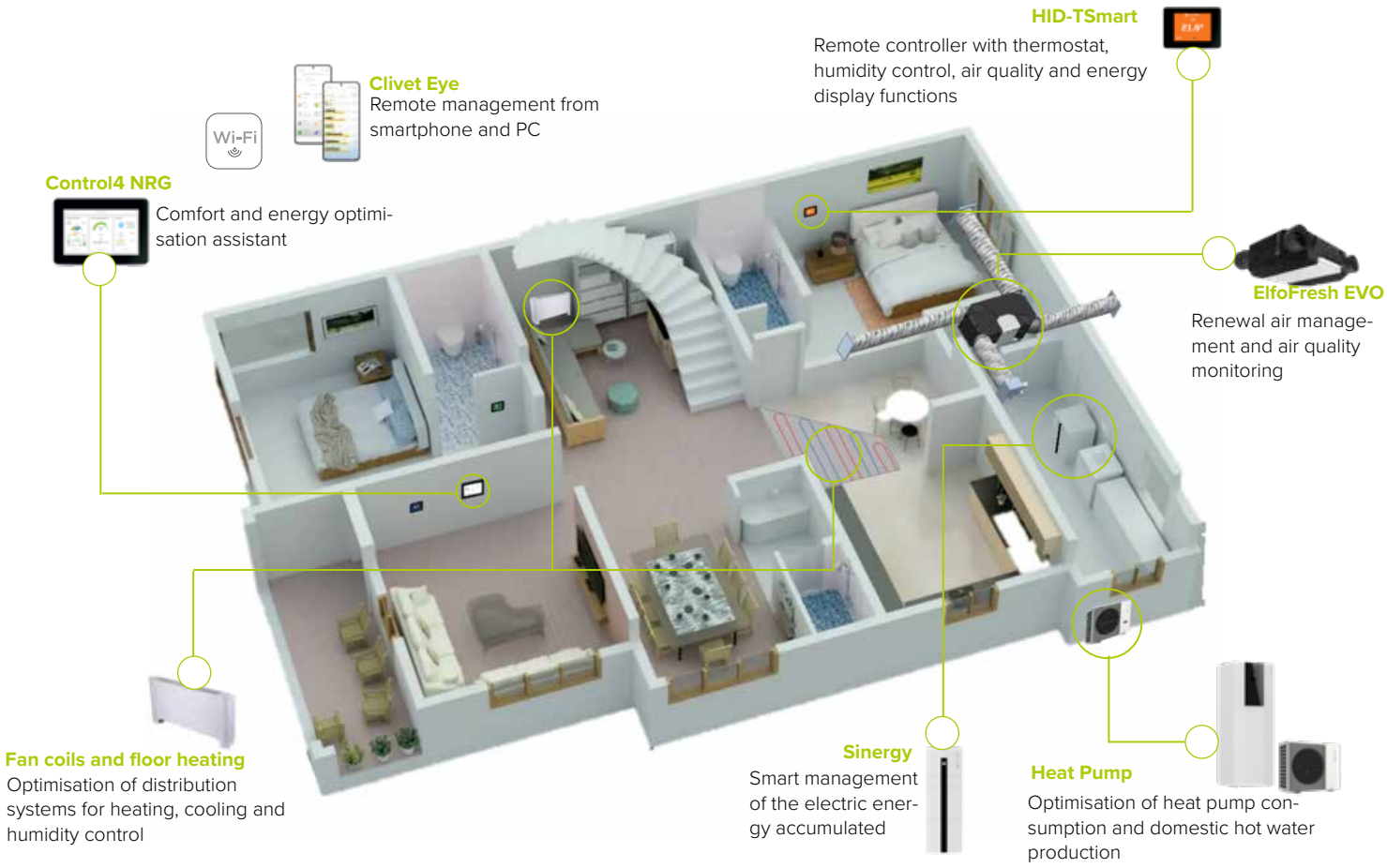
Voice assistants

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. This way, they can access system information and manage comfort more easily and independently.

Clivet Smart Living

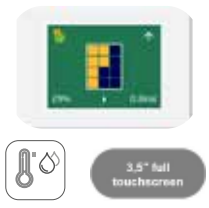
Synergy between all Clivet units is the answer to smart comfort. Control4 NRG, the heart of Clivet Smart Living, uses specially developed control and optimisation logics to maximise energy consumption and achieve energy independence for your home. The operating principle is based on using two available forms of water tank:

- ✓ Electricity storage, available with Clivet Sinergy
- ✓ The hot water tank, using the heat pump intelligently during the hours of solar radiation, provides maximum comfort, thereby optimising energy consumption and charting the way to energy independence.



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



Air quality monitoring

To ensure the utmost comfort, the new z-IAQ sensor measures the temperature, humidity, noise, VOC, carbon monoxide, carbon dioxide and methane values

Control4 NRG versions

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
Rated DC Power	VA	10
Protection rating		IP 20
Weight	kg	0,5

accessories

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

SINERGY

Inverter module: CEC-S 5K

Battery pack: CEC-S B 5K

NEW PRODUCT

Electric storage system

Single-phase version

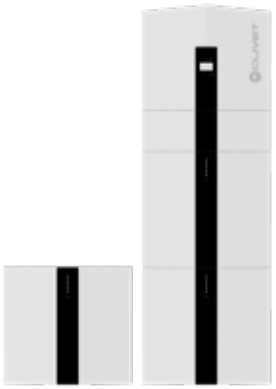
Sinergy 51.05

5 kWh =
1 inverter module
1 5 kWh battery pack

Sinergy 51.10

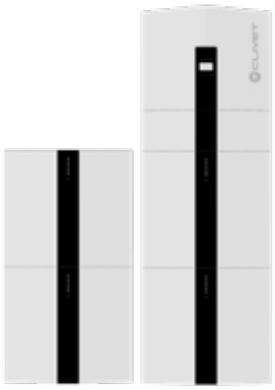
10 kWh =
1 inverter module
2 5 kWh battery packs

Sinergy 51.15



15 kWh =
1 inverter module
3 5 kWh battery packs

Sinergy 51.20

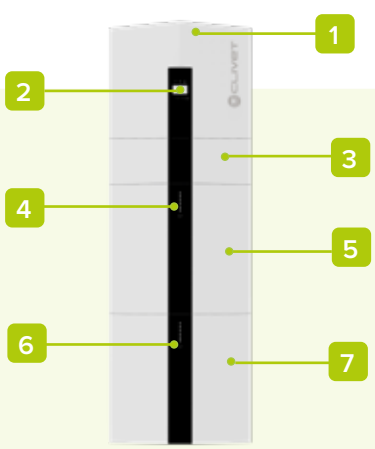


20 kWh =
1 inverter module
4 5 kWh battery packs

- ✓ 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.



