MUNDSCLIMA

SUPER DC INVERTER

OUTDOOR UNITS Mini MVD V6M Series R410A Super DC Inverter (up to 33.5 kW)

ADJUSTED DIMENSIONS

Mini MVD Series with single-phase units from 7.2 kW to 16 kW with only one fan and dual fan units from 20 kW to 33.5 kW.

Model	Max. quantity indoor unit.				
80	4				
100	6				
120	7				
140	8				
160	9				
200	11				
224	13				
260	15				
280	16				
335	20				

NEW FUNCTIONS

The new V6M series has all the new functions of the centralized controls CCM-180, CCM-270, IMMP-BAC and the GW-MOD and GW-LON gateways.





DC INVERTER COMPRESSOR AND FAN MOTORS

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.



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.

OPTIONALS



* Model 80 requires the addition of module CL 94 836

More information on the optionals in "MUNDOCLIMA CONTROL SYSTEMS"

POE



POE XYE

PQE

POE



Mod. 80

Mod. 100 to 160

DN



Mod. 200 to 335

each indoor unit. It is also possible to observe and modify the address of each interior unit from your

AUTOMATIC ADDRESSING

power supply is activated, the

controller.

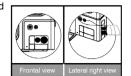
POE

By default, the first time the

MINI MVD V6M SERIES

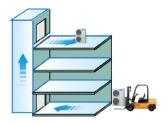
EASY PIPE CONNECTION

It offers four different pipe and cable connection solutions to cater to the different installation needs.



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.



EASY SERVICING

The forced cooling button causes the outdoor unit to operate in cooling mode in any state, so it is very easy to load refrigerant into the system when needed. The selfdiagnosis function detects malfunctions in the main system and displays the type of error and its location. This allows service and maintenance operations to be carried out more efficiently.



SPACE-SAVING

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.

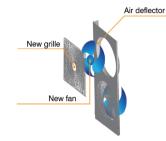


MUND

SUPER DC INVERTE

DESIGNED TO ACHIEVE A LOW NOISE LEVEL WHILE OPERATING

The new design of the fan, the air outlet and the deflector allow for a higher air flow and very little noise level during operation.



MAXIMUM PIPE LENGTH

The Mini MVD V6M system supports a maximum pipe length of 150m, with a height difference between the outdoor and indoor units of up to 50m.

	150 m:	Maxir length outdo the fa unit.
150 m 50 m 15 m	50 m:	Maxir differe the in outdo
	15 m:	Maxir differe indoo
	Note: For r	

mum pipe th between the oor unit and arthest indoor

mum height ence between ndoor and oor unit.

mum height ence between or units.

200 to 335, for the rest see the following table.

			Model	Max. value (m)
			80	50
_				
	Total pipe length	100 to 120	65	
	5	140 to 160	100	
		200 to 335	150	
	Maximum distance (L)		80	35
		Total length	100 to 120	45
			140 to 160	65
PIPE LENGTH	(between outdoor and furthest		200 to 335	100
	indoor unit)		80	40
		Equivalent length	100 to 120	50
		Equivalent length	140 to 160	70
			200 to 335	110
	Equivalant pine length between t	80 to 160	20	
	Equivalent pipe length between the	200 to 335	40	
	Equivalent pipe length between the	he indoor unit and the nearest distributor.	80 to 335	15
	Height difference between the outdoor unit and indoor units.		80	10
		Linker entrie en unit	100 to 120	20
		Higher outdoor unit	140 to 160	30
			200 to 335	50
HEIGHT			80	10
DIFFERENCE			100 to 120	20
		Lower outdoor unit	140 to 160	20
			200 to 335	40
		80 to 160	8	
	Height difference between indoor	200 to 335	15	

