

OUTDOOR UNITS

MVD V8M Series

Super DC Inverter (25 kW ~ 61,5 kW)



R410A



**MORE POWER IN A REDUCED SIZE...
25 kW ~ 61,5 kW**

OPTIONALS

More information on the optionals in "MUNDOCLIMA CONTROL SYSTEMS"

Centralized controller

Software control

Wattmeter



GW3-CLOUD
(CL09304)



TC3-10.1
(CL09305)



IMMPRO II
(CL09306)



DTS343-3
(CL09431)



BMS

XYE Extension Module



GW3-MOD
(CL09307)



GW3-BAC
(CL09308)



GW3-LON
(CL09309)



MA-EK
(CL09430)

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MORE COMPACT

25,2 ~ 40 kW



Mod. 252 / 280 / 335 / 400

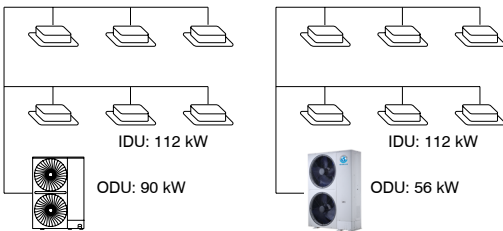
45 ~ 61,5 kW



Mod. 450 / 500 / 560 / 615

VERSATILITY

Under certain conditions, the new V8M series allows the connection of up to 200% of the outdoor unit capacity.

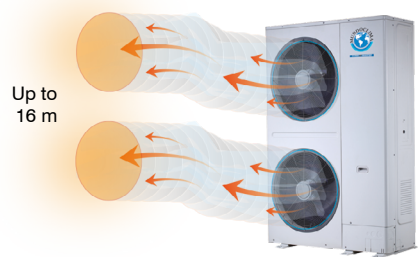


Traditional VRF system

New V8M series

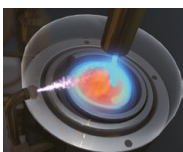
HIGH STATIC PRESSURE

The fan's available static pressure can be increased up to 80 Pa.

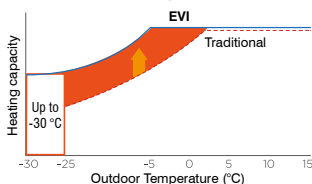


DC INVERTER EVI SCROLL COMPRESSOR (Enhanced steam injection)

The EVI compressor increases the circulation of refrigerant and improves the capacity in both cooling and heating.

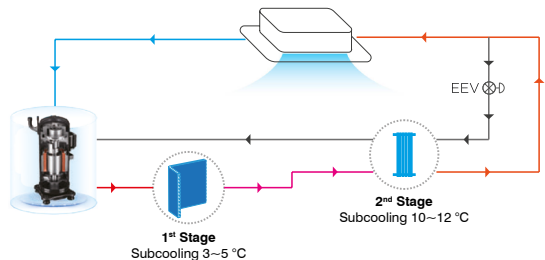


Performance Comparison



SUBCOOLING IN 2 STAGES

The plate heat exchanger increases the subcooling of the refrigerant, resulting in a 10% improvement in energy efficiency and a reduction in refrigerant flow noise.

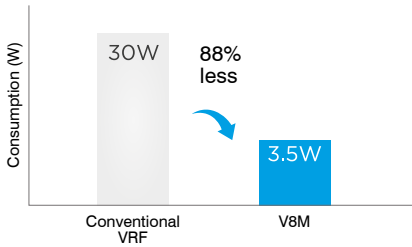


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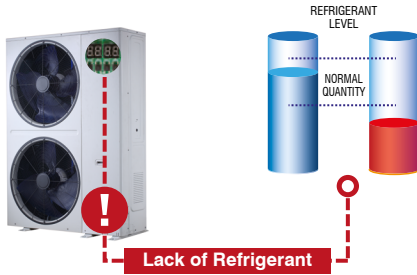
LOW CONSUMPTION IN STAND-BY MODE

The V8M series only consumes 3.5 W in stand-by mode, compared to 30 W on average in a conventional VRF.



