

DEFRO
heat



HEATING PUMPS

**PURE
WARMTH**

Choose our heat pumps

THE FIRST POLISH HEAT PUMP PLUG-IN TYPE

Electrical connection of our heat pumps is extremely simple and fast.

- 1.) Connecting the hydromodule with the heat pump with a terminated network cable plugs.
- 2.) Connecting the hydromodule to the network.



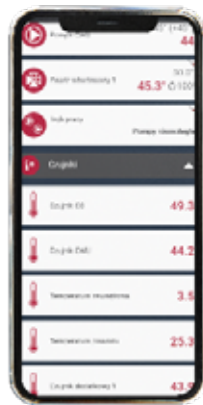
Ecological refrigerant R290

The natural refrigerant R290 - propane was used in the refrigeration system. The unique thermodynamic properties of propane allow the achievement of the highest COP coefficients of efficiency, especially at low external temperatures, and high heating water supply temperatures of up to 65°C. This ozone-neutral gas has minimum global warming potential GWP (global warming potential) equal to 3, which makes it one of the most ecological and safest refrigerants for the environment market. In addition, R290 based devices are not affected regulation on fluorinated greenhouse gases (f-gases), thanks to which there is no need to register them in the Central Register of Operators and the installer does not have to hold f-gas licenses.



COMING SOON
DHP MONOTEC 8kW/12kW





The eModul app in combination with the internet module installed in our heat pumps is the perfect solution for people who they live intensively, often work different hours and lack time for household chores. It is not known from today that the edition the operating parameters of the heating device, depending on your own activities, significantly reduces the bills for heating. Thanks to the application, you can perform the same activities both at home and in the office, all to achieve maximum comfort and efficiency with the lowest possible energy consumption. By using device operation schedules, you can vary the temperature during the day in different time periods using a laptop, tablet or smartphone, from anywhere in the world. Using the eModul app, you can lower the temperature at any time when you forgot to do it before going to work or on your way to vacation.

Construction of the outdoor unit

1. Fan

In order to minimize fan blade noise on have notches at the ends: owl feathers.

2. Evaporator

The larger the evaporator, the more refrigerant can evaporate, thus the heat pump can work more efficiently.

3. Scroll type compressor

The DHP Premium uses the highest quality Emerson Copeland Scroll ON/OFF scroll compressor dedicated to work with R290 refrigerant.

4. Condenser

The condensing propane is transferred to the heating system heat previously extracted in the evaporator and in the compressor.

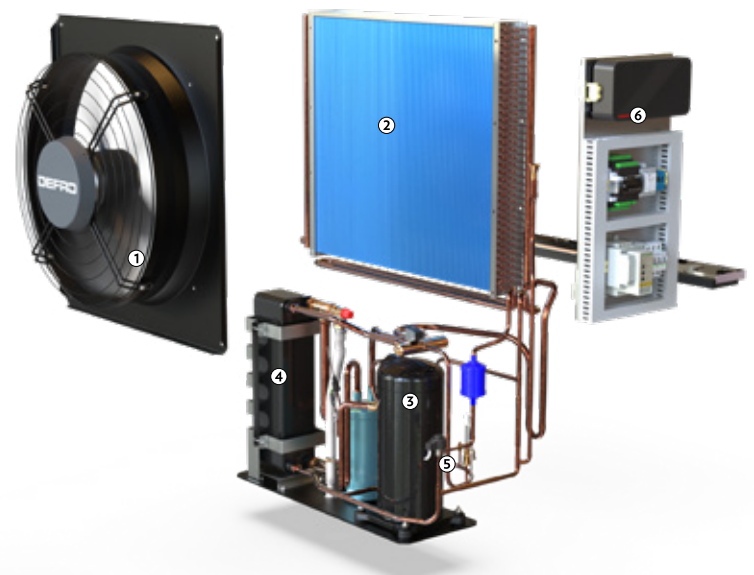
5. Emerson Electronic Expansion Valve

Electronic valve used in DHP Premium expandable gives the greatest possibilities among solutions available on the market.

