KRONOTERM

Smart heating solutions



Smart heating solutions



Heat pump for industrial use AIR / WATER

WPL-45-K1 HTT WPL-70-K1 HTT WPL-90-K1 HTT

COP
4.62*

*A7/W35; WPL-45-K1 HT















WPL-45-K1 HT



WPL-70-K1 HTT / WPL-90-K1 HTT



Main characteristics

- robust and compact device,
- high efficiency heating capacity,
- suitable for larger objects, such as eg. large residential buildings, commercial and industrial buildings, educational institutions, etc.,
- **low noise** extremely quiet operation care anti-vibration mount compressor, a double sound insulation equipment and bionics shaped fan blades,
- reversible version (heating and cooling),
- outlet water temperature to 65 ° C.
- the operation of the outside temperature till -23 ° C,
- soft-start option,
- option to connect to the BMS (Building Management System),
- stage capacty controll (at WPL-70-K1-HTT and WPL-90-K1-HTT; 2 x compressor),
- the possibility of remote monitoring and management services through Home. KRONOTERM,
- spiral (scroll) compressor COPELAND EVI technology,
- EC (electronically commutated) fan,
- electronic expansion valve,
- increased protection against external weather conditions,
- controlling the main circulation pump,
- **AUTO-OPTI ADAPT** algorithm (extremely efficient operation of the heat pump; allows weather-dependent adjustment of the temperature of the exit water needs of the facility),
- AUTO-OPTI DEFROST system (system evaporator defrosting, sinks and drain condensate ensuring the effective functioning of the system in all weather conditions even at low external temperatures and higher humidity),
- compact design for outdoor installation (control unit is installed in the facility).



Possibility of connecting several heat pumps in a cascade (up to 8).





Home. KRONOTERM

weather

Functions



Access to data and managing the heat pump in real time from anywhere and anytime



Managing the electricity use and heating cost

History of heat pump operation

home.cloud

Features

Controlling the heat pump from anywhere and at any time



Schedules and weekly planner



Timeline of system operation



Overview of electricity use and heating costs



Remote diagnostic services



Prostorski korektor KT-2 KRONOTERM toplotna črpalka

Prostorski korektor KT-1

With KT-1 and KT-2, we set the desired room temperature and they use the two-way ModBus communication to report the measured and desired temperature to the Kronoterm heat pump. Based on the gathered information of the corrector and measured outside temperature, the regulation of the heat pump uses special algorithms to determine the optimal needed temperature of heating water of the heating system at any moment. This connection of all elements of the heating system significantly raises the efficiency of the whole system and with it also savings. The market is full of systems which, despite good equipment, function wastefully and badly because they do not adapt to the actual needs and every element of the system





functions on its own, with wrong settings.

The Termotronic 3000 WEB regulation with room temperature corrector KT-1 or KT-2 and Home.KRONOTERM technology ensures easy, modern and very economical operation of the whole system. KT-2 offers more functions (setting the room temperature, setting DHW temperature, weather forecast). KT-1 and KT-2 operate only with the KRONOTERM heating heat pump and Termotronic WEB regulation.

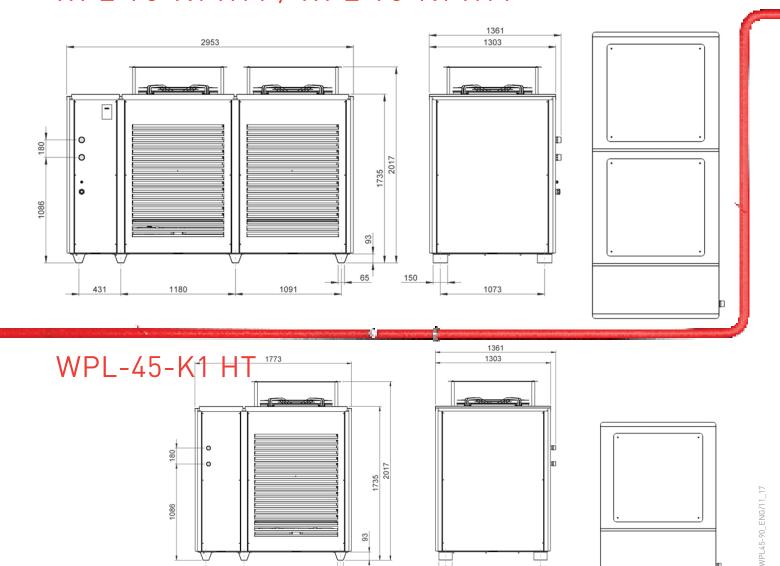
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Technical data