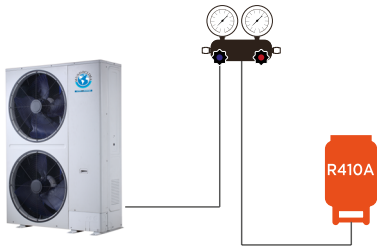
DETECTION OF LACK/EXCESS OF REFRIGERANT

The V8M series can detect if the system lacks refrigerant or if there is an excess.



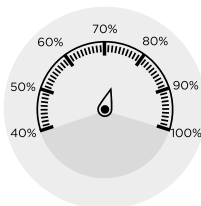
AUTOMATIC REFRIGERANT GAS CHARGE

The V8M series charges the refrigerant gas automatically without having to perform the additional charge calculation.



ENERGY MANAGEMENT SYSTEM

For projects with temporary power supply restrictions, the V8M series can be configured to limit its capacity between 40 ~ 100% in 1% steps.



DOUBLE "BACKUP" FUNCTION

01 - Fans

The equipment can be left running with only one fan.



Operational

Damaged

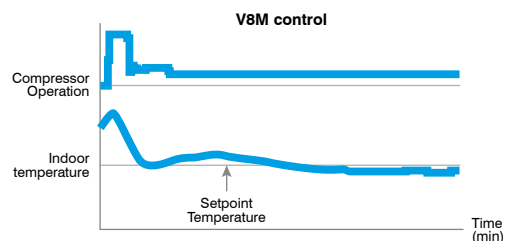
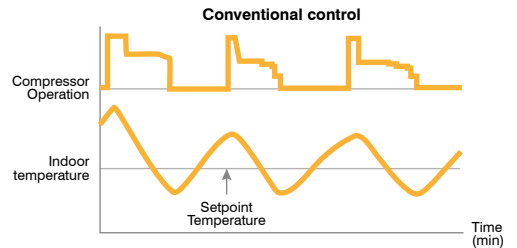
02 - Sensors

Even if a temperature sensor is damaged, the equipment can continue to work, thanks to the algorithm that allows the generation of a virtual sensor to operate as a backup.



EVAPORATION/CONDENSATION FLOATING TEMPERATURE

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

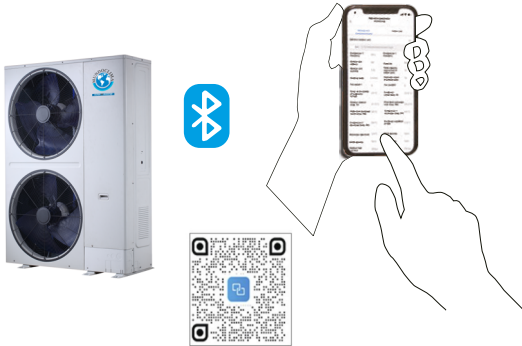


OUTDOOR UNITS MVD V8M Series



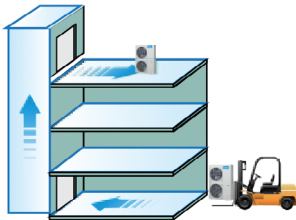
INCORPORATES BLUETOOTH MODULE

For an easier commissioning and maintenance, the V8M series allows you to set and query the operating parameters through your mobile phone, using the LET'S LINK app.



EASY INSTALLATION

The mini MVD can be transported with a forklift. Its small size makes it easier to install and effectively reduces the time and number of personnel needed.

