

PRODUCT LIST 2022





You Feel, We Care

is our new tagline and contains a renewed promise. to work every day with commitment and passion while offering tangible benefits.

And we do this by developing systems which are able to ensure comfort and health as well as a pleasant living space

We continue to follow the principles that have always inspired us: the use of the **best materials**, the research for **advanced technologies**, and a **specialized service** for design, technical assistance and trainina.

These are the same reasons that guided us in identifying the perfect comfort system.

In our solution four elements (surface heating/cooling, air handling, temperature control, heat pumps) interact synergistically to spread in every room the ideal living conditions, in which our skin can perceive a unique feeling of wellbeing.

HEAT PUMPS



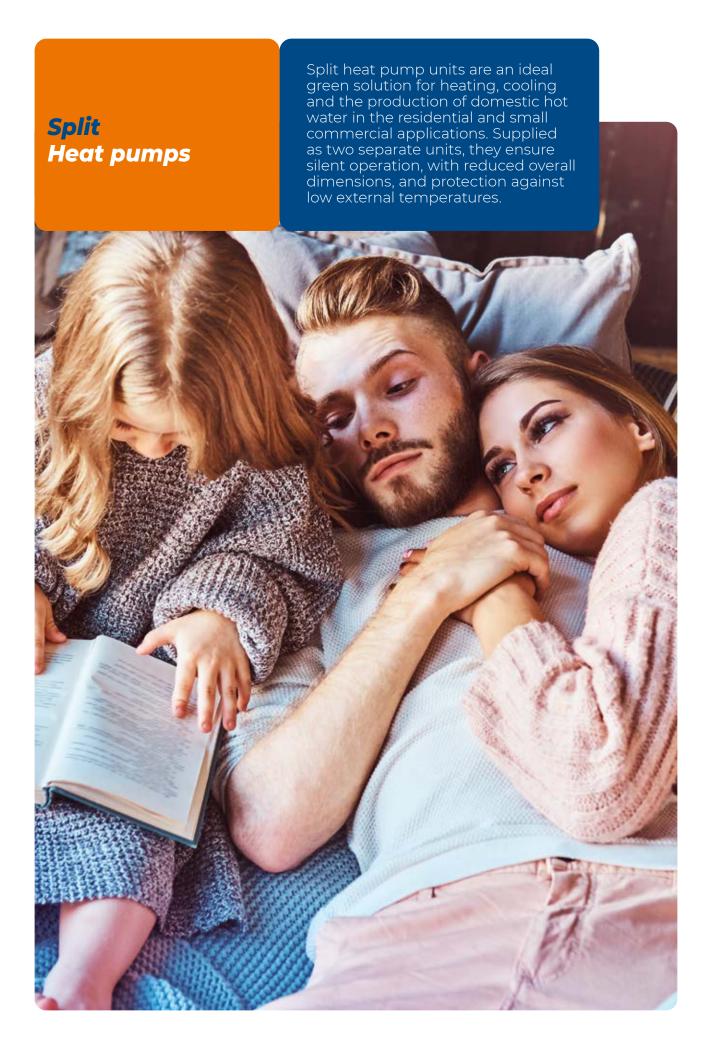


RDZ high efficiency air to water heat pumps are renewable source generators capable of transferring the thermal energy present in the air to the radiant system fluid, to heat in winter, cool in summer and produce domestic hot water in the respect for the environment, with high energy savings.

high energy savings.

Available in monobloc and split units, they are suitable for residential and commercial applications and can be effectively used both in new buildings and in the case of energy upgrading of existing systems.



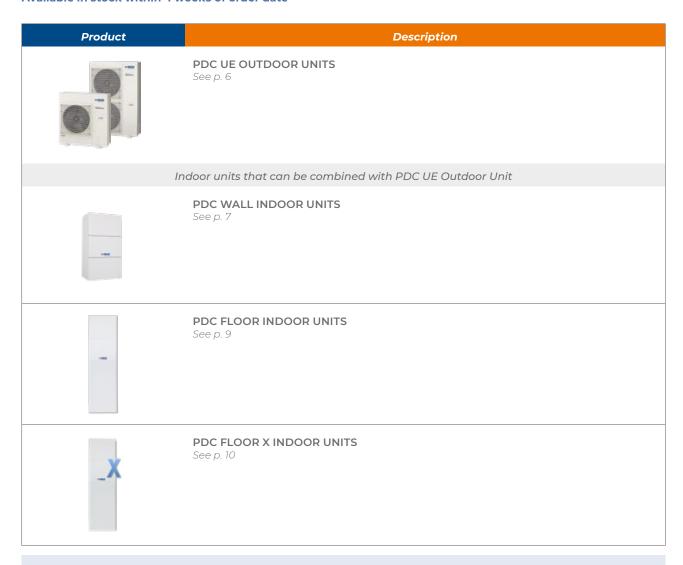


Split heat pumps

RDZ PDC are split heat pumps with reversible cycle for winter heating, summer cooling, and domestic hot water, available in different units ranging from 5 kW to 25 kW. Designed for residential and small commercial applications, they consist of two separate units (outdoor and indoor) connected to each other by a copper line for refrigerant (gas) circulation. This split construction implies compact size, silent running and protection against low outdoor temperatures.

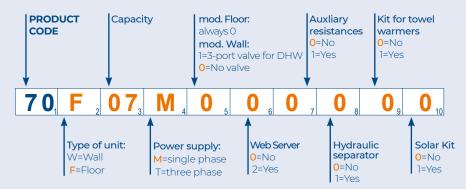
Thanks to high SCOP levels (seasonal coefficient of performance), they ensure low energy consumption and optimal functioning from -20 $^{\circ}$ C up to +45 $^{\circ}$ C.

Available in stock within 4 weeks of order date



CODING SYSTEM FOR INDOOR UNITS

The following coding makes it possible to configure your PCD Wall or Floor indoor unit by some easy steps.



