DATA SHEET

OUTDOOR UNITS
MVD V8X Series
Super DC Inverter (up to 270 kW)

R410A

OPTIONALS

More information on optionals in “MUNDOCLIMA CONTROL SYSTEMS”

Centralized controller

GW3-CLOUD
(CL09304)

TC3-10.1
(CL09305)

Software control

IMMPRO II
(CL09306)

Wattmeter

DTS343-3
(CL09431)

BMS

GW3-MOD
(CL09307)

GW3-BAC
(CL09308)

GW3-LON
(CL09309)

XYE Extension Module

MA-EK
(CL09430)

OUTDOOR UNITS MVD V8X Series

MUNDOCLIMA SUPER DC INVERTER

VERSATILITY

Up to 13 modules

The Super DC Inverter Maxi MVD V8X modular system, consists of 8 basic modules that can be combined with up to 3 modules according to the installation needs. They make up a total system capacity that can go from 8 up to 96 HP (270 kW) in increments of 2 HP.

8 / 10 / 12 / 14 HP

18 / 20 / 22 / 24 HP

26 / 28 / 30 / 32 HP

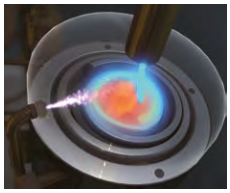
8 / 10 / 12 / 14 / 16 / 18 / 20 / 22 / 24 / 26 / 28 / 30 / 32 HP... Max. 96 HP (270 kW)

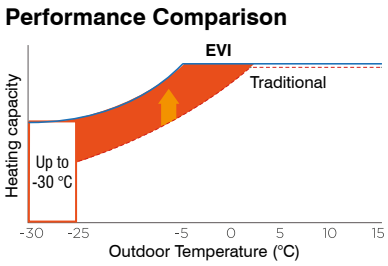
OUTDOOR UNITS MVD V8X Series

MUNDOCLIMA SUPER DC INVERTER

DC INVERTER EVI SCROLL COMPRESSOR (Enhanced steam injection)

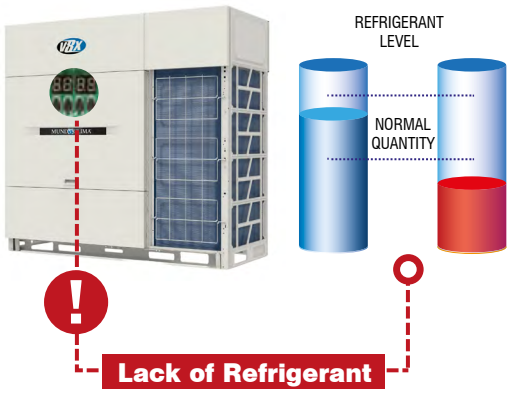
The EVI compressor increases the circulation of refrigerant and improves the capacity in both cooling and heating.





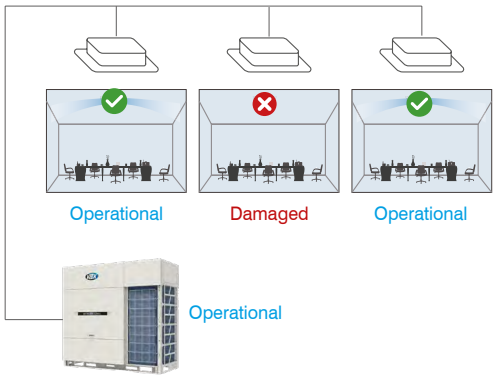
DETECTION OF LACK / EXCESS OF REFRIGERANT

The V8X series can detect if the system lacks refrigerant or if there is an excess.



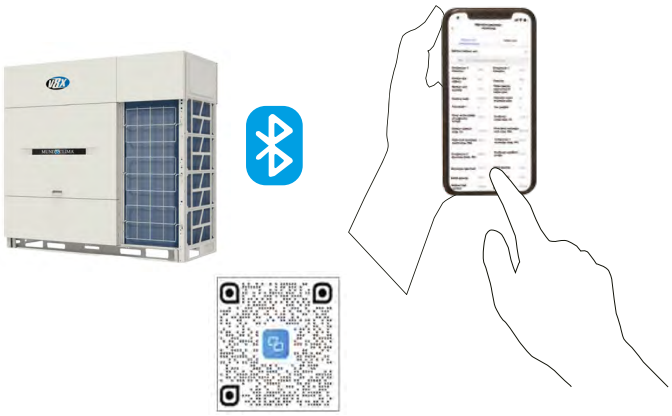
MAINTENANCE MODE

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.



