CLIVET Home

RESIDENTIAL HEAT PUMPS

HEATING, COOLING AND DOMESTIC HOT WATER

CLIVET | AIR CONDITIONING AND AIR QUALITY PARTNER

Inspiring Solutions since 1989

The heat pump

The heat pump is a unique system for heating, cooling and domestic hot water production.

How does it work?

It transfers thermal energy from the external environment to the internal environment and vice versa.

Its operation is similar to a refrigerator, but reversed: as the refrigerator subtracts heat from food keeping it cool and disperses it in the room where it is located, in the same way the heat pump draws heat energy from outside and transfers it to the indoor environment to heat or cool or produce domestic hot water.

To distribute the heat or cold inside a building, the heat pump normally uses water, as a boiler, and flows it through radiators, terminal units or radiant floors.

There are various types of heat pumps. They can exchange the thermal energy with the outside in different ways:

- ✓ AIR - called Air-Water: they exchange heat with outside air and are the most common;
- ✓ WATER - called Water-Water: they exchange heat with groundwater, a well or a water loop specifically realized;
- ✓ GROUND - called Geothermal: they exchange heat with the ground through geothermal probes.

Why is it a good solution for you and the planet?

The heat pump saves energy, reduces carbon dioxide emissions and respects the environment. During its operation uses about 75% of renewable energy from the external environment: unlimited energy and always available energy. For the remaining 25% of energy requirements, photovoltaic panels can be combined, for a 100% ecological solution.

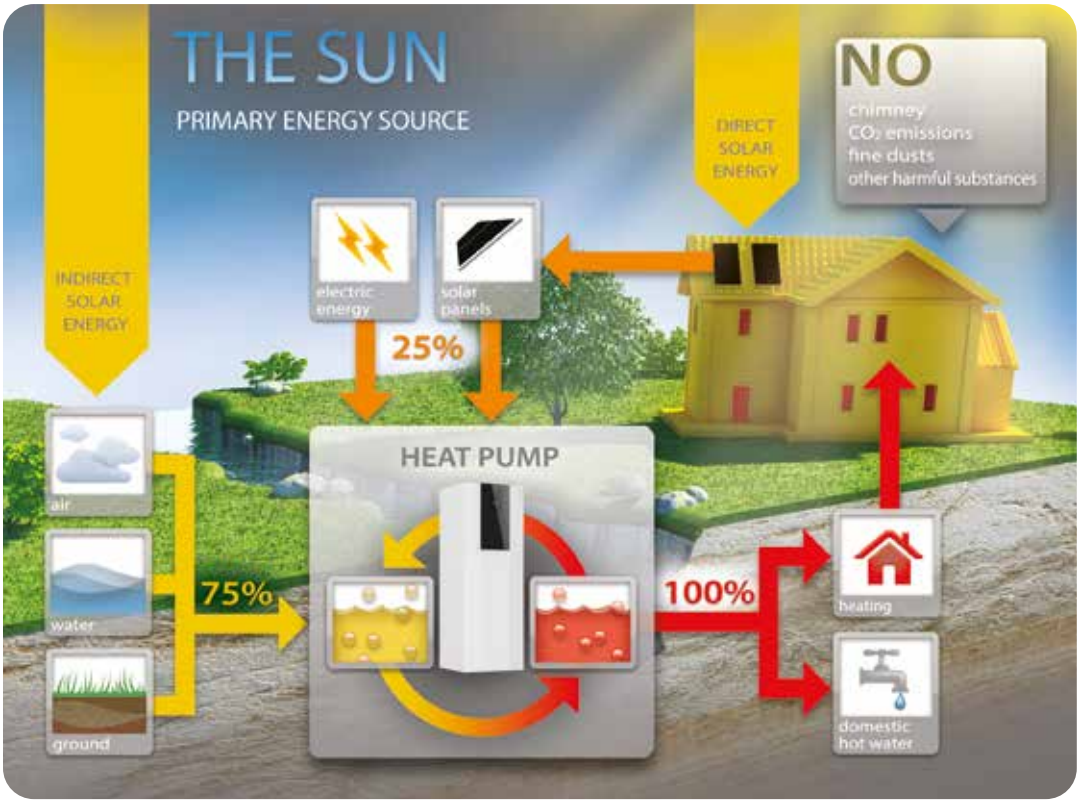
Where is it installed?

Depending on the type, the heat pump can be installed in a technical room inside the house, in the understairs, on the hallway, outside the house, on the balcony.

How to size the heat pump?

The heat pump suitable for a system must be selected by a specialist.

The main parameters normally are: insulation and climatic zone of the building, volume and rooms to be air conditioned, number of inhabitants, type of heating (radiators, radiant floor, ...).



Why choosing Clivet heat pumps?

Annual Savings

- ✓ Savings on heating, **with a reduction in energy consumption and therefore in the bill costs up to 50%** compared to a traditional condensing boiler.
- ✓ **Heating and cooling with a single system**: it is therefore not necessary to install two systems.

Environmental Impact

- ✓ In 2009, with the European RES Directive (Renewable Energy Sources), heat pumps were recognized as technologies that use renewable energy. Therefore the heat pump systems contribute to increase energy efficiency and the use of thermal renewables, improves the energy class of the building, the quality of the air and contributes to the achievement of the share of renewable energy assigned to each country.
- ✓ Heat pumps don't use fossil fuels and **do not have local combustion emissions**.

Flexibility and quietness

The heat pump is **suitable for every situation**:

- ✓ new buildings or retrofit: it can be integrated into an existing system or in a new one;
- ✓ all residential areas: maximum quietness both outside and inside the dwellings;
- ✓ hot or cold climates, even with an integrated additional boiler to operate in extreme environmental conditions.

TAX Credit

- ✓ Clivet heat pumps allow to access to the tax credit/government incentives for improvements of energy efficiency. Ask Clivet representative of your area what are the incentives you can obtain with Clivet heat pump systems.

30 years since 1989 heat pumps

Over 30 years of experience

Clivet has been working for over 30 years with success supplying heat pump systems for commercial applications, a sector that in the last few years has been able to identify the heat pump as an efficient system that allows considerable savings.

The experience gained in this sector allowed Clivet to have a revolutionary approach also in the residential sector, offering innovative air conditioning systems that take advantage of the heat pump technology and guarantee year-round well-being for all the types of houses with a single system.

Warranty and services

Clivet's after-sales service reaches its Customers through a well-organized support network that is always on hand, as high technology levels require fast and skilled services.

Moreover, Clivet has facilities dedicated to the training of its after-sales service, Clivet University, with over 500 m^2 rooms for practical and theoretical trainings, where professionals can test Clivet systems operating in real conditions.

