

OMEGA Wall Mounted IDU

SUBMITTAL DATA

220-240V/1/50-60Hz

Job: _____
Location: _____
Schedule No.: _____
System Designation: _____

Engineer: _____
Architect: _____
Date: _____
For: **Reference** **Approval** **Review** **Construction**

FEATURES

- Washable Filter.
- Auto Restart.
- Auto Swing (Vertical).
- High-Efficiency DC Motor.
- Anti-Freezing Protection.
- Flare Connections.



1- Specifications

VEWM008Q0A-DWV022/ VEWM010Q0A-DWV028 / VEWM012Q0A-DWV036 / VEWM015Q0A-DWV045

Table 1.1: VEWM008(010,012,015)Q0A specifications

Model			VEWM008Q0A-DWV022	VEWM010Q0A-DWV028	VEWM012Q0A-DWV036	VEWM015Q0A-DWV045
Power supply			1 phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5
		kBtu/h	7.5	9.6	12.3	15.4
	Power input	W	28	28	30	40
Heating ²	Capacity	kW	2.4	3.2	4.0	5.0
		kBtu/h	8.2	10.9	13.6	17.1
	Power input	W	28	28	30	40
Fan motor	Model		ZKFP-20-8-6	ZKFP-20-8-6	ZKSP-58-8-1	ZKSP-58-8-1
	Type		DC			
Indoor coil	Number of rows		1	2	1	2
	Tube pitch × row pitch	mm	21×13.37			
	Fin spacing	mm	1.3			
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Φ9.53 Inner-groove			
	Dimensions (L×H×W)	mm	585×315×13.37	585×315×26.74	701×315×13.37	701×315×26.74
	Number of circuits		2	3	3	5
Air flow rate ³		m ³ /h	422/411/402/39 3/380/368/356	417/402/386/37 0/353/338/316	656/628/591/57 3/544/515/488	594/563/535/50 7/478/450/424
Sound pressure level ⁴		dB(A)	31/30/30/30/29/ 29/29	31/30/30/30/29/ 29/29	33/32/32/31/31/ 30/30	35/34/33/33/32/ 31/31
Unit	Net dimensions ⁵ (W×H×D)	mm	835×280×203		990×315×223	
	Packed dimensions (W×H×D)	mm	935×385×320		1085×420×335	
	Net/Gross weight	kg	8.4/12.1	9.5/13.1	11.4/15.5	12.8/16.9
Refrigerant type			R410A			
Throttle		Type	Electronic expansion valve			
Design pressure (H/L)		MPa	4.4/2.6			
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ16			

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

1- Specifications

VEWM019Q0A-DWV056 / VEWM024Q0A-DWV071 / VEWM027Q0A-DWV080 / VEWM031Q0A-DWV090
Table 1.2: VEWM019(024,027,031)Q0A specifications

Model			VEWM019Q0A-DWV056	VEWM024Q0A-DWV071	VEWM027Q0A-DWV080	VEWM031Q0A-DWV090
Power supply			1 phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	5.6	7.1	8.0	9.0
		kBtu/h	19.1	24.2	27.3	30.7
	Power input	W	45	55	55	82
Heating ²	Capacity	kW	6.3	8.0	9.0	10.0
		kBtu/h	21.5	27.3	30.7	34.1
	Power input	W	45	55	55	82
Fan motor	Model		ZKSP-58-8-1	ZKSP-60-8-3	ZKSP-60-8-3	ZKSP-60-8-3
	Type		DC			
Indoor coil	Number of rows		2			
	Tube pitch × row pitch	mm	21×13.37			
	Fin spacing	mm	1.3			
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Φ9.53 Inner-groove			
	Dimensions (L×H×W)	mm	701×315×26.74	825×399×26.74	825×399×26.74	825×399×26.74
	Number of circuits		5			
Air flow rate ³	m ³ /h	747/713/685/648 /613/578/547	1195/1130/1065/ 1005/940/875/80 9	1195/1130/1065/ 1005/940/875/80 9	1421/1300/1125/ 1067/1005/934/8 67	
Sound pressure level ⁴	dB(A)	38/37/36/36/35/3 4/34	44/43/42/39/38/3 7/36	44/43/42/39/38/3 7/36	48/46/45/43/41/4 0/38	
Unit	Net dimensions ⁵ (W×H×D)	mm	990×315×223	1194×343×262		
	Packed dimensions (W×H×D)	mm	1085×420×335	1290×375×460		
	Net/Gross weight	kg	12.8/16.9	17.0/22.4		
Refrigerant type			R410A			
Throttle	Type	Electronic expansion valve				
Design pressure (H/L)		MPa	4.4/2.6			
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9			
	Drain pipe	mm	OD Φ16			