From the left to the right:

1) product code 2) type of unit 3) capacity 4) power supply 5) 3-port valve for DHW water (supplied as standard in all Floor models) 6) remote control through Web Server 7) electrical resistances as auxiliary heater 8) hydraulic separator between primary and secondary circuits (available for Floor models onl9) connection for medium-temperature radiators such as towel warmers (available for Floor models only)

10) connection to solar plant (available for Floor models only)

Heat Pump outdoor units

This is a complete range of units from 5 to 25 thermal kW designed to be placed outdoors and connected to the indoor unit with copper line for refrigerant (gas) circulation. Characterized by high performance, these units are extremely efficient and boast an "A++" energy class rating.

| Product | Description | Code | |
|-------------|--|---------|--|
| DC Inverter | PDC UE OUTDOOR UNIT The outdoor unit can work at outdoor temperature between -20 °C and +45 °C by using a climate control adjustment. This makes it possible to compensate the winter setpoint of the water system according to the outdoor temperature, thus improving heating capacity up to +30%. Furthermore, a special modulation logic ensures even higher performance during DHW heating to set value. The outdoor unit is precharged with R410a gas for a 30-m distance from the indoor unit, but pipe connection between outdoor and indoor units can be up to 50 m long considering extra gas amount. Modulation of the generated power can vary from 15 Hz to 110 Hz. Defrost cycle works using hot gas injection technology to avoid frequent inversions. The outdoor unit can be combined with Wall, Floor or Floor X indoor units. | | |
| | PDC 05 UE | 70E05M0 | |
| | PDC 07 UE | 70E07M0 | |
| | PDC 09 UE | 70E09M0 | |
| | PDC 12 UE | 70E12M0 | |
| | PDC 12T UE | 70E12T0 | |
| | PDC 15 UE | 70E15M0 | |
| | PDC 15T UE | 70E15T0 | |
| | PDC 18T UE | 70E18T0 | |
| | PDC 25T UE | 70E25T0 | |
| | Specifications | | |

| model | heating capac. kWt ⁽¹⁾ | heating capac. kWt ⁽²⁾ | COP ⁽²⁾ | cooling capac. kWf ⁽³⁾ | EER ⁽³⁾ | volt. | heating sound pressure ⁽⁴⁾ | cooling sound pressure ⁽⁴⁾ | size mm Ixdxh | weight Kg |
|------------|--------------------------------------|--------------------------------------|--------------------|--------------------------------------|--------------------|-------|---|---|------------------|--------------|
| PDC 05 UE | 4.59 | 6.82 | 4.11 | 6.00 | 3.43 | 230 | 50 dB(A) | 48 dB(A) | 940x340x619 | 39 |
| PDC 07 UE | 7.20 | 12.53 | 4.34 | 77.07 | 4.03 | 230 | 50 dB(A) | 48 dB(A) | 940x340x619 | 40 |
| PDC 09 UE | 8.73 | 13.72 | 4.52 | 11.27 | 4.22 | 230 | 50 dB(A) | 48 dB(A) | 940x340x996 | 69 |
| PDC 12 UE | 11.70 | 18.32 | 4.45 | 16.74 | 4.33 | 230 | 52 dB(A) | 52 dB(A) | 940x340x1416 | 98 |
| PDC 12T UE | 11.70 | 18.32 | 4.45 | 16.74 | 4.33 | 400 | 52 dB(A) | 52 dB(A) | 940x340x1416 | 98 |
| PDC 15 UE | 14.74 | 22.76 | 4.59 | 18.56 | 3.98 | 230 | 53 dB(A) | 53 dB(A) | 940x340x1416 | 98 |
| PDC 15T UE | 14.74 | 22.76 | 4.59 | 18.56 | 3.98 | 400 | 53 dB(A) | 53 dB(A) | 940x340x1416 | 98 |
| PDC 18T UE | 17.36 | 26.94 | 4.37 | 23.15 | 4.27 | 400 | 55 dB(A) | 54 dB(A) | 940x340x1416 | 98 |
| PDC 25T UE | 18.37 | 31.07 | 4.06 | 32.64 | 4.20 | 400 | 58 dB(A) | 57 dB(A) | 940x340x1526 | 128 |

1) Hot water at 35° C, outdoor air temperature at -7° C R.H. 85% 2) Hot water at 35° C, outdoor air temperature at -7° C, R.H. 85% 3) Cold water at 18° C, outdoor air temperature at 35° C 4) Sound pressure level at a distance of 1 m Note: Nominal performance according to UNI EN 14511. Energy efficiency according to UNI EN 14825.

| Product | Code | | |
|--|--------------------------------------|--|--|
| | Accessories for PDC UE outdoor units | | |
| RUBBER MOUNTS Set of anti-vibration adjustable | 7028076 | | |
| PRESSURE RELIEF VALVE Differential by-pass valve with 10÷60 kPa. | C633005 | | |



High mod. of power













Warranty extension

DC Inverter DC Inverter fans compressor

Twin High Rotary performances

Heat pump Wall indoor units

The PDC Wall are indoor units to hang on the wall, connected to the outdoor unit with copper line for refrigerant (gas) circulation. Efficient, versatile and compact, they can be easily controlled remotely, and easily installed and maintained thanks to their opening panel in the front side.

| Product | Description | Code |
|-------------|--|--------------|
| DC Inverter | PDC WALL UI INDOOR UNIT This indoor unit has been designed for wall installation, and it is suitable for heating/cooling systems in residential applications even with central supply. The heat pump includes 6-litre expansion tank, DHW sensor, safety valve and differential pressure switch for safe water circulation, high-efficiency DC primary circulation pump, external sensor, water filter, and water to gas heat exchanger. The control panel is easily accessible from the front side of the module, and makes it possible to check and set the main parameters (e.g. defrost, anti-legionella cycle, power modulation, alarms, additional boiler, supply water temperature according to the outdoor conditions). DHW can be produced by installing an external diverting valve. Max. temperature for the compressor: 56 °C; the use of auxiliary heaters makes it possible to reach 65 °C in the DHW tank. The optional components (the auxiliary heaters of 2/4/6 kWe and the Web Server to manage the combination with PV cells) are installed inside the unit, therefore they shall be specifically requested at time of order. All water and refrigerant connections are invisible and aligned at the bottom of the unit. | |
| | PDC Wall 05 | 70W05M000000 |
| | PDC Wall 07 | 70W07M000000 |
| | PDC Wall 09 | 70W09M000000 |
| | PDC Wall 12 | 70W12M000000 |
| | PDC Wall 12T | 70W12T000000 |
| | PDC Wall 15 | 70W15M000000 |
| | PDC Wall 15T | 70W15T000000 |
| | PDC Wall 18T | 70W18T000000 |
| | PDC Wall 25T | 70W25T000000 |
| | Specifications | |

