



AIR TO WATER HEAT PUMP R32 MONOBLOCK

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HELIOS SERIES HEAT PUMP

Monoblock heat pump R32 air to water is specifically designed and developed for the European market and very cold climate – minimum outdoor temperature for operation is up to -30 °C. Usage of EVI compressor DC Inverter technology allows more efficiency and ensure stable operation at lower ambient temperatures. The heat pump with refrigerant R32 reaches flow temperature up to 65 °C and therefore can be used in houses with underfloor heating and radiators with maximum operation temperature 60 °C. Smart Wi-Fi controller with touch display and application provides intelligent, user friendly settings all parameters.

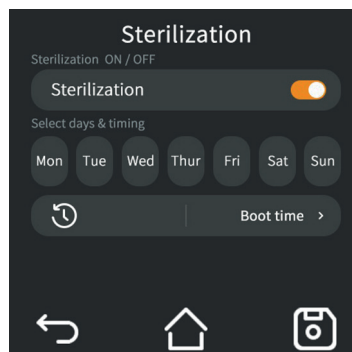
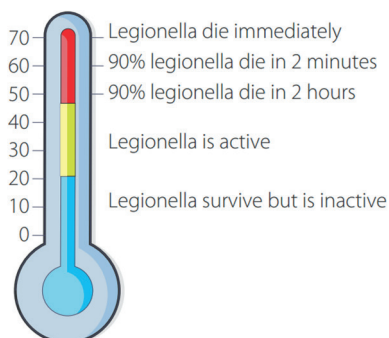
The main features and parameters:

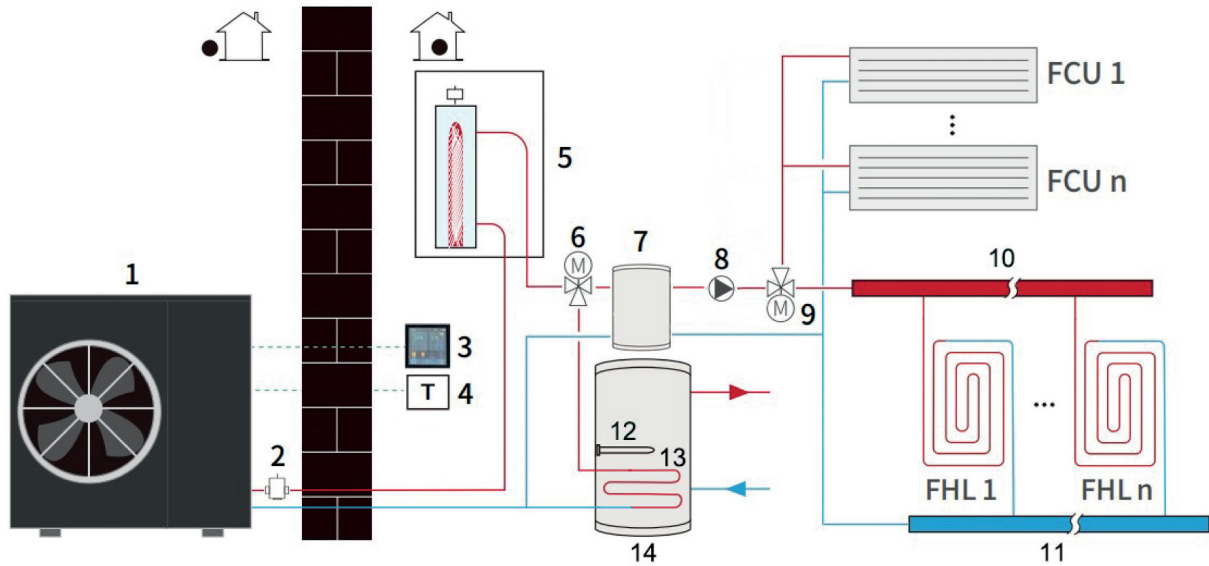
- Performance 8, 10, 12, 14 a 16 kW
- 1 phase (230V) all units or 3 phases (400V) 12, 14 and 16 kW units
- Very high efficiency
- Flow temperatures 65 °C
- Compressor - Twin rotary EVI DC Inverter
- Refrigerant R32 (GWP 675)
- A+++ Energy efficiency class (water 35 °C)
- Integrated circulation pump, water flow switch and automatic air purge valve
- Operation temperature -30 to +43 °C for heating and DHW
- Cooling mode is possible from -5 to +48 °C ambient air
- Heating / colling 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.