1. 5 kW Hybrid Inverter including 2 x6,5 kW MPPT inputs
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)

NEW PRODUCT

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

Three-phase version

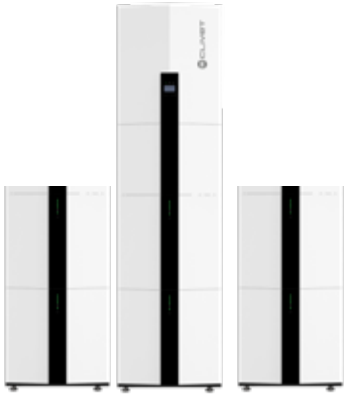
Sinergy 103.10

10 kWh
2 5 kWh battery packs

Sinergy 103.20

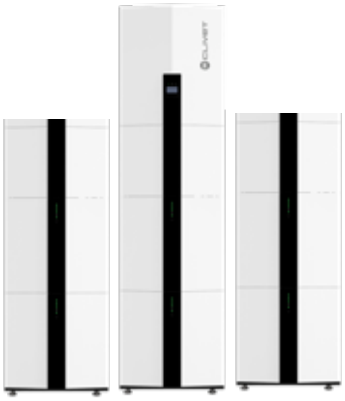
20 kWh
4 5 kWh battery packs

Sinergy 103.30



30 kWh
6 x 5kWh single battery pack

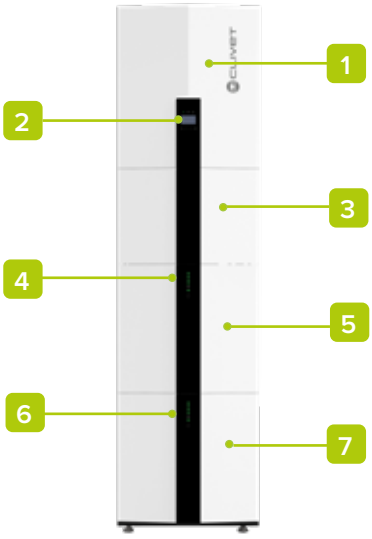
Sinergy 103.40



40 kWh
8 x 5kWh single battery pack

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

SINERGY is suitable for both new and existing installations. Thanks to the high degree of protection and operating range, SINERGY can be installed outdoors.
The special construction technology of the lithium iron-phosphate cell batteries provides a system life of up to 10,000 charging and discharging cycles.



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

Operating mode

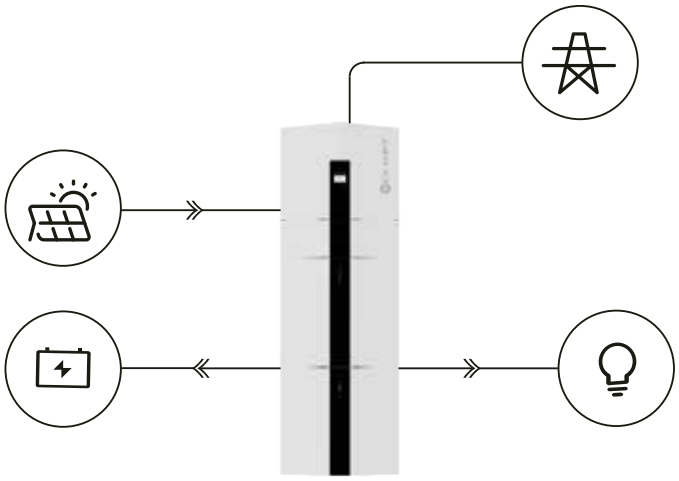
Self-consumption

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

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

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

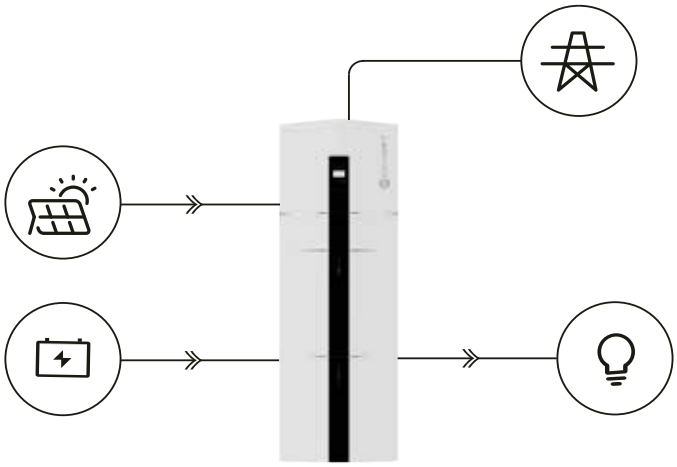
If the power supply from the batteries is not enough, the grid will supply the load demand.



Battery charging priority

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

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



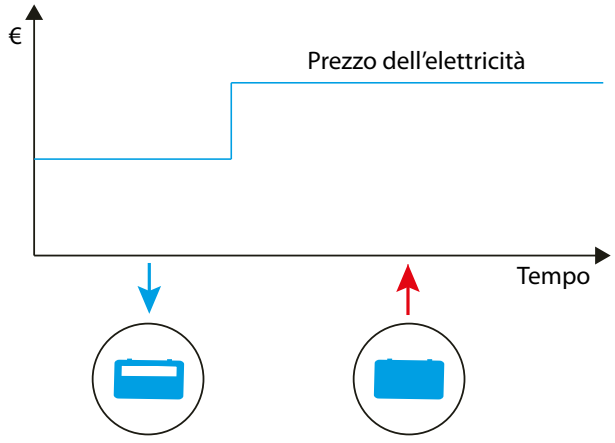
Recharging using a time slot

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

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

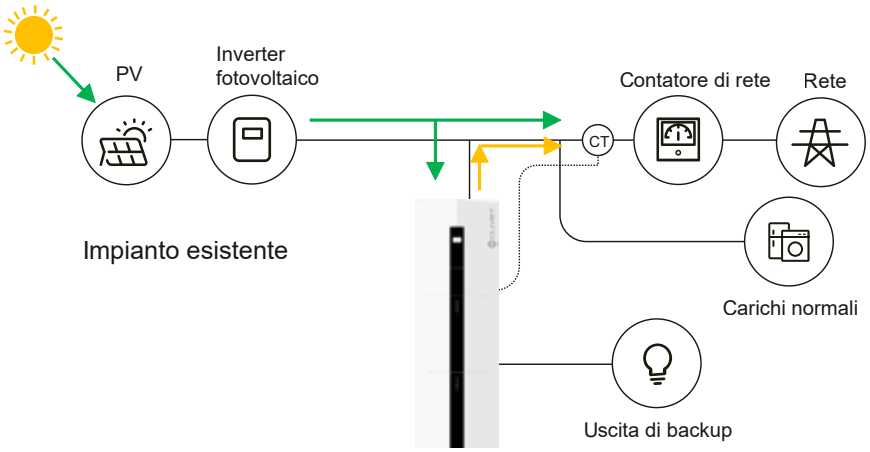
Two (2) charge and discharge time slots (adjacent)
time slot 1 – charge and discharge
time slot 2 – charge and discharge

