

SPHERA EVO Invisible Hybrid

SRHME-IC + MDAN YMi + CCGIX 2.1-5.1

NEW

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

ENERGY SAVING



Solar integration (optional)



Smart Grid ready

COMFORT



Heating Cooling



DHW



Silent



High temperature

RELIABILITY



Eurovent



Keymark

HEALTH



Eco-friendly refrigerant

CONVENIENCE



Weekly schedule



Integrated DHW tank

MANAGEMENT AND CONNECTIVITY



Potential-free contact



Modbus port



Wi-fi Control



ELFOControl management



Clivet Eye monitoring



HEAT PUMPS

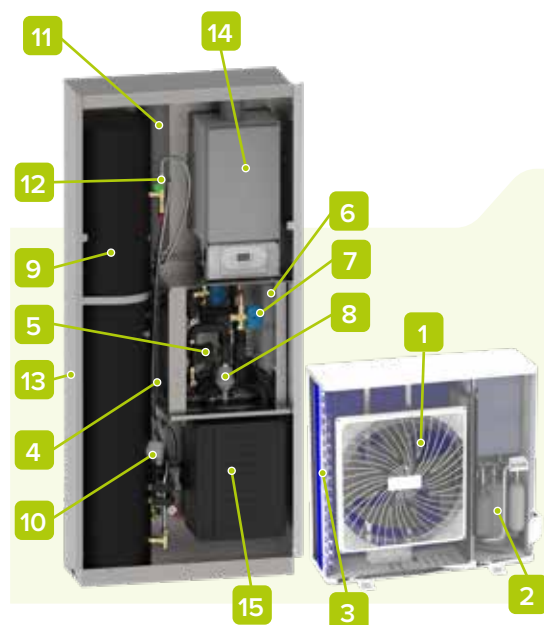


- ✓ Space-saving: completely outdoor installation with uncased wall-mounted unit only 36 cm deep
- ✓ It adapts to every need: solar kit / inertial storage kit / additional storage tank / configurable booster kits
- ✓ Components and uncased cabinet with telescopic frame can be supplied separately
- ✓ 24kW boiler fuelled by methane or LPG, with coaxial or split smoke discharge
- ✓ Advanced connectivity: management via the dedicated MSmartLife App or via the Modbus port with ELFOControl³ EVO included as standard

Using the space well

SPHERA EVO 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.



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. 150L DHW tank with coil
10. 2kW DHW safety heater
11. 8L DHW expansion tank
12. Anti-scalding valve
13. Cabinet with adjustable telescopic frame
14. Boiler (optional)
15. kit for managing 2 areas (optional)

configurations
























PUMP:

- Standard pump
- 1PUM** Single pump with larger available head

AUXILIARY SYSTEM HEATER

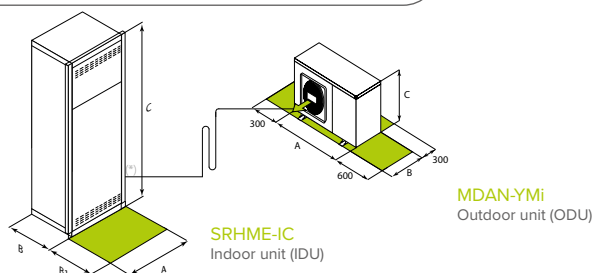
- No integration electric heater
- EH2** 2 kW Integration electric heater
- EH4** 4 kW Integration electric heater
- EH6** 6 kW Integration electric heater
- EH9** 9 kW Integration electric heater