| model | voltage | sound pressure ⁽¹⁾ dB(A) | size mm lxpxh | weight Kg |
|--------------|---------|-------------------------------------|---------------|-----------|
| PDC Wall 05 | 230 | 30 | 505x300x900 | 41 |
| PDC Wall 07 | 230 | 30 | 505x300x900 | 41 |
| PDC Wall 09 | 230 | 30 | 505x300x900 | 41 |
| PDC Wall 12 | 230 | 31 | 505x300x900 | 41 |
| PDC Wall 12T | 400 | 31 | 505x300x900 | 41 |
| PDC Wall 15 | 230 | 31 | 505x300x900 | 43 |
| PDC Wall 15T | 400 | 31 | 505x300x900 | 43 |
| PDC Wall 18T | 400 | 32 | 505x300x900 | 46 |
| PDC Wall 25T | 400 | 32 | 505x300x900 | 49 |

1) Sound pressure (at 1 m)

| Accessory for code composition | Example | Description | |
|--------------------------------|-----------------------------|--|--|
| 3-PORT VALVE FOR DHW | 70W05M <mark>1</mark> 00000 | Diverter valve for DHW and heating system | |
| WEB SERVER | 70W05M0 2 0000 | Remote control through Web Server | |
| AUXILIARY RESISTANCES 6 kW | 70W05M00 <mark>1</mark> 000 | Settable 3 step electric support resistance (2-4-6 kW) | |

The addition of each item implies and extra price as shown in the table.























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DC Inverter circulator

Veb R4

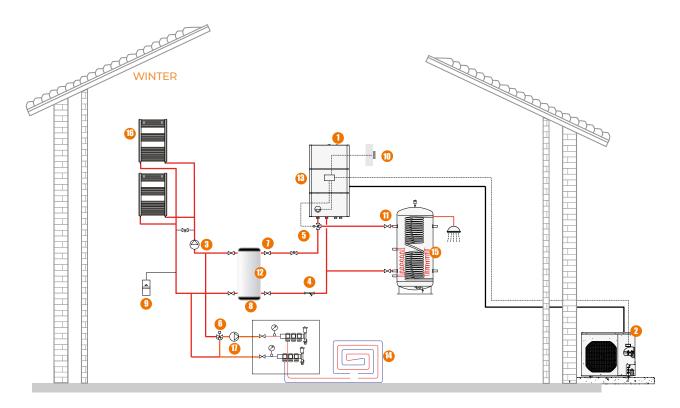
Dynamic

lates Desista

Anti legionella

System Diagram with Wall UI Heat Pumps

The diagrams below show the distribution and the connection of the main hydraulic components of an underfloor heating and cooling system including air handling units (for summer dehumidification and additional sensible heating/cooling capacity). Energy generation at high efficiency is achieved through PDC split heat pump, consisting of one outdoor unit mod. PDC UE and one indoor unit mod. PDC Wall UI for wall-upright installation. If necessary, the system can be equipped with auxiliary resistances. Optionally you can install a DHW tank which can be connected with solar collectors.



- PDC Wall UI indoor unit
- PDC UE outdoor unit
- HT secondary circulation pump
- Water filter 500 micron
- 5. Diverter valve for heating / DHW
- Mixing valve for radiant system Shut-off valve

- 8. Temperature relief valve
- Expansion vessel
- 10. Outdoor sensor
- Stainless steel coil for DHW
- 12. Hydraulic separator
- 13. Room thermostat
- 14. Underfloor heating/cooling
- 15. DHW storage tank
- 16. Towel warmers or air handling units 17. Circulation pump for heating/cooling
- **SUMMER** ß

Heat pump Floor indoor units

The PDC Floor are indoor units to place on the floor connected to the outdoor unit by a copper line for refrigerant (gas) circulation. Elegant, compact and complete, they include a 200L inertial storage tank with instantaneous heat exchanger for domestic hot water.

| Product | | Description | | Code | |
|-------------|--|---|---|--------------|--|
| DC Inverter | This ind installative as well as The hear inertial is safety vocification automate valve, exexchange and aligned accessible power responsible power to separation secondarie electronic integratic with shout the use of the | DOR UI INDOOR UNIT DOOR UNIT DOOR UNIT DOOR UNIT HAS been designed on (60x60cm), and it is suitable is heating/cooling systems in resit pump includes 24-litre exported to a suitable of the properties of the suitable of the outdoor conditions, of the outdoor conditions, of the suitable of the outdoor conditions, of the outdoor conditions witable of the components are: auxiliary heater manage the combination witable of the suitable | for DHW production idential applications. ansion vessel, 200-Luss heat exchanger, witch for safe water y circulation pump, ed air, DHW diverter water to gas heat nections are invisible ontrol panel is easily odule, and makes it ameters (e.g. defrost, water temperature 10V control from PV system integration), ers of 2/4/6 kWe, Webh PV cells, hydraulic ween primary and solar collectors withing valve and DHW houses for 4 people e compressor: 56 °C; ssible to reach 65 °C | | |
| | | | PDC 05 Floor | 70F05M000000 | |
| | | | PDC 07 Floor | 70F07M000000 | |
| | | | PDC 09 Floor | 70F09M000000 | |
| | | | PDC 12 Floor | 70F12M000000 | |
| | | | PDC 12T Floor | 70F12T000000 | |
| | | | PDC 15 Floor | 70F15M000000 | |
| | | | PDC 15T Floor | 70F15T000000 | |
| | | Specifications | | | |

| model | voltage | sound pressure ⁽¹⁾ dB(A) | size mm lxpxh | weight Kg |
|---------------|---------|-------------------------------------|---------------|-----------|
| PDC 05 Floor | 230 | 30 | 600x600x2000 | 172 |
| PDC 07 Floor | 230 | 30 | 600x600x2000 | 172 |
| PDC 09 Floor | 230 | 30 | 600x600x2000 | 172 |
| PDC 12 Floor | 230 | 31 | 600x600x2000 | 172 |
| PDC 12T Floor | 400 | 31 | 600x600x2000 | 172 |
| PDC 15 Floor | 230 | 31 | 600x600x2000 | 172 |
| PDC 15T Floor | 400 | 31 | 600x600x2000 | 172 |

