



OUTDOOR UNITS
Serie Mini V8M R32 400V

Super DC Inverter



V8 Protocol



REFRIGERANT GAS R32

MUNDOCLIMA VRF system with R32 refrigerant gas.

HIGH STATIC PRESSURE

The fan's available static pressure can be increased up to 35 Pa.

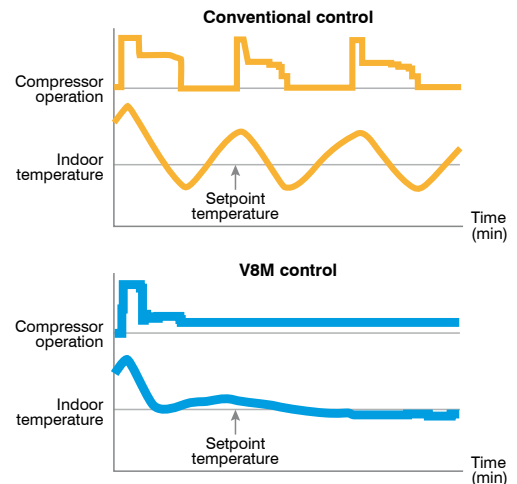
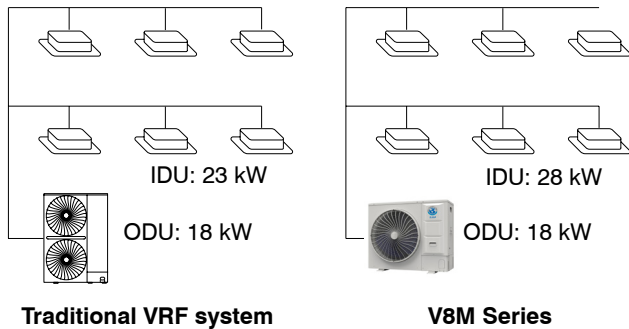


EVAPORATION/CONDENSATION FLOATING TEMPERATURE

The evaporation temperature (in cooling) and the condensation temperature (in heating) are automatically adjusted based on indoor and outdoor temperatures to balance comfort and energy efficiency.

VERSATILITY

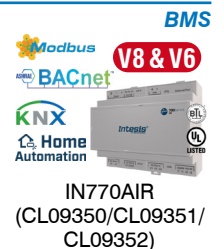
The V8M series allows connection of up to 160% of the capacity of the outdoor unit.



OPTIONALS

More information on optionals in the "MUNDOCLIMA CONTROL SYSTEMS" section.

CENTRALISED CONTROL



Software control



Accessories

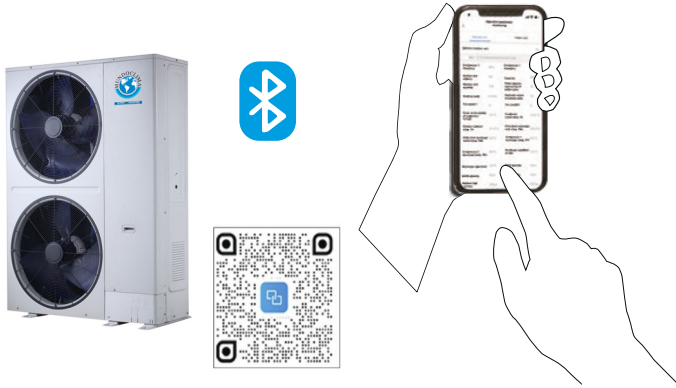


Serie MVD Mini V8M R32 400V

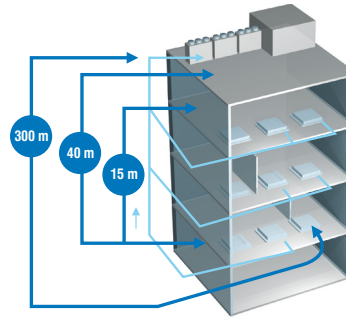
FEATURES BLUETOOTH MODULE

For easier commissioning and maintenance, the V8M series allows you to configure and consult the operating parameters via cell phone, using the app.