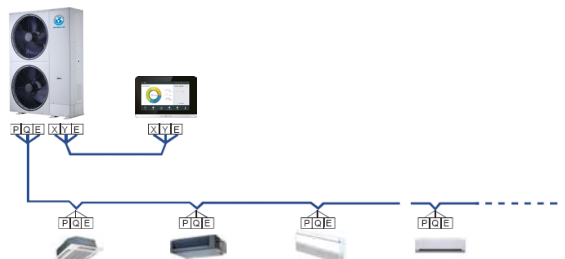


CONNECTABLE INDOOR UNITS

Model	Max. quantity of IDU
252	13
280	16
335	19
400	23
450	26
500	29
560	33
615	36

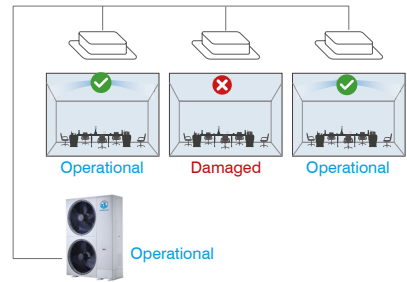
SIMPLIFIED CONNECTION

The central control is connected to the outdoor unit and the automatic direction is activated, this way the control can detect all indoor units connected to that outdoor unit. Afterward we can modify the addresses manually with the individual control of each equipment.



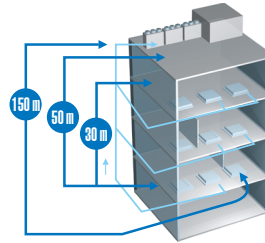
MAINTENANCE MODE

When the maintenance mode is activated, the outdoor unit does not check the number of indoor units connected, so that the system can continue to operate without them.



MAXIMUM PIPE LENGTH

The Mini MVD V8M system supports a maximum pipe length of 560 m, with a height difference between the outdoor and indoor units of up to 50m.



150m: Maximum pipe length between the outdoor unit and the farthest indoor unit.

50m: Maximum height difference between the indoor and outdoor unit.

30m: Maximum height difference between indoor units.

AUTOMATIC ADDRESSING

By default, the first time the power supply is activated, the outdoor unit automatically assigns the address to each indoor unit. It is also possible to observe and modify the address of each interior unit from your controller.