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



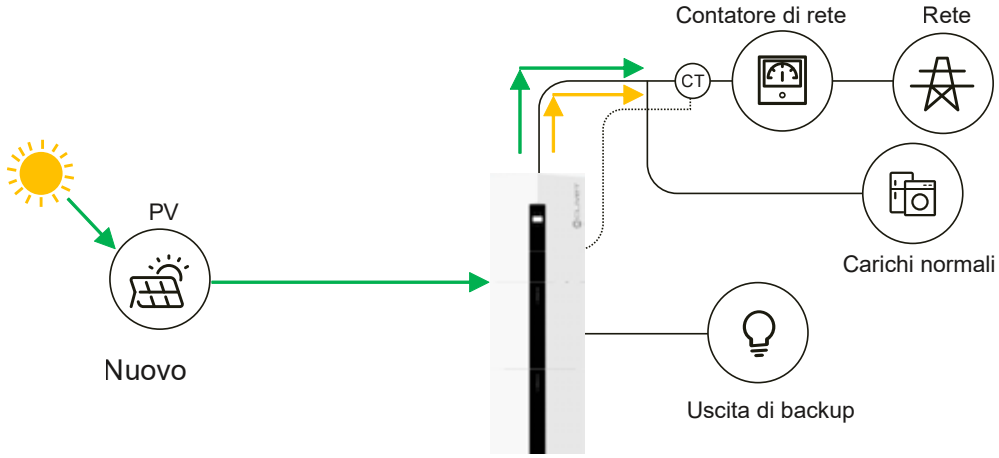
Existing system

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



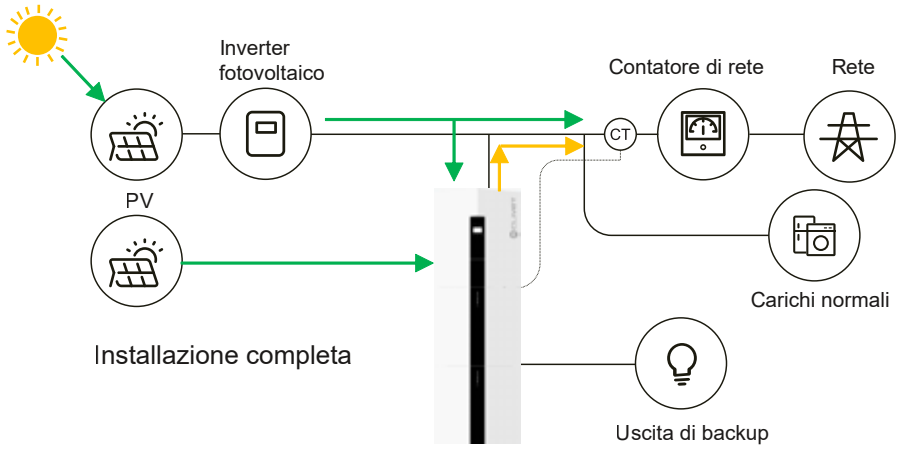
New system

In new installations, the photovoltaic system strings can be connected directly to the two direct current inputs in Clivet's SINERGY inverter.
The inverter has 2 string inputs for a total of 6.5 kW (single-phase) and 20kW (three-phase).
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 string inputs for a total of 6.5 kW (single-phase) and 20kW (three-phase).
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
Rated DC Power	4.096W
Maximum charge/discharge power	2.825W/4.096W
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	4,6 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	
max PV input power	6500W
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)	
Nominal AC Output Power	5.000W
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)
Max. Input Current	22A (2)
Power Factor (cosΦ)	0.8 leading - 0.8 lagging
THDi	< 3%

Battery Input	
Battery type	LFP (LiFePO4)
Nominal Battery Voltage	48V
Max. Charging Voltage Range	40-60V
Max. Charging Current	100A
Max. Discharging Current	100A
Battery Capacity	100-400Ah
Maximum charge/discharge power	4600/5000W

AC Output (Backup)	
Max. Output Apparent Power	5.000VA
Peak Output Apparent Power	6.900VA 10sec
Max. Output Current	20A
Nominal Output Voltage	230V
Nominal Output Frequency	50/60Hz
Output THDv (@Linear Load)	<3% (Linear Load)

Efficiency	
Max. PV Efficiency	97,0%

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

General Specifications	
Dimensions W x H x D	540 x 590 x 255mm
Weight	32kg
Operating Temperature Range	-25°C ~ +60°C
Humidity	0°C ~ 95% (non condensing)
Noise (dB)	<25
Cooling Type	Natural convection
Max. Operation Altitude	2.000m
IP Class	IP65
Communication	RS485
Display	LCD

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

three-phase inverter characteristics

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

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

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

AC Output (Backup)	
Max. Output Apparent Power	10.000VA
Nominal AC Output Power	9200W
Max. Output Current	14.5A
Nominal Output Voltage	230/400Vac , 3P+N+PE
Nominal Output Frequency	50/60Hz
Output THDv (@Linear Load)	<3% (Linear Load)

Efficiency	
Max. PV Efficiency	98,1%

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

General Specifications	
Dimensions W x H x D	540 x 980 x 250mm
Weight	54kg
Operating Temperature Range	-25°C to +60°C, derating above 40 °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
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

