



AIR TO WATER HEAT PUMP R290 MONOBLOCK

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HELIOS SERIES HEAT PUMP

New monoblock heat pump air to water is specifically designed and developed for the European market and cold climate. During development, the main emphasis was placed especially on high-quality components, very high efficiency and long service life. The heat pump with natural refrigerant R290 reaches flow temperature up to 75 °C and therefore can be used as replacement for old heat sources as old coal boiler, electric boilers, oil boilers, etc. Smart Wi-Fi controller with touch display and mobile application provide intuitive, user friendly settings of all parameters.

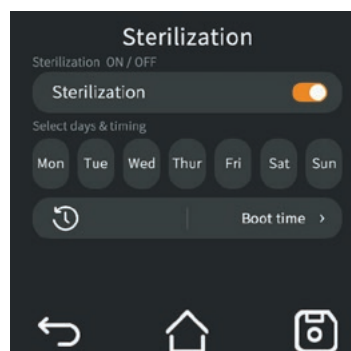
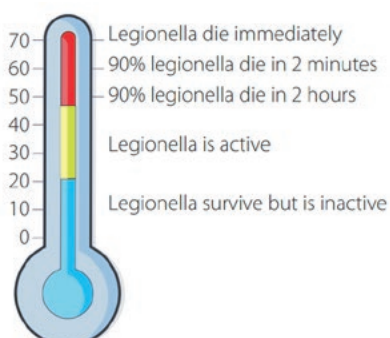
The main features and parameters:

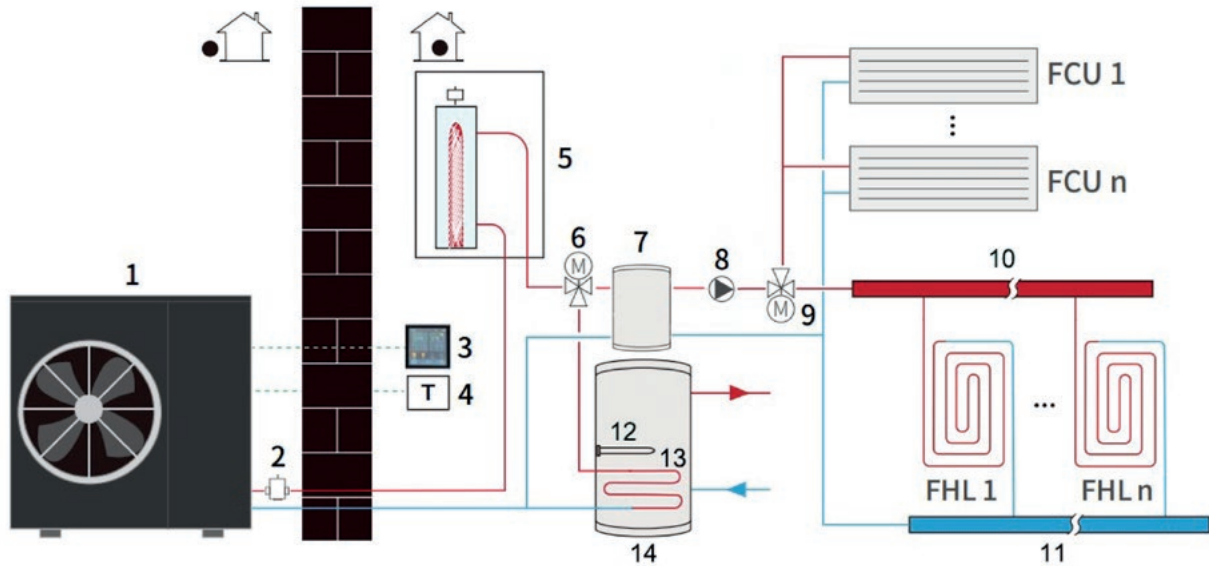
- Performance 10, 12 kW
- 1 phase (230V) all units or 3 phases (400V) 12 kW unit
- Very high efficiency
- Flow temperatures 75 °C
- Natural refrigerant R290 (GWP only 3.3)
- Inverter controlled compressor
- A+++ Energy efficiency class (water 35 °C)
- Integrated circulation pump, water flow switch and automatic air purge valve
- Operation temperature -25 to +43 °C for heating and DHW
- Cooling mode is possible from -5 to +48 °C ambient air
- Heating / cooling mode as standard
- SG Ready
- Electronic expansion valve
- KEYMARK certificate
- MODBUS protocol and network connectivity
- Combination with PV system

DISINFECTION FUNCTION

DHW disinfection function

- The disinfect function is used to kill legionella using 70 °C water to ensure system health and safety. This function can be activated through the user interface.





