

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

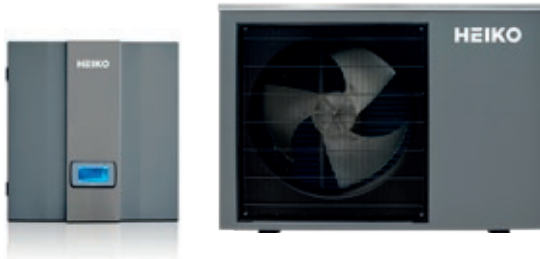
OPERATING RANGE

COOLING
0-50°C

OPERATING RANGE

HEATING
-25 - 45°C





Model			HEIKO THERMAL 6	HEIKO THERMAL 9	HEIKO THERMAL 12	HEIKO THERMAL 15	HEIKO THERMAL 19
Seasonal energy efficiency rating, space heating, temperate climate	LWT = 35°C		A+++	A+++	A+++	A+++	A+++
	LWT = 55°C		A++	A++	A++	A++	A++
Rated heat capacity, including all auxiliary heating units, temperate climate (-10°C)**	LWT = 35°C	kW	4	6	8	12	16
	LWT = 55°C		4	6	7	11	15
Seasonal energy efficiency, space heating, temperate climate	LWT = 35°C	%	186.7	186	185.5	196,8	190,5
	LWT = 55°C		133.2	130.4	129.3	130,2	130,11
Annual energy consumption, temperate climate	LWT = 35°C	kWh	1827	2826	3879	4829	6953
	LWT = 55°C		2809	3728	3910	7602	7750
Indoor sound power level		dB(A)	44	44	44	44	44
Outdoor sound power level		dB(A)	52	53	52	59	61
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	10,8	15,1
	LWT = 55°C	kW	3	5	6	10,6	14,3
Rated heat capacity, including all auxiliary heating units, warm climate	LWT = 35°C	kW	6	8	10	13,8	18,2
	LWT = 55°C	kW	6	7	8	13,1	16,1
Seasonal energy efficiency, space heating, cold climate	LWT = 35°C	%	155	153	156	160	156
	LWT = 55°C	%	117	105	110	115	110
Seasonal energy efficiency, space heating, warm climate	LWT = 35°C	%	189	192	194	196	194
	LWT = 55°C	%	147	143	142	143	140
Annual energy consumption with regard to final energy amount – cold climate	LWT = 35°C	kWh	2071	3149	4020	7020	8825
	LWT = 55°C		3089	4100	4112	7910	9930
Annual energy consumption with regard to final energy amount – warm climate	LWT = 35°C	kWh	1710	3094	3480	6243	8105
	LWT = 55°C		2550	3510	3560	6913	8590
Heat pump unit power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	380-420 / 3 / 50	380-420 / 3 / 50
Electrical heater power supply		V	230	400	400	400	400
Current protection for the electric heater		B	16	16 (3F)	16 (3F)	16 (3F)	16 (3F)
Heater supply (number of conductors x cross section)		mm ²	3 x 2,5	5 x 2,5	5 x 2,5	5 x 2,5	5 x 2,5
Heating (LWT = 35°C) (Outdoor temperature 2°C, 85% RH, EWT 30°C, LWT 35°C)	Capacity	kW	6.1	7.8	10.1	13.8	18.5
	COP	-	3.8	3.87	3.9	4	4,47
Heating (LWT = 35°C) (Outdoor temperature 7°C, 85% RH, EWT 47°C, LWT 55°C)	Capacity	kW	6.5	9.2	11.6	15,5	18,5
	COP	-	4.61	4.38	4.3	5	4,47
Cooling (LWT = 18°C) (Outdoor temperature 35°C, EWT 23°C, LWT 18°C)	Capacity	kW	7.45	9.5	9.8	18,6	7,35
	EER	-	4.05	4.23	3.9	4	22,5
Cooling (LWT = 7°C) (Outdoor temperature 35°C, EWT 12°C, LWT 7°C)	Capacity	kW	7.45	9.5	9.8	13,1	15,8
	EER	-	4.05	4.23	3.9	3	2,94
Current protection control		A	16	25	25	25	25
Power supply (number of conductors x cross section)		mm ²	5 x 4	5 x 4	5 x 4	25	25
Current protection control		A	16	25	25	3 x 2,5	3 x 2,5
Power supply (number of conductors x cross section)		mm ²	5 x 4	5 x 4	5 x 4	25 (3F)	25 (3F)
Dimensions of the indoor unit (W x H x D)	Net/gross	mm	570x550x260 / 620x600x310	570x550x260 / 620x600x310	570x550x260 / 620x600x310	5 x 2,5	5 x 4
Dimensions of the outdoor unit (W x H x D)	Net/gross	mm	1010x370x700 / 1060x420x750	1165x370x845 / 1200x420x900	1165x370x845 / 1200x420x900	1085x390x1450 / 1185x400x1550	1086x390x1450 / 1185x400x1550
Indoor unit weight		kg	25 / 31	25 / 31	25 / 31	25 / 31	25 / 31
Outdoor unit weight		kg	65 / 76	78 / 90	85 / 94	130 / 140	140 / 150
Compressor	Type		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	6	6
Compressor manufacturer			Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
Refrigerant	Type / amount of gas	kg	R32 / 0.9	R32 / 1.4	R32 / 1.8	R32 / 2,55	R32 / 2,6
	Cooling	°C	0 - 50	0 - 50	0 - 50	0 ~50	0 ~50
Recommended operating range	Heating	°C	-25 - 45	-25 - 45	-25 - 45	-25 - 45	-25 - 45
	DHW	°C	-25 - 55	-25 - 55	-25 - 55	-25 - 55	-25 - 55
Water side heat exchanger	Type		Plate heat exchanger				
Water-side connection	Type	Inch	1	1	1	G1 - 1/4	G1 - 1/4
Water Pump	Max lifting height	m	7.5	7.5	7.5	7,5	7,5
	Cooling	°C	7 - 25	7 - 25	7 - 25	7 - 25	7 - 25
Outlet water temperature range	Heating	°C	20 - 55	20 - 55	20 - 55	20 - 55	20 - 55
	DHW (tank)	°C	25 - 55	25 - 55	25 - 55	25 - 55	25 - 55

* When installed and started by the Authorised Service.

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