The service is available in most of the countries around the world through subsidiaries or selected Service Centres.

Learn more about the warranty and service conditions for your country by contacting the distributor or the branch closest to you.

Certifications

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

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

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

In 2015, Clivet became a partner of **CasaClima**, as a result, Clivet is now part of a network of companies renowned for their technical expertise and constant focus on sustainable home management.

Where applicable.

https://www.agenziacasaclima.it/en

KEYMARK is a mark recognized in many European countries for the provision of incentives for the installation of heat pumps for room heating and the production of domestic hot water.

The countries that recognize the mark and the Certified Products are available on https://keymark.eu/en/products/heatpumps/heat-pumps. Where applicable.

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

Check the validity of the current certificate: www.eurovent-certification.com

The wide range of Clivet products and complete systems comply with the requirements of the implementing measures for ErP (Energy related Products) Directives 2009/125/EC (Eco-design) and 2010/30/EU (Energy labelling), whose purpose is to reduce the energy consumption of products for heating, cooling, ventilation and hot water production, encouraging the user towards energy-efficient choices.

Directives 2009/125/EC and 2010/30/EU include the following Regulations: (EU) 206/2012, (EU) 626/2011; (EU) 811/2013, (EU) 812/2013, (EU) 813/2013, (EU) 814/2013; (EU) 1253/2014, (EU) 1254/2014; (EU) 2016/2281.

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

A solution for every home

NEW BUILDINGS

Building and system working together as one

Solutions designed to be fully **integrated into the configuration of each house**, following specific requirements that may depend on the climate, the need for mechanical ventilation or dehumidification, structural insulation, the presence of renewable sources and much more.

These systems are complete and highly customisable: they are already **conceived at the design stage** to not only fulfil Heating, Cooling and Domestic Hot Water production, but also Ventilation, Air renewal and heat recovery. They are also optimised to provide maximum efficiency and quiet operation, as well as the lowest possible consumption levels.

- ✓ SPHERA EVO 2.0
- ✓ SPHERA EVO 2.0 Invisible
- ✓ Edge EVO 2.0 / Edge F
- ✓ 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 ELFOControl.

- ✓ 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 Hybrid version
- ✓ ELFOSun^3
- ✓ ELFOFresh EVO

REPLACEMENTS

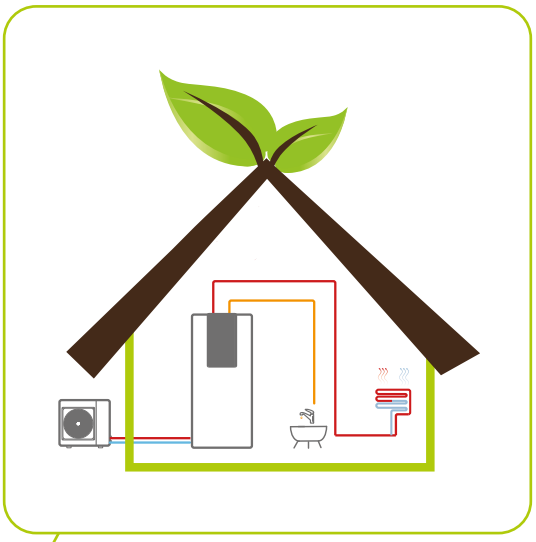
Get maximum results with minimum effort

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

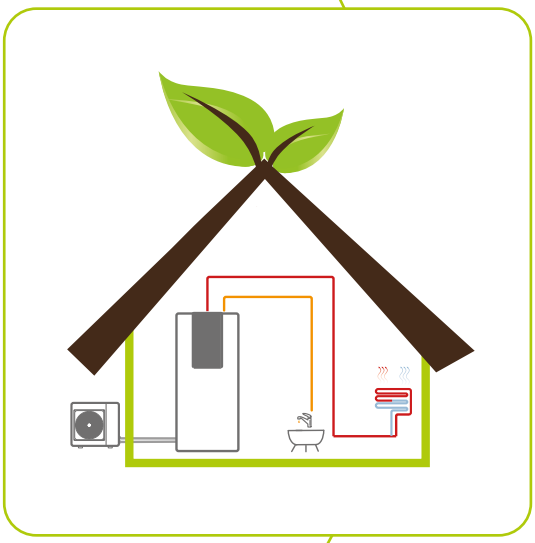
Three solutions for every need



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.

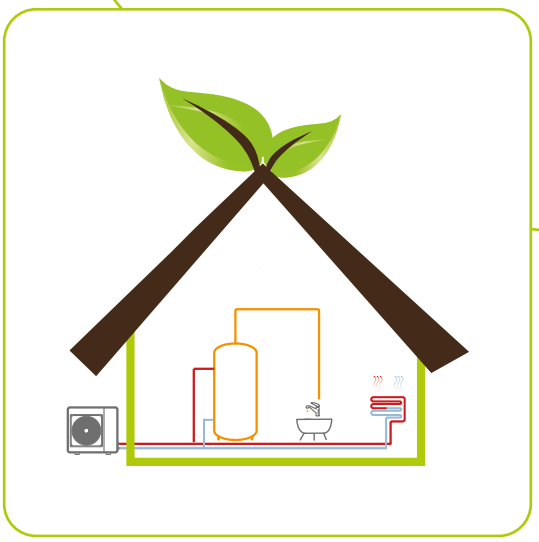
The installation does not require an F-GAS licence and is a good compromise between plug&play systems and more complex installations.



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.

