

HEAT PUMPS

THERMAL CH + DHW

Monoblock with hydraulic module

THERMAL monoblock heat pumps are energy efficient devices which draw energy from the air and use it to heat or cool the building and prepare heat utility water. They can be used in single-family houses as well as commercial buildings. Heiko's heat pumps are advanced devices, which guarantee efficient and safe operation.



Two heating circuits

A standard THERMAL heat pump can be configured to supply different heat loads at the same time, like a radiator space heating system and an underfloor heating system. With two heating circuits, the temperature in different heat sources can be managed separately; in practical terms, different temperature settings can be made for the radiators and the underfloor heating.



Wide temperature range – reliable operation in all conditions

The Heiko heat pumps are reliable units which operate from -25°C outdoors and can heat DHW to 55°C.



Wi-Fi control

The Wi-Fi control is available in standard, which makes operating the Heiko heat pumps more comfortable. The device can be easily controlled with a dedicated app. Thanks to the Wi-Fi control, Heiko service centre can remotely help the user.



Modern control panel

The integrated control panel enables easy and quick changing of operating parameters. The controller menu is available in several language versions.



Quiet operation

The Heiko THERMAL heat pumps have DC motor fans, a well sound-insulated refrigerant compressor, and an optimised air fan design to ensure very quiet operation already at 52 dB(A). The units can also run in a quiet mode for improved comfort at work or while resting.



Automatic weather control

The Heiko THERMAL heat pumps operate in an automatic process controlled by weather temperature curves. In practice, this means that the heat pump operation is adapted automatically to actual weather conditions without any human intervention.



Frequency converter technology

The frequency converter technology ensures economical operation of the heat pump without sudden voltage spikes in the compressor frequency. As a result, the pump's operation is energy efficient and quiet. The appliances have A+++ energy rating.