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

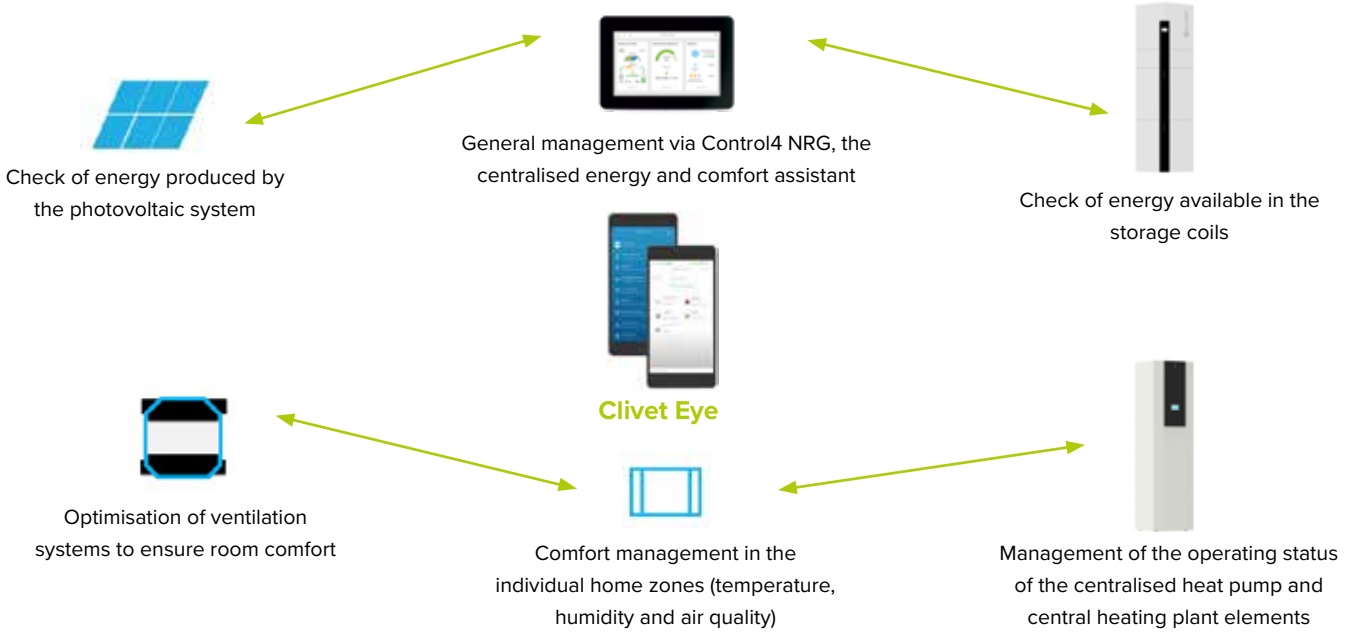
General characteristics

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#|nbs1|#take advantage of all the services related to remote access, maintenance of system components and#|nbs1|#optimisation of air conditioning systems.
When electricity meters are present, you can view the total system energy data which is organised on simple and intuitive graphical pages.
More specifically, you can view:

- ✓ Energy produced by the photovoltaic system
- ✓ Energy consumed by the air conditioning system
- ✓ Energy consumed by domestic users
- ✓ Self-consumption level
- ✓ Charge and discharge levels of the SINERGY storage system (when present)

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.



The whole system

Overall system view

Display of the status of all devices connected to Control4 NRG.
Active user – icon shown with display of the relative operating parameter
Inactive user – "grey" icon

Climate zone management

Management of the individual climate areas used to optimise comfort. Up to 24 completely independent climate areas are provided, each of which has the option of changing the temperature and setting the «energy saving» function, as well as the option of switching the area on and off (the names of the areas are only displayed with Control4 NRG)

Photovoltaic system with real time power output value

Indication of the active “Energy independence” status, when the system is powered by the water tank coil or by the photovoltaic system and is independent of the main power supply grid

Charge level of the SINERGY electricity storage system

Active operating mode
- cooling in blue
- heating in red

Temperature in the zone

Slider to change the comfort area setpoint

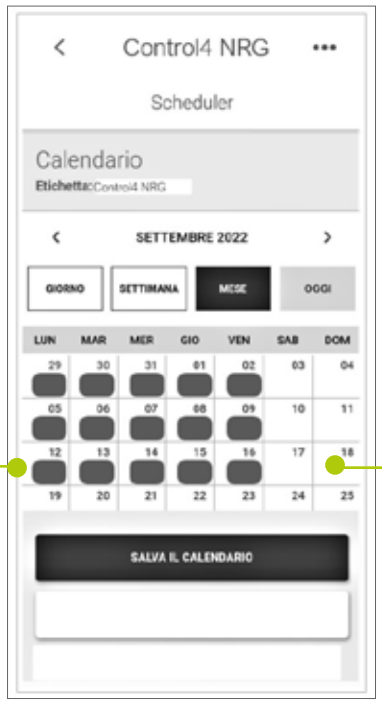
Zone temperature setpoint

Zone operating status
- Active in “comfort”
- Active in “economy”
- Off

The screens shown are for demonstration purposes only.

Scheduler

Allows comfort scheduling from the App

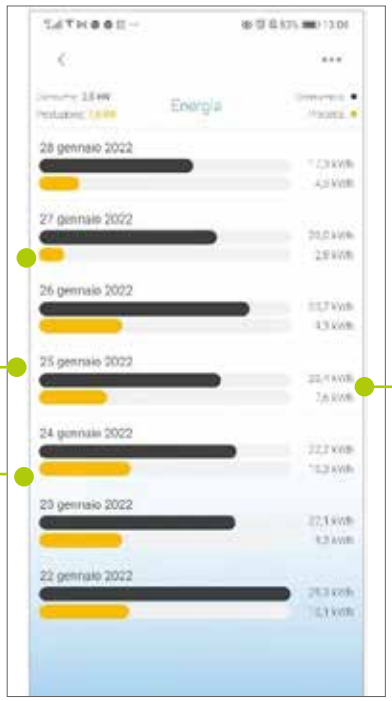


Presence of a calendar event

An empty cell means that no events have been scheduled for that day

Energy page

Designed to display the energy data of the last 7 days. Data are acquired by the electricity meters located in the system for the photovoltaic system



Energy produced by the photovoltaic system

Total energy consumed by the system from the two electricity meters (air conditioning system and domestic users)

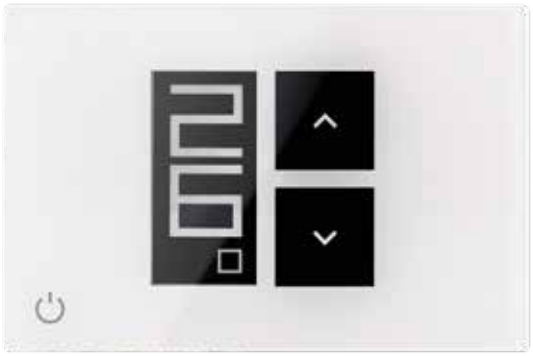
Single day energy values

SOLUTIONS

The screens shown are for demonstration purposes only.