REFRIGERANT-SPLIT

SPHERA EVO 2.0

SPHERA EVO 2.0 Box

SPHERA EVO 2.0 Invisible

SPHERA EVO 2.0
EASYHybrid Box

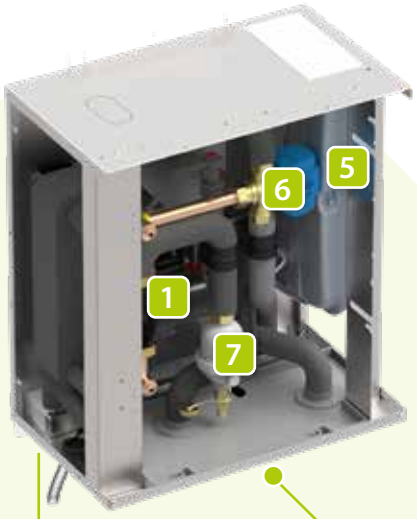
SPHERA EVO 2.0
EASYHybrid Tower

Electric heat pumps

SPHERA EVO 2.0 Tower
Full integrated heat pump

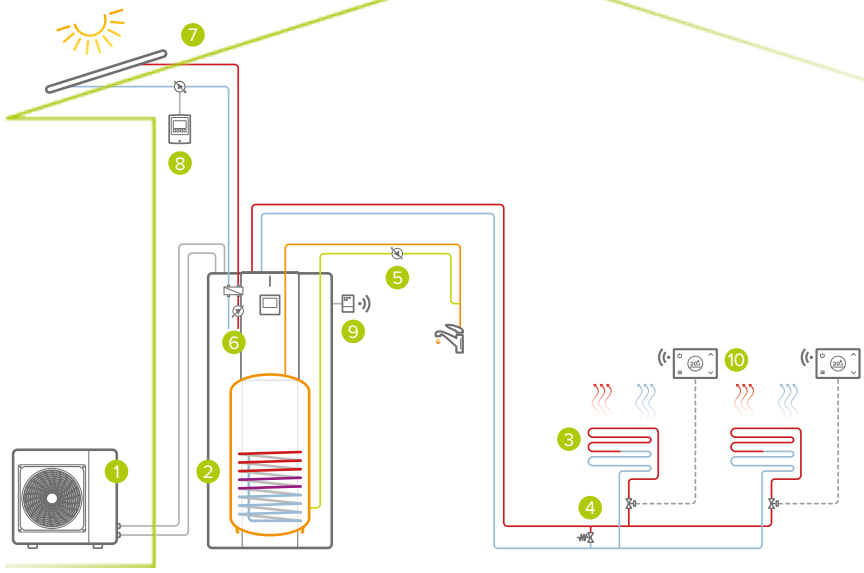
It allows to modulate the power supplied according to the real demand of the system, avoiding frequent on-off cycles, safeguarding the durability of all components over time.

- ✓ installation elements and storage tank integrated in the heat pump
- ✓ DC inverter compressor



SPHERA EVO 2.0 Box
Simplified heat pump

- ✓ storage tank and additional system elements not integrated in the heat pump
- ✓ DC inverter compressor



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

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

✓ New WiFi Chronothermostat

Home temperature control also remotely, via smartphone or tablet

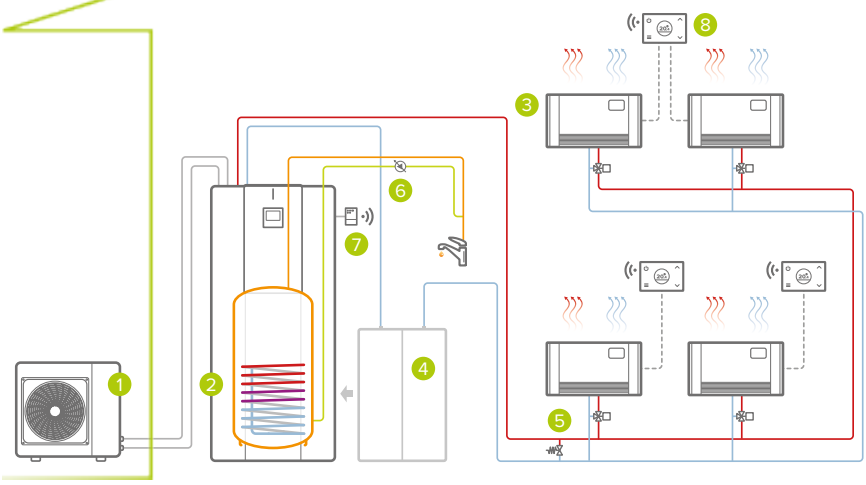
High efficiency DC inverter circulator

The maximum power generated by the system is only required for short periods of time. It is therefore essential to have the maximum efficiency in the operation at partial loads. This allows a reduction in annual costs.

SPHERA EVO 2.0 external unit

- ✓ Compact design
- ✓ Silence
- ✓ DC Inverter compressor
- ✓ Ice Protection System: to prevent the formation of ice at the base of the battery thanks to the special subcooling circuit, ensuring a reduction of defrosting

1. High efficiency DC inverter circulator
2. Domestic hot water storage:
   - 190 or 250 litres for SPHERA EVO 2.0 TC
   - 150 litres for SPHERA EVO 2.0 Invisible
3. Ready for connection with solar thermal panels (ELFOSun[3])
4. Connection with sanitary recirculation for SPHERA EVO 2.0 / SPHERA EVO 2.0 Invisible
5. System expansion tanck
6. Domestic hot water production valve
7. Magnetic dirt separator filter



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)

SPHERA EVO 2.0

SQKN-YEE 1 TC + MiSAN-YEE 1 S

Split heat pump for houses with low-medium demand

R-32
Refrig.

Capacity from 4 to 16 kW
Air temperature range from -25 °C to +43 °C
COP > 5

- ✓ 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.

Configurations and Accessories

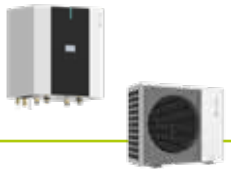
ACSA250X	250 liter DHW tank with aesthetic cabinet
SOLX	Thermal solar management kit
KCSX	Kit for secondary circuit (1 liter circuit breaker + circulation pump)
KIRE2HLX	Two-zone distribution kit: direct + mixed
KIRE2HX	Double zone distribution unit: direct + direct
DIX	1 liter hydraulic separator
ACI40X	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
HTC2WX	White HID-TConnect2 chronothermostat for temperature control
SWCX	Receiver / IoT switch SwitchConnect
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

ALTO DESIGN

The Alto Design naming and the clean and taut lines characterising SPHERA EVO are precise references to the company geographical position and Dolomites mountains where the headquarters is located, while the faint white chromatic range calls to mind concepts of freshness and purity, intrinsic of the Clivet brand.

SPHERA EVO 2.0 Box

SQKN-YEE 1 BC + MiSAN-YEE 1 S



Split heat pump for houses with low-medium demand

App CONTROL4 NGR Full Inverter DC

R-32 Refrig.

Capacity from 4 to 16 kW
Air temperature range from -25 °C to +43 °C
COP > 5

- ✓ 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.

Configurations and Accessories

ACS200X	200 liter DHW tank
ACS300X	300 liter DHW tank
ACS500X	500 liter DHW tank
SCS80X	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
HTC2WX	White HID-TConnect2 chronothermostat for temperature control
SWCX	Receiver / IoT switch SwitchConnect
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	Simplified installation kit with fittings for SPHERA EVO 2.0 Box Hybrid

SPHERA EVO 2.0 Invisible

SQKN-YEE 1 IC + MISAN-YEE 1 S

Split heat pump for block of flats with medium-low energy consumption

R-32
Refrig.