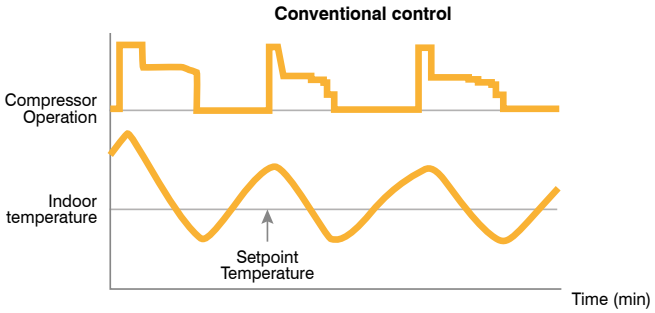
INCORPORATES BLUETOOTH MODULE

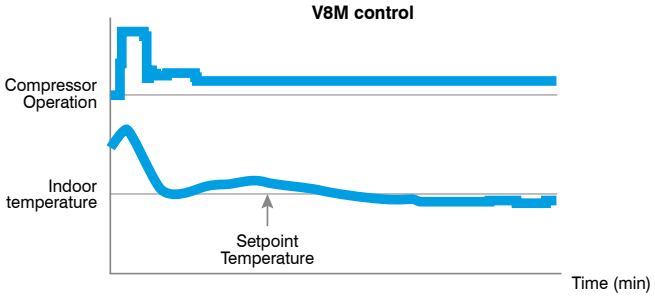
For easier commissioning and maintenance, the V8X series allows you to configure and consult operating parameters via cell phone, using the LET'S LINK application.



EVAPORATION/CONDENSATION FLOATING TEMPERATURE

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





OUTDOOR UNITS MVD V8X Series

MUNDOCLIMA® SUPER DC INVERTER

QUADRUPLE "BACKUP" FUNCTION

01 - Fans

The equipment can be left running with only one fan.

02 - Sensors

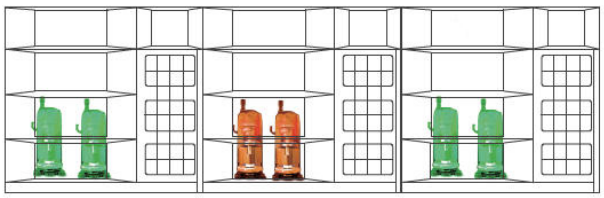
Even if a temperature sensor is damaged, the equipment can continue to work, thanks to the algorithm that allows the generation of a virtual sensor to operate as a backup.

03 - Compressors

The equipment can be left running with only one compressor (only in equipment with 2 compressors).

04 - Modules

In a multiple installation if a module fails, the system can continue to operate.

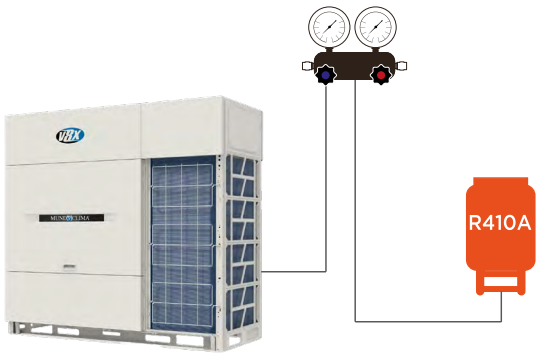


TOTALLY WATERTIGHT ELECTRICAL PANEL

Thanks to the totally watertight electrical panel (IP55), the penetration of dust, humidity and any type of insects is prevented, thus ensuring stable operation in all circumstances.

AUTOMATIC REFRIGERANT GAS CHARGE

The V8X series charges the refrigerant gas automatically without having to perform the additional charge calculation.



