



COOLING

HEAT PUMPS

PK INVERTER



PK INVERTER series high efficiency air/water reverse-cycle heat pumps, fitted with DC inverter compressors combined with modulating circulating pump and fan.

Managed by a microprocessor controller with superheat control logic, using an electronic thermostatic valve that, based on signals sent by the pressure transducers, manages compressor and fan speed modulation via a PWM signal. Noise levels are reduced by continuous control of fan rotation speed.

ADVANTAGES

- > High Efficiency
- > 55 °C for DHW
- > Inverter Compressor and Fan
- > High COP and EER
- > Extremely Low Noise
- > Ecological Gas R410a
- > Range from 6 to 15 Kw
- > Heating, Cooling and DHW



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The units are fitted with single-phase DC inverter rotary hermetic compressors and variable speed axial-flow airfoil fans. The condenser is a finned coil made from copper tubes and aluminium fins, while the evaporator is braze-welded AISI 316 stainless steel plate.

Description	PK INVERTER			
	06	09	12	15
Height (mm)	719	861	1402	1402
Width (mm)	1134	1229	1258	1258
Depth (mm)	373	368	448	448
Power supply	230 V/1/50 Hz	230 V/1/50 Hz	230 V/1/50 Hz	400 V/3 P+N+T/50 Hz
Noise - Sound pressure*****	44-50 dB(A)	45-53 dB(A)	46-54 dB(A)	46-54 dB(A)
Water connections	1" M	1" M	1" M	1" M
Minimum water volume in the circuit	18 l	25 l	35 l	45 l
Empty weight (kg)	69	87	140	145
Operating weight (kg)	73	92	147	152



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Description		PK INVERTER			
		06	09	12	15
Maximum power consumption	KW	2.81	4.61	5.78	7.93
Maximum starting current	A	7.9	13.0	16.4	7.5
Maximum current draw	A	12.3	20.2	25.4	11.5
Cooling capacity in cooling mode* (EN 14511)	kW	4.44	7.18	9.53	11.13
Power consumption in cooling mode* (EN 14511)	kW	1.53	2.47	3.27	3.95
EER in cooling mode* (EN 14511)	W/W	2.90	2.91	2.91	2.82
Cooling capacity in cooling mode** (EN 14511)	kW	5.67	8.93	11.90	14.05
Power consumption in cooling mode** (EN 14511)	kW	1.49	2.41	3.12	3.85
EER in cooling mode** (EN 14511)	W/W	3.81	3.71	3.81	3.65
Heating capacity in heating mode*** (EN 14511)	kW	5.35	8.50	11.56	13.54
Power consumption in heating mode*** (EN 14511)	kW	1.64	2.57	3.43	4.12
COP in heating mode*** (EN 14511)	W/W	3.26	3.31	3.37	3.29
Heating capacity in heating mode**** (EN 14511)	kW	5.99	9.49	12.25	15.06
Power consumption in heating mode**** (EN 14511)	kW	1.46	2.31	2.97	3.67
COP in heating mode**** (EN 14511)	W/W	4.10	4.11	4.13	4.10
Compressor	No.	1 x Rotary DC Inverter	1 x Rotary DC Inverter	1 x Twin Rotary DC Inverter	1 x Scroll DC Inverter
Power consumption in cooling mode*	kW	1.25	2.16	2.73	3.42
Power consumption in cooling mode**	kW	1.21	2.10	2.59	3.32
Power consumption in heating mode***	kW	1.36	2.26	2.90	3.59
Power consumption in heating mode****	kW	1.18	2.00	2.44	3.14
Fan	No.	1 x DC Brushless	1 x DC Brushless	2 x DC Brushless	2 x DC Brushless
Rated power consumption	kW	0.156	0.188	2 x 0.180	2 x 0.180
Rated current draw	A	0.48	0.57	2 x 0.55	2 x 0.55
Speed	r/min	900	900	1000	1000
Maximum air flow-rate	m ³ /s	1.08	1.63	2.11	2.59
Type of refrigerant		R410a	R410a	R410a	R410a
Quantity	kg	1.55	2.10	3.65	3.90
Water Flow Rate	l/s	0.29	0.45	0.59	0.72
Available pressure head****	kPa	43	29	51	48
Circulating pump rated power / Maximum current draw	W / A	94 / 0.55	102 / 0.55	125 / 0.75	136 / 0.75
Expansion vessel	l	2	2	2	2

* Cooling: outside air temperature 35°C, water inlet/outlet temperature 12/7°C

** Cooling: outside air temperature 35°C, water inlet/outlet temperature 23/18°C

*** Heating: outside air temperature 7°C DB - 6°C WB, water inlet/outlet temperature 40/45°C

**** Heating: outside air temperature 7°C DB - 6°C WB, water inlet/outlet temperature 30/35°C



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