LET'S LINK.


TOTAL PIPE LENGTH

The Mini MVD V8M system supports a maximum pipe length of 300m, with a height difference between the outdoor and indoor units of up to 40m.



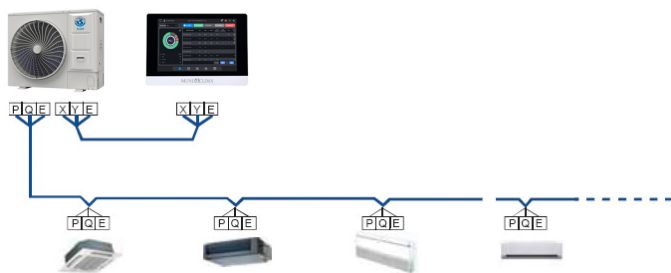
300 m: Equivalent maximum length between the furthest outdoor unit and the furthest indoor unit.

40m: Maximum height difference between the indoor and outdoor unit.

15m: Maximum height difference between indoor units.

SIMPLIFIED CONNECTION

The central controller is directly connected to the outdoor unit and the automatic direction is activated; This way, the controller can detect all indoor units connected to that outdoor unit. Afterward, the addresses can be modified manually with the individual controller of each equipment.


SPACE SAVING

The mini MVD units are more compact, which means that they will take very little space when installed. They are especially suited for small offices, hotels, shops, etc.


AUTOMATIC ADDRESSING

By default, the first time the power supply is activated for the entire system, the outdoor unit automatically assigns the address to each indoor unit. It is also possible to consult and change the address of each interior unit from your local controller.



			Max. value (m)
Pipe length	Total pipe length		300
	Maximum distance (L) (between outside and farthest inside)	Total length	100
		Equivalent length	120
	Equivalent pipe length between the furthest interior and the first distributor.		40
Height difference	Height difference between the outdoor unit and indoor units.	pc. Higher outdoor unit	50
		pc. Lower outdoor unit	40
	Height difference between indoor units		15

Serie MVD Mini V8M R32 400V
MUNDCLIMA®

Model		MVD-V8M180WDRN8	
Code		CL23645	
Power supply		Ph / V / Hz	3N~ / 400 / 50
Cooling ⁽¹⁾	Nominal capacity	kW	17.5
	Nominal consumption	kW	6.46
	EER		2.71
	Prated,c (design capacity)	kW	17.5
	SEER		7.10
	Energy Efficiency Class Labeling		-
	Annual electricity consumption	kWh/year	-
	ηs,c (seasonal energy efficiency)	%	281.0
Heating ⁽²⁾	Nominal capacity	kW	17.5
	Nominal consumption	kW	4.49
	COP		3.90
	Prated,h (design capacity)	kW	17.5
	SCOP		4.80
	Energy Efficiency Class Labeling		-
	Annual electricity consumption	kWh/year	-
	ηs,h (seasonal energy efficiency)	%	189.0
Tbiv (bivalent temperature)		°C	-7
Nominal / max. current		A	17 / 20
Connectivity	Connecting capacity (min. ~ max.)	%	50 ~ 160
	Max. number indoor units		12
Compressor	Brand		GMCC
	Type		DC Inverter - Rotating
	Quantity		1
	Model		MVB42FDDMC
Fan	Type		DC
	Quantity		1
	Flow rate	m ³ /h	5,500
Sound pressure ⁽³⁾		dB(A)	58
Sound power level (LWA) ⁽³⁾ (cooling/heating)		dB(A)	73 / 73
Dimensions (W x H x D)		mm	1038 x 864 x 409
Weight		kg	94.0
Refrigerant	Type / GWP		R32 / 675
	Quantity	kg	2.85
	CO ₂ equivalence	TCO ₂ eq	1.92
Pipe length	Max. vertical (upper outdoor unit / lower ind. unit)	m	50 / 40
	Total	m	300
Connection pipes ⁽⁴⁾	Liquid	inches	3/8"
	Gas	inches	3/4"
Electrical connections ⁽⁵⁾	Power wiring / ICP	mm ² / A	4 x 4 + T / 20
	Communication wiring	mm ²	3 x 0.75 (shielded)
Operating temperatures range	Cooling	°C	-15 ~ 52
	Heating	°C	-20 ~ 30

Note:

⁽¹⁾ Nominal cooling conditions: indoor 27 °C Dry Bulb DB, 19 °C Wet Bulb WB and outdoor 35 °C DB; Pipe length of 5 m with no height difference.

