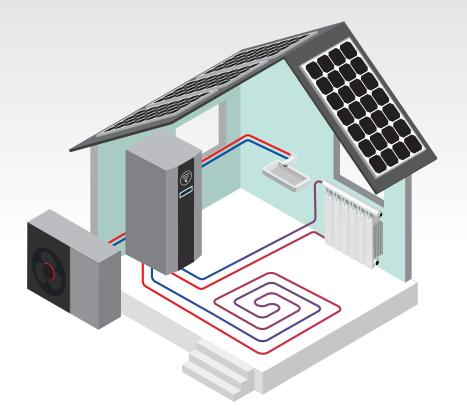
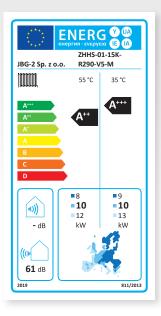


Heat pump 10K / 15K

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





Heat pump is a heating device which allows to heat buildings through underfloor heating systems, as well as traditional heaters. It is also suitable for heating up domestic hot water. Certain pumps also have an option to cool down rooms, which is why they can replace air conditioning. The pump's general operation principle is based

on collecting heat energy from the area surrounding the building and transporting it inside through the heating system. Heat pump is a modern, economic and eco-friendly home heating system. It uses completely free and natural resources, and power consumption is reduced to process drive and operation of the circulation pump.

This reduces the heating costs. This type of device is an alternative solution to traditional heating systems, which are based on fossil fuels. Eliminating of the combustion process, limited emission of carbon monoxide to the atmosphere and positively affects air quality.



Natural ecological refrigerant R290 (propane)



Energy Class A+++ / A++ 35°C / 55°C



Operation parameters in real time



Low energy consumption due to the inverter compressor



Elastic and modern design



Reduced thawing time and condensate tray heating system



Variable adjustment of efficiency due to the adjustable fan speed and water pump



Very low noise level



Water flow transducer with water flow measurement



High heating output at low ambient air temperature



Wireless remote control



The possibility to modernise older installations due to the cooperation with traditional heaters.



Compact, monoblock type housing



Easy installation of the entire unit outside of the building (installation without F-Gas certificate)

MONOBLOCK HEAT PUMP

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

				ZHHS-01-10K-R290-V5-M	ZHHS-01-15K-R290-V5-M
		Power range (min-max) ¹	kW	3,38 ÷ 9,86	5,35 ÷ 14,7
1	V35	Partial load ¹	kW	6,60	8,70
ľ	A7/W35	Power consumption ¹	kW	1,45	1,64
		COP ¹		4,56	5,29
	A7/W45	Power range (min-max) ²	kW	3,00 ÷ 8,89	5,22 ÷ 14,81
		Partial load ²	kW	5,29	8,58
2		Power consumption ²	kW	1,44	2,15
		COP ²		3,67	3,99
	A7/W55	Power range (min-max) ³	kW	2,88 ÷ 8,51	4,92 ÷ 13,76
Ĭ		Partial load ³	kW	5,50	9,20
3		Power consumption ³	kW	2,00	2,89
	٩	COP ³		2,75	3,19
	35	Power range (min-max) ⁴	kW	3,00 ÷ 9,01	4,67 ÷ 13,65
		Partial load ⁴	kW	3,00	4,67
4	A2/W35	Power consumption ⁴	kW	0,67	0,98
	∢	COP ⁴	1	4,48	4,75
	10	Maximum power ⁵	kW	6,80	11,17
5	A-7/W35	Power consumption ⁵	kW	2,47	4,08
Ĭ	۸-7/	COP 5	KVV		
			e data	2,75	2,73
D	ump type		g data	air / water	
		gerant type		R290	
		frigerant amount		0,55	0,8
	_	working pressure	kg bar		16
		npressor type ustment type		inwerter scroll PAG PZ46M electronic	
	oil				
Δ	djustmer				
		Heating	+ DHW		
Ν	/linimum	working pressure	bar	1,0	
Ν	aximum working pressure		bar	3,0	
R	ated flow	ed flow		1,17	1,48
E	xternal o	ernal operating temperature range		from -20 to +35	
F	eed wate	ed water temperature		from +20 to +65	
		Physical c	imensions		ı
	epth x w	idth x height	mm	535 x 1155 x 935	535 x 1155 x 1530
V	Veight	ater connections		132	166
				G 5/4 "	
		wer level	dB	59	61
Δ	ir flow		m³/h	3500	6000
Electrica				400 / 201 / 50	
		ctrical connection stection rating		400 / 3~ / 50	
				IP24 3/6/9	
		eater power	kW		
		starting current	A	10	13
		r consumption	W	50	100
		nber of fans rotor speed			
	all lotol :	p		700 w35 4,46 / w55 3,31 w35 4,45 / w55 3,34	

Energy efficiency class

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

W35 A+++ / W55 A++

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 / $35^{\circ}\text{C}\text{,}$ 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 / δ 50 mm



Capacity: 200 I



Inner tank: stainless steel