Notes:

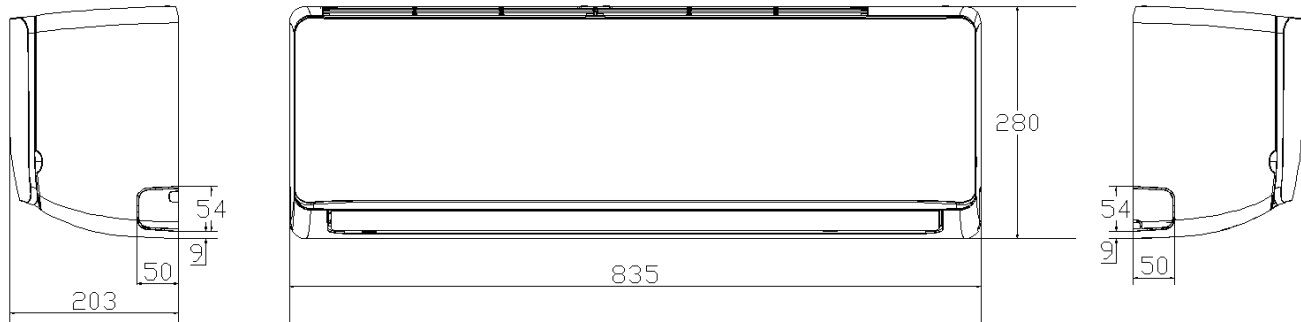
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

2-DIMENSIONAL DRAWINGS - (MM)

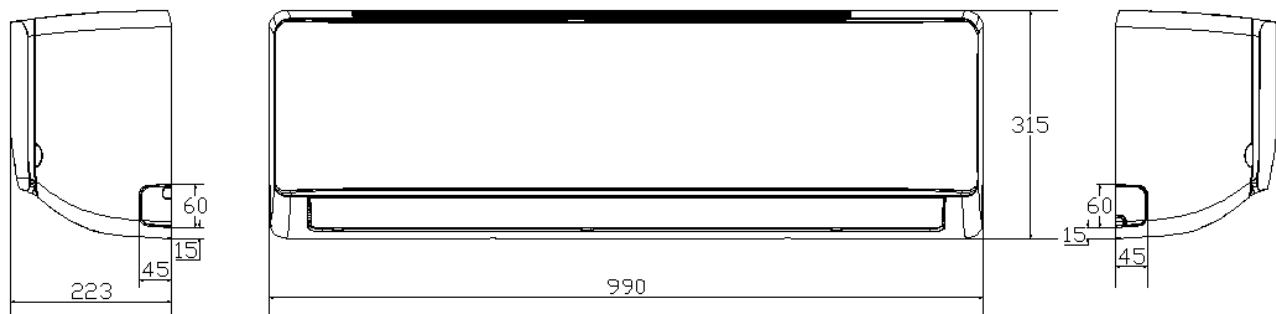
2.1 Unit Dimensions

Figure 2.1: Wall mounted dimensions (unit: mm)