accessories

| | | | | | |
|---|-----------------|---|---|-----------------|--|
|  | ADIX | Recessed storage unit with jigs for fittings |  | KPRSX | DHW recirculation pump kit |
|  | ACS150X | 150-litre domestic hot water storage tank |  | CCGIX | Integration condensing boiler |
|  | ADIAX | Recessed storage unit for additional DHW accumulation |  | KAS80X | Smoke intake and discharge fittings, 80 mm diameter |
|  | ACSA150X | Additional 150-litre domestic hot water storage |  | KSDFX | Splitter for boiler smoke discharge |
|  | KCSX | Secondary circuit kit (1-litre circuit breaker + pump) ^{NEW} |  | KTCGPLX | Kit to convert boiler from methane to LPG |
|  | DIX | 1-litre circuit breaker ^{NEW} |  | DTX | Auxiliary condensate collection tray |
|  | DI50X | 50-litre circuit breaker ^{NEW} |  | AMRX | Rubber antivibration mounts |
|  | ADI50X | Recessed storage unit for external inertial accumulation |  | HID-TCXB | White soft touch chronothermostat, with temperature control and management via App / Voice control ^{NEW} |
|  | ACE50X | 50-litre inertial storage tank for outdoor installation |  | HID-TCXN | Black soft touch chronothermostat, with temperature control and management via App / Voice control ^{NEW} |
|  | AC50X | 50-litre inertial storage tank for indoor installation |  | SWCX | Switch IoT to be combined with HID-TConnect, for managing the heat pump mode or switching the terminal units/radiant systems ON/OFF ^{NEW} |
|  | KIRE2HLX | 2 zones: external kit, high temperature + low temperature (mixed) | | | |
|  | KIRE2HX | 2 zones: external kit, high temperature | | | |
|  | KCVEX | Circulation kit: circulation group, control unit, expansion tank | | | |

HEAT PUMPS

dimensions and connections



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

*from external supply

| Size | | | | 2.1 | 3.1 | 4.1 | 5.1 |
|------------------------------------|------------------|---------------------------------|----------------------|---------------|------|-----|---------------|
| Dimensions | Indoor unit | Length(A) x Heigh(C) x Depth(B) | mm | 950x2.250x360 | | | |
| | Outdoor unit | Length(A) x Heigh(C) x Depth(B) | mm | 960x860x380 | | | 1.075x965x395 |
| Peso | Indoor unit | | kg | 325 | | | |
| | Outdoor unit | | kg | 57 | | | 67 |
| Max / min equivalent length | | Minimum / Maximum | m | 2 / 30 | | | |
| Max difference in level ODU / IDU | | Maximum | m | 25 | | | |
| Refrigerant precharge ¹ | | | type/GWP | R-32 / 675 | | | |
| | | | kg / m | 1,55 / 15 | | | 1,65 / 15 |
| | | | CO ₂ tons | 1,05 | | | 1,11 |
| Additional refrigerant charge | | | g/m | 20 | | | 38 |
| | Refrigerant pipe | Liquid | mm / inch | 1/4" | | | 3/8" |
| External diameters | Indoor unit | Gas | mm / inch | | 5/8" | | |
| | | Water (system) | mm / inch | | 1" | | |
| | | Water (DHW) | mm / inch | | 3/4" | | |
| | Boiler | Gas | mm / inch | | 3/4" | | |
| | | Intake air | mm / inch | | 100 | | |
| | | Exhaust gas | mm / inch | | 60 | | |

