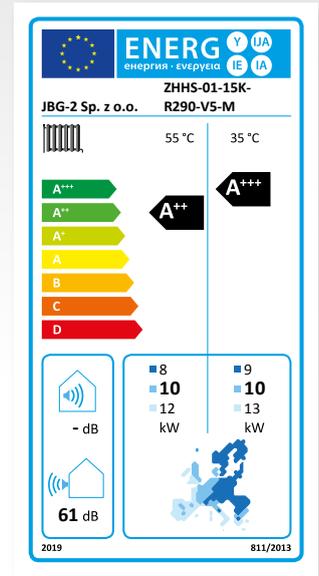
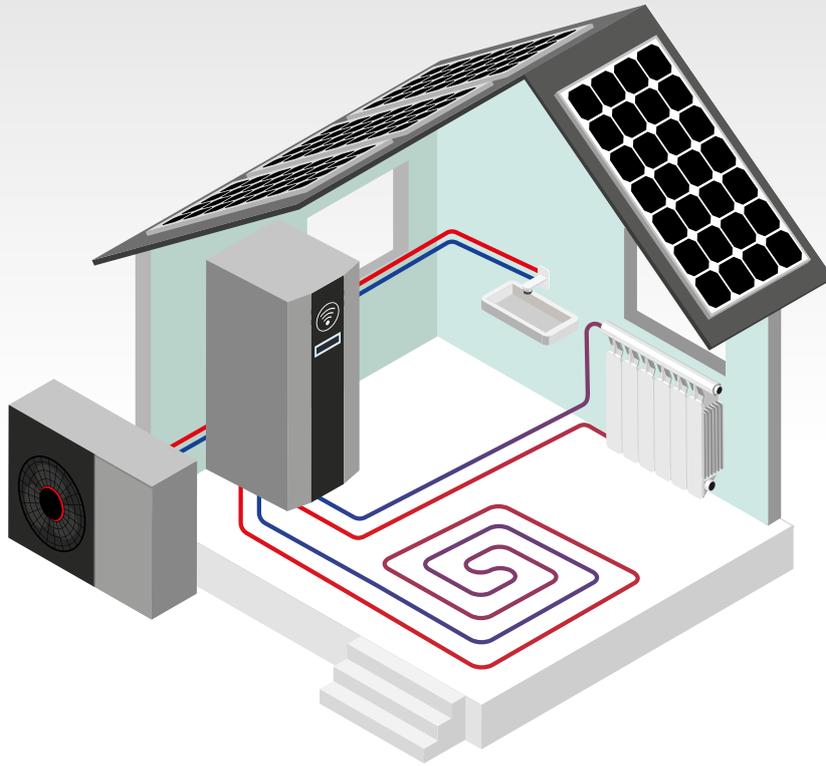




Heat pump 10K / 15K

ZHHS-01-10K-R290-V5-M / ZHHS-01-15K-R290-V5-M

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Heat pumps allow building heating with underfloor heating systems and traditional radiators. It is suitable for heating domestic hot water also. Some pumps have a space cooling option—they can replace air conditioning. The general principle of the pump is to receive heat energy from the build-

ing's surroundings and transfer it inside through the heating system. A heat pump is a modern, economical, and environmentally friendly home heating source. It uses completely free and natural resources, and electricity consumption is limited to drive the process and the operation of the circulating

pump. It reduces overall heating costs. This device is an alternative solution to traditional heating systems that rely on fossil fuels. Eliminating the combustion process reduces the emission of carbon monoxide into the atmosphere and positively affects air quality.

- Natural ecological refrigerant R290 (propane)
- Energy Class A+++ / A++ 35°C / 55°C
- Feed water temperature
- Low energy consumption due to the inverter compressor
- Modern design
- Operation parameters in real time
- Variable adjustment of efficiency due to the adjustable fan speed and water pump
- Very low noise level
- Reduced thawing time and condensate tray heating system
- High heating output at low ambient air temperature
- Wireless remote control
- Water flow transducer with water flow measurement
- Compact, monoblock type housing
- Easy installation of the entire unit outside of the building (installation without F-Gas certificate)
- The possibility to modernise older installations due to the cooperation with traditional heaters.

