

# OUTDOOR UNITS Mini V8M R32 Serie

Super DC Inverter (8 to 16 kW)

## REFRIGERANT GAS R32

First MUNDOCLIMA VRF system with R32 refrigerant gas.



Mod. 80 to 100

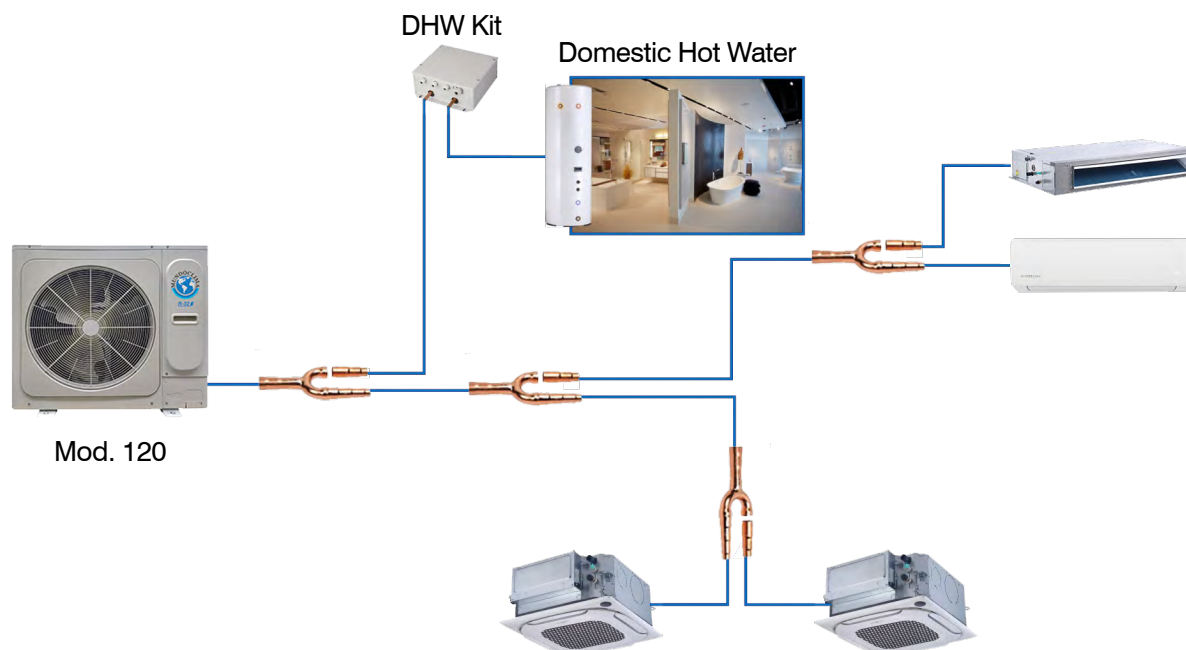


Mod. 120 to 160

## ADJUSTED DIMENSIONS

Mini MVD series with single-phase units from 7.2 kW to 16 kW with only one fan.

## POSSIBILITY OF CONNECTING A 200 L OR 300 L DHW TANK



## OPTIONALS

### Centralized controller



CCM-180A/WS  
(CL09300)



TC3-10.1<sup>(1)</sup>  
(CL09350)



CCM-15(A)  
(CL92872)

More information on optionals in "MUNDOCLIMA CONTROL SYSTEMS"

### Software control



IMMPRO II + HARDWARE  
MK2-B331<sup>(1)</sup>  
(CL09306)



IMMP-BAC(A)  
(CL09303)

BMS

### Accessories



V6 to V8 protocol converter for  
MA3-PCK centralized control  
(CL09312)



XYE Extension module  
MAEK  
(CL09430)



Wattmeter  
DTS343-3  
(CL09431)

(1) It is necessary to add the V6 to V8 protocol converter MA3-PCK (CL09312)

## MINI MVD V8M R32 SERIE



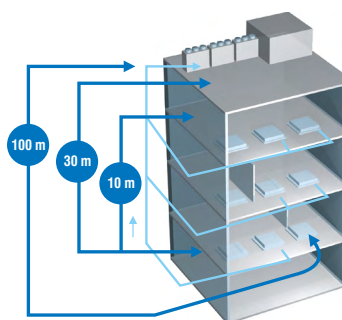
### COMPRESSOR AND FAN MOTORS DC INVERTER

All equipments from the range include DC Inverter compressors and fan motors , this way the medium frequency system performance is improved and a more sensitive and effective control is achieved.