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

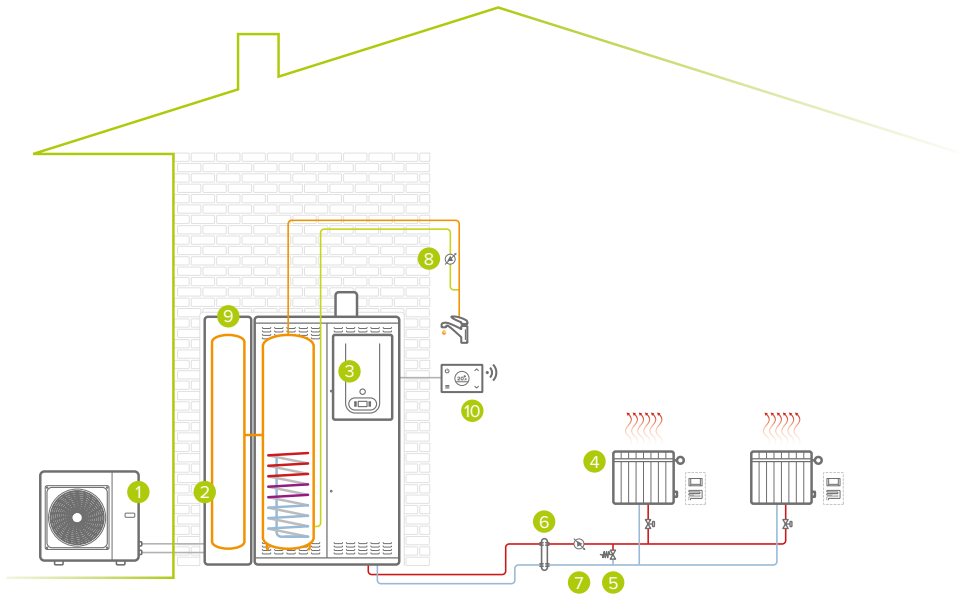
technical data

| Size | | | | | 2.1 | 3.1 | 4.1 | 5.1 |
|-----------------------------------|-------------------------------------|----------------------------------|-------------------|----------|--------------------|--------------------|---------------------|----------------------|
| Heating | Capacity | Water 35/30°C - Outdoor air 7°C | Nominal / Maximum | kW | 4,49 / 6,92 | 6,32 / 8,79 | 8,37 / 11,00 | 10,26 / 12,30 |
| | COP | | Nominal | - | 5,01 | 4,79 | 4,87 | 4,68 |
| | Capacity | Water 35/30°C - Outdoor air -7°C | Nominal / Maximum | kW | 4,59 / 4,81 | 5,55 / 5,70 | 6,46 / 6,71 | 8,02 / 8,25 |
| | COP | | Nominal | - | 3,07 | 2,90 | 3,04 | 2,98 |
| Cooling | Capacity | Water 45/40°C - Outdoor air 7°C | Nominal / Maximum | kW | 4,14 / 6,40 | 6,09 / 8,25 | 8,02 / 10,60 | 10,30 / 11,90 |
| | COP | | Nominal | - | 3,70 | 3,66 | 3,82 | 3,67 |
| | Capacity | Water 18/23°C - Outdoor air 35°C | Nominal / Maximum | kW | 4,63 / 7,86 | 6,79 / 9,30 | 8,53 / 10,30 | 9,73 / 11,50 |
| | EER | | Nominal | - | 5,21 | 5,14 | 5,00 | 4,87 |
| DHW (Boiler) | Capacity | Water 7/12°C - Outdoor air 35°C | Nominal / Maximum | kW | 4,56 / 6,57 | 6,17 / 7,58 | 7,39 / 9,09 | 9,06 / 10,22 |
| | EER | | Nominal | - | 3,49 | 3,21 | 3,12 | 3,01 |
| DHW | Power | - | Nominal | kW | 23,5 | 23,5 | 23,5 | 23,5 |
| | Net tank capacity | - | | l | 143 | 143 | 143 | 143 |
| DHW | Mixed water 40°C (V40) ¹ | - | | l | 178 | 178 | 178 | 178 |
| | Heating time | - | | h:min | 02:10 | 02:10 | 01:45 | 01:45 |
| Electrical power for meter sizing | | | | kW | 4,75 | 4,75 | 5,90 | 5,90 |
| Seasonal efficiency | Heating 55°C | Energy class | - | - | A++ | A++ | A++ | A++ |
| | | Annual energy consumption | kWh/year | 3.320 | 3.586 | 4.605 | 4.936 | |
| | | SCOP | - | 3,37 | 3,37 | 3,40 | 3,56 | |
| | | ηs (seasonal output) | % | 132 | 132 | 133 | 140 | |
| Medium climate | Heating 35°C | Energy class | - | - | A+++ | A+++ | A+++ | A+++ |
| | | Annual energy consumption | kWh/year | 1.978 | 2.501 | 3.431 | 3.900 | |
| | | SCOP | - | 4,73 | 4,89 | 4,96 | 5,04 | |
| | | ηs (seasonal output) | % | 186 | 192 | 195 | 199 | |
| DHW | Energy class | - | - | - | A+ | A+ | A+ | A+ |
| | DHW profile | - | - | - | L | L | L | L |
| Indoor unit | | | | | 2.1 | 3.1 | 4.1 | 5.1 |
| Power supply | Voltage/Frequency/Phases | | | V/Hz/n° | 230/50/1 | | | |
| Water flow rate | | | Nominal | l/s | 0,22 | 0,31 | 0,41 | 0,48 |
| Available pressure pump | | | Nominal | bar | 39 | 48 | 37 | 28 |
| Expansion tank capacity | | | | l | 10 | | | |
| Minimum system water content | | | | l | 15 | 22 | 28 | 35 |
| Sound power | | | | dB(A) | 41 | | | |
| Sound pressure @1m | | | | dB(A) | 27 | | | |
| Boiler | | | | | | | | |
| Power supply | Voltage/Frequency/Phases | | | V/Hz/n° | 230/50/1 | | | |
| Power input | | | | W | 38 | | | |
| Sound power | | | | dB(A) | 52 | | | |
| Outdoor unit | | | | | 2.1 | 3.1 | 4.1 | 5.1 |
| Power supply | Voltage/Frequency/Phases | | | V/Hz/n° | 230/50/1 | | | |
| Sound power | | | | dB(A) | 58 / 61 | 59 / 62 | 60 / 63 | 61 / 65 |
| Sound pressure @1m | | | | dB(A) | 44 / 47 | 45 / 48 | 45 / 48 | 46 / 50 |
| Operating range | | | | | | | | |
| Water supply temperature | Heating | Heat pump | Minimum / Maximum | °C | 12 / 60 | | | |
| | Cooling | Boiler | Minimum / Maximum | °C | 12 / 60 | | | |
| Operating range (Outdoor air) | Heating | - | Minimum / Maximum | °C | 5 / 25 | | | |
| | | Heat pump | Minimum / Maximum | °C | -25 / 35 | | | |
| | Cooling | Boiler | Minimum | °C | -25 / 35 | | | |
| | | - | Minimum / Maximum | °C | -5 / 46 | | | |
| DHW | Heat pump | Minimum / Maximum | °C | -25 / 43 | | | | |
| | Boiler | Minimum | °C | -25 / 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 ELFOControl3 EVO system control

