parkair
invisible comfort

TECHNICAL DATA SHEET

MCA 2.0 - MONOSPLIT

INVISIBLE DIRECT EXPANSION HEAT PUMP

AIR / AIR SYSTEM

THE ART OF INVISIBLE COMFORT

Technical Data Sheet – MCA 2.0 Monosplit – Rev. 01 – [02-11-2026]

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DESCRIPTION

INVISIBLE HEAT PUMP MCA 2.0 MONOSPLIT

Invisible air/air monosplit heat pump, direct expansion system. The condensing unit can be installed internally (in closets, utility rooms, attics or cellars) or externally, either exposed or recessed, thanks to the galvanised steel structure with transparent epoxy coating that ensures strength and durability over time, even in difficult weather conditions.
The MCA 2.0 Monosplit range is the “invisible” heat pump designed to offer maximum comfort without aesthetic impact. A concealed solution that pairs with an indoor ventilation unit of choice from wall-mounted, 4-way cassette, ducted and console types, adapting with extreme versatility to every design requirement.
With the option of installing the condensing unit internally, MCA 2.0 guarantees complete installation freedom, making it the ideal choice even in the most complex contexts, such as historic city centres or buildings subject to architectural restrictions. Designed to ensure high performance in every season, it is perfect for cooling, heating and dehumidifying homes, offices and commercial spaces.
The technological core consists of dual-intake centrifugal fans with directly coupled motor, offering the possibility of ducted installations up to 5 metres away, and high-efficiency DC Inverter compressors guaranteeing reduced consumption, silent operation and maximum comfort. The refrigerant gas used is R32. The available operating modes are cooling, heating, dehumidification and ventilation.

The unit consists of:

- load-bearing structure in high-thickness galvanised steel, protected by transparent epoxy coating, with internal thermo-acoustic insulation.
- high-efficiency air/gas heat exchanger.
- high-efficiency internal heat exchange coil.
- high-efficiency DC Inverter compressor with R32 refrigerant gas.
- dual-intake centrifugal fans with directly coupled DC Inverter motor, continuously modulating.
- electronic expansion valve for precise regulation of the refrigeration cycle.
- condensate collection tray with integrated drain.

The unit can be combined with one indoor ventilation unit of choice from the following types:

- wall-mounted Inverter R32 (WI-S series)
- low-pressure ducted Inverter R32 for horizontal false ceiling (DI-E series)
- medium-pressure ducted Inverter R32 for horizontal and vertical false ceiling (VDI-E series)
- 4-way cassette Inverter R32 for ceiling and false ceiling (KI-E series)
- floor-mounted Inverter R32 (FI-E series)

Features

Cooling, Heating, Ventilation and Dehumidification

Main features

- Internal installation in technical room or external exposed or recessed
- DC Inverter System
- High-efficiency DC Inverter Compressor
- High static pressure dual-intake centrifugal fans
- Option for ducted installations up to 5 metres away
- Galvanised steel structure with transparent epoxy coating
- R32 Refrigerant Gas
- Energy efficiency class A/A
- Single-phase power supply
- Operating modes: cooling, heating, dehumidification, ventilation
- Compliant with urban and condominium regulations

ENERGY LABELS

Energy consumption representation for each machine model.