1) Sound pressure (1 m)

| Accessory | Sample code | Description |
|--------------------------------------|-----------------------------|---|
| WEB SERVER | 70F05M0 2 0000 | Remote control through Web Server |
| XILIARY RESISTANCES 6 kW | 70F05M00 <mark>1</mark> 000 | Auxiliary heaters which can be set at 2-4-6 kW |
| SEPARATION KIT | 70F05M000 <mark>1</mark> 00 | Hydraulic separator between primary and secondary circuits with circulation pump (mandatory accessory for PDC Floor UI 12 and 15, recommended for all the other models) |
| FOR TOWEL WARMERS | 70F05M0000 <mark>1</mark> 0 | High-temperature hydraulic module with dedicated circulation pump for radiators such as towel warmers |
| SOLAR KIT 70F05M00000 <mark>1</mark> | | Circulation pump for solar collectors, electronic controller, safety valve, pressure gauge, 24-L expansion vessel for the solar circuit, thermostatic mixing valve for DHW in order to prevent people from scalding |























Remote

DC Inverte

eous We

Dynamic Set Input

Plates Resistances

Heat pump Floor X indoor units

The PDC Floor X are indoor units to place on the floor connected to the outdoor unit a copper line for refrigerant (gas) circulation. They already include a 200L tank for the production of DHW and a 24L buffer storage tank to guarantee the minimum technical water necessary for the right funcioning of the heat pump.

Product Code Description PDC FLOOR X UI INDOOR UNIT DC Inverter This indoor unit has been designed for floor-standing installation (60x60cm), and it is suitable for DHW production as well as heating/cooling systems in residential applications. The heat pump includes 24-litre expansion applications. The heat pump includes 24-litre expansion vessel, 30-L storage tank for the heating/cooling system, 200-L storage tank with instantaneous heat exchanger, safety valve and differential pressure switch for safe water circulation, high-efficiency DC primary circulation pump, automatic air venting to release trapped air, DHW diverter valve, external sensor, water filter and water to gas heat exchanger. This version is characterized by the hydraulic separator and the storage tank with a circulation pump for the secondary circuit, which ensure high performance for the heating/cooling system in terms of both flow-rate and pressure. The optional components (the auxiliary heaters of 2/4/6 kWe and the Web Server to manage the combination *RDZ with PV cells) are installed inside the unit, therefore they shall be specifically requested at time of order. The control panel is easily accessible from the front side of the module, and makes it possible to check and set the main parameters (e.g. defrost, power modulation, alarms, supply water temperature according to the outdoor conditions, boiler management for DHW and system integration). This unit ensures DHW in houses for 4 people. Max. temperature for the compressor: 56 °C; the use of auxiliary heaters makes it possible to reach 65 °C in the DHW tank, even for frequent showers (necessary anti-scalding device). 70X05M0 PDC 05 Floor X 70X07M0 PDC 07 Floor X 70X09M0 PDC 09 Floor X PDC 12 Floor X 70X12M0 Specifications sound pressure(1) dB(A) voltage size mm lxpxh weight Kg PDC 05 Floor X 230 30 600x600x2000 180 PDC 07 Floor X 230 30 600x600x2000 180 PDC 09 Floor X 230 30 600x600x2000 180 31 600x600x2000 180 PDC 12 Floor X 230 1) Sound pressure (1 m) Sample code Description Accessorv **AUXILIARY RESISTANCES** Auxiliary heaters which can be set at 2-4-6 kW 70X05M1 6 kW



WEB SERVER

AUXILIARY RESISTANCES +

WEB SERVER







70X05M4

70X05M5

The addition of each item implies and extra price as shown in the table.





through Web Server



Remote control through Web Server



Auxiliary heaters which can be set at 2-4-6 kW. Remote control













System circulato

DC inverte circulator

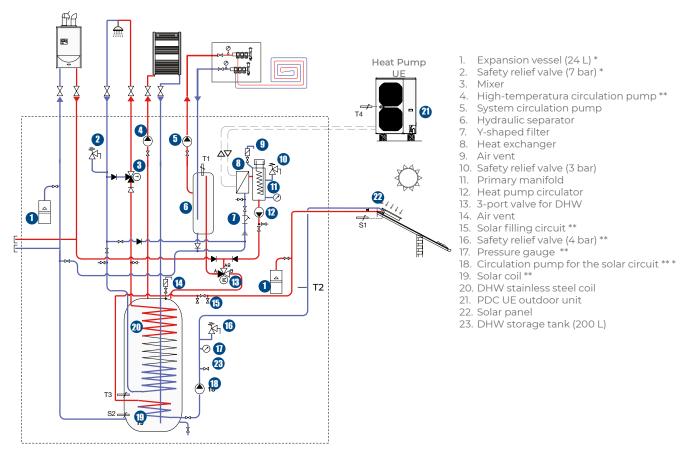
Instantaneo

Server

Dynai

System Diagram with PDC Floor UI Heat Pumps

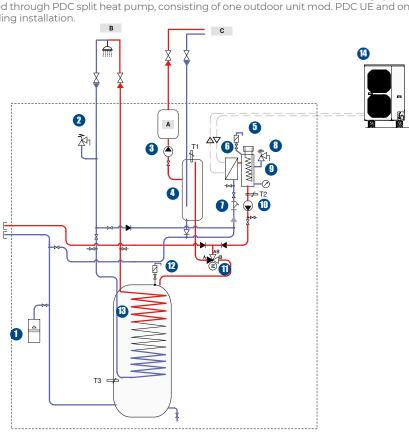
The diagram belows show the distribution and the connection of the main hydraulic components of an underfloor heating system. Energy generation at high efficiency is achieved through PDC split heat pump, consisting of one outdoor unit mod. PDC UE and one indoor unit mod. PDC Floor UI for floor-standing installation. If necessary, the system can be equipped with auxiliary resistances or it can be combined with a boiler.