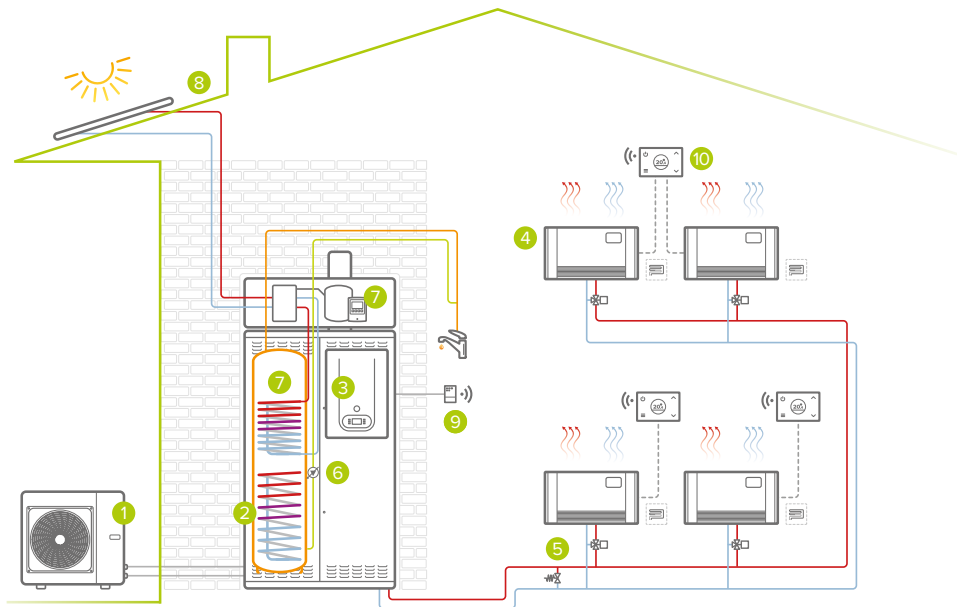
(1) Data according to EN 16147: amount of water at 40°C with the same enthalpy content as the water coming out of the Boiler at a temperature higher than 40°C