OUTDOOR UNITS MVD V8X Series

MUNDOCLIMA® SUPER DC INVERTER

TECHNICAL SPECIFICATIONS

Model				MVD-V8X252W/ V2GN1	MVD-V8X280W/ V2GN1	MVD-V8X335W/ V2GN1	MVD-V8X400W/ V2GN1	MVD-V8X450W/ V2GN1	MVD-V8X500W/ V2GN1	MVD-V8X560W/ V2GN1
Code				CL23650	CL23651	CL23652	CL23653	CL23654	CL23655	CL23656
Power supply			Ph, V, Hz	3N~, 400, 50	3N~, 400, 50	3N~, 400, 50	3N~, 400, 50	3N~, 400, 50	3N~, 400, 50	3N~, 400, 50
Cooling (*1)	Nominal capacity		kW	25.2	28	33.5	40	45	50	56
	Nominal rating		kW	7.8	8.8	11.6	14	18.4	18.1	22.1
	EER			3.21	3.2	2.88	2.85	2.45	2.76	2.54
	Prated,c (design load)		kW	25.2	28	33.5	40	45	50	56
	SEER			7.33	7.25	7.19	7.28	6.83	7.03	6.63
	ηs,c (Seasonal energy efficiency)		%	290.3	287.0	284.5	288.1	270.1	278.2	262.2
Heating (*2)	Nominal capacity		kW	25.2	28	33.5	40	45	50	56
	Nominal rating		kW	6.4	7.4	9.5	11.3	12.7	13.6	15.7
	COP			3.91	3.77	3.53	3.53	3.53	3.68	3.56
	Prated,h (design load)		kW	28	28	33.5	40	45	50	56
	SCOP			4.33	4.27	4.29	4.37	4.27	4.25	4.2
	ηs,h (Seasonal energy efficiency)		%	170.05	167.72	168.5	171.8	167.72	167	165
	Tbiv (bivalent temperature)		°C	-7	-7	-7	-7	-7	-7	-7
Rated / max. intensity			A	17 / 20	18.8 / 25	23 / 32	26.2 / 32	31.4 / 40	33 / 40	40.5 / 50
Connectivity	Pluggable capacity		%	50 - 150	50 - 150	50 - 150	50 - 150	50 - 150	50 - 150	50 - 150
	Max. quantity of indoor units			13	16	19	23	26	29	33
Compressor	Brand			GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC
	Type			Scroll DC Inverter EVI	Scroll DC Inverter EVI	Scroll DC Inverter EVI	Scroll DC Inverter EVI	Scroll DC Inverter EVI	Scroll DC Inverter EVI	Scroll DC Inverter EVI
	Quantity			1	1	1	1	1	2	2
	Model nº 1			SAVC060D110ULKA	SAVC060D110ULKA	SAVC060D110ULKA	SAVC070D44ULKA	SAVC070D44ULKA	SAVC060D110ULKA	SAVC060D110ULKA
	Model nº 2			--	--	--	--	--	SAVC060D110ULKA	SAVC060D110ULKA
Fan	Type			DC	DC	DC	DC	DC	DC	DC
	Quantity			1	1	1	1	1	2	2
	Flow rate		m^3/h	12,600	12,600	13,500	15,600	15,600	22,000	22,000
	Static pressure	Standard	Pa	0 ~ 20	0 ~ 20	0 ~ 20	0 ~ 20	0 ~ 20	0 ~ 20	0 ~ 20
		Adjustable	Pa	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80
Sound pressure (*3)			dB (A)	58	58	61	65	65	65	66
Sound power (LWA)(*3)			dB (A)	83	84	85	86	86	88	89
Dimensions (W x H x D)			mm	990 x 1760 x 825	990 x 1760 x 825	990 x 1760 x 825	990 x 1760 x 825	990 x 1760 x 825	1340 x 1760 x 825	1340 x 1760 x 825
Weight			kg	195	195	195	215	215	295	295
Refrigerant	Type / GWP			R410A / 2088	R410A / 2088	R410A / 2088	R410A / 2088	R410A / 2088	R410A / 2088	R410A / 2088
	Quantity		kg / TCO_2eq	7 / 14.62	7 / 14.62	7 / 14.62	8.4 / 17.54	8.4 / 17.54	9.3 / 19.42	9.3 / 19.42
Pipe length	Max. vertical	Upper outdoor unit	m	110	110	110	110	110	110	110
		Lower outdoor unit	m	110	110	110	110	110	110	110
	Total		m	1,100	1,100	1,100	1,100	1,100	1,100	1,100
Connection pipes (*4)	Liquid		mm (inches)	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")	28.6 (1 1/8")	28.6 (1 1/8")	28.6 (1 1/8")	28.6 (1 1/8")
Electrical connections (*5)	Power wiring / ICP		mm^2	4 x 4 + T / 20	4 x 4 + T / 25	4 x 6 + T / 32	4 x 6 + T / 32	4 x 10 + T / 40	4 x 10 + T / 40	4 x 10 + T / 50
	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)	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	-15 ~ 55	-15 ~ 55
	Heating		°C	-30 ~ 30	-30 ~ 30	-30 ~ 30	-30 ~ 30	-30 ~ 30	-30 ~ 30	-30 ~ 30

Notes:

(*1)Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, for 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) Sound pressure measured in anechoic chamber at 1 m frontal distance and 1.3 m height.

