R410A

Commercial Air Conditioners

Engineering Data

V6-i Series VRF

MV6-i252WV2GN1-E

MV6-i280WV2GN1-E

MV6-i335WV2GN1-E

MV6-i400WV2GN1-E

MV6-i450WV2GN1-E

MV6-i500WV2GN1-E

MV6-i560WV2GN1-E

MV6-i615WV2GN1-E

MV6-i670WV2GN1-E

MV6-i730WV2GN1-E

MV6-i785WV2GN1-E

MV6-i850WV2GN1-E

MV6-i900WV2GN1-E

24-32HP

Table 2-1.3: 24-32HP specifications

HP			24	26	28	30	32
Model name			MV6-i670WV2GN1-E	MV6-i730WV2GN1-E	MV6-i785WV2GN1-E	MV6-i850WV2GN1-E	MV6-i900WV2GN1-E
Power supply		V/Ph/Hz	380-415/3/50				
Cooling[1]	Capacity	kW	67.0	73.0	78.5	85.0	90.0
		kBtu/h	228.6	249.1	267.8	290.0	307.1
	Power input	kW	21.6	21.6	24.9	28.3	32.1
	EER		3.10	3.40	3.15	3.00	2.80
Heating[2]	Capacity	kW	67.0	73.0	78.5	85.0	90.0
		kBtu/h	228.6	249.1	267.8	290.0	307.1
	Power input	kW	16.8	18.1	21.8	24.3	26.5
	COP		4.00	4.05	3.60	3.50	3.40
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity				
	Maximum quantity		39	43	46	50	53
Compressor	Type		DC inverter				
	Quantity		2				
	Oil type		FV68H				
	Start-up method		Soft start				
Fan	Type		Propeller				
	Motor type		DC				
	Quantity		2				
	Motor output	kW	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2
	Airflow rate	m^3/h	25000	25000	25000	24000	24000
	Drive type		Direct				
Refrigerant	Type		R410A				
	Factory charge	kg	22	22	22	25	25
Pipe connections[3]	Liquid pipe	mm	Φ19.1	Φ22.2		Φ22.2	
	Gas pipe	mm	Φ31.8	Φ31.8		Φ38.1	
Sound pressure level[4]		dB(A)	67	68			
Sound power level		dB(A)	89	90			
Net dimensions (W×H×D)		mm	1730×1830×850				
Packed dimensions (W×H×D)		mm	1800×2000×910				
Net weight		kg	407	429		475	
Gross weight		kg	430	452		507	
Ambient temp. operation range	Cooling	°C	-5 ~ 48				
	Heating	°C	-23 ~ 24				

Notes:

1. 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.
2. 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.
3. Diameters given are those of the unit's stop valve.
4. 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.

24/26/28/30/32HP

Figure 2-2.4: 24/26/28/30/32HP dimensions (unit: mm)

