

The Matrix logo features the word "Matrix" in a bold, red, sans-serif font. It is positioned within a blue, curved swoosh that starts above the text and ends to the right, curving downwards.

Matrix

VC Pro VRF
8-90HP Cooling Series



Specifications

HP			8	10	12	14	16	18	
Model name			MVC-224WV2GN1	MVC-280WV2GN1	MVC-335WV2GN1	MVC-400WV2GN1	MVC-450WV2GN1	MVC-500WV2GN1	
Power supply			V/Ph/Hz 220-240, 380-415V/3N/60Hz						
Cooling ¹	Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.0	
		kBtu/h	76.5	95.6	114.4	136.6	153.7	170.8	
	Power input	kW	5.17	6.81	9.13	10.58	12.26	14.88	
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	
	Maximum quantity		13	16	20	23	26	29	
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	
	Quantity		1	1	1	1	1	2	
	Start-up method		Inverter start	Inverter start	Inverter start	Inverter start	Inverter start	Inverter start	
Fan	Type		DC	DC	DC	DC	DC	DC	
	Quantity		1	1	1	1	1	2	
	Motor output	kW	0.56	0.56	0.56	0.75	0.75	0.56×2	
	Static pressure	Pa	0(default);0-60(customize)						
	Airflow rate	m ³ /h	10000	10000	11000	12000	12000	12600	
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	
	Factory charge	kg	8	8	8	11	11	13	
Pipe connections ²	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ15.9	
	Gas pipe	mm	Φ25.4	Φ25.4	Φ28.6	Φ31.8	Φ31.8	Φ31.8	
Sound pressure level ³	dB(A)		57	58	60	60	61	62	
Net dimensions (W×H×D)		mm	960×1615×765					1250×1615×765	
Packed dimensions (W×H×D)		mm	1025×1790×830					1305×1790×820	
Net weight		kg	188	188	188	197	197	278	
Gross weight		kg	204	204	204	213	213	297	
Ambient temp.	Cooling	°C	-5 °C to 55 °C						

HP			20	22	24	26	28	30
Model name			MVC-560WV2GN1	MVC-615WV2GN1	MVC-670WV2GN1	MVC-730WV2GN1	MVC-785WV2GN1	MVC-850WV2GN1
Power supply			V/Ph/Hz 220-240, 380-415V/3N/60Hz					
Cooling ¹	Capacity	kW	56.0	61.5	67.0	73.0	78.5	85.0
		kBtu/h	191.3	210.0	228.8	249.3	268.1	290.3
	Power input	kW	17.45	20.23	20.68	23.40	26.08	29.51
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%	50-130%	50-130%
	Maximum quantity		33	36	39	43	46	50
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		2	2	2	2	2	2
	Start-up method		Inverter start	Inverter start	Inverter start	Inverter start	Inverter start	Inverter start
Fan	Type		DC	DC	DC	DC	DC	DC
	Quantity		2	2	2	2	2	2
	Motor output	kW	0.56×2	0.56×2	0.56×2	0.56×2	0.56×2	0.56×2
	Static pressure	Pa	0(default);0-60(customize)					
	Airflow rate	m ³ /h	12600	12600	20000	20000	21000	21000
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A
	Factory charge	kg	13	13	19	19	19	19
Pipe connections ²	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8	Φ31.8	Φ31.8	Φ38.1
Sound pressure level ³	dB(A)		63	63	64	64	64	64
Net dimensions (W×H×D)		mm	1250×1615×765			1585×1615×765		
Packed dimensions (W×H×D)		mm	1305×1790×820			1650×1810×840		
Net weight		kg	278	278	319	319	319	319
Gross weight		kg	297	297	343	343	343	343
Ambient temp.	Cooling	°C	-5 °C to 55 °C					

Notes:

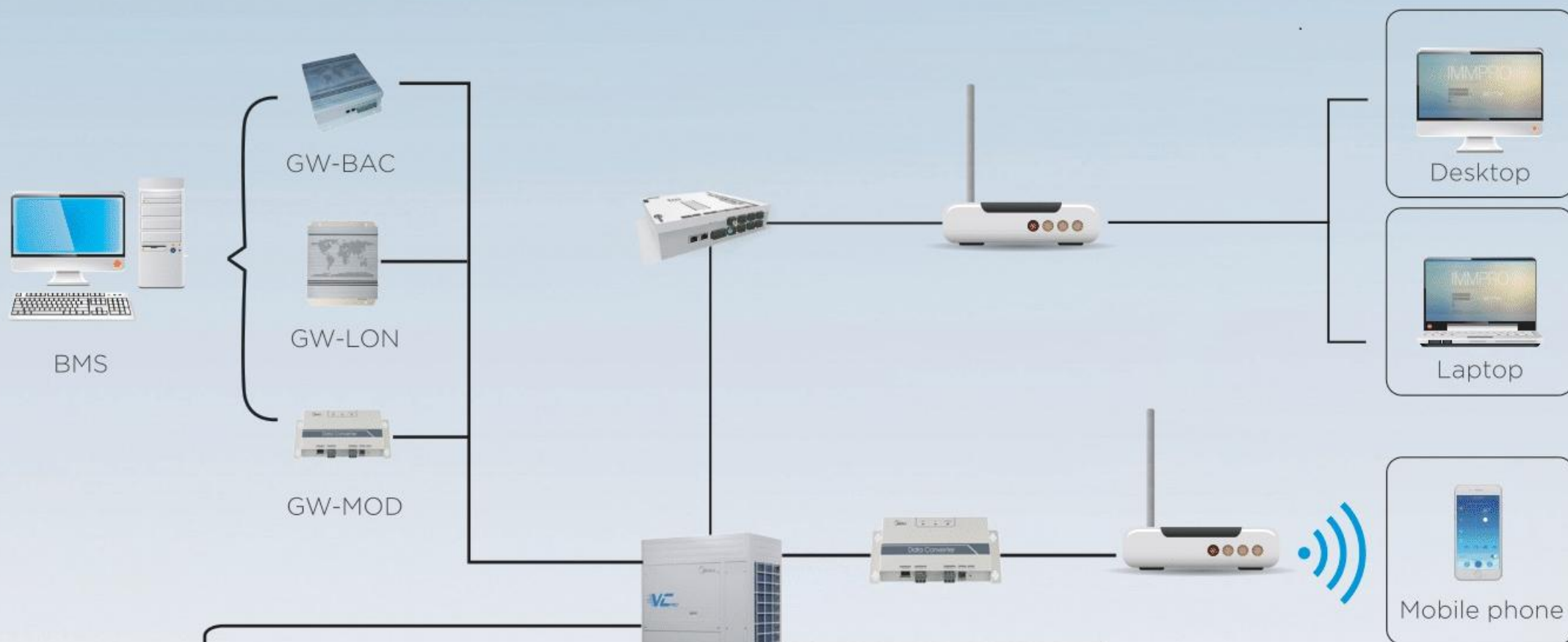
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

2. Diameters given are those of the unit's stop valves.

3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

Comprehensive Control Solutions



Wired Controllers

Wireless Remote Controllers

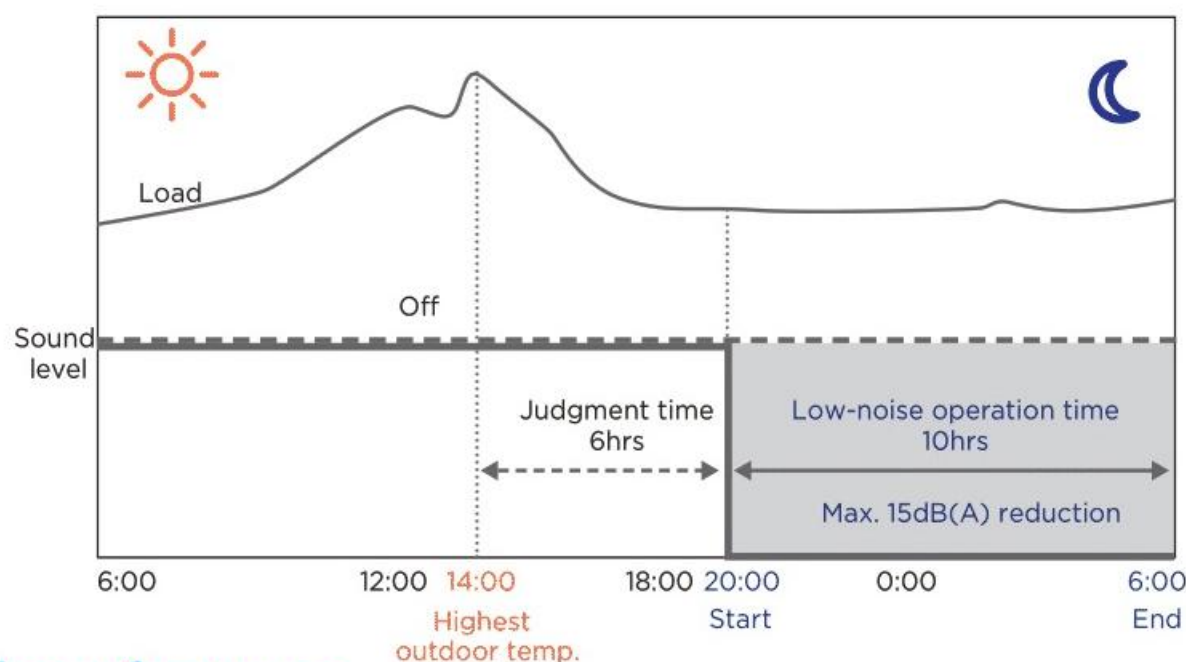
Centralized Controllers



Enhanced Comfort

»» Optional silent modes

VC Pro VRF has optional silent modes including night silent mode and non-night silent mode which provides more freedom and convenience to match the customers' needs. Different silent mode is achieved by setting up field settings or through the centralized controller.



»» Silent technology features

Several noise reducing components reduce the running noise of outdoor units.



»» Precise temperature control

VC Pro outdoor unit uses multiple and high precision EXVs to create comfortable indoor environment. The EXV control precision is up to 3000-stage which can precisely control refrigerant flow and guarantee stable indoor temperature. In this way, temperature setting can be adjusted in 0.5°C step, enabling precise comfort control.