echnical data			
Model	WPL-45-K1 HT	WPL-70-K1 HTT	WPL-90-K1 HTT
		rsion	
Heat source	Outside air	Outside air	Outside air
HP positioning	Outdoor	Outdoor	Outdoor
Defrost	Passiv and active	Passiv and active	Passiv and active
Electric heater	/	/	/
	Operatin	g envelope	
Heating	·		
Water	20 °C - 63 °C	25 °C - 63 °C	25 °C - 63 °C
Air	-23 °C - 40 °C	-23 °C - 40 °C	-23 °C - 40 °C
Cooling			
Water	7 °C - 25 °C	7 °C - 25 °C	7 °C - 25 °C
Air	10 °C - 40 °C	10 °C - 40 °C	10 °C - 40 °C
,		d flow	10 0 40 0
Air	10.400 m ³ /h	20.200 m ³ /h	20.800 m ³ /h
Water	7,4 m ³ /h	12,1 m ³ /h	14,9 m ³ /h
water		ure drop	14,7 111 711
At rated flow 4,9 m³/h	14 kPa	17 kPa	25 kPa
At rated flow 4,9 m ² /n			25 KPa
Datum / D. II		nnections	CO!! (DMEO)
Return / Delivery	G 1/2" (DN40), external unit	G2" (DN50), external unit	G2" (DN50), external uni
		oise	
Sound pressure level (5m)	53 dBA	54 dBA	55 dBA
	Dimension	n and weight	
Dimensions (W x H x D)	1773 x 1735 (2017) x 1361	2953 x 1735 (2017) x 1361	2953 x 1735 (2017) x 1361
Weight	802 kg	1315 kg	1361 kg
·	Cooling s	ystem data	
Refrigerant	R407C	R407C	R407C
Refrigerant - amount	32,7 kg	58 kg	57,5 kg
rton igorant ambant		ical data	,
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 V
Fuse	3 x 32 A	3 x 50 A	3 x 63 A
Miscellaneous - Outdoor unit	IPX4	IPX4	IPX4
Max. electrical power	17,1 kW	27,4 kW	34,0 kW
A.E. / 14/0.E	PERFURMAI	NCE - Heating	I
A7 / W35		500111	
Heating capacity	44,8 kW	70,3 kW	86,8 kW
Electrical power	9,7 kW <u> </u>	15,6 kW	19,7 kW
		The Contraction of the Contracti	in programme to the control of the c
COP	4,62	4,51	4,40
A2 / W35			
Heating capacity	38,3 kW	60,5 kW	74,1 kW
Electrical power	9,3 kW	15,0 kW	18,8 kW
COP	4,13	4,02	3,94 kW
A2 / W55	·		i i
Heating capacity	33,1 kW	53,6 kW	65,6 kW
Electrical power	12,3 kW	20,1 kW	25,0 kW
COP	2,69	2,67	2,62
A-10 / W35	2,07	2,07	2,02
	28,2 kW	46,1 kW	55,7 kW
Heating capacity			
Electrical power	8,5 kW	13,9 kW	17,3 kW
COP	3,32	3,31	3,22
10= /14/20 =	PERFORMA	NCE – Cooling	1
A35 / W12-7			
Heating capacity	33,6 kW	52,8 kW	66,0 kW
Electrical power	11,5 kW	18,9 kW	23,8 kW
COP	2,92	2,79	2,77
		unication	
Controler	TERMOTRONIC 3000 WEB		
Controler			
		Indoor	
Control unit positioning		Indoor UTP cable	
Control unit positioning Connection between ext. and		UTP cable	

Dimensions

WPL-70-K1 HTT / WPL-90-K1 HTT



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