AUTOMATIC

WEATHER
CONTROL

OPERATING RANGE

COOLING
0-50°C

OPERATING RANGE

HEATING
-25 - 45°C





| Model | | | HEIKO THERMAL 6 | HEIKO THERMAL 9 | HEIKO THERMAL 12 |
|---|--|-----------------|--|-----------------|------------------|
| Seasonal energy efficiency rating, space heating, temperate climate | LWT = 35°C | | A+++ | A+++ | A+++ |
| | LWT = 55°C | | A++ | A++ | A++ |
| Rated heat capacity, including all auxiliary heating units, temperate climate (-10°C)** | LWT = 35°C | kW | 4 | 6 | 8 |
| | LWT = 55°C | | 4 | 6 | 7 |
| Seasonal energy efficiency, space heating, temperate climate | LWT = 35°C | % | 186.7 | 186 | 185.5 |
| | LWT = 55°C | | 133.2 | 130.4 | 129.3 |
| Annual energy consumption, temperate climate | LWT = 35°C | kWh | 1827 | 2826 | 3879 |
| | LWT = 55°C | | 2809 | 3728 | 3910 |
| Indoor sound power level | | dB(A) | 44 | 44 | 44 |
| Outdoor sound power level | | dB(A) | 52 | 53 | 52 |
| Special precautions | See the Installation and Service Manuals before attempting the installation. | | | | |
| Electrical power efficiency | | | N/A | | |
| Rated heat capacity, including all auxiliary heating units, cold climate | LWT = 35°C | kW | 3 | 5 | 7 |
| | LWT = 55°C | | 3 | 5 | 6 |
| Rated heat capacity, including all auxiliary heating units, warm climate | LWT = 35°C | kW | 6 | 8 | 10 |
| | LWT = 55°C | | 6 | 7 | 8 |
| Seasonal energy efficiency, space heating, cold climate | LWT = 35°C | % | 155 | 153 | 156 |
| | LWT = 55°C | | 117 | 105 | 110 |
| Seasonal energy efficiency, space heating, warm climate | LWT = 35°C | % | 189 | 192 | 194 |
| | LWT = 55°C | | 147 | 143 | 142 |
| Annual energy consumption with regard to final energy amount – cold climate | LWT = 35°C | kWh | 2071 | 3149 | 4020 |
| | LWT = 55°C | | 3089 | 4100 | 4112 |
| Annual energy consumption with regard to final energy amount – warm climate | LWT = 35°C | kWh | 1710 | 3094 | 3480 |
| | LWT = 55°C | | 2550 | 3510 | 3560 |
| Heat pump unit power supply | | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| Electrical heater power supply | | V | 230 | 400 | 400 |
| Heating (LWT = 35°C) (Outdoor temperature 2°C, 85% RH, EWT 30°C, LWT 35°C) | Capacity | kW | 6.1 | 7.8 | 10.1 |
| | COP | - | 3.8 | 3.87 | 3.9 |
| Heating (LWT = 35°C) (Outdoor temperature 7°C, 85% RH, EWT 47°C, LWT 55°C) | Capacity | kW | 6.5 | 9.2 | 11.6 |
| | COP | - | 4.61 | 4.38 | 4.3 |
| Cooling (LWT = 18°C) (Outdoor temperature 35°C, EWT 23°C, LWT 18°C) | Capacity | kW | 7.45 | 9.5 | 9.8 |
| | EER | - | 4.05 | 4.23 | 3.9 |
| Cooling (LWT = 7°C) (Outdoor temperature 35°C, EWT 12°C, LWT 7°C) | Capacity | kW | 7.45 | 9.5 | 9.8 |
| | EER | - | 4.05 | 4.23 | 3.9 |
| Current protection control | | A | 16 | 25 | 25 |
| Power supply (number of conductors x cross section) | | mm ² | 5 x 4 | 5 x 4 | 5 x 4 |
| Dimensions of the indoor unit (W x H x D) | Net/gross | mm | 570x550x260 / | 570x550x260 / | 570x550x260 / |
| | | | 620x600x310 | 620x600x310 | 620x600x310 |
| Dimensions of the outdoor unit (W x H x D) | Net/gross | mm | 1010x370x700 / | 1165x370x845 / | 1165x370x845 / |
| | | | 1060x420x750 | 1200x420x900 | 1200x420x900 |
| Indoor unit weight | | kg | 25 / 31 | 25 / 31 | 25 / 31 |
| Outdoor unit weight | | kg | 65 / 76 | 78 / 90 | 85 / 94 |
| Compressor | Type | | Twin Rotary – 1 | Twin Rotary – 1 | Twin Rotary – 1 |
| Sensors | | | TC (system temp.), TW (DHW temp.), TV1 (1st circuit temp.), TV2 (2nd circuit temp.), TR (room temp.) | | |
| Integrated electrical heater | | kW | 3 | 6 | 6 |
| Compressor manufacturer | | | Mitsubishi | Mitsubishi | Mitsubishi |
| Refrigerant | Type / amount of gas | kg | R32 / 0.9 | R32 / 1.4 | R32 / 1.8 |
| | Cooling | °C | 0 - 50 | 0 - 50 | 0 - 50 |
| Recommended operating range | Heating | °C | -25 - 45 | -25 - 45 | -25 - 45 |
| | DHW | °C | -25 - 55 | -25 - 55 | -25 - 55 |
| Water side heat exchanger | Type | | Plate heat exchanger | | |
| Water-side connection | Type | Inch | 1 | 1 | 1 |
| Water Pump | Max lifting height | m | 7.5 | 7.5 | 7.5 |
| | Cooling | °C | 7 – 25 | 7 – 25 | 7 – 25 |
| Outlet water temperature range | Heating | °C | 20 – 55 | 20 – 55 | 20 – 55 |
| | DHW (tank) | °C | 25 – 55 | 25 – 55 | 25 – 55 |

* When installed and started by the Authorised Service.

** Heating power for outdoor temperature of -10°C