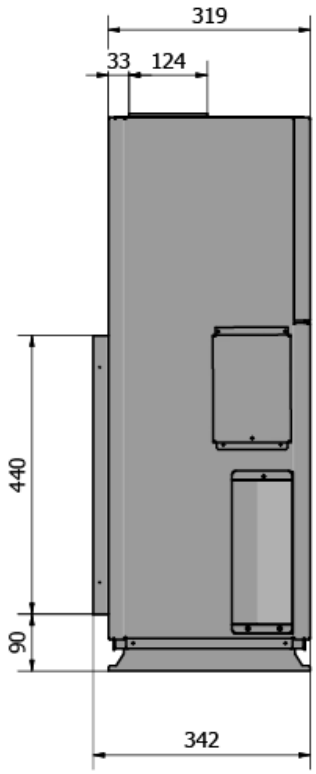
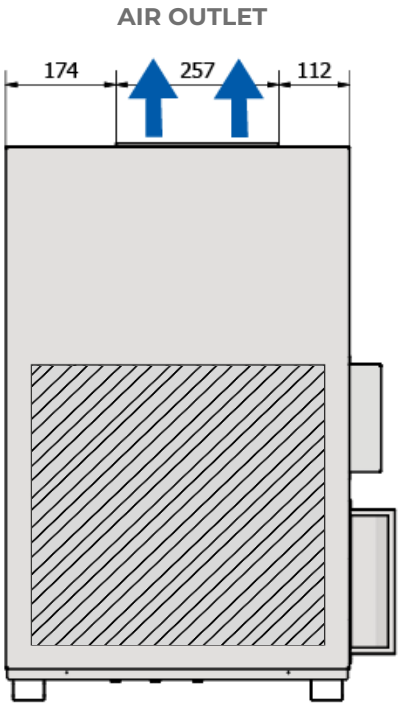
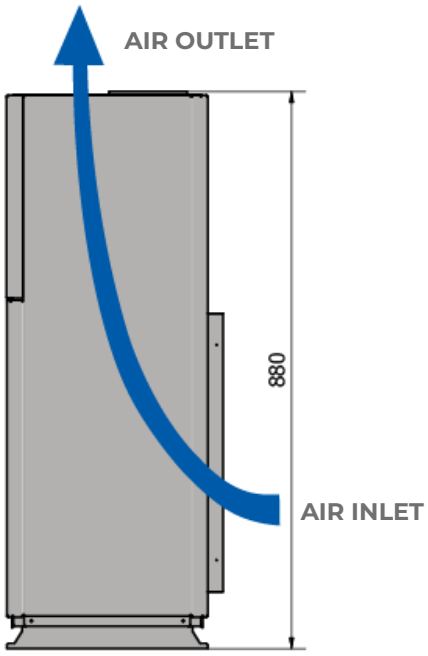
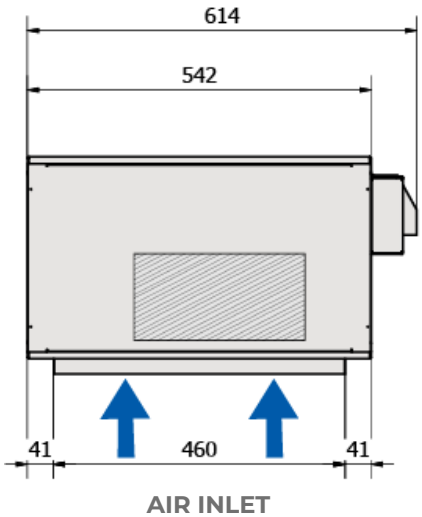
MCA 2.0 - MONOSPLIT	
PRK-1MCA-12	A / A
PRK-1MCA-18	A / A
PRK-1MCA-24	A / A

TECHNICAL DATA

Description	Unit	PRK-1MCA-12	PRK-1MCA-18	PRK-1MCA-24
Model	-	PRK-1MCA-12	PRK-1MCA-18	PRK-1MCA-24
Code	-	113100	113105	113110
CAPACITIES AND PERFORMANCE				
Cooling Capacity	kW	3,5 (0,8~4,0)	5,2 (1,0~6,0)	7,0 (1,2~7,8)
Heating Capacity	kW	3,7 (0,9~4,2)	5,4 (1,1~6,2)	7,3 (1,3~7,9)
EER	W/W	2,70	2,68	2,65
COP	W/W	3,21	3,19	3,18
Energy Class	-	A / A	A / A	A / A
Air Flow Volume	m^3/h	1100	2000	2000
Power Supply	V/Hz/ph	220~240 / 50 / 1	220~240 / 50 / 1	220~240 / 50 / 1
Cross-sectional Area of Power Cable Conductors	mm^2	1,5	1,5	2,5
Recommended Power Cable (Number of Conductors)	-	3	3	3
Fuse Current	A	25	25	25
Cooling Power Input	kW	1,30	1,94	2,64
Heating Power Input	kW	1,09	1,63	2,21
Rated Power Input	kW	1,75	2,86	3,61
Cooling Current Input	A	5,77	8,61	11,71
Heating Current Input	A	4,84	7,23	9,80
Rated Current	A	7,76	12,69	16,02
Moisture Protection	-	IP24	IP24	IP24
REFRIGERANT CIRCUIT				
Refrigerant	-	R32	R32	R32
Refrigerant Charge	kg	0,80	1,00	1,20
Not Additional Gas Connection Pipe Length	mt	5	5	5
Connection Pipe Gas Additional Charge	g/m	16	16	22
Outer Diameter of Liquid	mm	6,35	6,35	6,35
Outer Diameter of Gas	mm	9,52	12,70	15,87
Connection Pipe Max. Height Distance	mt	5	5	5
Maximum Line Distance between Fan Unit and MCA	mt	15	15	15
Connection Pipe Max. Length Distance (total)	mt	15	15	15
ACOUSTICS				
Sound Pressure Level	dB(A)	45	46	46
Sound Power Level	dB(A)	55	56	56
DIMENSIONS AND WEIGHT				
Unit Dimension (LxDxH)	mm	540x320x1080	720x380x1100	720x380x1100
Net Weight	kg	49	65	70

*Performance figures given in the technical data refer to the following conditions: Test conditions for indoor unit temperature: Cooling: indoor 27°C B.S. – outdoor 35°C B.S. / 24°C B.U. Heating: indoor 20°C B.S. – outdoor 7°C B.S. / 6°C B.U. The sound pressure level is measured at a distance of 1 metre from the external surface of the unit operating in an open area.

DIMENSIONS

PRK-1MCA-12

Dimensional drawings
(Dimensions in mm)