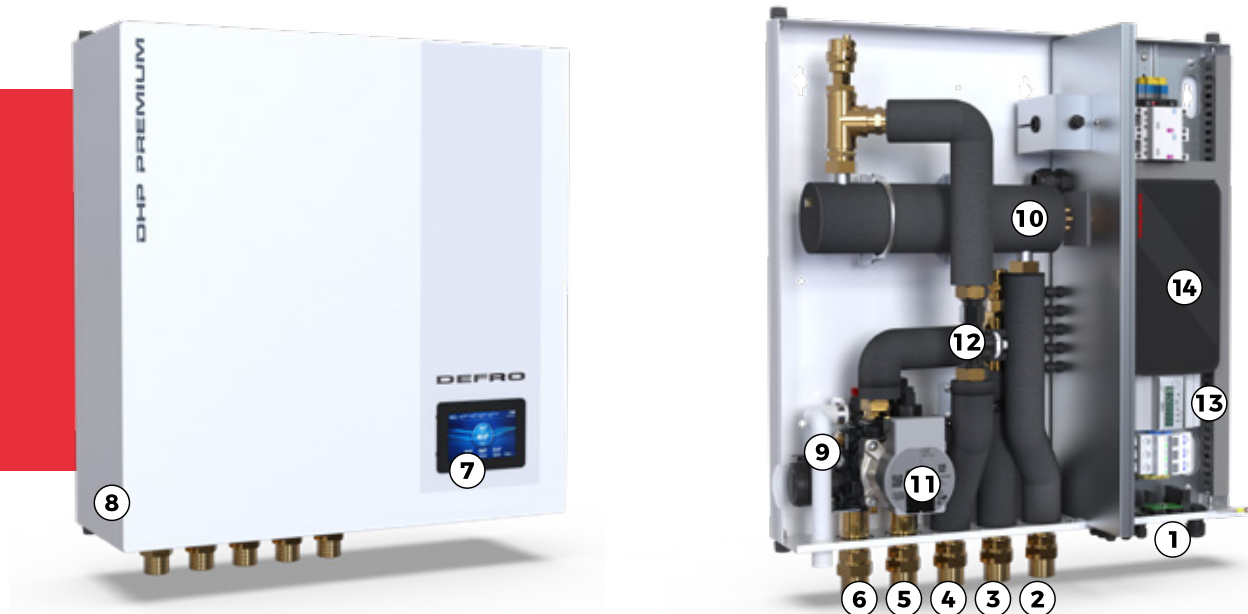
6. Refrigeration circuit controller

It is responsible for communication with the main controller located in the hydromodule.

Preview scheme. In the final product, all elements of the refrigeration and hydraulic systems are thermally insulated.