**Single area system:
heating/DHW**

- 1 outdoor unit
- 2 indoor unit
- 3 boiler
- 4 heating area (radiator / fan coils / radiant)
- 5 bypass*
- 6 hydraulic separator (optional)
- 7 secondary circuit pump*
- 8 DHW recirculation pump*
- 9 additional DHW tank (optional)
- 10 HID-TConnect Wi-Fi chronothermostat (optional)

*from external supply



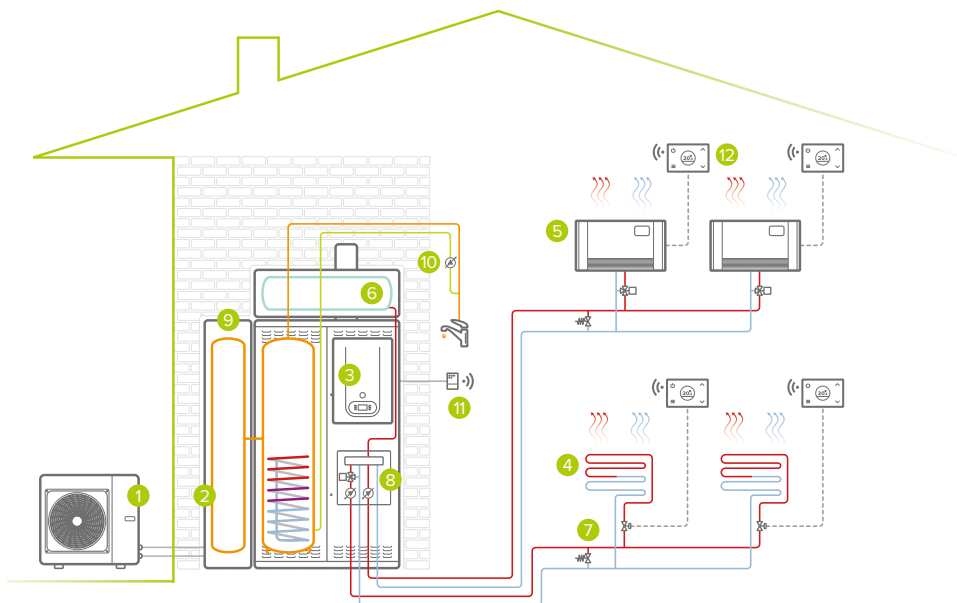
**Single area system with solar thermal:
heating/cooling/DHW**

- 1 outdoor unit
- 2 indoor unit
- 3 boiler
- 4 heating/cooling area (fan coils / radiant)
- 5 bypass*
- 6 DHW recirculation pump* (optional)
- 7 solar connection kit (optional)
- 8 ELFSun solar thermal (optional)
- 9 SwitchConnect Wi-Fi receiver (optional)
- 10 HID-TConnect Wi-Fi chronothermostat (optional)

Note:

- flue to be fitted on the side or back
- external solar connection kit available on request

*from external supply



**Two-area system:
heating/cooling/DHW**

- 1 outdoor unit
- 2 indoor unit
- 3 boiler
- 4 low temperature heating/cooling area (radiant)
- 5 high temperature heating/cooling area (fan coils)
- 6 system inertial storage (optional)
- 7 bypass*
- 8 kit for managing 2 areas (optional configuration)
- 9 additional DHW tank (optional)
- 10 DHW recirculation pump*
- 11 SwitchConnect Wi-Fi receiver (optional)
- 12 HID-TConnect Wi-Fi chronothermostat (optional)

flue to be fitted on the side or back

*from external supply