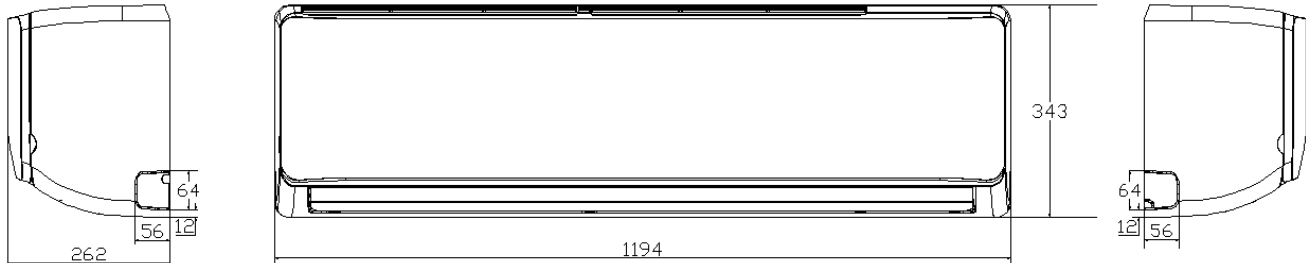
VEWM008Q0A-DWV022,VEWM010Q0A-DWV028



VEWM012Q0A-DWV036,VEWM015Q0A-DWV045,VEWM019Q0A-DWV056



VEWM024Q0A-DWV071,VEWM027Q0A-DWV080,VEWM031Q0A-DWV090



3- Unit Placement

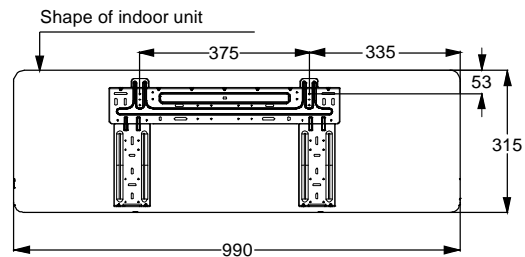
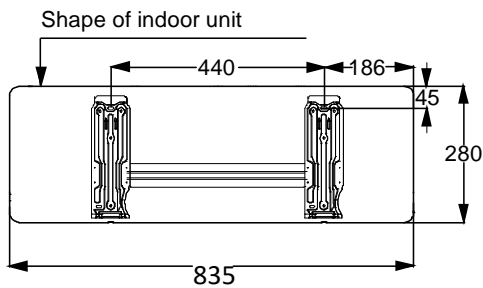
3 Unit Placement

3.1 Placement Considerations

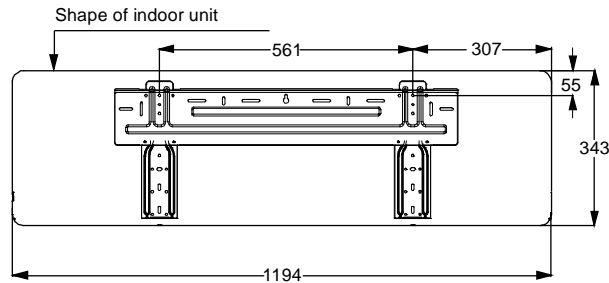
Unit placement should take account of the following considerations:

- Units should not be installed in the following locations:
 - electromagnetic radiation may occur.
 - Where dust or dirt may affect heat exchangers.
 - Where exposure to oil or to corrosive or harmful gases, such as acidic or alkaline gases, may occur.
 - Where exposure to salinity may occur, such as seaside locations.
 - Where highly flammable materials are present.
 - Where exposure to oily air may occur, such as a kitchen.
 - Where exposure to very high humidity may occur, such as a laundry.
- Units should be installed in positions where:

VEWM008Q0A-DWV022,VEWM010Q0A-DWV028 VEWM012Q0A-DWV036,VEWM015Q0A-DWV045,VEWM019Q0A-DWV056



VEWM024Q0A-DWV071,VEWM027Q0A-DWV080,VEWM031Q0A-DWV090



4-Electrical Characteristics

Table 4.1: Wall mounted electrical characteristics

Model	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
VEWM008Q0A-DWV022	50/60	220-240	198	264	0.32	15	0.02	0.25
VEWM010Q0A-DWV028	50/60	220-240	198	264	0.32	15	0.02	0.25
VEWM012Q0A-DWV036	50/60	220-240	198	264	0.45	15	0.058	0.36
VEWM015Q0A-DWV045	50/60	220-240	198	264	0.47	15	0.058	0.37
VEWM019Q0A-DWV056	50/60	220-240	198	264	0.58	15	0.058	0.46
VEWM024Q0A-DWV071	50/60	220-240	198	264	0.90	15	0.06	0.72
VEWM027Q0A-DWV080	50/60	220-240	198	264	0.90	15	0.06	0.72
VEWM031Q0A-DWV090	50/60	220-240	198	264	1.10	15	0.06	0.88

Abbreviations:

MCA: Minimum Circuit Amps

MFA: Maximum Fuse Amps

FLA: Full Load Amps



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