⁽²⁾ Nominal heating conditions: indoor 20°C DB, 15°C WB and outdoor 7°C DB, pipe length of 5 m with no height difference.

⁽³⁾ Noise level measured in anechoic chamber at 1 m frontal distance and "x" meters high (1 m for 80/105, 1.2 m for 120 / 140 / 160).

⁽⁴⁾ The specified diameters are for the service valves, this does not mean that the pipe must have the same diameter.






















⁽⁵⁾ Power wiring recommended for L < 20 m. For longer distances, it should be calculated.

* Data measured under EUROVENT EN 14825 conditions, at 100% simultaneity, with indoor cassette units. For further information, please refer to the document "INFORMATION REQUIREMENTS".

** Data and specifications can be changed without previous notice.

Features Description

IMPORTANT: This Features Description is generic, you will find the icons that apply to this data sheet in the header of the first page of the data sheet.

		<i>Comfort</i>
	WEEKLY TIMER Sets the weekly operation of the unit.	
	FOLLOW ME FUNCTION (IFEEL) The remote control features an ambient temperature sensor.	
	AUTOMATIC RESTART Recovery of the adjustments before the electrical cut.	
	EMERGENCY OPERATION Possibility of manually operating the unit with the button in case of any alarms sounding.	
	COLD AIR PRECAUTION When heating, the initial fan speed is adjusted according to the battery temperature.	
	TURBO OPERATION Maximum cooling/heating time reduction.	
	LOW SOUND LEVEL Thanks to the Silence mode and its new design, the sound level is reduced to a minimum.	
	TEMPERATURE COMPENSATION The remote control allows you to set the compensation temperature for heating and cooling modes.	
	FRESH AIR (ION) This equipment incorporates an ionizer to generate OH(-) and thus purify the air by deactivating bacteria, viruses and other pathogens, providing a very pleasant feeling of freshness.	
	BREEZE AWAY Function that allows diverting the air flow to another location to prevent the equipment from blowing directly on people.	
	MORE SILENT OUTDOOR UNIT Design optimized of the air exit grill with decrease of the noise up to 3.3 dB (A) in comparison with previous models.	
	WIDE OPERATING TEMPERATURE RANGE Cooling operation until 50 °C and in heating until -15 °C.	
	NIGHT MODE Makes the unit operate according to the preset nighttime temperature curve, which creates an ideal nighttime environment and improves sleep quality.	
	DAILY TIMER The timer can be set to start and stop at any point in a 24-hour period.	
	360° DESIGN Thanks to the 360° panel design, the air is more evenly distributed.	
	HORIZONTAL AND VERTICAL FLAP ROTATION Better air distribution thanks to the flap's horizontal and vertical automatic swing.	
	GEAR It allows the equipment capacity to be set to 50%, 75% or 100% (default).	
	COLD CATALYST FILTER Incorporates a catalytic filter capable of adsorbing and decomposing formaldehyde and other volatile organic compounds by catalysis at room temperature, without the need for ultraviolet (UV) light.	
	HEPA FILTER It incorporates a HEPA air filter that improves indoor air quality by capturing fine particles, dust and allergens for a cleaner, healthier environment.	
	SPRINT START Like a sprint runner, this function allows the compressor to reach 65 Hz in just 6 s.	
	HUMIDITY CONTROL In dehumidification mode, the relative humidity control can be set between 35% and 85%.	
	VENTILATION FUNCTION It allows operation only with ventilation.	
	THERMOSTAT It allows operation only with ventilation.	
	DEHUMIDIFICATION Humidity reduction helps restoring an optimum temperature in wet areas.	
	DIFFERENT SPEEDS OF THE INDOOR FAN Up to 12 levels of fan speed automatically adjusted if the automatic ventilation is activated.	
	SILENCE This function allows you to select the ultra-quiet speed, so that the sound level of the equipment is very low.	
	WI-FI Possibility for the unit to be controlled via WIFI, through an APP.	
	CENTRALISED CONTROL Possibility of controlling several units with the same control.	
	ENERGY LABELLING FOR COOLING A+++	
	ENERGY LABELLING FOR COOLING A++	
	ENERGY LABELLING FOR COOLING A+	
	ENERGY LABELLING FOR COOLING A	
	ENERGY LABELLING FOR HEATING A+++	
	ENERGY LABELLING FOR HEATING A++	
	ENERGY LABELLING FOR HEATING A+	
	ENERGY LABELLING FOR HEATING A	
	R410A Equipment using refrigerant R410A with a GWP of 2088.	
	R32 Equipment using the most eco-friendly refrigerant R32 with a GWP of 675. In order to install equipment with R32 refrigerant gas, you must check the applicable legislation.	
		R290 Equipment using the new natural refrigerant R290 which has a GWP of only 3. In order to install equipment with R290 refrigerant gas, you must check the applicable legislation.