MONOBLOCK HEAT PUMP

ZHHS-01-10K-R290-V5-M / ZHHS-01-15K-R290-V5-M

Performance data – heating (EN 14511)

			ZHHS-01-10K-R290-V5-M	ZHHS-01-15K-R290-V5-M	
①	A7/W35	Power range (min-max) ¹	kW	3,38 ÷ 9,86	5,35 ÷ 14,7
		Partial load ¹	kW	6,60	8,70
		Power consumption ¹	kW	1,45	1,64
		COP ¹		4,56	5,29
②	A7/W45	Power range (min-max) ²	kW	3,00 ÷ 8,89	5,22 ÷ 14,81
		Partial load ²	kW	5,29	8,58
		Power consumption ²	kW	1,44	2,15
		COP ²		3,67	3,99
③	A7/W55	Power range (min-max) ³	kW	2,88 ÷ 8,51	4,92 ÷ 13,76
		Partial load ³	kW	5,50	9,20
		Power consumption ³	kW	2,00	2,89
		COP ³		2,75	3,19
④	A2/W35	Power range (min-max) ⁴	kW	3,00 ÷ 9,01	4,67 ÷ 13,65
		Partial load ⁴	kW	3,00	4,67
		Power consumption ⁴	kW	0,67	0,98
		COP ⁴		4,48	4,75
⑤	A-7/W35	Maximum power ⁵	kW	6,80	11,17
		Power consumption ⁵	kW	2,47	4,08
		COP ⁵		2,75	2,73
Cooling data					
Pump type			air / water		
Refrigerant type			R290		
Refrigerant amount		kg	0,55	0,8	
Maximum working pressure		bar	26		
Compressor type			inverter scroll		
Oil			PAG PZ46M		
Adjustment type			electronic		
Heating + DHW					
Minimum working pressure		bar	1,0		
Maximum working pressure		bar	3,0		
Rated flow		m ³ /h	1,17	1,48	
External operating temperature range		°C	from -20 to +35		
Feed water temperature		°C	from +20 to +65		
Physical dimensions					
Depth x width x height		mm	535 x 1155 x 935	535 x 1155 x 1530	
Weight		kg	132	166	
Water connections			G 5/4 "		
Sound power level		dB	59	61	
Air flow		m ³ /h	3500	6000	
Electrical data					
Electrical connection		V/Ph/Hz	400 / 3~ / 50		
Protection rating			IP24		
Electric heater power (option with hydrobox / hydrotower)		kW	3 / 6 / 9		
Maximum starting current		A	10	13	
Fan power consumption		W	50	100	
Number of fans			1	2	
Fan rotor speed		RPM	700		

SCOP

W35 4,46 / W55 3,31 W35 4,45 / W55 3,34

Energy efficiency class

W35 A+++ / W55 A++

Device with a regulator – feed temperature 35°C / 55°C

- ① Heating temperature:
- ② Heating temperature:
- ③ Heating temperature:
- ④ Heating temperature:
- ⑤ Heating temperature:

water I/O temperature: 30°C / 35°C,
water I/O temperature: 40°C / 45°C,
water I/O temperature: 50°C / 55°C,
water I/O temperature: 30°C / 35°C,
water I/O temperature: 30°C / 35°C,

Ambient temperature: DB 7°C / WB 6°C;
Ambient temperature: DB 7°C / WB 6°C;
Ambient temperature: DB 7°C / WB 6°C;
Ambient temperature: DB 2°C / WB 1°C;
Ambient temperature: DB -7°C / WB -8°C;



HYDRAULIC BOX

- Fully integrated, necessary elements of hydraulic system, including a 10-litre expansion vessel, allowing to heat up to 160 m² of usable area.
- Auxiliary heater operating within the ranges of 3/6/9 kW
- 3-way valve switching over to domestic hot water.
- Compact construction that takes up minimal space.

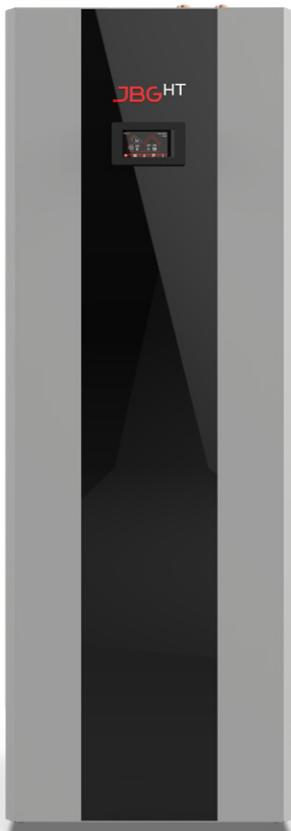


Dimensions:
835 x 575 x 325 mm

CONTROLLER



Dimensions:
305 x 405 x 160 mm



HYDRAULIC TOWER

- Tank with a capacity of 200 litres allows to use approximately 400 litres of running water at a temperature of approx. 40°C.
- Fully integrated, necessary elements of hydraulic system, including a 10-litre expansion vessel, allowing to heat up to 160 m² of usable area.
- Auxiliary heater operating within the ranges of 3/6/9 kW
- 3-way valve switching over to domestic hot water.
- Compact construction that takes up minimal space.



Dimensions:
1700 x 595 x 760 mm



Polyurethane
insulation / 6 50 mm



Capacity:
200 l



Inner tank: stainless steel