System Diagram with PDC Floor X UI Heat Pumps

The diagram belows show the distribution and the connection of the main hydraulic components of an underfloor heating system. Energy generation at high efficiency is achieved through PDC split heat pump, consisting of one outdoor unit mod. PDC UE and one indoor unit mod. PDC Floor X UI for floor-standing installation.

- A. Inertial tank
- B. Domestic hot water
- C. Heating and cooling system
- 1. Expansion vessel (24 L)
- 2. Safety relief valve (7 bar)
- System circulation pump (P2)
- 4. Hydraulic separator
- 5. Automatic air vent
- 6. Plate heat exchanger
- 7. Y-shaped filter
- 8. Safety relief valve (3 bar)
- 9. Manifold with resistance
- 10. Heat pump circulator (P1)
- 11. 3-port valve
- 12. Air vent
- 13. Stainless steel coil for DHW
- 14. Outdoor unit
- T1. Sensor for the hydraulic separator
- T2. Exchanger outlet sensor
- T3. DHW sensor

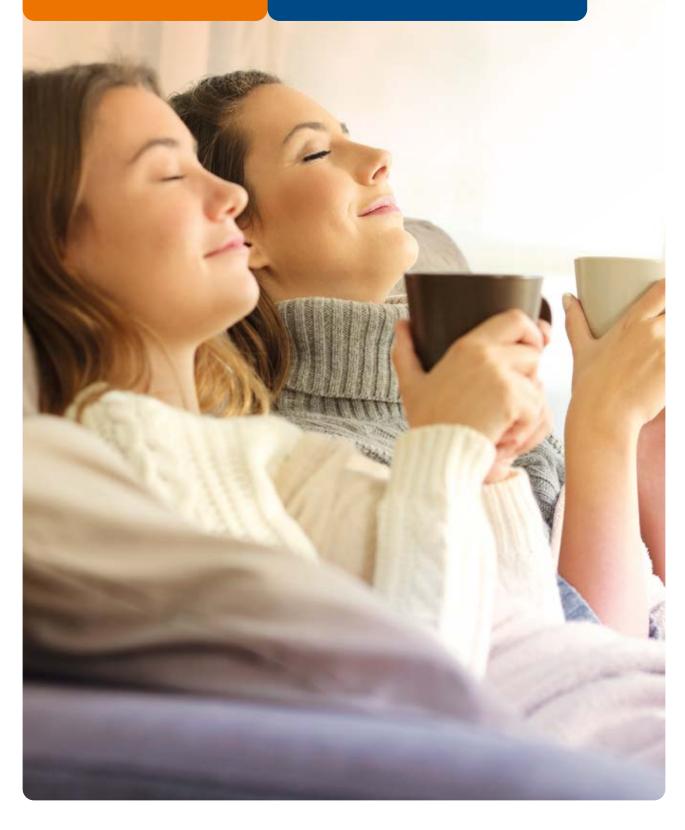


DHW and technical water tanks for split heat pumpsThe DHW and technical water tanks for split heat pumps allow for the completion of the technical room, allowing simple and safe storage of domestic hot water and technical water for the system.

| Product | | | Descriptio | n | | | Code | |
|--|---|---|---------------------------------|----------------------------------|---|--------------------------------------|--------------------|--|
| 3 . 6 | FAST DHW BUFFER TANK Thermal store tank for heating water with stratifier and extractable exchanger for instantaneous DHW production made of copper with a 5-m² surface. Carbon steel casing with 100-mm thick insulation made of soft polyurethane. The heat exchanger makes for the instantaneous generation of domestic hot water and eliminates the need of antilegionella cycles. This is an ideal solution to be combined with a heat pump. If the storage temperature is This model is equipped with inertial tank with coil for the instantaneous DHW production. With storage temperature: - at 45 °C, the available DHW flow rate is 16 l/m at 40 °C (water supply network at 10 °C). - at 50 °C, the available DHW flow rate is 24 l/m at 40 °C (water supply network at 10 °C). - at 54 °C, the available DHW flow rate is 30 l/m at 40 °C (water supply network at 10 °C). - Available in two versions: 1- Inertial with coil for instantaneous DHW production and coil for integration with solar thermal system. | | | | | | | |
| | model | capacity | size mm | | OHW coil surface | solar coil DHW | | |
| | standard | 300 L | Ø 700 - h 155 | 50 | 5.0 m ² | | 7030305 | |
| | S7 | 300 L | Ø 700 - h 155 | 50 | 5.0 m ² | 1.8 m² | 7031305 | |
| | standard | 500 L | Ø 850 - h 169 | 0 | 5.0 m ² | | 7030505 | |
| | S7 | 500 L | Ø 850 - h 169 | 90 | 5.0 m ² | 2.4 m² | 7031505 | |
| | S1 | 800 L | Ø 990 - h 179 | 90 | 8.5 m ² | 3.0 m ² | 7031808 | |
| · ROZ | ALL IN ONE CYLINDER Carbon steel cylinder for domestic hot water with 2 coils, provided with anodic protection and inner treatment in compliance with DIN 4763-3 and UNI 10025 standards. Specifically designed to be combined with a heat pump. Thanks to the wide exchange surface of the coil, the cylinder makes it possible to produce domestic hot water at low temperature in the primary circuit. The unit is also equipped with a lower coil which can be combined with a solar heating system. In the lower part of the storage, there is an independent inertial tank of 80 L, completely insulated, which can be used for the heating/cooling system. This solution ensures the minimum content of technical water in the system, thus optimising the operation of the heat pump. The cylinder is also equipped with probe pocket and 50-mm thick insulation made of rigid polyurethane. Optionally, it is possible to provide the storage with 1.5 kW auxiliary heater. | | | | | | | |
| | | pacity | size mm | S | surface | solar coil DHW | | |
| | | 300 L 500 L | Ø 690 - h 192: Ø 790 - h 204 | | 2.8 m ² 4.4 m ² | 0.9 m ² | 7032300 7032500 | |
| | | OU L | W 190 - N 204 | | | 1.5 m ² Iter 1.5 kW | 7032500 | |
| • | Water tar heating/co external in Upright ir | nk acting a polingsyster nsulation of nstallation. I | - | DOM sepa st pum of inje | arator bet np. It is ma ected poly on is also ed with bro | ween the deofsteel, rurethane. | 7029025 | |
| The same of the sa | | | | 50 L | | 00 - h 935 | 7029050 | |
| 9. | | | 70 | 00 L | Ø 50 | 0 - h 1095 | 7029100 | |
| | | | 20 | 00 L | Ø 55 | 0 - h 1395 | 7029200 | |
| | | | 30 | 00 L | Ø 60 | 0 - h 1560 | 7029300 | |