Partner
KlimaHaus CasaClima

Capacity from 4 to 10 kW
Air temperature range from -25 °C to +43 °C
COP > 5

- ✓ 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.

Configurations and 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 unit, control unit and expansion tank
KPRSX	DHW recirculation pump kit (for installation inside the unit)
KCSX	Kit for secondary circuit (1 liter circuit breaker + circulation pump) for installation inside the unit
KIR2HLX	Two-zone distribution kit: direct + mixed
KIR2HX	Two-zone distribution kit with management PCB: direct + direct (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 inside the unit)
KCIBOIX	IH hybrid version connection kit
ADI50X	In-wall cabinet for inertial storage tank or solar 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)
ANEDX	Electronic anode to protect DHW boiler
HTC2WX	White HID-TConnect2 chronothermostat for temperature control
SWCX	Receiver / IoT switch SwitchConnect
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

Hybrid heat pumps

SPHERA EVO 2.0 EASYHybrid Box
Simplified hybrid heat pump

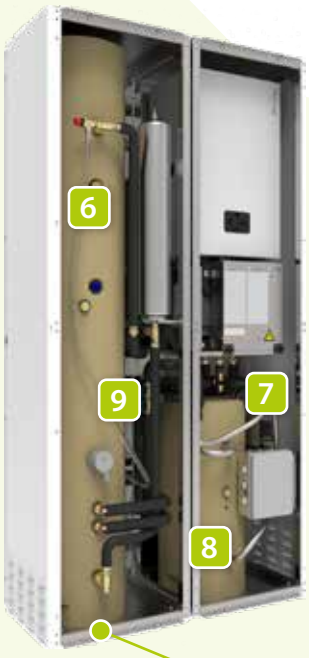
It allows to modulate the power supplied according to the real demand of the system, avoiding frequent on-off cycles, safeguarding the durability of all components over time.

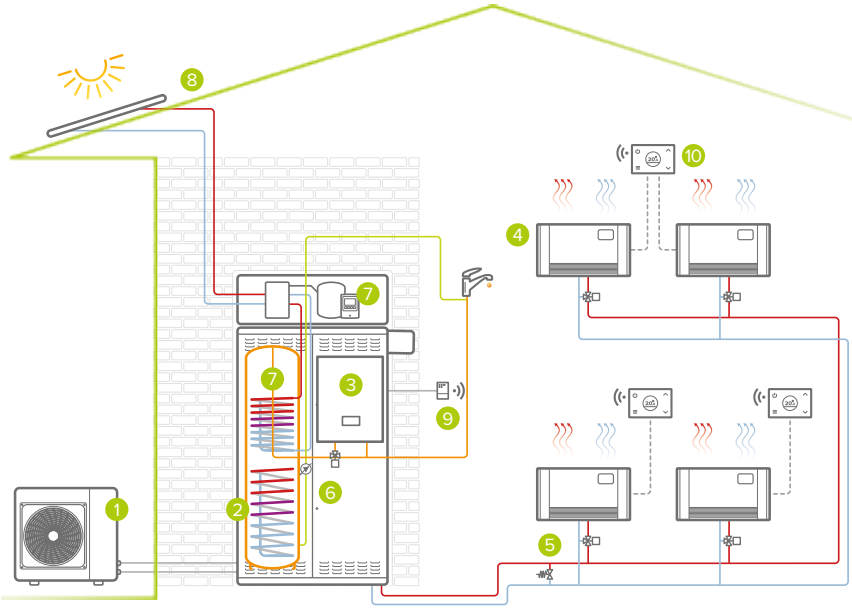
- ✓ the heat pump and boiler can work at the same time supporting each other or replacing each other
- ✓ DC inverter compressor

SPHERA EVO 2.0 EASYHybrid Tower
Full integrated hybrid heat pump

It allows to modulate the power supplied according to the real demand of the system, avoiding frequent on-off cycles, safeguarding the durability of all components over time.

- ✓ installation elements and storage tank integrated in the heat pump
- ✓ DC inverter compressor





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

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

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

✓ INTEGRATION

The regulation favours the use of the heat pump, but if the required load is higher than the power generated by the heat pump, the boiler is automatically activated, raising the temperature from 60°C to 75°C.

✓ REPLACEMENT

It is possible to choose the turning temperature, that is the outdoor temperature under which the heat pump is switched off and the boiler is activated.

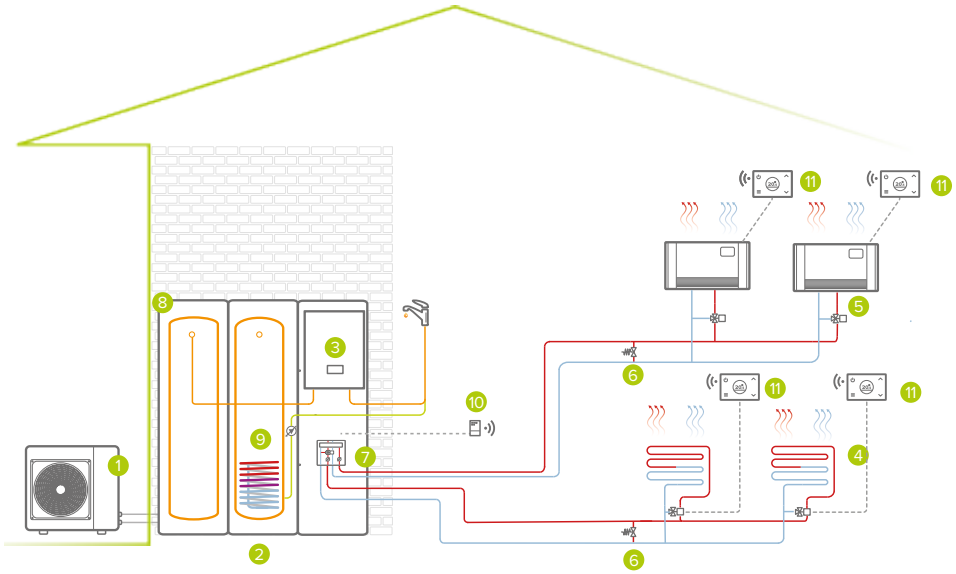
High efficiency DC inverter circulator

The maximum power generated by the system is only required for short periods of time. It is therefore essential to have the maximum efficiency in the operation at partial loads. This allows a reduction in annual costs.