OUTDOOR UNITS MVD V8M Series



SPECIFICATIONS

Model		MVD-V8M252W DRN1	MVD-V8M280W DRN1	MVD-V8M335W DRN1	MVD-V8M400W DRN1	MVD-V8M450W DRN1	MVD-V8M500W DRN1	MVD-V8M560W DRN1	MVD-V8M615W DRN1	
Code		CL23362	CL23363	CL23364	CL23365	CL23366	CL23367	CL23368	CL23369	
Power Supply		Ph, V, Hz	3N~, 400, 50							
Cooling ⁽¹⁾	Nominal capacity	kW	25.2	28	33.5	40.00	45.00	50.00	56.00	61.50
	Nominal rating	kW	7.60	9.10	11.60	15.70	16.00	19.50	22.90	30.80
	EER		3.30	3.09	2.90	2.54	2.82	2.57	2.45	2.00
	Prated,c (design load)	kW	25.2	28	33.5	40.00	45	50	56.0	61.50
	SEER		7.1	6.8	6.38	6.23	6.15	6.08	5.95	5.80
	ηs,c (Seasonal energy efficiency)	%	287	279	273.4	263.0	267.8	255.8	249.0	243.0
Heating ⁽²⁾	Nominal capacity	kW	25.2	28	33.5	40.00	45.00	50.00	56.00	61.50
	Nominal rating	kW	6.1	7.0	9.1	11.70	12.20	13.70	15.50	18.80
	COP		4.1	4.02	3.68	3.42	3.68	3.65	3.62	3.28
	Prated,h (design load)	kW	25.2	28	33.5	40.00	45	50	56.00	61.50
	SCOP		4.15	4.1	4.11	4.00	4.10	4.15	4.07	4.00
	ηs,h (Seasonal energy efficiency)	%	163	161.4	161.4	163.0	166.2	163.8	159.8	157.0
	Tbiv	°C	-10	-10	-10	-10	-10	-10	-10	-10
Rated / max. intensity		A	17 / 20	21 / 25	23 / 32	28 / 32	30 / 40	33 / 40	40 / 50	45 / 50
Connectivity	Pluggable capacity	%	50 - 200	50 - 200	50 - 200	50 - 200	50 - 200	50 - 200	50 - 200	50 - 200
	Number max. indoor units		13	16	19	23	26	29	32	35
Compressor	Brand		GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	HITACHI	HITACHI
	Type		DC Inverter - Scroll EVI							
	Quantity		1	1	1	1	1	1	1	1
	Model		SAVC060D11ULKB			SAVC060-D11ULKB 4	SAVC070D44ULKB 4.5		DE98PHDG-D1Y2 5.5	
Fan	Type		DC	DC	DC	DC	DC	DC	DC	DC
	Quantity		2	2	2	2	2	2	2	2
	Flow rate	m ³ / h	11.800	12.500	12.500	12.500	18.500	20.000	18.500	19.000
	Static pressure	Pa	0 ~ 80	0 ~ 80	0 ~ 80	0 ~ 80	0 ~ 80	0 ~ 80	0 ~ 80	0 ~ 80
Sound pressure ⁽³⁾		dB (A)	56	57	58	59	60	61	61	62
Sound power (LWA) ⁽³⁾		dB (A)	76	79	81	82	86	88	89	89
Dimensions (W x H x D)		mm	1130 x 1760 x 580				1250 x 1760 x 580			
Weight		kg	182	182	185	187	214	214	234	234
Refrigerant	Type / GWP		R410A / 2088							
	Quantity	kg / TCO ₂ eq	6.1 / 12.74	6.1 / 12.74	6.4 / 13.37	7.4 / 15.46	8 / 16.71	8 / 16.71	8.5 / 17.75	8.5 / 17.75
Pipe length ⁽⁴⁾	Max. vertical	m	50	50	50	50	50	50	50	50
	Total	m	150	150	150	150	150	150	150	150
Connection pipes ⁽⁵⁾	Liquid	mm (inches)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")
	Gas	mm (inches)	25.4 (1")	25.4 (1")	25.4 (1")	25.4 (1")	28.6 (1-1/8")	28.6 (1-1/8")	28.6 (1-1/8")	28.6 (1-1/8")
Electrical connections ⁽⁶⁾	Power wiring / ICP	mm ² / A	4x4 + T/20	4x4 + T/25	4x4 + T/32	4x6 + T/32	4x10 + T/40	4x10 + T/40	4x10 + T/50	4x16 + T/50
	Communication cable	mm ²	3 x 0.75 (shielded)							
Operation temp. range	Cooling	°C	-15 ~ 55	-15 ~ 55	-15 ~ 55	-15 ~ 55	-15 ~ 55	-15 ~ 55	-15 ~ 55	-15 ~ 55
	Heating	°C	-30 ~ 30	-30 ~ 30	-30 ~ 30	-30 ~ 30	-30 ~ 30	-30 ~ 30	-30 ~ 30	-30 ~ 30

Note:

⁽¹⁾ Nominal cooling conditions: indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, for a pipe length of 5 m and a height difference of 0 m.

⁽²⁾ Nominal heating conditions: indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, for a pipe length of 5 m and a height difference of 0 m.

⁽³⁾ Pressure noise level measured in a semi-anechoic chamber at 1 m frontal distance and 1.3 m height.

⁽⁴⁾ Pipe length when outdoor unit is installed higher than the indoor units.

⁽⁵⁾ The specified diameters are for the service valves, this does not mean that the pipe must have this diameter.

⁽⁶⁾ Power wiring recommended for L < 20 m, for longer distances it should be recalculated.

* Data measured under EUROVENT EN 14825 conditions, at 100% simultaneity.

** All the data and specifications can be changed without previous notice.