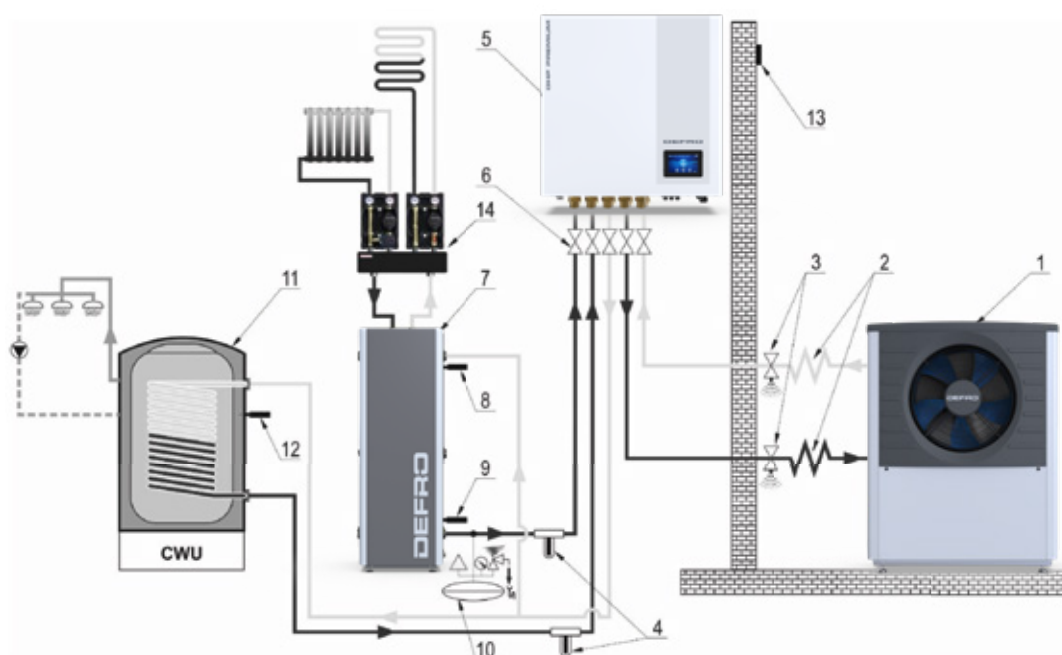


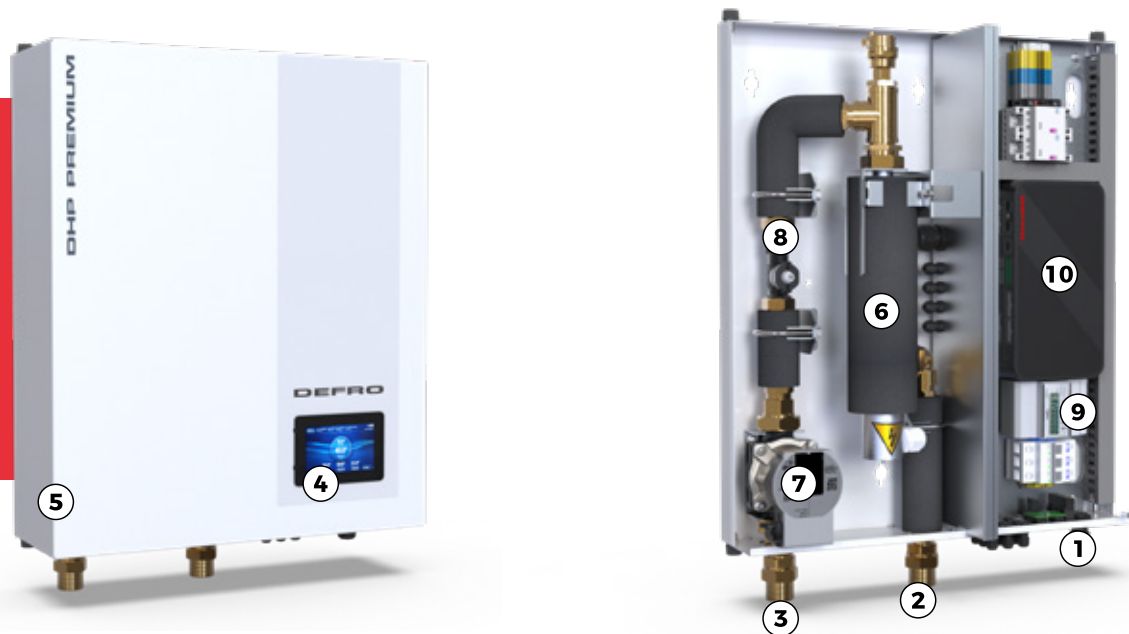
DHP PREMIUM HF (FULL) hydromodule



The DHP PREMIUM HF indoor unit consists of:

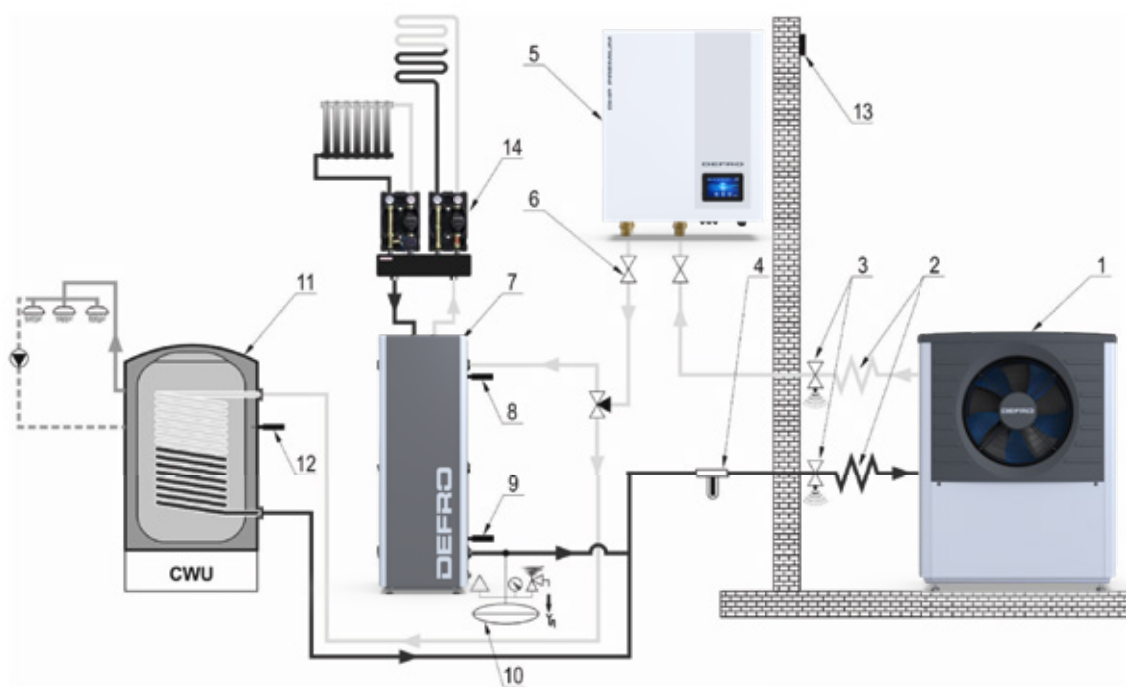
1. Electrical connections and sensors,
2. Power connector from the outdoor unit,
3. Return port to the indoor unit,
4. Central heating and central utility water supply connector,
5. Return connector from the central utility water circuit,
6. Return connector from the central heating,
7. Color display for intuitive and easy access to the desired settings,
8. Metal case of the hydromodule,
9. Drain connector from the safety valve,
10. 6 kW electric heater,
11. Circulation pump integrated with a three-way valve, safety valve and automatic air vent,
12. Flow meter,
13. Electric energy meter,
14. Controller.



