parkair
invisible comfort

TECHNICAL DATA SHEET

WHP3

WATER/WATER 3-IN-1 HEAT PUMP
DC+H2O INVERTER SYSTEM IN R32

WATER / WATER SYSTEM



THE ART OF INVISIBLE COMFORT

Technical data sheet – WHP3 – Rev. 01 – [03-06-2026]

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DESCRIPTION

WATER/WATER 3-IN-1 HEAT PUMP WHP3

A single system for maximum comfort in all seasons, with no outdoor unit. With WHP3 heat pump systems you can meet all your home's comfort needs: heating in winter, cooling in summer, and domestic hot water all year round.

WHP3 is our innovative range of latest-generation water/water heat pumps, incorporating advanced FULL INVERTER and H2O INVERTER technologies. It also offers an optimal solution for geothermal applications. With capacities ranging from 8 to 18 kW, this heat pump is designed to deliver a highly efficient 3-in-1 solution, providing cooling, heating and domestic hot water production.

Equipped with a remote-controllable touch screen panel, the heat pump allows simple and precise control, making unit management extremely easy. The integrated Wi-Fi connection provides advanced remote control, allowing owners to monitor and manage the system from anywhere via app. The system features the following functions: heating, cooling, domestic hot water production, Auto Restart, Remote Control, Wired Control, Turbo, Low Noise, Auto Diagnostic. The 3-in-1 heat pump is to be installed indoors, in a technical room.

FULL INVERTER SYSTEM (DC INVERTER + H2O INVERTER): All models are equipped with a Panasonic DC Inverter compressor and an electronic valve for water consumption limitation and automatic control of all functions.

The unit consists of:

- high-efficiency Panasonic DC Inverter compressor with R32 refrigerant gas.
- electronic modulating valve for water consumption limitation and automatic control of all functions (H2O Inverter system).
- Inverter circulating pump (Grundfos - Inverter Water Pump).
- integrated 3-way valve.
- integrated Wi-Fi module for remote control via app.
- remote-controllable touch screen panel.

The unit is compatible with the following types of fan coil units:

- 2-pipe ducted for ceiling or false ceiling (FCD-EC series)
- 2-pipe wall-mounted (FCW-EC series)
- 2-way 2-pipe cassette, ceiling-recessed (FCK-EC series)
- 2-pipe wall-recessed (FCI-EC series)
- 2-pipe floor-standing (FCF-EC series)

Also combinable with Radiant Panels, Radiators or Aluminium Radiators.

Features

Heating, Cooling and DHW Production

Main features

- Indoor installation in technical room, no outdoor unit
- Full Inverter System (DC Inverter + H2O Inverter)
- Panasonic DC Inverter Compressor
- Integrated Inverter circulating pump
- Integrated 3-way valve
- R32 Refrigerant Gas
- Energy efficiency class A+++/A+++
- 3-in-1 solution: heating, cooling, DHW production
- Ideal for geothermal and groundwater applications
- Remote-controllable touch screen panel
- Integrated Wi-Fi connection
- Auto Restart, Remote Control, Wired Control, Turbo, Low Noise, Auto Diagnostic
- Valvola modulante elettronica per controllo continuo consumi d'acqua

ENERGY LABELS

Energy consumption representation for each machine model.

WHP3	
PRK-WHP3-08	A+++ / A+++
PRK-WHP3-12	A+++ / A+++
PRK-WHP3-18T	A+++ / A+++

TECHNICAL DATA

Description	Unit	PRK-WHP3-08	PRK-WHP3-12	PRK-WHP3-18T
GENERAL DATA				
Model	-	PRK-WHP3-08	PRK-WHP3-12	PRK-WHP3-18T
Code	-	113200	113205	113210
Power Supply	V/Hz/ph	220~240 / 50 / 1	220~240 / 50 / 1	380~415 / 50 / 3
Nominal Heating Capacity	kW	8	12	18
Energy Class (Outlet water 35°C)	-	A+++	A+++	A+++
HEATING AT B0/W35				
Heating Capacity	kW	8.00	12.00	18.00
Power Input	kW	1.80	2.78	4.18
Current	A	8.07	12.46	7.80
COP	W/W	4.44	4.32	4.31
HEATING AT B0/W55				
Heating Capacity	kW	7.00	10.00	16.00
Power Input	kW	2.35	3.45	5.38
Current	A	10.53	15.46	10.08
COP	W/W	2.98	2.90	2.97
HEATING AT W5/W35				
Heating Capacity	kW	8.00	12.00	18.00
Power Input	kW	1.68	2.58	3.90
Current	A	7.53	11.56	7.31
COP	W/W	4.76	4.65	4.62
HEATING AT W5/W55				
Heating Capacity	kW	7.00	10.00	16.00
Power Input	kW	2.21	3.21	5.13
Current	A	9.90	14.39	9.62
COP	W/W	3.17	3.12	3.12
COOLING AT B30/W18				
Cooling Capacity	kW	7.20	11.00	16.50
Power Input	kW	1.48	2.29	3.52
Current	A	6.63	10.26	6.61
EER	W/W	4.86	4.80	4.69
MAX ELECTRICAL DATA				
Max Power Input	kW	3.55	4.20	6.20
Max Current	A	16.00	18.82	11.62
OPERATING TEMPERATURES				
Exchanger outlet water temperature in heating (delta T=5°C)	°C	35	35	35

Description	Unit	PRK-WHP3-08	PRK-WHP3-12	PRK-WHP3-18T
Exchanger outlet water temperature in cooling (delta T=5°C)	°C	7	7	7
Min. inlet water temperature in heating (source)	°C	7	7	7
Max. inlet water temperature in heating (source)	°C	30	30	30
Min. inlet water temperature in cooling (source)	°C	7	7	7
Max. inlet water temperature in cooling (source)	°C	35	35	35
Max. outlet water temperature in heating (load)	°C	62	62	62
WATER FLOWS				
Water flow in cooling 15°C/40°C (in/out)	l/h	300	450	720
Water flow in heating 15°C/4°C (in/out)	l/h	490	750	1100
REFRIGERANT CIRCUIT				
Compressor	-	Inverter	Inverter	Inverter
Refrigerant	-	R32	R32	R32
Refrigerant Charge	kg	1.00	1.30	1.50
HYDRAULIC CIRCUIT				
Circulating Pump	-	Inverter	Inverter	Inverter
Water Pipe Connector	inch	1"	1"	1 1/4"
ACOUSTICS				
Sound Pressure Level	dB(A)	39	40	41
Sound Power Level	dB(A)	49	50	51
DIMENSIONS AND WEIGHT				
Unit Dimension (LxDxH)	mm	600x500x806	600x500x806	600x500x806
Net Weight	kg	70	73.5	87

*Performance figures given in the technical data refer to the following conditions: Heating 1: inlet water (glycol) 0°C / outlet water 35°C. Heating 2: inlet water (glycol) 0°C / outlet water 55°C. Heating 3: inlet water 5°C / outlet water 35°C. Heating 4: inlet water 5°C / outlet water 55°C. Cooling 5: inlet water B30°C / outlet water 18°C.