Monoblock heat pumps

The range of HP monoblock heat pumps is an ideal solution for heating, cooling and producing domestic hot water while respecting the environment. Silent, reliable and with high energy saving performances, they are suitable for residential and small commercial applications.



Heat pumps monoblock units

This is a complete range of heat pumps from 6 to 14 kW that are versatile, reliable, silent and particularly efficient thanks to the use of Full DC Inverter technology. Equipped with a remotely accessible user interface with LCD display, they are also intuitive and easy to manage.

| Product | Description | Code | |
|---|--|---------|--|
| DC Inverter | HP MONOBLOCK UNIT Air to water monoblock heat pump for heating, cooling and DHW production with diverting valve combined to either FAST/ALL IN ONE tanks or SANIPLUS heat recovery unit to produce DHW in summer at low consumption. HP heat pump, boasting energy class A++, is equipped with high-efficiency modulating compressor (FULL INVERTER technology) and modulating primary circulation pump for surface heating/cooling or air conditioning. Thanks to the integrated control panel, the user can easily check set-point values and main water/gas parameters. HP heat pump can be combined with Home/Building automation systems via digital input/output or with other devices connected via Modbus protocol. Smooth defrost function works in combination with a large external coil, thus limiting the change of status and the defrost cycles. The possibility to operate at lower sound levels also ensures very high acoustic comfort in special conditions. | | |
| | HP single-phase 06 | 7028406 | |
| A*** | HP single-phase 08 | 7028408 | |
| A++ | HP single-phase 11 | 7028411 | |
| B | HP three-phase 11T | 7028412 | |
| | HP three-phase 14T | 7028414 | |

Specifications

| model | Cooling capacity Kwf ⁽¹⁾ - E.E.R. | Heating capacity Kwc ⁽²⁾ - COP | voltage | sound pressure dB(A) | size mm lxdxh |
|--------------------|---|--|---------|-------------------------|------------------|
| HP single-phase 06 | (4.80 / 5.80) - 3.41 | (5.80 / 6.60) - 4.12 | 230 | 40.0 | 1030x400x735 |
| HP single-phase 08 | (5.90 / 7.00) - 3.42 | (8.10 / 9.30) - 4.18 | 230 | 43.0 | 1190x400x835 |
| HP single-phase 11 | (7.70 / 9.00) - 3.53 | (10.40 / 12.50) - 4.09 | 230 | 46.0 | 1190x400x1070 |
| HP three-phase 11T | (7.70 / 9.00) - 3.53 | (10.40 / 12.50) - 4.09 | 400 | 46.0 | 1190x400x1070 |
| HP three-phase 14T | (10.00 / 11.90) - 3.44 | (13.60 / 15.50) - 4.05 | 400 | 49.0 | 1335x450x1270 |

1) Cold water from 23 to 18 °C, outside air temperature 35 °C. 2) Hot water from 30 to 35 °C, outside air temperature 7 °C

| if cold water norm 25 to 16°C, outside air temperature 35°C. 2) not water norm 50 to 55°C, outside air temperature 7°C | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
| description | HP single-phase 06 | HP single-phase 08 | HP single-phase 11 | HP three-phase 11T | HP three-phase 14T | |
| Maximum supply water temperature [°C] | up to 58 | | | | | |
| Outdoor temperature range for heating [°C] | -20 / +35 | | | | | |
| Outdoor temperature range for cooling [°C] | +10 / + 47 | | | | | |
| Nominal flow rate at 35 °C [m³/h] | 1.00 | 1.39 | 1.78 | 1.78 | 2.31 | |
| Maximum power consumption [kW/A] | 2.8 / 12.7 | 3.5 / 15.9 | 4.5/20.5 | 4.5 / 20.5 | 5.3 / | |
| Minimum Water Volume [L] | 40 | 40 | 80 | 80 | 80 | |
| Weight [Kg] | 64 | 73 | 90 | 90 | 160 | |

























Warranty extension

DC

DC Inverter

DC Inverter

Heat

DC Invert

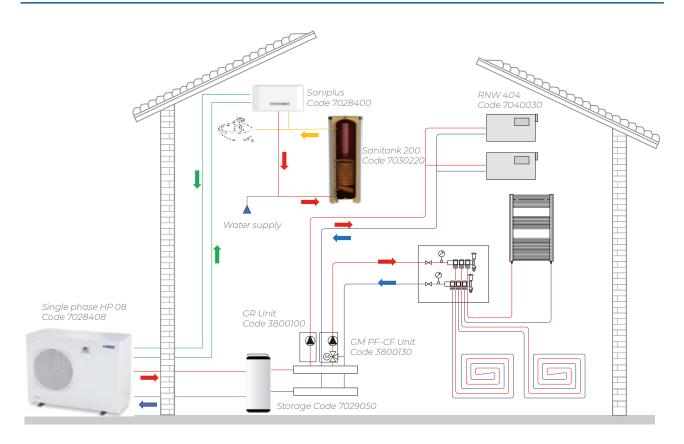
ModBus

Dynam Set Inn

ic Exchange

| Product Descri | iption Code |
|--|--|
| Accessories for HP | P monoblock units |
| RUBBER MOUNTS Set of anti-vibration adjustable feet from 10 to 14 cm, ivory color | ur, M10 thread. 7028076 |
| Y-SHAPED FILTER Ø 1" Inlet water filter. Mandatory component for warranty terms. | 7028078 |
| DHW DIVERTER VALVE Ø 1" 3-port valve to divert the flow DHW and heating system. | 7028090 |
| PI VALVE Ø 1" Safety valve to empty the system in case of frosting. | 7025402 |
| DHW SWITCHBOARD FOR HP HEAT PUMPS Control panel for DHW diverter valve and for anti-legionella cyc | cle, backup and recirculation. 7028401 |
| REMOTE CONTROL FOR HP HEAT PUMPS User interface with LCD display for the remote control of HP ma | onoblock heat pumps. 7028105 |

