parkair
invisible comfort

TECHNICAL DATA SHEET

MCWD

MONOBLOC DUCTED HEAT PUMP

WATER / AIR SYSTEM

THE ART OF INVISIBLE COMFORT

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

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DESCRIPTION

MONOBLOC DUCTED HEAT PUMP MCWD

The MCWD is an innovative air conditioning solution, designed to offer maximum installation flexibility even in settings with architectural or landscape constraints. The monobloc system requires no holes in the facade nor dedicated external spaces, reducing visual impact and preserving the aesthetics of buildings.

The high static pressure fan allows the use of long ducts and linear vents even in the presence of high pressure drops, ensuring constant performance in environments of different sizes, from small spaces to large shopping centres.

Compact and available with single-phase power supply (32k BTU size) and three-phase (48k and 60k BTU sizes), the MCWD integrates heating, cooling, dehumidification and ventilation functions. It can be installed in a false ceiling or technical room, ensuring high comfort and uniform air distribution, with outputs ranging from 10 to 18 kW. Also ideal for Water Loop applications (also known as WLHP).

FULL INVERTER SYSTEM (DC INVERTER + H2O INVERTER) The MCWD utilises the FULL INVERTER system to ensure maximum comfort in all seasons, with the lowest energy consumption in the industry and incredible quietness. All units in the range are equipped with a Panasonic DC Inverter compressor, an electronic modulating valve to limit water consumption and automatic control of all functions (heating, cooling, dehumidification and ventilation).

The unit consists of:

- high-efficiency Panasonic DC Inverter compressor with R32 refrigerant gas.
- high-efficiency water/gas heat exchanger.
- high static pressure centrifugal fan with continuously modulating DC Inverter motor.
- electronic modulating valve for continuous water flow rate control (H2O Inverter system).
- integrated Wi-Fi module for remote control via app.

Features

Cooling, Heating, Ventilation and Dehumidification

Main features

- Installation without holes in the facade or dedicated external spaces
- Full Inverter System DC Inverter + H2O Inverter
- Panasonic DC Inverter Compressor
- High static pressure fan
- R32 Refrigerant Gas
- Energy efficiency class A++/A+
- Single-phase and three-phase models
- Operating modes: cooling, heating, dehumidification, ventilation
- Compliant with urban and condominium regulations
- Wi-Fi connection
- Window contact (I/O)
- Remote control capability
- Electronic modulating valve for continuous control of water consumption

Main accessories:

- Remote control Freematch I feel V.25 RC-S5

ENERGY LABELS

Energy consumption representation for each machine model.

MCWD	
PRK-MCWD-32	A++ / A+
PRK-MCWD-48	A++ / A+
PRK-MCWD-60	A++ / A+

TECHNICAL DATA

Description	Unit	PRK-MCWD-32	PRK-MCWD-48	PRK-MCWD-60
CAPACITIES AND PERFORMANCE				
Model	-	PRK-MCWD-32	PRK-MCWD-48	PRK-MCWD-60
Code	-	241116	241121	241126
Cooling Capacity	kW	9.5	13.0	15.0
Heating Capacity	kW	10.0	15.0	18.0
EER	W/W	3.58	3.56	3.53
COP	W/W	3.70	3.72	3.71
Energy Class	-	A++ / A+	A++ / A+	A++ / A+
Summer Water Flow In/Out 29/34°C (Min-Max)	m^3/h	1.0 - 2.3	1.3 - 3.2	1.6 - 3.5
Winter Water Flow In/Out 7/12°C (Min-Max)	m^3/h	0.7 - 1.5	1.0 - 2.2	1.2 - 2.5
Max. Water Temperature in Cooling	°C	≤ 35	≤ 35	≤ 35
Min. Water Temperature in Heating	°C	≥ 10	≥ 10	≥ 10
Water Pressure (Min / Max)	bar	1.0 - 3.0	1.8 - 4.0	2.0 - 4.5
Hydraulic Connections	inch	1"	1"	1"
Power Supply	V/Hz/ph	220~240 / 50 / 1	380~415 / 50 / 3	380~415 / 50 / 3
Cooling Power Input	kW	2.65	3.65	4.25
Heating Power Input	kW	2.70	4.00	4.85
REFRIGERANT CIRCUIT				
Refrigerant	-	R32	R32	R32
Refrigerant Charge	kg	1.5	1.7	2.5
VENTILATION				
Fan Type	-	Centrifugal	Centrifugal	Centrifugal
Air Flow Volume	m^3/h	1600	2800	3800
Available Static Pressure	Pa	120	150	180
ACOUSTICS				
Sound Pressure Level	dB(A)	47	54	59
Sound Power Level	dB(A)	57	64	69
DIMENSIONS AND WEIGHT				
Unit Dimension (LxDxH)	mm	1430x460x540	1500x500x600	1600x500x600
Net Weight	kg	80	115	120

*Performance figures given in the technical data refer to the following conditions: Indoor unit test conditions: Cooling: indoor 27°C B.S. Heating: indoor 20°C B.S. COP: 100% capacity at 15°C inlet / 30°C outlet; EER: 100% capacity at 10°C inlet / 7°C outlet. Water flow rate with mains water at the following temperatures: Summer 15°C inlet / 40°C outlet; Winter 15°C inlet / 4°C outlet. The sound pressure level is measured at a distance of 1 metre from the external surface of the unit operating in an open area. Please note: if the inlet water temperature is below 10°C, thermal performance may vary.