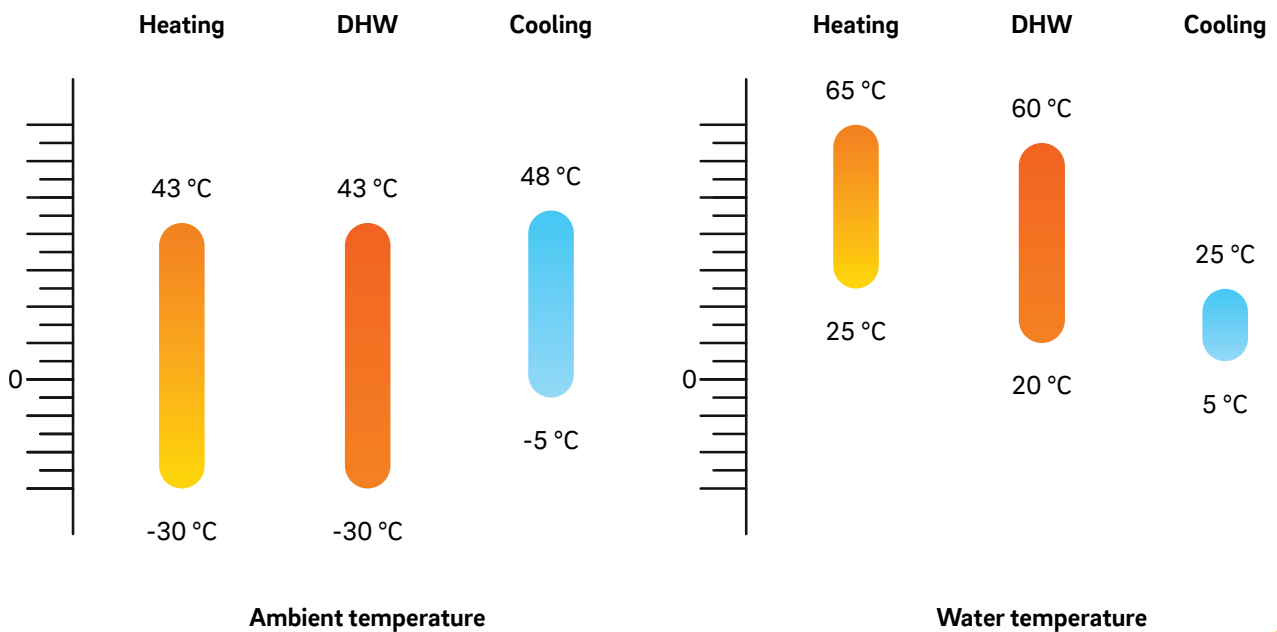
Schematic application of space heating/cooling and DHW

No.	Description
1	Main unit
2	Micro-bubble exhaust valve
3	Wired controller
4	Room thermostat (Field supply)
5	Backup E-heater (Optional)
6	3-way valve for DHW (Field supply)
7	Buffer tank (Field supply)
8	External circulating pump (Field supply)

No.	Description
9	3-way valve for heating/cooling (Field supply)
10	Distribution (Field supply)
11	Collector (Field supply)
12	DBH: Electric heater of DHW tank (Field supply)
13	Heat exchange coils (Field supply)
14	DHW tank
FCU...n	Fan coil units (Field supply)
FCU...n	Floor heating loops (Field supply)

- Cascade up to 8 units as group

WIDE RANGE OF OPERATION -R290 MONOBLOCK



WI-FI CONTROLLER AND APP

Main features

- Touch-key design
- Colour LCD
- Error code display
- Operation parameter checking
- Point check function
- Multiple languages (12 languages)
- Child lock function
- Buzzer alarm
- Built-in temperature sensor and Wi-Fi module
- Modbus protocol and network flexibility



SPECIFICATIONS

Heating (A7W35)	Capacity	kW	10.0	12.0
	Power input	kW	2.06	2.73
	EER	W/W	4.85	4.40
Cooling (A35W18)	Capacity	kW	10.0	12.0
	Power input	kW	2.25	2.89
	EER	W/W	4.45	4.15
Refrigerant (R290)	Factory	kg	1.2	
Sound pressure level*		dB(A)	53	54
Net dimension (W×H×D)		mm	1020×1020×470	
Net / Gross weight		kg	115/125	
Water piping connection		-	1R210-/11/34	

* Sound pressure level is the maximum value tested under the two conditions of Heating: A7W35 and Cooling: A35W18.

FULLY CERTIFIED