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

(*5) Recommended power wiring for L < 20 m should be calculated according to the conditions of each installation.

* Data measured under EUROVENT EN 14825 conditions, at 100% simultaneity with high pressure duct-type indoor units.

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

OUTDOOR UNITS MVD V8X Series

MUNDOCLIMA® SUPER DC INVERTER

TECHNICAL SPECIFICATIONS

Model				MVD-V8X615W/ V2GN1	MVD-V8X670W/ V2GN1	MVD-V8X730W/ V2GN1	MVD-V8X785W/ V2GN1	MVD-V8X850W/ V2GN1	MVD-V8X900W/ V2GN1
Code				CL23657	CL23658	CL23659	CL23660	CL23661	CL23662
Power supply			Ph, V, Hz	3N~, 400, 50	3N~, 400, 50	3N~, 400, 50	3N~, 400, 50	3N~, 400, 50	3N~, 400, 50
Cooling (*1)	Nominal capacity		kW	61.5	67	73	78.5	85	90
	Nominal rating		kW	25.8	31.4	35.4	32.4	37.8	43.9
	EER			2.38	2.14	2.06	2.42	2.25	2.05
	Prated,c (design load)		kW	61.5	67	73	78.5	85	90
	SEER			6.63	6.14	5.69	6.02	5.93	5.78
	ηs,c (Seasonal energy efficiency)		%	262.3	242.4	224.7	237.4	234.1	228.1
Heating (*2)	Nominal capacity		kW	61.5	67	73	78.5	85	90
	Nominal rating		kW	17.4	19.1	22.1	23.1	25.1	27.8
	COP			3.54	3.5	3.3	3.4	3.39	3.24
	Prated,h (design load)		kW	61.5	67	73	78.5	85	90
	SCOP			4.35	4.28	4.27	4.28	4.2	4.2
	ηs,h (Seasonal energy efficiency)		%	171	168.2	167.8	168.2	165	165
	Tbiv (bivalent temperature)		ºC	-7	-10	-10	-10	-10	-10
Rated / max. intensity			A	41.5 / 50	46 / 63	51 / 63	51 / 63	56.8 / 80	57 / 80
Connectivity	Pluggable capacity		%	50 - 150	50 - 150	50 - 150	50 - 150	50 - 150	50 - 150
	Max. quantity of indoor units			36	39	43	46	50	53
Compressor	Brand			GMCC	GMCC	GMCC	GMCC	GMCC	GMCC
	Type			Scroll DC Inverter EVI	Scroll DC Inverter EVI	Scroll DC Inverter EVI	Scroll DC Inverter EVI	Scroll DC Inverter EVI	Scroll DC Inverter EVI
	Quantity			2	2	2	2	2	2
	Model nº 1			SAVC060D11OULKA	SAVC060D11OULKA	SAVC060D11OULKA	SAVC060D11OULKA	SAVC060D11OULKA	SAVC060D11OULKA
	Model nº 2			SAVC060D11OULKA	SAVC060D11OULKA	SAVC060D11OULKA	SAVC060D11OULKA	SAVC060D11OULKA	SAVC060D11OULKA
Fan	Type			DC	DC	DC	DC	DC	DC
	Quantity			2	2	2	2	2	2
	Flow rate		m^3/h	21,500	21,500	29,000	28,000	28,000	28,000
	Static pressure	Standard	Pa	0 ~ 20	0 ~ 20	0 ~ 20	0 ~ 20	0 ~ 20	0 ~ 20
		Adjustable	Pa	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80
Sound pressure (*3)			dB (A)	66	67	68	68	68	68
Sound power (LWA)(*3)			dB (A)	89	92	93	93	93	93
Dimensions (W x H x D)			mm	1340 x 1760 x 825	1340 x 1760 x 825	1880 x 1760 x 825	1880 x 1760 x 825	1880 x 1760 x 825	1880 x 1760 x 825
Weight			kg	315	315	366	396	396	396
Refrigerant	Type / GWP			R410A / 2088	R410A / 2088	R410A / 2088	R410A / 2088	R410A / 2088	R410A / 2088
	Quantity		kg / TCO_2eq	11.96 / 24.98	11.96 / 24.98	11.96 / 24.98	11.96 / 24.98	11.96 / 24.98	11.96 / 24.98
Pipe length	Max. vertical	Upper outdoor unit	m	110	110	110	110	110	110
		Lower outdoor unit	m	110	110	110	110	110	110
	Total		m	1,100	1,100	1,100	1,100	1,100	1,100
Connection pipes (*4)	Liquid		mm (inches)	15.9 (5/8")	15.9 (5/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")
	Gas		mm (inches)	28.6 (1 1/8")	28.6 (1 1/8")	31.8 (1 1/4")	34.9 (1 3/8")	34.9 (1 3/8")	34.9 (1 3/8")
Electrical connections (*5)	Power wiring / ICP		mm^2	4 x 10 + T / 50	4 x 16 + T / 63	4 x 16 + T / 63	4 x 16 + T / 63	4 x 25 + T / 80	4 x 25 + T / 80
	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)	3 x 0.75 (shielded)
Working temperature range	Cooling		ºC	-15 ~ 55	-15 ~ 55	-15 ~ 55	-15 ~ 55	-15 ~ 55	-15 ~ 55
	Heating		ºC	-30 ~ 30	-30 ~ 30	-30 ~ 30	-30 ~ 30	-30 ~ 30	-30 ~ 30