SPHERA EVO 2.0 external unit

- ✓ Compact design
- ✓ Silence
- ✓ DC Inverter compressor
- ✓ Ice Protection System: to prevent the formation of ice at the base of the battery thanks to the special subcooling circuit, ensuring a reduction of defrosting

1. Instantaneous condensing boiler
2. 8- or 10-litre system expansion tank
3. Electrical control panel
4. High efficiency DC inverter circulator
5. Gas/water plate exchanger
6. 150 L DHW tank with coil
7. 1-zone booster kit (optional)
8. System inertial storage kit (optional)
9. 3-way valve



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

1. outdoor unit
2. indoor unit
3. hybrid module (heat pump/boiler)
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-TConnect2 Wi-Fi chronothermostat (optional)

SPHERA EVO 2.0 EASYHybrid Box

SQKN-YEE 1 BH + MiSAN-YEE 1 S

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

App CONTROL4 NGR

R-32
Refrig.

Capacity from 4 to 16 kW
Boiler capacity from 24 to 34 kW
Air temperature range -25 °C to +43 °C
COP > 5

- ✓ 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

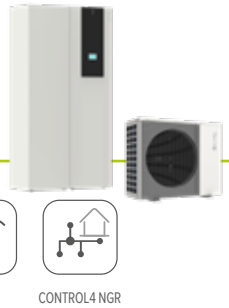
Sphera EVO 2.0 EASYHybrid Box has a function that can be selected directly from the interface, which makes it possible to calculate the resource (heat pump and/or boiler) that is able to fulfil the heat demand with the lowest economic cost in every operating condition. To use the €-Switch function, simply 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).

Configurations and 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
ACI40X	40 liter system inertial storage tank
DI50-2X	50 liter hydraulic separator
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
SWCX	Receiver / IoT switch SwitchConnect
DTX	Auxiliary drain pan
APAVX	Kit of antivibration mounts for floor installation
ASTFX	Antivibration mounts kit for installation on the brackets for wall installation or drain pan
KSIPX	Kit with wall fixing brackets
HTC2WX	White HID-TConnect2 chronothermostat for temperature control

SPHERA EVO 2.0 EASYHybrid T

SQKN-YEE 1 BH + MiSAN-YEE 1 S



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

R-32
Refrig.

Capacity from 4 to 16 kW
Boiler capacity from 24 to 34 kW
Air temperature range from -25 °C to +43 °C
COP > 5

- ✓ 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.

Configurations and Accessories

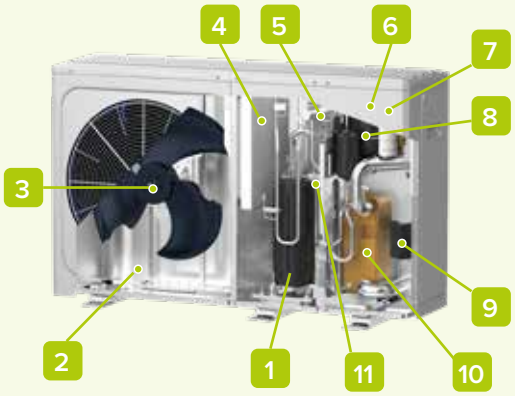
TUNOX	Main aesthetic cabinet for Sphera EVO 2.0 EASYHybrid
TDUEX	Additional 150 liter DHW tank with aesthetic cabinet
TDUESX	Additional 150-litre DHW boiler with solar coil with aesthetic cabinet
KCACSX	Pipe connection kit for TDUEX, TDUESX accessories
TTREX	Additional aesthetic cabinet for system accessories
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	Secondary circuit kit for installation in unit (1-litre hydraulic separator + circulation pump + control board)
KIR2HLX	Two-zone distribution unit: direct + mixed (for installation in unit)
KIR2HX	Two-zone distribution unit: direct + direct (for installation in 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-TConnect2 chronothermostat for temperature control
SWCX	Receiver / IoT switch SwitchConnect

MONOBLOC

Edge EVO 2.0 - EXC

Edge F*NEW*

Monobloc heat pumps

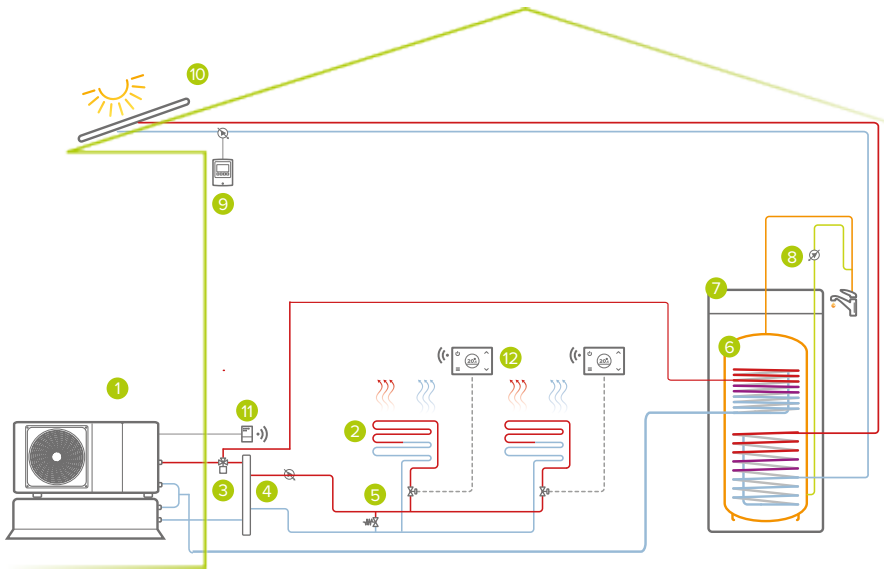


1. Compressor
2. Source side exchanger
3. Fan
4. Sealed inverter panel
5. 4-way reverse cycle valve
6. Relief valve (safety)
7. Sealed electrical panel
8. System expansion vessel (4.8 litres)
9. Water supply pump
10. User side exchanger
11. Lamination valve

EDGE F

The internal design of the machine has been optimised to work with the new R290 refrigerant.

- ✓ New layout of the electrical panels, hermetically separated from the refrigeration circuit
- ✓ Relief valve on the hydraulic circuit
- ✓ New inverter module cooling technology.