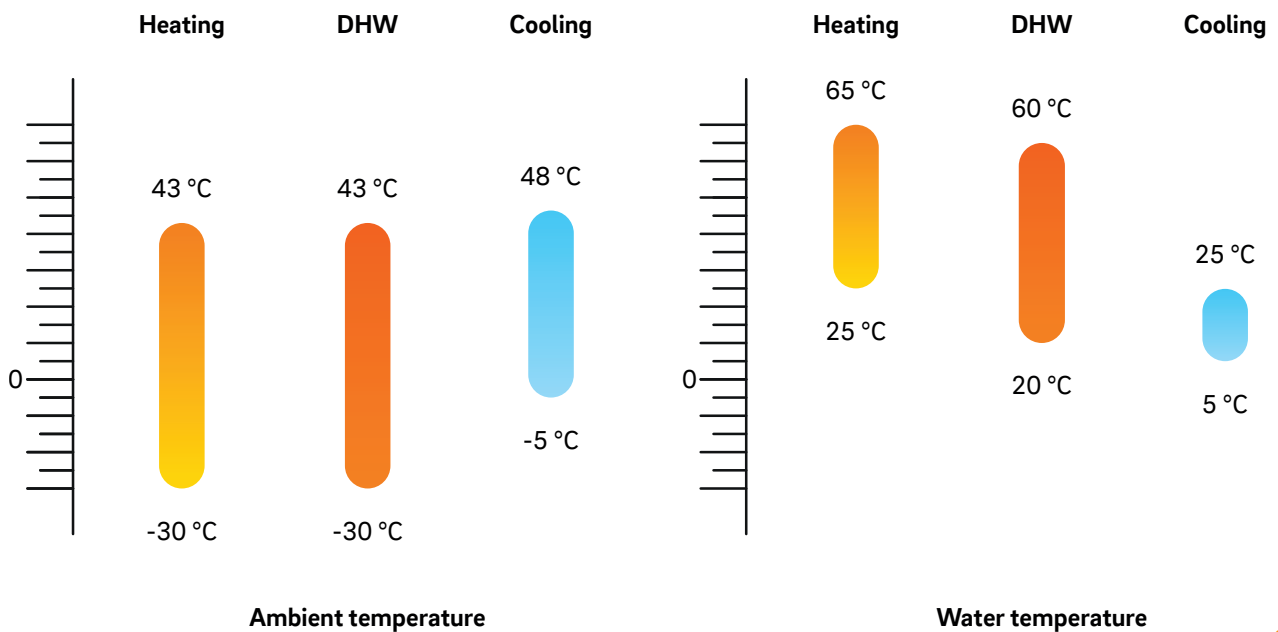
Schematic application of space heating/cooling and DHW

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 -R32 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	8.5	10.0	12.2	14.2	16.0
	Power input	kW	1.79	2.13	2.46	3.02	3.52
	COP	W/W	4.75	4.69	4.96	4.7	4.55
Cooling (A35W18)	Capacity	kW	8.0	10.0	12.2	14.0	15.5
	Power input	kW	1.9	2.56	2.91	3.54	4.19
	EER	W/W	4.21	3.91	4.19	3.95	3.7

Refrigerant (R32)	Factory	kg	1.5			2.2	
Sound pressure Level*		dB(A)	66	67	68	69	70
Net dimension (W×H×D)		mm	1020×1020×405				
Net / Gross weight		kg	100/110			120/130	
Water piping connection		-	R 1 - 1/4				

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

FULLY CERTIFIED