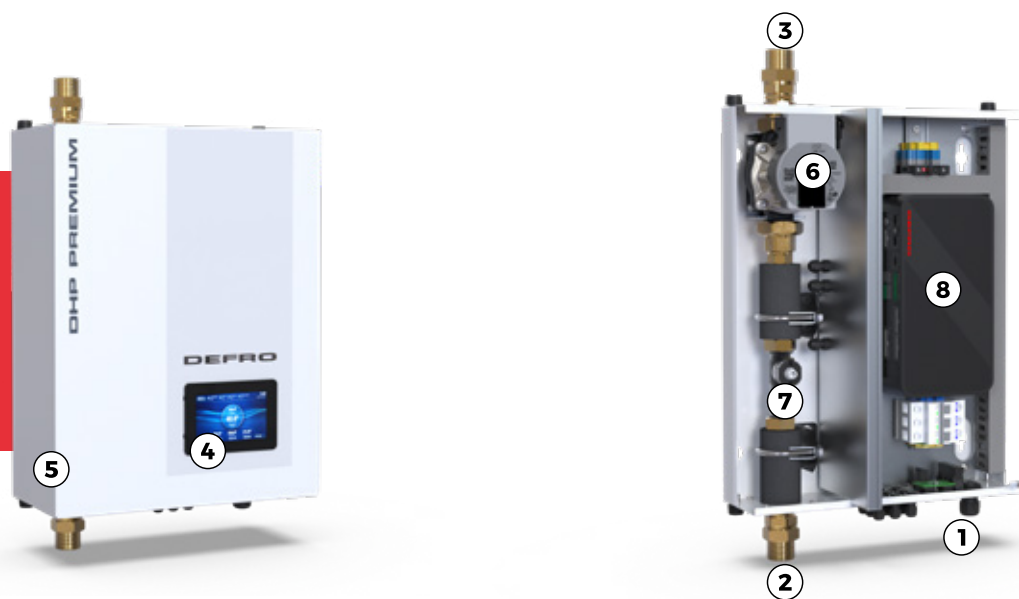


The DHP PREMIUM HM indoor unit consists of:

1. Electrical connections and sensors,
2. Power connector from the outdoor unit,
3. Central heating and central utility water supply connector,
4. Color display for intuitive and easy access to the desired settings,
5. Metal case of the hydromodule,
6. 6 kW electric heater,
7. Circulation pump,
8. Flow meter,
9. Electric energy metej,
10. Controller.