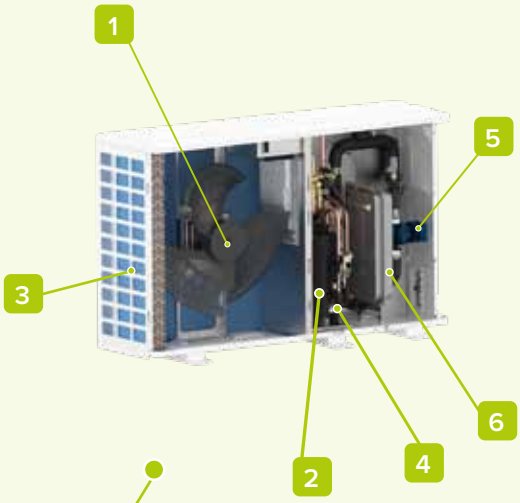


Full electric single-area system with thermal solar:
Heating / Cooling / DHW

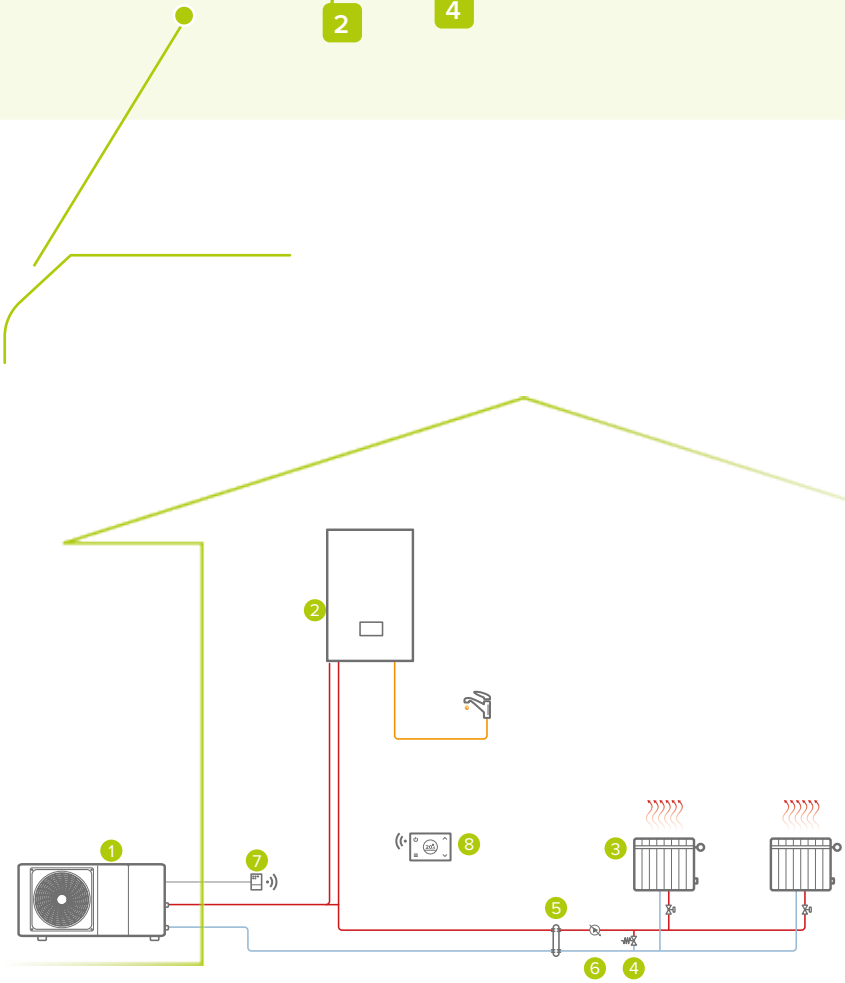
1. outdoor unit
2. heating/cooling zone
3. 3-way switching valve (optional)
4. single-area separator + pump kit
5. bypass*
6. DHW boiler with solar coil (optional)
7. boiler connection kit (optional)
8. DHW recirculation pump (optional)
9. solar circulation kit (optional)
10. ELFOSun³ thermal solar (optional)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

High efficiency DC inverter circulator

The maximum power generated by the system is only required for short periods of time. It is therefore essential to have the maximum efficiency in the operation at partial loads. This allows a reduction in annual costs.



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



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)

Edge F

WiSAN-PME 1 S 2.1÷8.1

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

ECO refrigerant R290
Refrig.

Capacity from 4 to 16 kW
Air temperature range from -25 °C to +46 °C
COP > 5

- ✓ 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.

Configurations and 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

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

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

App

CONTROL4 NGR

R-32 Refrig.

Capacity from 4 to 30 kW
Boiler capacity from 24 to 200 kW
Air temperature range from -25 °C to +46 °C
COP > 5

- ✓ 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.

Configurations and 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

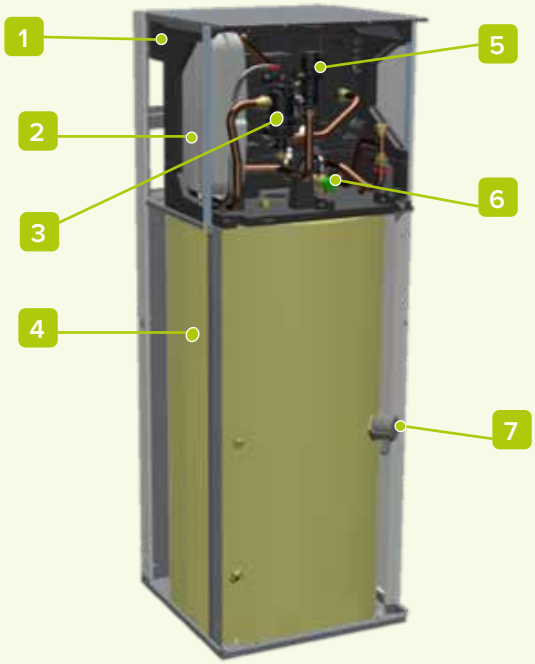
HYDRO-SPLIT

EASYTank[NEW]

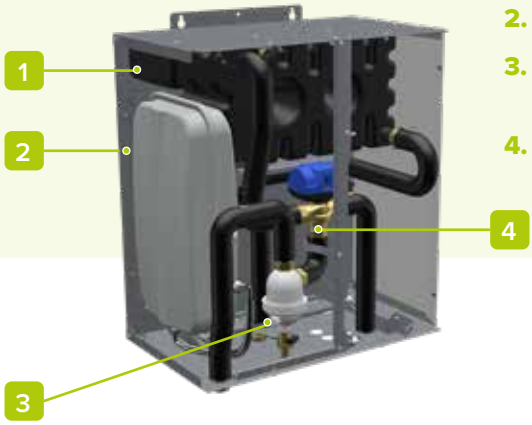
EASYBox[NEW]

EASYIn[NEW]