### PIPE TOTAL LENGTH

The Mini MVD V8M system supports a maximum pipe length of 100 m, with a height difference between the outdoor and indoor units of up to 30 m.



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

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

**10 m:** Maximum height difference between indoor units.

### SAVE OF SPACE

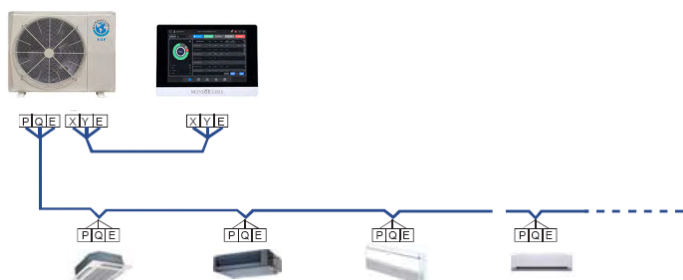
The mini MVD units are more compact, which means that they will take very little space when installed.

They are suitable for small offices, hotels, shops, etc.



### SIMPLIFIED CONNECTION

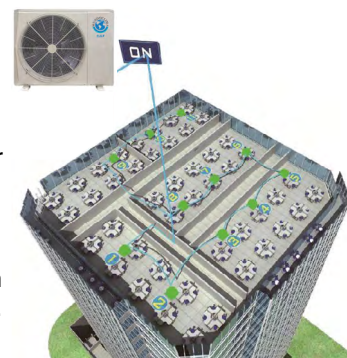
The central control is connected to the outdoor unit and the automatic direction is activated, this way the control can detect all indoor units connected to that outdoor unit. Afterward we can modify the addresses manually with the individual control of each equipment.



### AUTOMATIC ADDRESSING

By default, the first time the power supply to the entire system 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.



			Model	Max. value (m)
Pipe length	Total pipe length		80	60
			100 to 120	80
			140 to 160	100
	Maximum distance (L) (between outdoor and furthest indoor unit)	Total length	80 to 120	35
			140 to 160	45
	Equivalent length	80 to 120	40	
			140 to 160	50
	Equivalent pipe length between the furthest interior and the first distributor.		80 to 160	20
Equivalent pipe length between nearest distributor and the DHW kit		80 to 160	5	
Height difference	Height difference between the outdoor unit and indoor units.	Higher outdoor unit	80	10
			100 to 120	20
			140 to 160	30
		Lower outdoor unit	80 to 120	10
			140 to 160	20
	Height difference between indoor units.		80 to 160	10