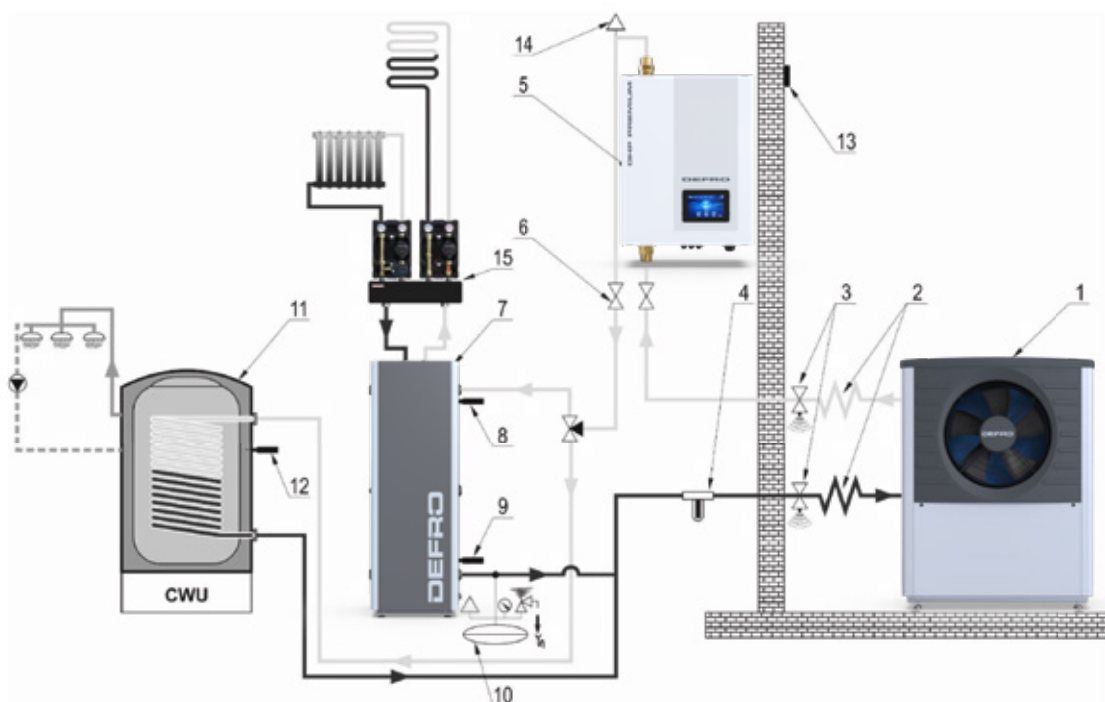


DHP PREMIUM HB (BASIC) hydromodule



The DHP PREMIUM HB indoor unit consists of:

1. Electrical connections and sensors,
2. Power connector from the outdoor unit,
3. Central heating and central utility water supply connector,
4. Color display for intuitive and easy access to the desired settings,
5. Metal case of the hydromodule,
6. Circulation pump,
7. Flow meter,
8. Controller.





Outside unit

Technical data	DHP PREMIUM 8	DHP PREMIUM 12	DHP PREMIUM 16
Heating power / COP - A7 / W35*	7,9 kW / 4,9	12,0 kW / 4,8	16,3 kW / 4,8
Heating power / COP - A2 / W35*	6,1 kW / 3,9	9,0 kW / 3,8	13,0 kW / 4,0
Heating power / COP - A-7 / W35*	5,4 kW / 3,5	7,6 kW / 3,2	10,7 kW / 3,3
Heating power / COP - A-15 / W35*	4,5 kW / 2,5	7,0 kW / 3,0	9,2 kW / 2,9
Energy efficiency class (supply temp. 35°C)	A++		
Energy efficiency class (supply temp. 55°C)	A++		
Min. / max. temp. of central heating and central utility water circuit	10°C / 65°C		
Refrigerant / weight	R290 / 1,4 kg	R290 / 1,8 kg	R290 / 4,0 kg
Type of scroll	Copeland Scroll		
Min. / max. temp. of air during heat pump operation	-25°C / + 35°C		
Outdoor sound power level / inside sound power level	59 / 43 dB (A)	60 / 36 dB (A)	64 / 43dB (A)
Heat pump supply voltage	3x400 V, 50 Hz		
Current protection	C 20A		
Weight - outside unit	209 kg	215 kg	228 kg

* Rounded to 1 decimal place.

Additional equipment

Index	Group product	
522417	F	Freeze protection valve 1"
568938	F	Freeze protection valve 5/4"
584857	F	Three-way reversing valve DN20/G 1"
577097	F	Three-way reversing valve DN25/G 5/4"
577099	F	Valve actuator with cable



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Current product prices are available from authorized DEFRO distributors or authorized points of sale.

The list of authorized points of sale can be found at www.defro.pl.

Visualizations and dimensions of products in the catalog are for reference only.

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