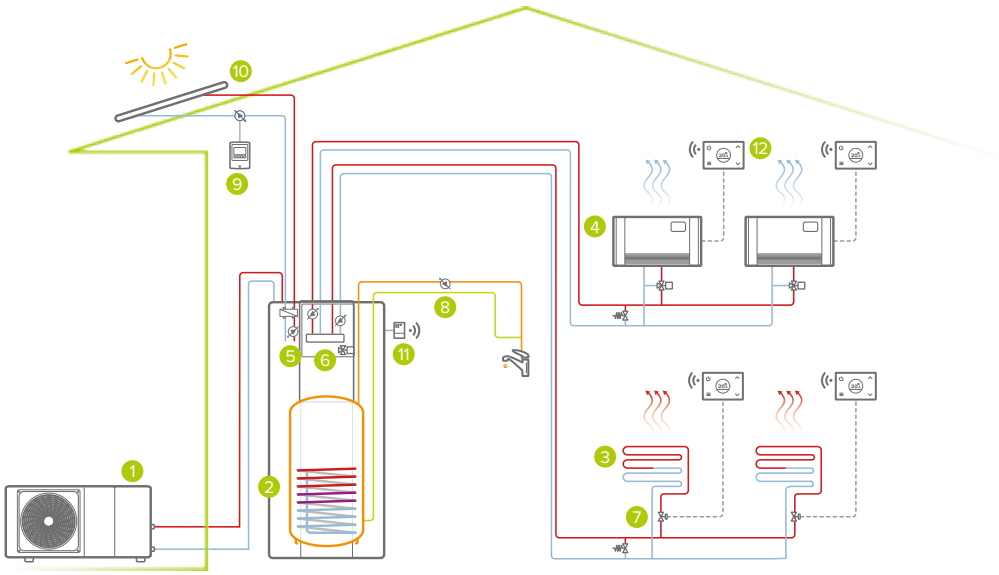
Hydro-split heat pumps



1. Inertial tank
2. Plant expansion tank
3. Magnetic deflector filter + safety valve
4. Domestic hot water storage tank
5. 3-way valve for DHW
6. Thermostatic anti-scald valve
7. Backup electric heater



1. Inertial tank
2. Plant expansion tank
3. Magnetic dirt separator filter
4. 3-way valve for DHW



Two zone + solar system
Heating / DHW

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

✓ VERSATILE

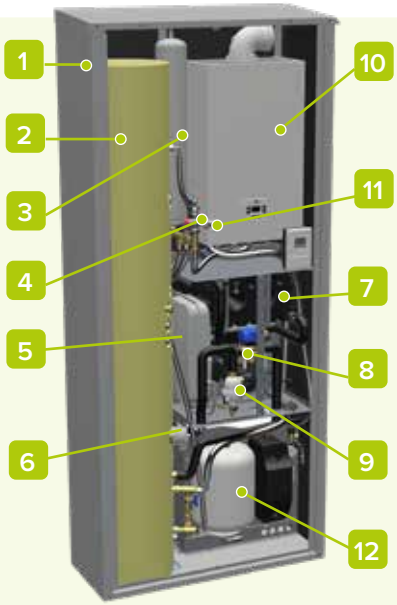
Each module is designed to be combined with the EDGE EVO 2.0 and EDGE F packaged heat pumps.

✓ COMPACTNESS

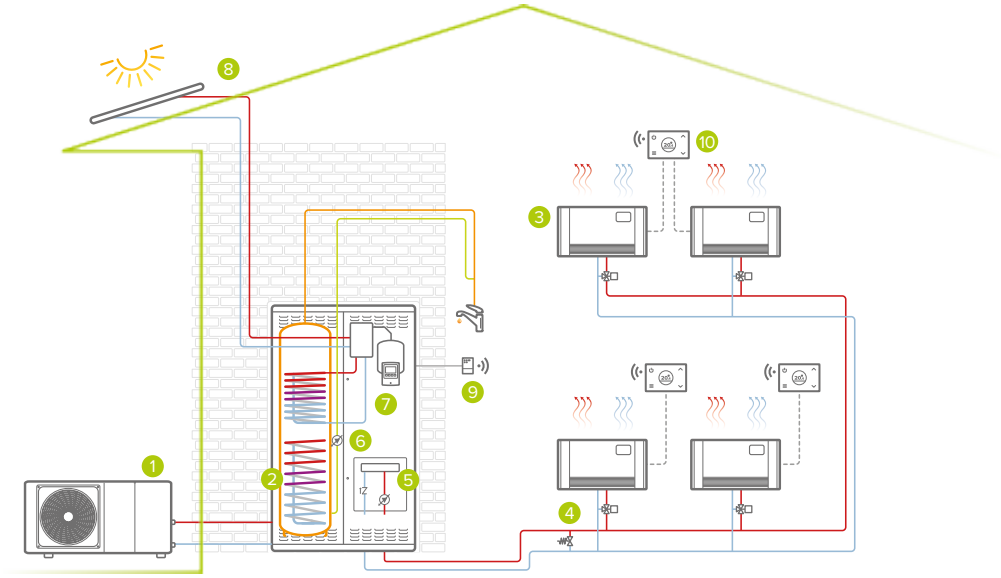
The hydronic modules of the EASY family feature countless combinations of accessories installed inside the modules, limiting the installation impact on the indoor environment.

SIMPLE

The connection of the outdoor unit with the indoor hydraulic module is by means of hydraulic piping and therefore does not require operators with specific refrigeration skills.



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



Single-zone + solar system:
Heating / DHW

1. outdoor unit
2. indoor unit
3. cooling zone
4. Bypass
5. Single zone kit circuit breaker + pump
6. DHW recirculation pump
7. solar connection kit
8. ELFOSun³ thermal solar
9. Receiver / IoT switch SwitchConnect
10. Hid-TConnect2 chronothermostat

Hydro-split EASYTank

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

Floor-standing indoor unit with DHW storage for Hydro-Split systems

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

App

CONTROL4 NGR

ECO refrigerant R290 Refrig.

R-32 Refrig.

Capacity from 4 to 16 kW
Air temperature range -25 °C to +43 °C
COP > 5

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

Versatile to suit every type of system

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

Interior accessories

KCSIX	Single zone kit
KIR2HLX	Integrated bi-zone distribution unit: direct + mixed
KIR2HX	Bi-zone integrated distribution group: direct + mixed
EH024X	Integration heater 2-4 kW
EH3X	Integration resistor 3 kW
EH6X	Integration resistor 6 kW
EH9X	Integration resistor 9 kW
SICGX	Intermediate heat exchanger for glycol circuit
SOLX	Solar exchanger kit plus DHW circulation pump.

External accessories

ACI40X	40 liter system inertial storage tank
COFX	Aesthetic cover for inertial storage tank
VEACSX	Sanitary expansion tank

Hydro-split EASYBox

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

Wall-mounted indoor unit for Hydro-split systems

App CONTROL4 NGR

Refrig. Refrig.