## MINI MVD V8M R32 SERIE



## SPECIFICATIONS

Model			MVD-V8M80WDN8	MVD-V8M100WDN8	MVD-V8M120WDN8	MVD-V8M140WDN8	MVD-V8M160WDN8
Code			CL23640	CL23641	CL23642	CL23643	CL23644
Power Supply			1N~, 230, 50	1N~, 230, 50	1N~, 230, 50	1N~, 230, 50	1N~, 230, 50
Cooling <sup>(*)</sup>	Nominal capacity	kW	7.2	9.0	12.3	14.0	15.5
	Nominal rating	kW	2.23	2.94	3.84	4.33	5.13
	EER		3.23	3.06	3.20	3.23	3.02
	Prated,c (design load)	kW	7.2	9.0	12.3	14.0	15.5
	SEER		5.20	5.30	7.50	6.90	6.60
	Energy labeling		A	A	--	--	--
	Annual electricity consumption	kWh / year	442	553	--	--	--
	ηs,c (Seasonal energy efficiency)	%	225.0	225.0	297.0	273.0	261.0
Heating <sup>(*)</sup>	Nominal capacity	kW	7.2	9.0	12.3	14.0	15.5
	Nominal rating	kW	1.92	2.37	3.28	3.60	4.08
	COP		3.75	3.80	3.75	3.89	3.80
	Prated,h (design load)	kW	7.2	9.0	12.3	14.0	15.5
	SCOP		4.00	3.95	4.40	4.60	4.40
	Energy labeling		A	A	--	--	--
	Annual electricity consumption	kWh/year	1821	1984	--	--	--
	ηs,h (Seasonal energy efficiency)	%	157.0	157.0	173.0	181.0	173.0
Tbiv (bivalent temperature)			°C	-7	-7	-7	-7
Rated / max. intensity			A	21.3 / 25	29 / 32	35 / 40	40 / 40
Connectivity	Connecting capacity (min. ~ max.)	%	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130
	Number max. indoor units		4	6	7	8	9
Compressor	Brand		GMCC	GMCC	GMCC	GMCC	GMCC
	Type		DC Inverter - Rotating	DC Inverter - Rotating	DC Inverter - Rotating	DC Inverter - Rotating	DC Inverter - Rotating
	Quantity		1	1	1	1	1
	Model		EKTM240D57UMTRW	EKTM240D57UMTRW	EKTM240D57UMTRW	EKTF400D64UMTRW	EKTF400D64UMTRW
Fan	Type		DC	DC	DC	DC	DC
	Quantity		1	1	1	1	1
	Flow rate	m³/h	3,800	3,800	5,200	5,000	5,000
Sound pressure <sup>(*)</sup>			dB (A)	54	55	57	56
Sound power level (LWA) <sup>(*)</sup> (cooling/heating)			dB (A)	66 / 66	68 / 68	71 / 71	70 / 72
Dimensions (W x H x D)			mm	910 x 712 x 426	910 x 712 x 426	950 x 840 x 440	950 x 840 x 440
Weight			kg	49	52.5	62.5	77.5
Refrigerant	Type / GWP		R32 / 675	R32 / 675	R32 / 675	R32 / 675	R32 / 675
	Quantity	kg	1.4	1.8	2.2	2.4	2.4
	CO <sub>2</sub> equivalence	TCO <sub>2</sub> eq	0.945	1.215	1.485	1.62	1.62
Pipe lengths <sup>(4)</sup>	Max. vertical (upper outdoor unit / lower ind. unit)	m	10 / 10	20 / 10	20 / 10	30 / 20	30 / 20
	Total	m	60	80	80	100	100
Connection pipes <sup>(*)</sup>	Liquid	inch	3/8"	3/8"	3/8"	3/8"	3/8"
	Gas	inch	5/8"	5/8"	5/8"	5/8"	5/8"
Electrical connections <sup>(*)</sup>	Power wiring / ICP	mm² / A	2 x 4 + T / 25	2 x 6 + T / 32	2 x 10 + T / 40	2 x 10 + T / 40	2 x 10 + T / 40
	Communication cable	mm²	3 x 0.75 (shielded)	3 x 0.75 (shielded)	3 x 0.75 (shielded)	3 x 0.75 (shielded)	3 x 0.75 (shielded)
Working temperature range	Cooling	°C	-15 ~ 55	-15 ~ 55	-15 ~ 55	-15 ~ 55	-15 ~ 55
	Heating	°C	-20 ~ 27	-20 ~ 27	-20 ~ 27	-20 ~ 27	-20 ~ 27

## Notes:

(\*1) Nominal cooling conditions: indoor 27°C DB, 19°C WB and outdoor 35°C DB, 24°C WB, 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, 6°C WB, for a pipe length of 5 m and a height difference of 0 m.