MINI MVD V6M SERIES SPECIFICATIONS

MUND CLIMA

Model			MVD-V6M80W/DN1	MVD-V6M100W/DN1	MVD-V6M120W/DN1	MVD-V6M140W/DN1	MVD-V6M160W/DN1
Code			CL 23 290	CL 23 291	CL 23 292	CL 23 293	CL 23 294
Power Supply		Ph, V, Hz	1N~, 230, 50	1N~, 230, 50	1N~, 230, 50	1N~, 230, 50	1N~, 230, 50
	Nominal capacity	kW	7.2 (1.5 ~ 8.0)	9.0 (2.0 ~ 10.0)	12.20	14.00	15.50
	Nominal rating	kW	2.18	2.64	4.32	4.56	5.35
	EER		3.30	3.41	2.83	3.07	2.90
	Prated,c (design load)	kW	7.2	9.0	12.2	14.0	15.5
Coolina (1)	SEER		5.80	6.20	5.84	5.99	6.09
Cooling	Energy labeling		A+	A++	_	-	-
	Annual electricity consumption	kWh/year	436	504	_	-	-
	ηs,c (Seasonal energy efficiency)	%	-	-	230.6	236.6	240.6
	Nominal capacity	kW	7.2 (1.6 ~ 9.0)	9.0 (2.1 ~ 12.0)	14.00	16.00	18.00
	Nominal rating	kW	1.82	2.12	3.17	4.08	5.71
	СОР		3.92	4.29	4.40	3.92	3.20
	Prated,h (design load)	kW	4.92	6.2	14.0	16.0	18.2
	SCOP		3.80	4.37	4.32	4.46	4.21
Heating ⁽²⁾	Energy labeling		A	A+	-	-	-
	Annual electricity consumption	kWh/year	1815	1993	-	-	-
	ηs,h (Seasonal energy efficiency)	%	-	-	169.8	175.4	165.4
	Tbiv	°C	-7	-7	-7	-7	-7
Rated / max. inte	ensity	А	17.39 / 21.25	22.95 / 28.75	27.74 / 35	31.56 / 40	31.56 / 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
	Brand		GMCC	GMCC	GMCC	GMCC	GMCC
Compressor	Туре		DC Inverter - Rotating				
Compressor	Quantity		1	1	1	1	1
	Model		KTM240D5UMT	KTM240D5UMT	ATF400D64UMT	ATF400D64UMV	ATF400D64UMV
	Туре		DC	DC	DC	DC	DC
Fan	Quantity		1	1	1	1	1
	Flow rate	m³/h	3695	5200	5000	5400	5200
Sound pressure	(3)	dB (A)	54	54	56	56	56
Sound power (L	WA) (3)	dB (A)	65	68	70	71	71
Dimensions (W	x H x D)	mm	910 x 712 x 345	950 x 840 x 360	950 x 840 x 360	1040 x 865 x 410	1040 x 865 x 410
Weight		kg	55	72.5	92.0	100.4	104.4
Defrigerent	Type / GWP		R410A / 2088	R410A / 2088	R410A / 2088	R410A / 2088	R410A / 2088
Refrigerant	Quantity	kg/TCO ₂ eq	2.2 / 4.59	2.35 / 4.9	3 / 6.26	3.4 / 7.1	3.8 / 7.93
Pipe length (4)	Max. vertical (upper outd. unit / lower ind. unit)	m	10 / 10	20 / 20	20 / 20	30 / 20	30 / 20
	Total	m	50	65	65	100	100
Connection	Liquid	mm (inches)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
pipes ⁽⁵⁾	Gas	mm (inches)	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")	19.1 (3/4")
Electrical - connections (6)	Power wiring / ICP	mm ² / A	2 x 4 + T / 25	2 x 4 + T / 32	2 x 6 + T / 40	2 x 6 + T / 40	2 x 6 + T / 40
	Communication cable	mm ²	3 x 0.75 (shielded)	3 x 0.75 (shielded)			
Operation temp.	Cooling	°C	-5 ~ 55	-5 ~ 55	-5 ~ 55	-5 ~ 55	-5 ~ 55
range	Heating	°C	-15 ~ 27	-15 ~ 27	-15 ~ 27	-15 ~ 27	-15 ~ 27

Note:

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⁾ 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. ⁽⁹⁾ Pipe length when outdoor unit is installed higher than the indoor units. ⁽⁹⁾ The specified diameters are for the service valves, this does not mean that the pipe must have this diameter. ⁽⁹⁾ Power wiring recommended for L < 20 m, for longer distances it should be recalculated. *Data measured under EUROVENT EN 14825 conditions, at 100% simultaneity, with indoor cassette units. For further information, please refer to the document "INFORMATION REQUIREMENTS".