System Diagram with HP monoblock heat pumps

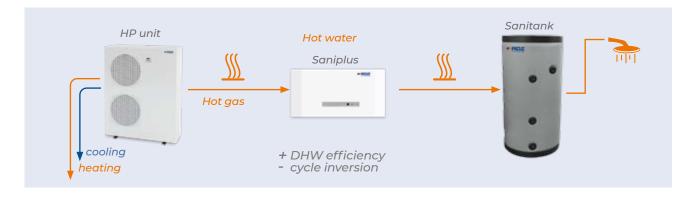


The diagram shows the distribution and the connection of the main hydraulic components of an underfloor heating and cooling system. Energy generation at high efficiency is achieved through HP monoblock heat pump. Saniplus ensures DHW production by transferring energy on a DWH tank.

DHW and technical water tanks for monoblock units

The DHW and technical water tanks for monoblock heat pumps allow for the completion of the technical room, allowing simple and safe storage of domestic hot water and technical water for the system.

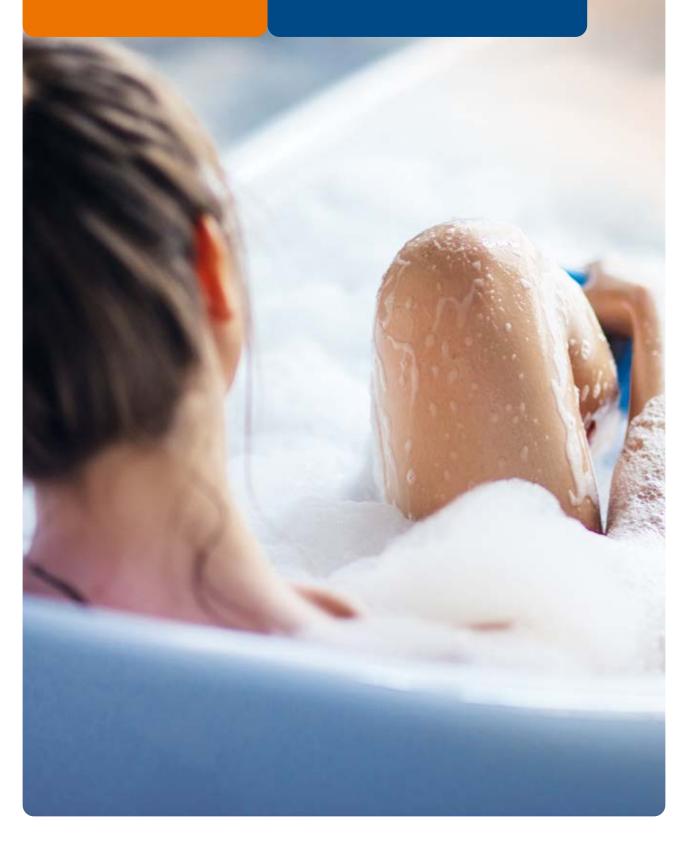
| Product | Description | Code | |
|---------|--|---------|--|
| Heat | SANIPLUS MODULE DHW production module for HP monoblock units. Thanks to Saniplus, HP heat pumps are able to generate domestic hot water while producing energy for heating and cooling. In summer mode, with the application of a proper refrigerant circuit, Saniplus makes it possible to recover most of the condensation heat, which can be transferred to Sanitank in order to produce DHW. In winter mode, both heating and DHW are guaranteed at the same time. Saniplus module is also equipped with water-to-gas exchanger with circulation pump, and the built-in electronics can control up to 3 groups of auxiliary heaters. Furthermore, the integrated flow-meter, storing the number of DHW withdrawal per hour, can calculate the necessary time for the DHW to reach the set value. The module works properly if it is provided with the auxiliary resistance. | 7028400 | |
| | AUXILIARY HEATER 1.5 kW Auxiliary Heater | 7030030 | |
| ROZ | SANITANK Storage tank for sanitary hot water production. Water heater made of carbon steel, complete with anodic protection, inside vitrification treatment according to DIN 4753-3 and UNI 10025. Sanitank ensures high efficiency and energy saving, and it is suitable for the combination with Saniplus. It is a versatile solution, which makes for fast and easy installation. Sanitank 200 technical features: . Total capacity: 212 L . Tot. height with insulation: 1280 mm . Weight empty: 70 kg Sanitank 300 technical features: . Total capacity: 291 L . Tot. height with insulation: 1680 mm . Weight empty: 105 kg Coil for Sanitank 300 technical features: . Absorbed Power: 43 kW . Exchanger Surface: 1.80 m² . Water Connections Ø ¾² . Weight: 11.7 kg model Sanitank 200 L | | |
| | 7030220 | | |
| | Sanitank 300 L | 7030231 | |
| | Coil kit for Sanitank 300 L | 7030222 | |