Features Description

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Easy installation and maintenance

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| <p> REMOVABLE FILTERS
New filter fastening system with tabs to ensure correct fastening without vibrations.</p> <p> OUTSIDE AIR INLET
Possibility of supplying outside air directly on the indoor unit.</p> <p> DRAINAGE PUMP
Features a drainage pump to facilitate the drainage of the indoor unit.</p> <p> FILTER CLEANING REMINDER
The equipment tells you when to clean and/or replace the air filter of the indoor unit.</p> <p> PIPE COMPATIBILITY
Possibility of increasing one size over the standard diameter in gas, liquid or both pipes.</p> <p> DIGITAL LED DISPLAY
Digital display showing the set temperature during normal operation or the room temperature in ventilation mode.</p> <p> FEWER SCREWS
Not only the indoor unit, but also the outdoor unit uses less screws, so the disassembly is going to be easier.</p> <p> REFRIGERANT LEAK DETECTION
The unit automatically detects possible refrigerant leaks in the circuit.</p> <p> SELF-CLEANING
This function performs a self cleaning on the indoor unit. When the "SELF-CLEANING" function is activated (SelfClean or iClean buttons), the unit initially operates in cooling mode with the fan at low speed. During this period, the condensation water drags the dust from the coil. The unit then switches to heating mode with the fan at low speed, to dry the battery and the inside of the unit. Finally the unit switches to ventilation mode to finish drying completely.</p> <p> ULTRA-REINFORCED MOUNTING PLATE
Reinforced mounting plate with measuring range and spirit level included.</p> <p> POWER SUPPLY ONLY TO OUTDOOR UNIT
The indoor unit is powered by the same interconnection cable with the outdoor unit.</p> <p> SINGLE-FAN OUTDOOR UNITS
Optimize outdoor space thanks to outdoor units with lower height.</p> | <p> HIGH STATIC PRESSURE
Wide static pressure range.</p> <p> SET TEMPERATURES RANGE ADJUSTMENT
The remote control is able to adjust: Cooling minimum from 16°C to 24°C; Heating maximum from 30°C to 25°C.</p> <p> FEET IN U FORM
Thanks to the new rear legs on the outdoor unit, installation is more convenient.</p> <p> LOW-VOLTAGE START
The equipment can start up and operate normally up to a supply voltage lower than the nominal voltage.</p> <p> PROBLEM SOLVING
Error codes are displayed on the indoor panel, the wall control or on the outdoor PCB.</p> <p> REMOTE SIGNALS (CP)
The indoor unit has an ON/OFF input.</p> <p> CONFIGURABLE STATIC PRESSURE
From the PCB (or any model with the wireless or wired remote control) the static pressure of the fan can be adjusted, so that the machine can be adapted to each installation.</p> <p> CONFIGURABLE RETURN
The air intake can be set up either at the rear or at the bottom of the unit. By default, it is set up at the rear.</p> <p> TWIN FUNCTION (2x1)
Two indoor units can be connected to the same outdoor unit.
Both indoor units will function identically as if they were one single unit. It is perfect for open rooms.</p> <p> REVERSE ROTATION
When the equipment is stopped, the outdoor unit fan rotates backwards to remove leaves or other external elements from the battery.</p> <p> ROTATION & BACK UP