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

MINI MVD V6M SERIES

MUND CLIMA

SPECIFICATIONS

Model			MVD-V6M200W/DRN1	MVD-V6M224W/DRN1	MVD-V6M260W/DRN1	MVD-V6M280W/DRN1	MVD-V6M335W/DRN	
Code			CL 23 310	CL 23 311	CL 23 312	CL 23 313	CL 23 314	
Power Supply		Ph, V, Hz	3N~, 400, 50	3N~, 400, 50	3N~, 400, 50	3N~, 400, 50	3N~, 400, 50	
	Nominal capacity	kW	20.00	22.40	26.00	28.50	33.50	
	Nominal rating	kW	4.90	6.83	9.63	12.28	14.38	
Cooling ⁽¹⁾	EER		4.08	3.28	2.70	2.32	2.33	
	Prated,c (design load)	kW	20.00	22.4	26	28.5	33.50	
	SEER		7.12	6.76	6.93	6.58	6.77	
	ns,c (Seasonal energy efficiency)	%	281.8	267.4	274.2	260.2	267.8	
	Nominal capacity	kW	20.00	22.40	26.00	28.50	33.50	
	Nominal rating	kW	4.21	4.98	5.53	6.16	8.10	
	COP		4.75	4.50	4.70	4.63	4.14	
Heating (2)	Prated,h (design load)	kW	20.00	22.4	26	28.50	33.50	
riouting	SCOP		4.45	4.50	4.70	4.63	4.05	
	ns,h (Seasonal energy efficiency)	%	175.0	177.0	185.0	182.2	159.0	
	Tbiv	°C	-7	-7	-7	-7	-7	
Rated / max. inte	ensity	A	19 / 25	19 / 25	20.5 / 25	21 / 25	26.4 / 32	
Connectivity	Connecting capacity (min. ~ max.)	%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	
	Number max. indoor units		11	13	15	16	20	
	Brand		GMCC	GMCC	GMCC	GMCC	Mitsubishi Electric	
Comprosor	Туре		DC Inverter - Rotating					
Compressor	Quantity		1	1	1	1	1	
Connectivity Compressor	Model		ATQ580D66UNT	ATQ580D66UNT	ATQ580D66UNT	ATQ580D66UNT	LNB65FAGMC	
	Туре		DC	DC	DC	DC	DC	
Fan	Quantity		2	2	2	2	2	
	Flow rate	m³/h	9000	9000	10000	11000	11300	
Sound pressure	(3)	dB (A)	58	58	59	60	61	
Sound power (L)	WA) (3)	dB (A)	78	78	78	78	81	
Dimensions (W)	x H x D)	mm	1120 x 1558 x 528	1120 x 1558 x 528	1120 x 1558 x 528	1120 x 1558 x 528	1120 x 1558 x 528	
Weight		kg	143	143	144	144	157	
Refrigerant	Type / GWP		R410A / 2088	R410A / 2088	R410A / 2088	R410A / 2088	R410A / 2088	
nemgerani	Quantity	kg/TCO ₂ eq	6.5 / 13.6	6.5 / 13.6	6.5 / 13.6	6.5 / 13.6	8.0 / 16.7	
Pipe length (4)	Max. vertical (upper outd. unit / lower ind. unit)	m	50	50	50	50	50	
	Total	m	150	150	150	150	150	
Connection	Liquid	mm (inches)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	12.7 (1/2")	
pipes ⁽⁵⁾	Gas	mm (inches)	19.1 (3/4")	19.1 (3/4")	22.2 (7/8")	22.2 (7/8")	25.4 (1")	
Electrical	Power wiring / ICP	mm² / A	4 x 4 + T / 25	4 x 4 + T / 25	4 x 4 + T / 25	4 x 4 + T / 25	4 x 6 + T / 32	
connections ⁽⁶⁾	Communication cable	mm ²	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)	
Electrical connections ⁽⁶⁾	Cooling	°C	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	
Operation temp. range	Cooling	0	0 40	0 10	0 10	0 10	0 10	

Note:

⁽¹⁾Nominal cooling conditions: indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, for pipe length of 7.5 m and a height difference of 0 m. ⁽²⁾Nominal cooling conditions:indoor 20 °C DB, 15 °C WB and outdoor 7 °C DB, pipe length of 7.5 m and a height difference of 0 m.

⁽³⁾ Sound pressure level measured in a semi-anechoic chamber at 1 m frontal distance and 1.3 m high.

⁽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.

Becommended power wiring for L < 20 m, for longer distances it should be recalculated.
Data measured under EUROVENT EN 14825 conditions, at 100% simultaneity.

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