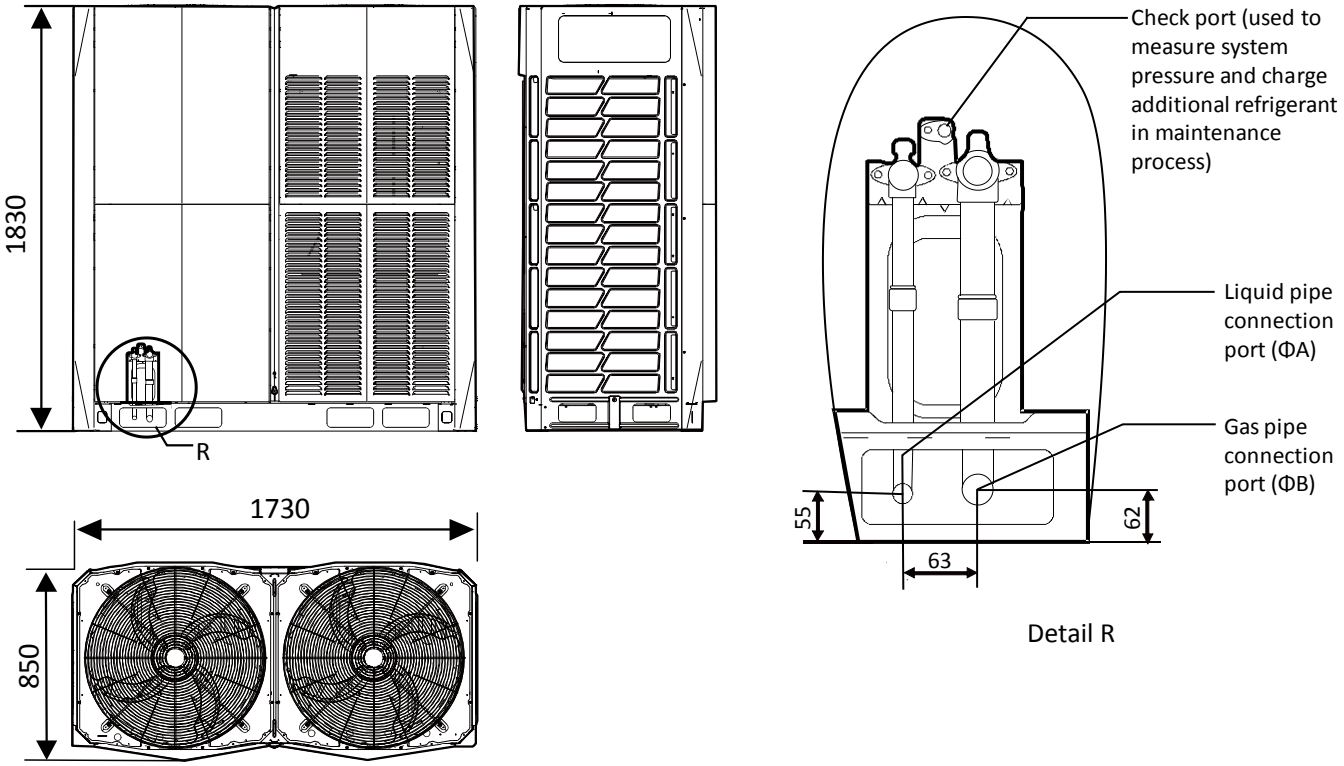

Table 2-2.4: 24/26/28/30/32HP connection piping diameter (unit: mm)

Size	24HP	26HP	28HP	30HP	32HP
A	Φ19.1	Φ22.2	Φ22.2	Φ22.2	Φ22.2
B	Φ31.8	Φ31.8	Φ31.8	Φ38.1	Φ38.1

Ducting for 24HP, 26HP, 28HP, 30HP and 32HP Units

3.3.7 Transverse ducting only

Figure 3-3.8: Transverse ducting for 24HP, 26HP, 28HP, 30HP and 32HP units (unit: mm))

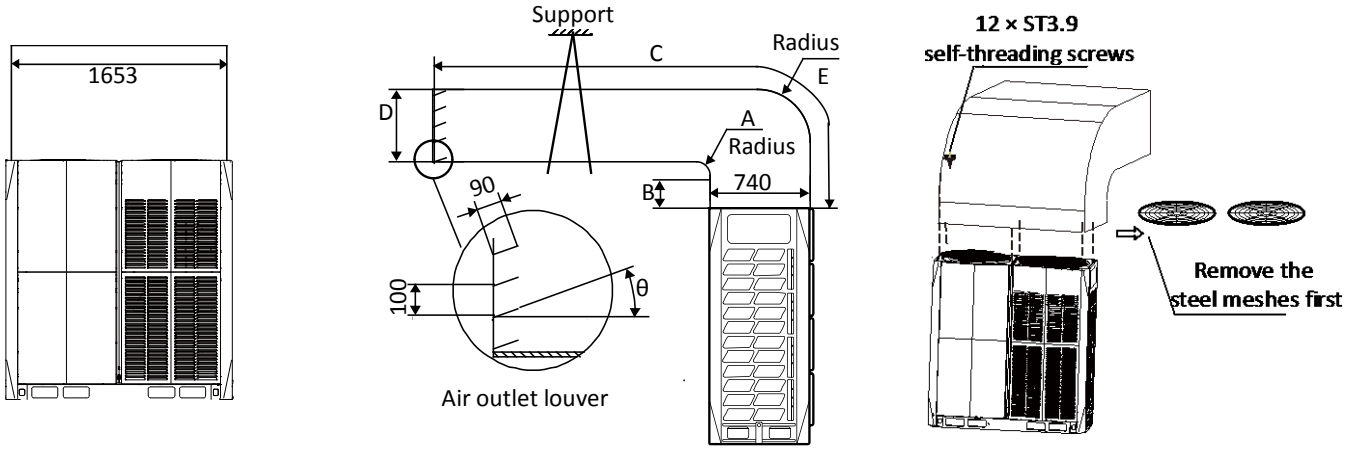

Table 3-3.13: Duct dimensions

Dimensions (mm)	
A	A ≥ 300
B	B ≥ 250
C	C ≤ 3000
D	740 ≤ D ≤ 770
E	E = A + 740
θ	Θ ≤ 15°

Table 3-3.14: External static pressure

ESP (Pa)	Remarks
0	Factory default
0 – 20	Remove steel mesh and connect to duct < 3m long
> 20	Customization option