This function allows redundant operation in installations with 2 units connected to the same wired control. KJR-120N, in case one machine does not reach the setpoint temperature, the two machines will automatically operate together at 24 °C in the selected mode. At the same time, a rotation in the operation of the 2 machines is carried out so that both machines operate for the same amount of time.</p> | <p> AUTO ROUTING
The outdoor unit can assign an address to the indoor units automatically.</p> <p> ENGINEERING MODE
Setting of functions and querying of operating parameters by means of the control.</p> <p> EXTRA FLAT DUCT
Indoor unit height between 200 and 300 mm.</p> <p> DELIVERY OUTLET TO ADJACENT ROOM
The unit has pre-drilled outlets for connecting a small duct to air-condition an adjacent room.</p> <p> AIR DISCHARGE TUBE TO THE OUTSIDE
Easy and quick to install, it allows the use of the air conditioner immediately.</p> <p> CONDENSATE REMOVAL
Removes condensate water so it is not necessary to connect the air conditioner to a drain. In dehumidification mode and in very humid environments, it is recommended to connect the equipment to a drain.</p> <p> COMPACT PANEL SIZE
The trim panel of the cassette type unit measures 600 × 600 mm.</p> <p> GOLDEN FIN
Heat exchanger with special treatment, which protects the equipment against atmospheric phenomena and the effects of aggressive environments. It also prevents the proliferation of bacteria and mold.</p> <p> BLUE FIN
Heat exchanger with treatment that protects the equipment against corrosion and the growth of bacteria and mold.</p> <p> AUTOMATIC REFRIGERANT REFILL
Allows refrigerant gas to be charged to the system automatically without having to perform the additional charge calculation.</p> <p> HORIZONTAL / VERTICAL
The equipment can be installed both horizontally and vertically.</p> <p> FUNCTION GOAL
Advanced air conditioning technology that optimizes temperature, refrigerant and air flow to save energy and maximize the comfort.</p> <p> NITROGEN
The indoor unit is factory pressurized with nitrogen to ensure that there is no leakage prior to installation.</p> |
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Technology

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| <p> SUPER DC
Equipment that has both DC Inverter compressor and DC fan motors.</p> <p> COOLING IN LOW TEMPERATURES
Cooling operation up to -15°C outdoor.</p> <p> HEATING AT LOW TEMPERATURES
Heating operation down to -25°C outside.</p> <p> CONSTANT AIR FLOW CONTROL
The indoor fan adjusts to the required static pressure to ensure a constant air supply at all times.</p> | <p> DC
Unit with DC fan motor, low noise and low-energy consumption.</p> <p> EVI COMPRESSOR
High efficiency asymmetric scroll compressor with steam injection technology.</p> <p> INPUT 0 - 10 V
Unit with DC fan motor with 0-10 V regulation.</p> <p> SALIDA 0-10V
Equipment with 0-10 V output for the control of an auxiliary valve.</p> | <p> 7-SPEED FAN
Unit with DC fan motor with 7 speeds.</p> <p> EXTERNAL FAN WITH DIFFERENT SPEEDS
Accurate adjustment of fan speed thanks to DC fan.</p> <p> EXV
Equipment with electronic expansion valve, adjusts in a more stable way the capacity of the equipment.</p> |
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