

Engineering Data

V8 Series VRF



220-240V ~ 50/60Hz

MV8M-80WV2HN1

MV8M-100WV2HN1

MV8M-120WV2HN1

MV8M-140WV2HN1

MV8M-160WV2HN1

V8 Mini R410A VRF 50/60Hz



140-160 model

Table 2-1.2: 140-160 model specifications

Model			140	160
Model name			MV8M-140WV2HN1	MV8M-160WV2HN1
Power supply			220-240V, ~, 50/60Hz	
Cooling ¹	Capacity	kW	14.0	15.5
		kBtu/h	47	52
	Power input	kW	3.59	4.29
	EER		3.90	3.61
Heating ²	Capacity	kW	16.0	18.0
		kBtu/h	54	61
	Power input	kW	3.76	4.39
	COP		4.25	4.10
Connected indoor unit	Total capacity		50%-160% ⁵ of outdoor unit capacity	
	Maximum quantity		10	11
Compressor	Type		DC	
	Quantity		1	
	Oil type		RB75EA	
	Start-up method		Soft start	
Fan	Type		Propeller	
	Motor type		DC	
	Quantity		1	
	Motor output	kW	0.2	
	Static pressure	Pa	0-35	
	Airflow rate	m ³ /h	5000	5000
	Drive type		Direct	
Refrigerant	Type		R410A	
	Factory charge	kg	4.1	4.1
Pipe connections ³	Liquid pipe	mm	Φ9.52	Φ9.52
	Gas pipe	mm	Φ15.9	Φ15.9
Sound pressure level ⁴		dB(A)	56	56
Sound power level ⁴		dB(A)	73	74
Net dimensions (W×H×D)		mm	1073x864x523	
Packed dimensions (W×H×D)		mm	1120x980x560	
Net weight		kg	94	94
Gross weight		kg	104	104
Ambient temp.	Cooling	°C	-15°C~52°C ⁶	
operation range	Heating	°C	-20~16.5 °C (WB)/-20~30 °C (DB)	

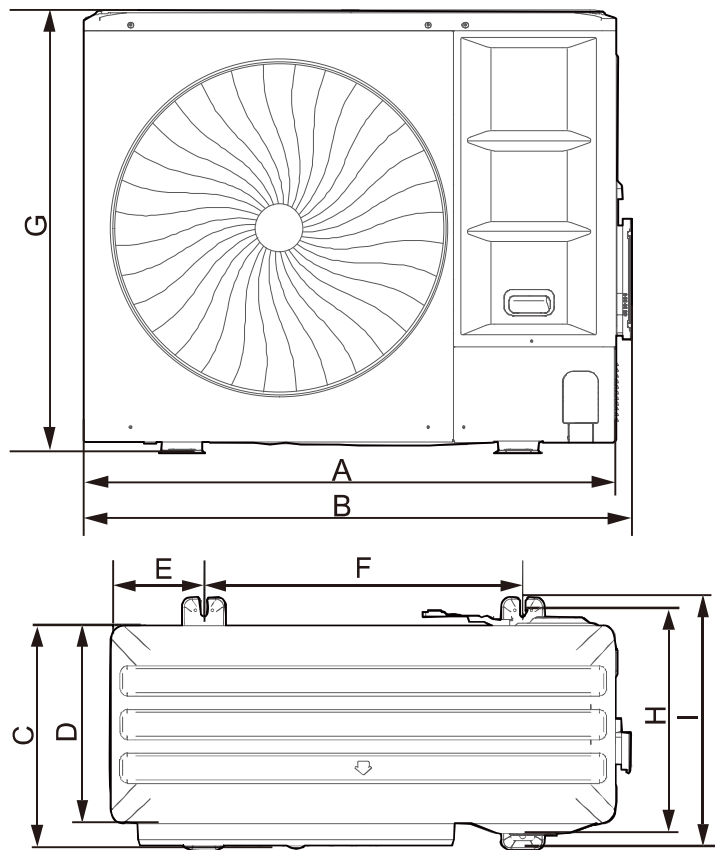
Notes:

- Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor air temperature 20°C DB; outdoor air temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valve. Refer to Part 3, "3 Refrigerant Piping Design" for installation dimensions of refrigerant pipe.
- Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.
- If there are non V8 series indoor units in system the total combination ratio must not exceed 130%
- Outdoor operating temperature under -5 °C in "cooling" mode, the startup capacity of IDUs must meet at least 30% of ODU capacity

2 Dimensions

2.1 Single Units

80/100/120/140/160 model



Unit:mm

Model	A	B	C	D	E	F	G	H	I
80-160	1038	1073	454	409	191	656	864	463	523

3 Installation Space Requirements

Figure 2-3.1: Single unit installation (unit: mm)

- Single unit installation

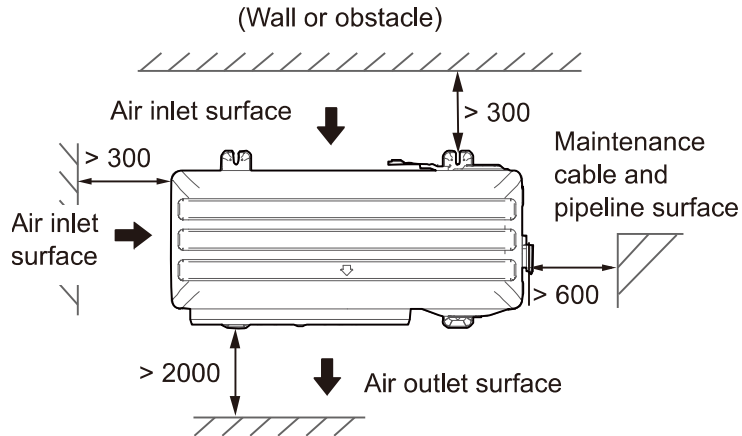
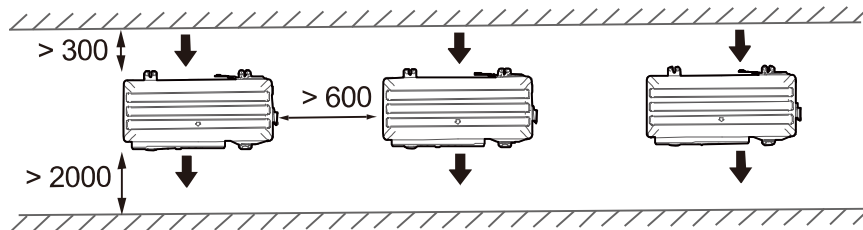


Figure 2-3.2: Multiple unit installation (unit: mm)

- Parallel connect the two units or above



- Parallel connect the front with rear sides