HID-TConnect2

Chronothermostat with temperature control and management via App / Voice control



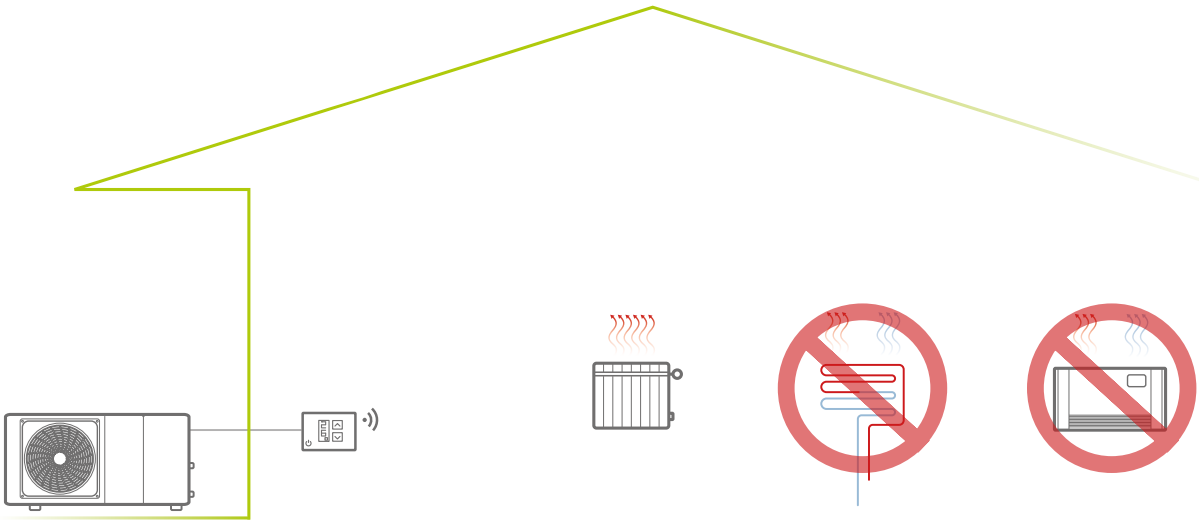
- ✓ Touch-screen management via a thermostat, via App from your smartphone, via Alexa / Google Home with voice-activated control
- ✓ Manages the mode change or call in two areas (with the SwitchConnect accessory)
- ✓ Can be connected via Wi-Fi to create a wireless system (with the SwitchConnect accessory)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

Management via App

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

Cabled connection to the generator

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

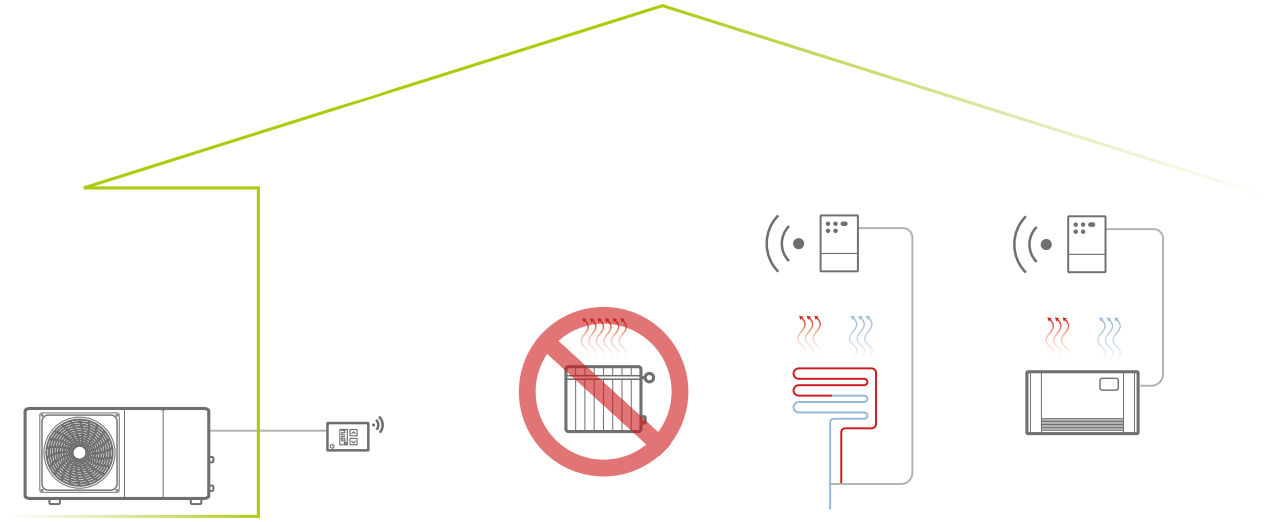


Note: mode change and distribution system management not available

SOLUTIONS

Cabled connection to the generator and Wi-Fi distribution connection

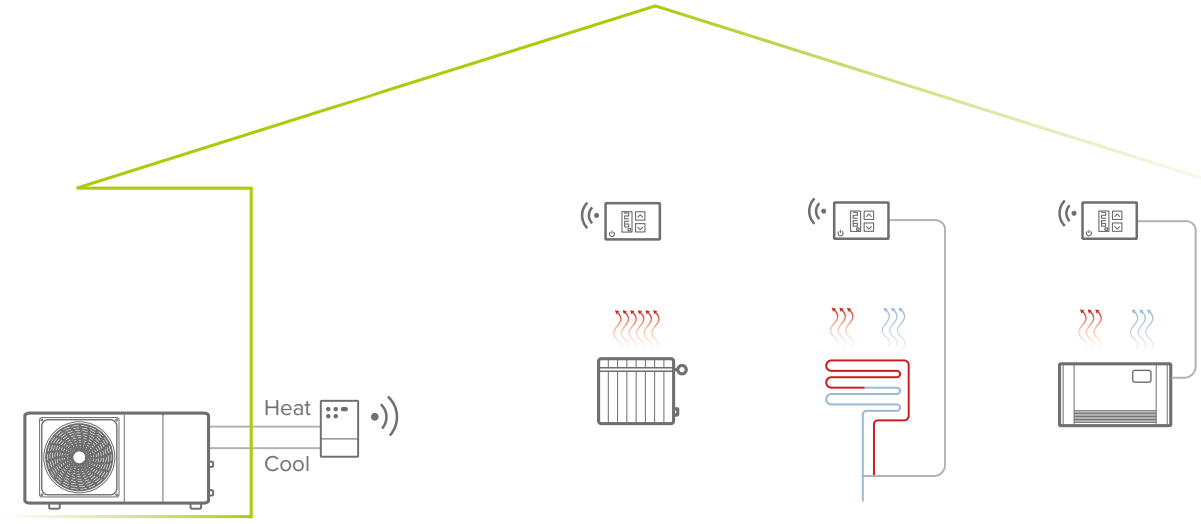
HID-TConnect2 is managed as standard supplied with the dedicated Clivet Home Connect App, available on Google Play and App Store. This is used to set the main functions, such as changing the ambient set-point or weekly scheduling, or to check the temperature and consumption log.



