

HEAT PUMPS

THERMAL Plus CO + CWU

Monoblock with a hydraulic module and integrated DHW storage tank

THERMAL Plus 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. Heiko's heat pumps are advanced devices, which guarantee efficient and safe operation.



Hydraulic module – MONOBLOCK ALL IN ONE

The compact design of the hydraulic module with the integrated 250-litre DHW storage tank is ready to use out of the box. No additional system components need to be purchased, and no extra installation space is required for the DHW tank. The module enables easy and safe hydraulic connections.

**HYDRAULIC
MODULE**
MONOBLOK
ALL IN ONE



Two heating circuits

A THERMAL Plus 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. The two heating circuits ensure separate management of the temperature in different heat loads; 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.

**OPERATING
RANGE**
COOLING
0-50°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.

**OPERATING
RANGE**
HEATING
-25 - 45°C



Quiet operation

The Heiko THERMAL Plus 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 Plus 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.





Indoor unit



Outdoor unit



Model			HEIKO THERMAL PLUS 6	HEIKO THERMAL PLUS 9	HEIKO THERMAL PLUS 12	HEIKO THERMAL Plus 15	HEIKO THERMAL Plus 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	3225	4829	6953
	LWT =55°C		2809	3728	3997	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
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	22,5
	EER	-	4,05	4,23	3,9	4	7,35
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		B	25 (3F)	25 (3F)	25 (3F)	25 (3F)	25 (3F)
Power supply (number of conductors x cross section)		mm ²	5 x 2,5	5 x 2,5	5 x 4	5 x 4	5 x 4
Current protection control		B	from indoor unit			25 (3F)	25 (3F)
Power supply (number of conductors x cross section)		mm ²	3 x 2,5	3 x 2,5	3 x 2,5	5 x 4	5 x 4
Dimensions of the indoor unit (W x H x D)	Net/gross	mm	600x680x1780/ 650x750x1960	600x680x1780/ 650x750x1960	600x680x1780/ 650x750x1960	600x680x1780/ 650x750x1960	600x680x1780/ 650x750x1960
		mm	1010x370x700/ 1040x455x730	1165x370x845/ 1210x455x875	1165x370x845/ 1210x455x875	1085x390x1400/ 1100x400x1450	1085x390x1400/ 1100x400x1450
Indoor unit weight		kg	125 / 135	125 / 135	125 / 135	125 / 135	125 / 135
Outdoor unit weight		kg	67 / 78	80 / 95	85 / 105	125 / 135	125 / 135
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
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	cal	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