Capacity from 4 to 16 kW
Air temperature range from -25 °C to +43 °C
COP > 5

- ✓ Compact module
- ✓ Plug and play
- ✓ Complete (filter - 3-way - inertial)
- ✓ Intuitive connections

Universal

EASYBox is the hydraulic module with dimensions similar to a boiler that can contain inside it the hydraulic components to connect the heat pump to the heating and cooling system. It is ready to be combined with the EDGE EVO 2.0 and Edge F series monobloc heat pumps from size 2.1 to 8.1, for a high-end heating and cooling system.

Interior accessories

KCSIX	Single zone kit
KIRE2HLX	Two-zone distribution kit: direct + mixed
KIRE2HX	Double zone distribution unit: direct + direct
EH024X	Integration heater 2-4 kW
EH3X	Integration resistor 3 kW
EH6X	Integration resistor 6 kW
EH9X	Integration resistor 9 kW
SICGX	Intermediate heat exchanger for glycol circuit

External 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
ACI40X	40 liter system inertial storage tank
T1BX	10m water temperature probe
T1B30X	30m water temperature probe
VDACSX	Thermostated diverter valve for DHW
KISX	Simplified installation kit with fittings for SPHERA EVO 2.0 Box Hybrid
HTC2WX	White HID-TConnect2 chronothermostat for temperature control
SWCX	Receiver / IoT switch SwitchConnect

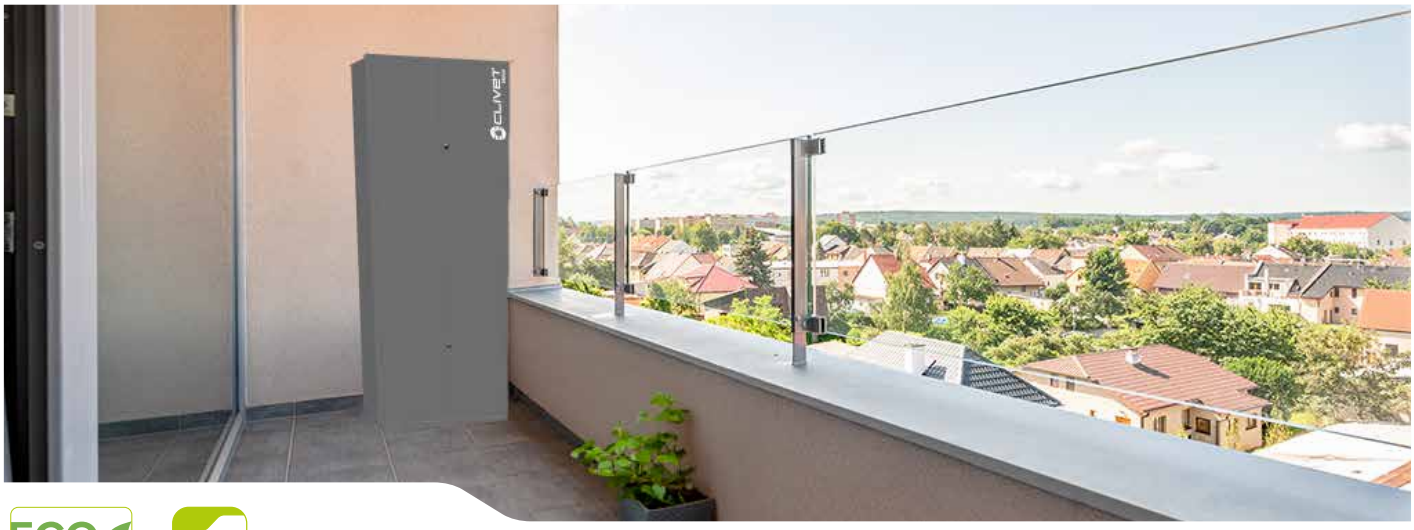
Hydro-split EASYIn

WISAN-YME 1 S + HQCN-NEE 1 IC A
or
WISAN-PME 1 S + HQCN-NEE 1 IC A

Uncased indoor unit for Hydro-split systems

App

CONTROL4 NGR



Refrig.

Refrig.

Capacity from 4 to 16 kW
Air temperature range from -25 °C to +43 °C
COP > 5

- ✓ Ultra thin only 35 cm
- ✓ Complete (deflector filter - expansion vessel - anti-scalding - 15 l inertia)
- ✓ Versatile with a wide range of accessories
- ✓ Quick and easy installation

Installation also visible

EASYIn is the uncased hydronic module, which allows you to have the complete system for heating and DHW production inside the wall of the house, without occupying the smallest surface area inside the building

Interior accessories

ADIX	Main uncased cabinet (Std)
AENVX	Aesthetic cabinet for visible installation (NEW)
ACS150X	150 l DHW cylinder (Std)
KCIACSX	Storage tank connection kit (Std)
KCSX	Single zone kit
KIR2HX	Two zone high kit
KIR2HLX	Two zone high and low kit
EH024X	Integration heater 2 - 4 kW(NEW)
EH6X	Integration heater 6 kW(NEW)
EH9X	Integration heater 9 kW(NEW)
SICGX	Intermediate heat exchanger for glycol circuit (NEW)
ACSA150X	Additional 150 l DHW storage tank
ACSA50X	Additional 50 l DHW storage tank
KCI150X	150 l additional cylinder connection kit
ADIAX	150 l additional DHW storage tank cabinet
KCVEX	Solar controller module + pump + expansion tank
SHWTX	DHW tank with heat exchanger for connection to solar panel
ADI50X	Additional built-in cabinet for storage tank / solar kit
KCIBOIX	Boiler connection kit for instantaneous DHW production

ALWAYS READY FOR THE FUTURE

INSPIRING SOLUTIONS

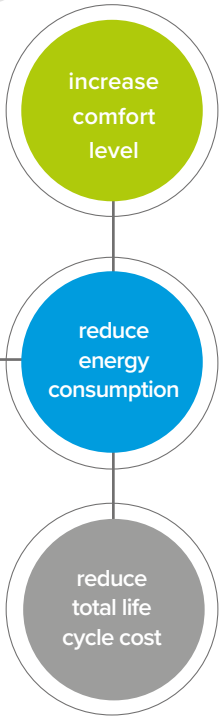
In over 30 years of working on the design, manufacturing and distribution of air conditioning and handling systems, combining high efficiency with minimal environmental impact, Clivet has developed solutions to ensure sustainable comfort and the well-being of people and the environment. Designing and 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.

COMFORT FOR THE PLANET & PEOPLE

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.



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