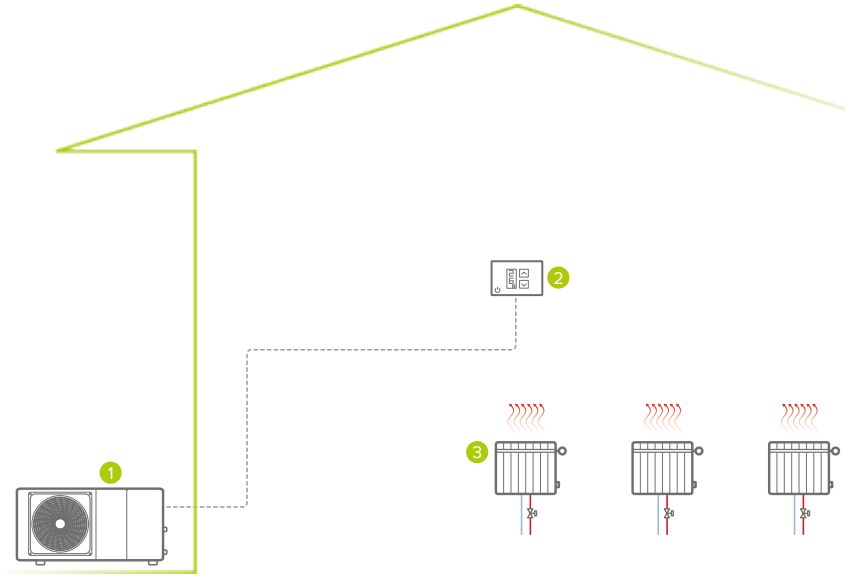
Note: the mode change must be managed in the heat pump (from the user interface or the MSmart Home App).

Wi-Fi connection to the generator and cabled distribution connection

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

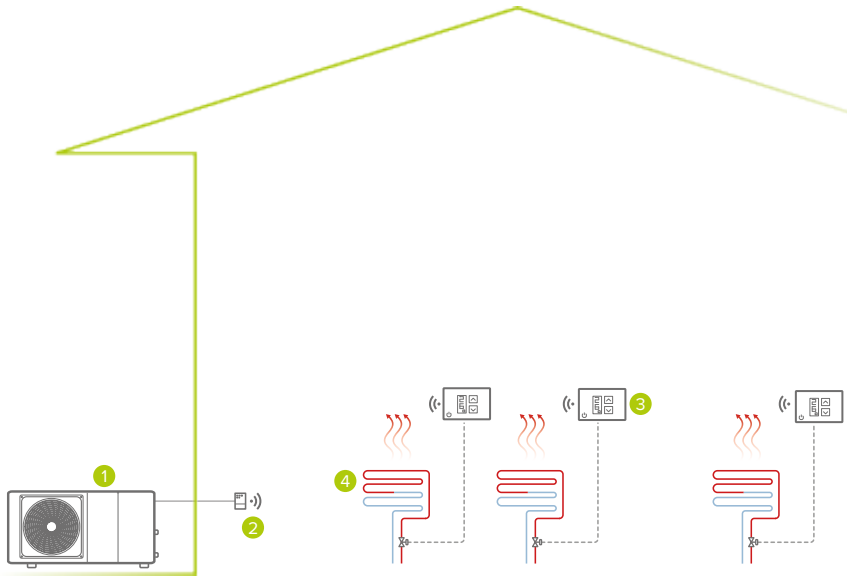


Note: in the event of conflicting heating / cooling requests, priority is given to cooling.



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

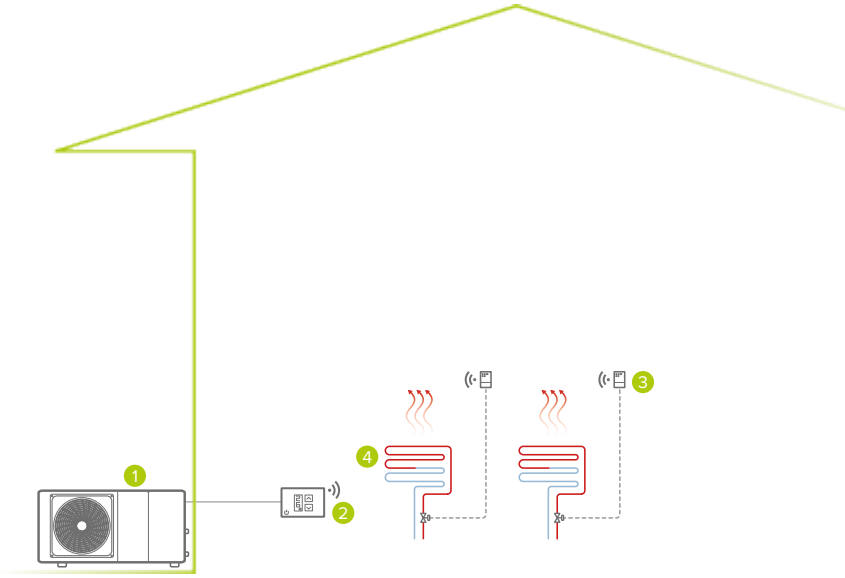
1. outdoor unit
2. HID-TConnect2
3. radiator



