



Heat pump 10K / 15K

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

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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.





Operation parameters in real

Reduced thawing time and condensate tray heating system

Water flow transducer with water flow measurement



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



housing



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

| | | MONOBLOCK HEAT PUMP | · | |
|--|------------------------------------|-----------------------------------|-----------------------|-----------------------|
| | ZHHS-0 | 1-10K-R290-V5-M / ZHHS-01-15 | K-R290-V5-M | |
| | | Performance data – heating (EN 14 | 511) | |
| | | | ZHHS-01-10K-R290-V5-M | ZHHS-01-15K-R290-V5-I |
| | Power range (min-max) ¹ | kW | 3,38 ÷ 9,86 | 5,35 ÷ 14,7 |
| A7/W35 | Partial load ¹ | kW | 6,60 | 8,70 |
| | 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 |
| | Power consumption ² | kW | 1,44 | 2,15 |
| | COP ² | | 3,67 | 3,99 |
| | Power range (min-max) ³ | kW | 2,88 ÷ 8,51 | 4,92 ÷ 13,76 |
| W55 | Partial load ³ | kW | 5,50 | 9,20 |
| A7/W55 | Power consumption ³ | kW | 2,00 | 2,89 |
| A | COP ³ | | 2,00 | 3,19 |
| 35 | | kW | | |
| | Power range (min-max) ⁴ | | 3,00 ÷ 9,01 | 4,67 ÷ 13,65 |
| A2/W35 | Partial load ⁴ | kW | 3,00 | 4,67 |
| A2 | Power consumption ⁴ | kW | 0,67 | 0,98 |
| | COP ⁴ | | 4,48 | 4,75 |
| A-7/W35 | Maximum power ⁵ | kW | 6,80 | 11,17 |
| <u></u> | Power consumption ⁵ | kW | 2,47 | 4,08 |
| × | COP ⁵ | | 2,75 | 2,73 |
| | | Cooling data | | |
| Pump type | | | air / water | |
| Refrige | erant type | | R2 | 290 |
| Refrige | erant amount | kg | 0,55 | 0,8 |
| Maximum working pressure | | bar | 26 | |
| Compressor type | | | inwerter scroll | |
| Oil | | | PAG PZ46M | |
| Adjustment type | | | electronic | |
| | | Heating + DHW | | |
| Minimum working pressure | | bar | 1,0 | |
| Maximum working pressure | | bar | 3 | 3,0 |
| Rated flow | | m³/h | 1,17 | 1,48 |
| External operating temperature range Feed water temperature | | °C | from -20 to +35 | |
| | | 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 | V | m³/h | 3500 | 6000 |
| | | Electrical data | | |
| Electrical connection | | V/Ph/Hz | 400 / 3~ / 50 | |
| Protection rating | | | IP24 | |
| Electric heater power | | kW | | 6/9 |
| Maximum starting current | | A | 10 | 13 |
| Fan power consumption | | W | 50 | 100 |
| | er of fans | | 1 | 2 |
| | tor speed | RPM | | 00 |
| SCOF | | | w35 4,46 / w55 3,31 | w35 4,45 / w55 3,3 |
| | efficiency class | | w35 A +++ | |

Heating temperature:
Heating temperature:
Heating temperature:
Heating temperature:
Heating temperature:

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,

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





JBG-2 Sp. z o.o. reserves the right to alter the standards of the manufactured devices or to withdraw products from its offer without notice.

JBG-2 Sp. z o.o. ul. Gajowa 5 43-254 Warszowice Poland

Office:

E: info@jbgpv.com T: +48 32 720 41 48 M: +48 600 056 600