(\*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). During operation, these values may be slightly higher due to environmental conditions.

(\*4) Pipe lengths when the 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 calculated.

\*Data measured under EUROVENT EN 14825 conditions, at 100% simultaneity, with indoor cassette units. For more information, see the document "INFORMATION REQUIREMENTS"

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

# Indoor unit

## Domestic Hot Water (DHW)

### Mini V8M R32 Serie

**MUNDCLIMA®**  
**SUPER DC INVERTER**



#### Heat pump for DHW Split Type

Harnesses aerothermal energy to heat the water in the 200 L or 300 L hot water tank.



#### Multiple operating modes

The advanced management system incorporates multiple operating modes to suit all needs:



#### Anti-legionella mode

Thanks to the built-in 2 kW electrical resistance, disinfection is performed at up to 70 °C.



WDCH1-86A3  
Including  
(CL09219)

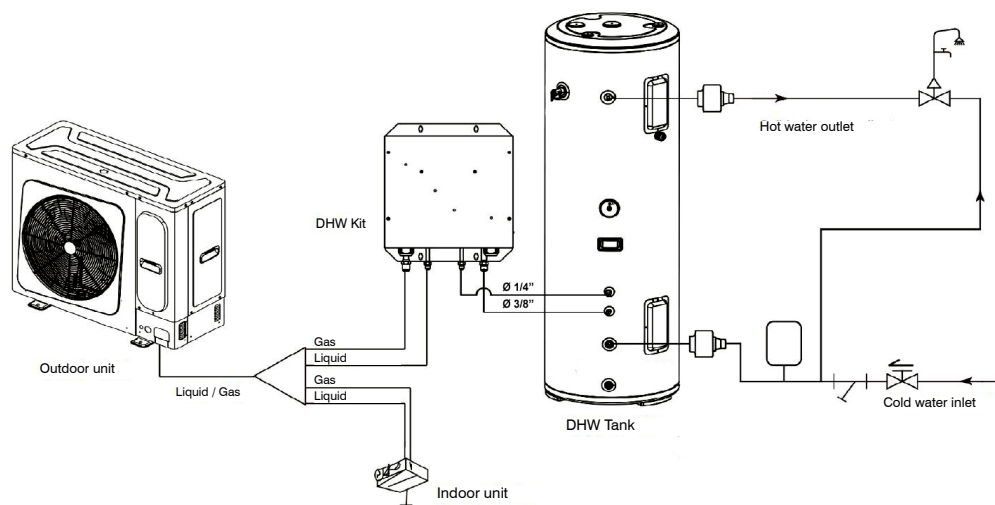


DHW Kit



Mod. 200 to 300

## SCHEME



## SPECIFICATIONS

Model				MVD-W200LN8	MVD-W300LN8
Set code				CL45310	CL45311
DHW Kit	Model			MVD-W120HN8	
	Power Supply	Ph. V. Hz		1N~, 230, 50	
	Energy efficiency class			A	A
	Dimensions (W x H x D)	mm		312 x 129 x 351	312 x 129 x 351
	Weight	kg		5	5
	Working temperature range	°C		30 ~ 60	30 ~ 60
	Refrigeration connections (between shunt and DHW kit)				
	Liquid	inch		1/4"	1/4"
	Gas	inch		1/2"	1/2"
DHW Tank	Electrical connections				
	Power wiring / ICP	mm² / A		2 x 2.5 + T / 20	2 x 2.5 + T / 20
	Communication cable	mm²		3 x 0.75 (shielded)	3 x 0.75 (shielded)
	Model			MVD-W200LN8	MVD-W300LN8
	Capacity	L		200	300
	Support resistance	kW		2.1	2.1
	Dimensions (Ø x Height)	mm.		505 x 1665	580 x 1735
	Weight	kg		73	96
	Refrigeration connections (between DHW kit and tank)				
	Liquid	inch		1/4"	1/4"
	Gas	inch		3/8"	3/8"