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

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

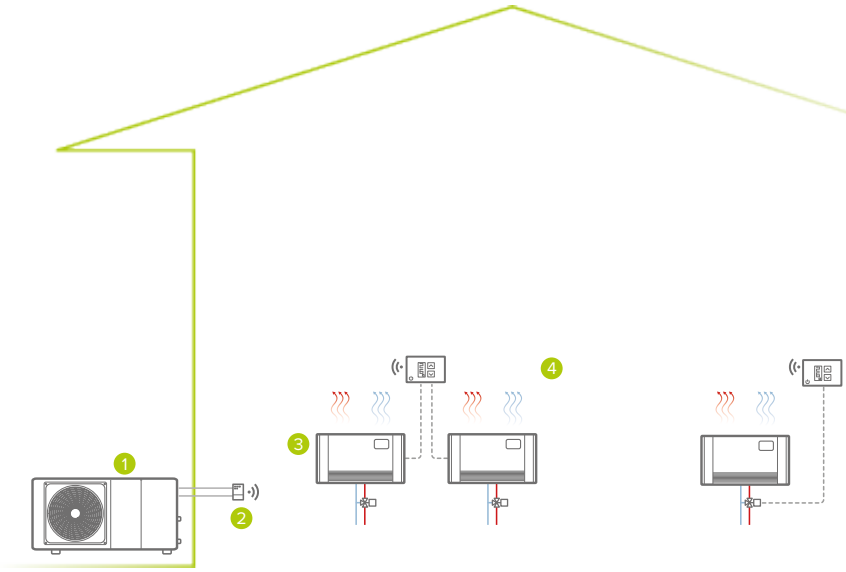
Note: can support up to 6 thermostats



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

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

Note: can support up to 2 SwitchConnect

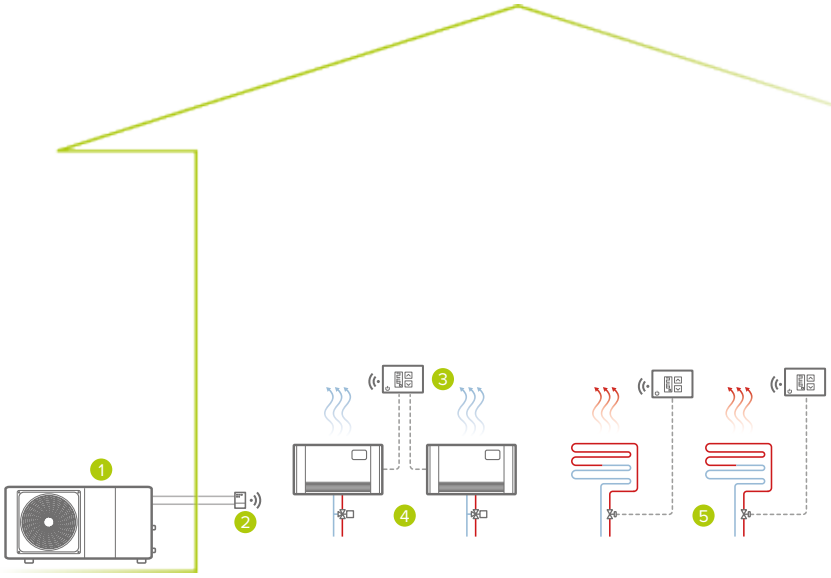


Heating/cooling single area system, radiant / terminal units, Wi-Fi connection to the generator and cabled distribution connection

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

Note: can support up to 6 thermostats.

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



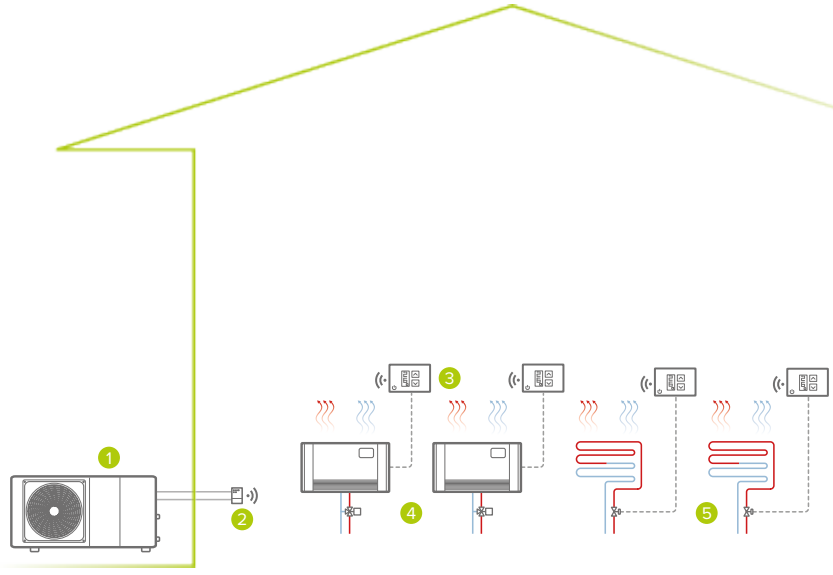
Dual emitter system, radiant / terminal units, Wi-Fi connection to the generator and cabled distribution connection

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

Note: can support up to 6 thermostats.

The mode must be changed directly on the unit

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



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

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

Note: can support up to 6 thermostats.