| Product | | Descrip | tion | | Code | |
|---------|--|-------------------|-----------------------------|--------------------|---------|--|
| Product | EVEL DRIVE BILL | · · | | | Code | |
| 3 . 8 | FAST DHW BUFFER TANK Thermal store tank for heating water with stratifier and extractable exchanger for instantaneous DHW production made of copper with a 5-m² surface. Carbon steel casing with 100-mm thick insulation made of soft polyurethane. The heat exchanger makes for the instantaneous generation of domestic hot water and eliminates the need of antilegionella cycles. This is an ideal solution to be combined with a heat pump. With storage temperature: • at 45 °C, the available DHW flow rate is 16 l/m at 40 °C (water supply network at 10 °C). • at 50 °C, the available DHW flow rate is 24 l/m at 40 °C (water supply network at 10 °C). • at 54 °C, the available DHW flow rate is 30 l/m at 40 °C (water supply network at 10 °C). Available in two versions: 1- Inertial with coil for instantaneous DHW production | | | | | |
| | 2- Inertial with col and coil for integr | il for instantane | ous DHW ⁱ produc | tion | | |
| | model capac | city size mr | n DHW coil surface | solar coil DHW | | |
| | standard 300 | L Ø 700 - h | | | 7030305 | |
| | S1 300 | L Ø 700 - h | 1550 5.0 m ² | 1.8 m² | 7031305 | |
| | standard 500 | L Ø 850 - h | 1690 5.0 m ² | | 7030505 | |
| | S1 500 |) L Ø 850 - h | 1690 5.0 m ² | 2.4 m² | 7031505 | |
| | S1 800 |) L Ø 990 - h | 1790 8.5 m ² | 3.0 m ² | 7031808 | |
| · RDZ | ALL IN ONE CYLINDER Carbon steel cylinder for domestic hot water with 2 coils, provided with anodic protection and inner treatment in compliance with DIN 4763-3 and UNI 10025 standards. Specifically designed to be combined with a heat pump. Thanks to the wide exchange surface of the coil, the cylinder makes it possible to produce domestic hot water at low temperature in the primary circuit. The unit is also equipped with a lower coil which can be combined with a solar heating system. In the lower part of the storage, there is an independent inertial tank of 80 L, completely insulated, which can be used for the heating/cooling system. This solution ensures the minimum content of technical water in the system, thus optimising the operation of the heat pump. The cylinder is also equipped with probe pocket and 50-mm thick insulation made of rigid polyurethane. Optionally, it is possible to provide the storage with 1.5 kW auxiliary heater. | | | | | |
| | capacity | size mm | DHW coil | solar coil | | |
| | 300 L | Ø 690 - h 19 | | 0.9 m² | 7032300 | |
| | 500 L | Ø 790 - h 20 |)40 4.4 m² | 1.5 m² | 7032500 | |
| | | | auxiliary he | ater 1.5 kW | 7030030 | |
| • | STORAGE TANK FOR BOILER ROOM Water tank acting as a hydraulic separator between the heating/cooling system and the heat pump. It is made of steel, external insulation of 5 cm made of injected polyurethane. Upright installation. Horizontal installation is also possible, even fixed to the wall. The tank is equipped with brackets. capacity size mm | | | | | |
| 9. | | | | -00 - h 455 | 7029025 | |
| | | | 50 L Ø 4 | 400 - h 935 | 7029050 | |
| | | | 100 L Ø 50 | 00 - h 1095 | 7029100 | |
| | | | 200 L Ø 5 | 50 - h 1395 | 7029200 | |
| | | | 300 L Ø 60 | 00 - h 1560 | 7029300 | |

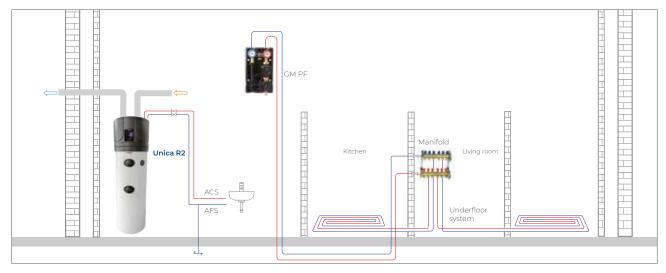
Unit for the autonomous production of domestic hot water

The water heaters operating with a heat pump exploit the thermal energy present in the environment or from renewable sources for the production of domestic hot water in complete safety and with high energy savings.



DHW production units

| Product | | Description | | Code | |
|--|---|--|--|---------|--|
| NEW COMPRESSOR MADE IN JAPAN COP=3.41-A14W55 | UNICA R2 Heat pump for dome: a steel tank with vitrif. system boasting 5-ye regular maintenance) thermal insulation, hi refrigerant, electronic electrical heater man of a new high-efficient in winter and shorter provided with Touch alarm check and dist and thermal solar sy while 0-10V input is Power supply 230 Vac. heater of 1500 W. UNICA R2 is available combined with a 200 1. Standard: considers as heating sources 2. S1: complete with at a system with solar point Note: Provide externally: a cooling/emptying sy solar panels and boile systems suitable for t to UNI 8065: 2019. Recommended appli UNICA 200 (set 60°) = a shower UNICA 260 (set 60°) = a two showers | stic hot water gene ication layer and in ear warranty (upor It is equipped with ghly efficiency con valve, a larger coraged by integrated by integrated by integrated by integration suitable for connesuitable for connesuitable for consumption the following vero 260 litre tank. The heat pump and the heat pump and the incomplete of the properties of the p | terior anti-corrosion of documentation of polyurethane foan polyurethane foan pressor with R1340 documentation. The use the heat pump is the h | | |
| - | model capacity | y size mm | surface weight Ko | ı | |
| Δ _L A | standard 200 L | Ø 654 - h 1638 | 98 | 7026231 | |
| T . | | Ø 654 - h 1638 | S1=1.2 113 | 7026236 | |
| XL A | | Ø 654 - h 1888 | 106 | 7026131 | |
| | S1 260 L | Ø 654 - h 1888 | S1=1.2 121.5 | 7026136 | |
| | solar sensor / DHW recirculation | | | | |

















Our history



For over 40 years we have been a worldwide reference company in the field of heating and cooling systems. We work with passion to ensure indoor comfort thanks to innovative solutions, specifically for residential, commercial and industrial buildings. We design and produce high-efficient and high-performance systems which offer energy saving, comfort and health throughout the year. Invisible solutions spreading a unique sensation of wellbeing in any room.