Notes:

(*1)Nominal cooling conditions: Indoor 27 °C DB, 19 °C WB and outdoor 35 °C DB, 24 °C WB, for 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) Sound pressure measured in anechoic chamber at 1 m frontal distance and 1.3 m height.
(*4) The specified diameters are for the service valves, this does not mean that the pipe must have this diameter.
(*5) Recommended power wiring for L < 20 m should be calculated according to the conditions of each installation.
* Data measured under EUROVENT EN 14825 conditions, at 100% simultaneity with high pressure duct-type indoor units.
** All the data and specifications can be changed without previous notice.

OUTDOOR UNITS MVD V8X Series

MUNDOCLIMA® SUPER DC INVERTER

COMBINATIONS

Capacity		Combination	Quantity ODU's	Quantity IDU's
kW	HP	HP		
25.2	8	8	1	13
28	10	10	1	16
33.5	12	12	1	19
40	14	14	1	23
45	16	16	1	26
50	18	18	1	29
56	20	20	1	33
61.5	22	22	1	36
67	24	24	1	39
73	26	26	1	43
78.5	28	28	1	46
85	30	30	1	50
90	32	32	1	53
95	34	14+20	2	56
101.5	36	16+20	2	59
106.5	38	14+24	2	62
112	40	16+24	2	64
117.5	42	18+24	2	64
123	44	22+22	2	64
128.5	46	22+24	2	64
134.5	48	24+24	2	64
140	50	18+32	2	64
146	52	20+32	2	64
151.5	54	22+32	2	64
157	56	24+32	2	64
163.5	58	26+32	2	64
168.5	60	28+32	2	64
175	62	30+32	2	64
180	64	32+32	2	64
185	66	14 + +20 + 32	3	64
191.5	68	16 + +20 + 32	3	64
196.5	70	14 + +24 + 32	3	64
202	72	16 + +24 + 32	3	64
207.5	74	18 + +24 + 32	3	64
213	76	22 + 22 + 32	3	64
218.5	78	22 + +24 + 32	3	64
224.5	80	24 + +24 + 32	3	64
230	82	18 + +32 + 32	3	64
236	84	20 + +32 + 32	3	64
241.5	86	22 + +32 + 32	3	64
247	88	24 + +32 + 32	3	64
253.5	90	26 + +32 + 32	3	64
258.5	92	28 + +32 + 32	3	64
265	94	30 + +32 + 32	3	64
270	96	32 + +32 + 32	3	64

Note:

(1) In systems consisting of several modules, the power wiring and the electrical protections must be recalculated for each module.

(2) Standard combinations, any other combination is possible (max. 3 units)

(3) For systems consisting of 2 modules it is necessary to purchase the external unit distributor FQZHW-02N1E (FQZHW-02N1G for 157 to 180 kW) or if it consists of 3 modules, the FQZHW-03N1E.