The mode must be changed directly on the unit

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

INTELLIPLANT

NEW

Management and optimisation system for centralised residential systems

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

Safety and professionalism

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

System managers

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

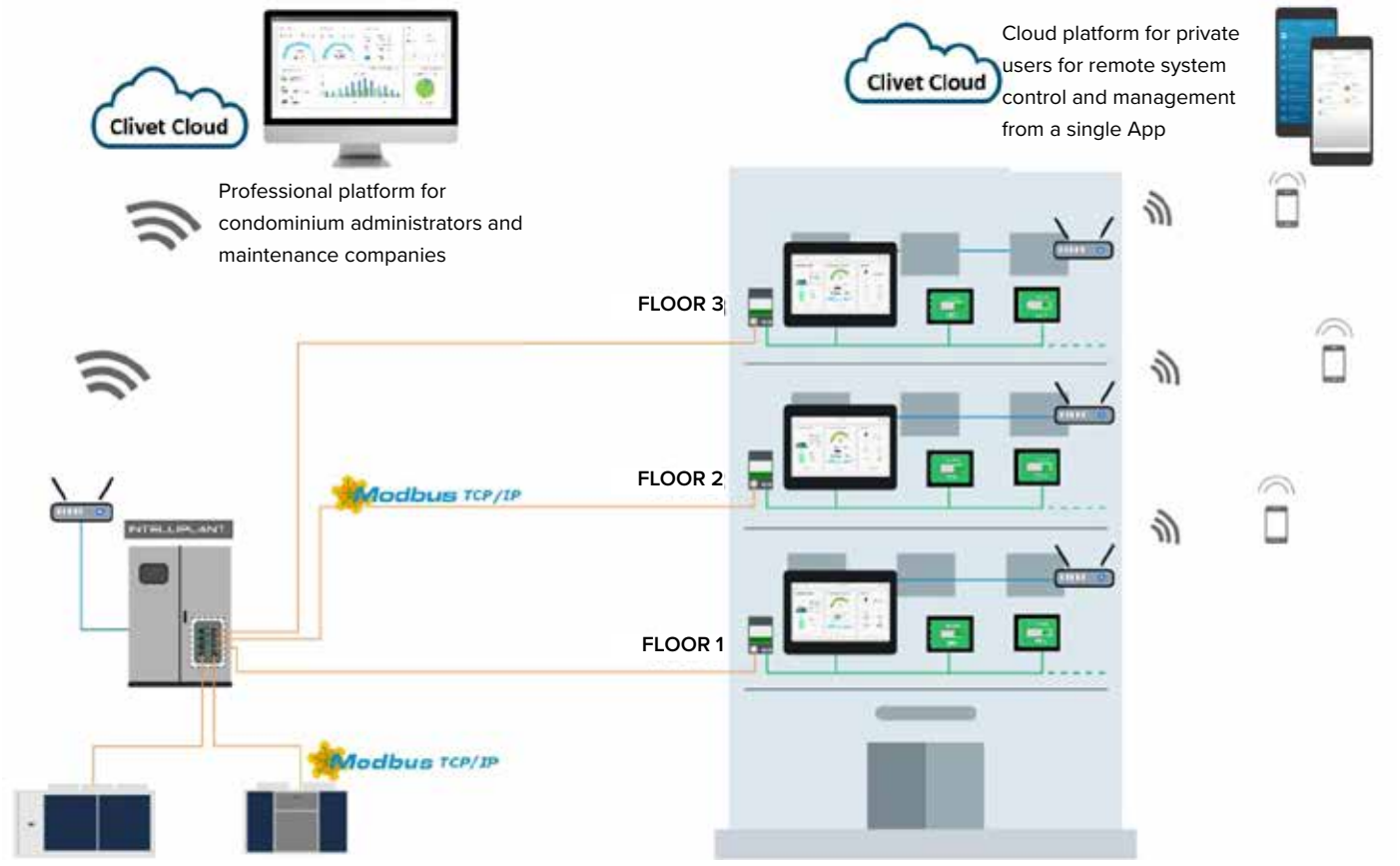
- ✓ Secure management by connection to the Clivet cloud for professional environments
- ✓ Management of operating parameters such as temperature and seasonal mode change
- ✓ Scheduled and manual system switch-on
- ✓ Wear check of the main components
- ✓ Management of scheduled and preventive maintenance
- ✓ Online management of system documentation
- ✓ Lower maintenance costs, prevention of system downtime due to faults
- ✓ Management of thermal energy produced by the central heating plant and electricity consumption
- ✓ Calculation of system efficiency
- ✓ Consumption metering via connection to the Control4 NRG energy assistants of the housing units

Private users

Each housing unit is managed by the Control4 NRG energy assistant, which optimises room comfort while reducing energy consumption.

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

Example of infrastructure



UNIT 1:

STANDARD UNIT FOR HEATING AND COOLING

UNIT 2:

HIGH TEMPERATURE

Central heating plant

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

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

MULTI-SITE SYSTEM

Centralised management of sites located across the country from head office

CLIVET CLOUD, THE SYSTEM IN YOUR HANDS

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

NOTES

NOTES

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SERIES	SIZE FROM	TO	MODEL NAME	GROUP	PAGE
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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	2.1	5.1	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
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ELFORoom[2]	003.0	017.0	ELFORoom[2]	Terminal units	84
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Clivet, in compliance with Regulation 517/2014, informs that its products contain or function with the use of fluorinated greenhouse gases: R-32 (GWP 675), R-410A (GWP 2087,5), R-134a (GWP 1430) and R-407C (GWP 1773,85), R-513A (GWP 631), R-1234ze (GWP 7).

ICONS GUIDE

ICONS GUIDE

ENERGY SAVING

Solar integration
Ideal for use with solar thermodynamic systems

Smart Grid ready
Ideal for integration with Smart Grid technology

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

nZEB
Designed for buildings with almost no energy consumption

Cascade
Many units can be used together to provide big capacities

€-Switch
Activates the most cost-effective generator

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

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

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

Class A environmental control
Ensures high levels of energy performance.

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

Quick start-up
Quick system startup.

Instantaneous energy
It displays the instantaneous energy values of the system.

COMFORT

Heating/Cooling
For both heating and cooling

DHW
Produces Domestic Hot Water

Dehumidification
Removes humidity in the room

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

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

Silent
For more silent operation

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

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

High temperature
Produces heating at high temperature

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

Humidity control
Independent humidity management for each zone.

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

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

Differentiated temperatures per area
Independent comfort management for each zone.

RELIABILITY

Condensate drain pump
Condensate disposal with a dedicated pump

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

Keymark
Performance certified by CEN

ProdottiQualità CasaClima
Product excellence certified by the KlimaHaus / CasaClima agency

HEALTH

High Density filter
Filters the air inlet

Air renew
Exchanges the air inside with air from the outside

Air purification
Purifies incoming air

Eco-friendly refrigerant
Uses environmentally friendly refrigerant.

Renewable Energy
Uses only renewable energy, with zero CO_2 emissions

CONVENIENCE

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

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

Contemporaneity
Produces Heating and Domestic Hot Water at the same time

Instant DHW
Quickly produces Domestic Hot Water on demand

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

Weather forecast
Hourly weather forecast service available.

Voice control
Allows control of the system through voice commands.

ON / OFF
Turning on/off the entire system.

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

MANAGEMENT AND CONNECTIVITY

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

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

Remote control
Managed with the remote control

Wired controller
Managed with a wired control

Centralised control
Manageable through centralized controller

Modbus port
Provided with RS485 port

Control via the App
Can be managed via App

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

Clivet Eye monitoring
Can be monitored remotely with Clivet Eye

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

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

FOR OVER 30 YEARS WE HAVE BEEN OFFERING SOLUTIONS TO ENSURE SUSTAINABLE COMFORT AND THE WELL-BEING OF PEOPLE AND THE ENVIRONMENT AND THE ENVIRONMENT

www.clivet.com

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DG24L501GB-00

MideaGroup
humanizing technology

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