

OMEGA Floor Ceiling VRF

SUBMITTAL DATA

220-240V/1/50-60Hz

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

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

FEATURES

- Full DC Inverter Technologies
- Auto Restart
- Self Diagnosis Function
- Floor and Ceiling Installation
- Factory Tested
- Wide Airflow Range



1. Specifications

Specifications

VEFC012Q0A-DWV036 / VEFC015Q0A-DWV045 / VEFC019Q0A-DWV056 / VEFC024Q0A-DWV071
Table 1.1: Specifications

Model			VEFC012Q0A-DWV036	VEFC015Q0A-DWV045	VEFC019Q0A-DWV056	VEFC024Q0A-DWV071
Power supply			1 phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	3.6	4.5	5.6	7.1
		kBtu/h	12.3	15.4	19.1	24.2
	Power input	W	49	115	115	115
Heating ²	Capacity	kW	4.0	5.0	6.3	8.0
		kBtu/h	13.6	17.1	21.5	27.3
	Power input	W	49	115	115	115
Fan motor	Model		WZDK100-38GS-2			
	Type		DC			
	Brand		Panasonic/Match-Well			
	Speed ³	r/min	770/740/700/680 /650/630/610	1380/1330/1300/1260/ 1210/1140/1070	1380/1340/1300/1260/ 0/1190/1140/1120	
Indoor coil	Number of rows		2	3		
	Tube pitch × row pitch	mm	25.4×22			
	Fin spacing	mm	1.8			
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Φ9.53 Inner-groove			
	Dimensions (L×H×W)	mm	804×254×44	804×254×66		
	Number of circuits		3			
Air flow rate ³		m ³ /h	550/525/500/480 /460/440/420	800/750/700/650/600/550/500		
Sound pressure level ⁴		dB(A)	40/39/38/38/37 /36/36	43/42/41/41/39/38/38		
Unit	Net dimensions ⁵ (W×H×D)		990×660×203			
	Packed dimensions (W×H×D)		1089×744×296			
	Net/Gross weight		kg	27/33	28/34	
Refrigerant type			R410A			
Throttle	Type		Electronic expansion valve			
	Model		D20MISZ-1R(L)			
Design pressure (H/L)		MPa	4.4/2.6			
Pipe connections	Liquid/Gas pipe		mm		Φ6.35/Φ12.7	Φ9.53/Φ15.9
	Drain pipe		mm			

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

Model			VEFC027Q0A-DWV080	VEFC031Q0A-DWV090	VEFC038Q0A-DWV112	VEFC048Q0A-DWV140		
Power supply			1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	8.0	9.0	11.2	14.0		
		kBtu/h	27.2	30.7	38.2	47.8		
	Power input	W	130	130	180	180		
Heating ²	Capacity	kW	9.0	10.0	12.5	15.0		
		kBtu/h	30.7	34.1	42.7	51.2		
	Power input	W	130	130	180	180		
Fan motor	Model		WZDK100-38GS-1		WZDK100-38GS-2			
	Type		DC		DC			
	Brand		Panasonic/Match-Well					
	Speed ³	r/min	1300/1270/1230/1200/1160/1120/1090		1140/1090/1060/1040/1010/990/970			
Indoor coil	Number of rows		3					
	Tube pitch × row pitch	mm	25.4×22					
	Fin spacing	mm	1.8					
	Fin type		Hydrophilic aluminum					
	Tube OD and type	mm	Φ9.52 Inner-groove					
	Dimensions (L×H×W)	mm	1094×254×66		1360×254×66			
	Number of circuits		5					
Air flow rate ³		m ³ /h	1280/1245/1210/1170/1130/1085/1050		1890/1830/1765/1700/1660/1620/1580			
Sound pressure level ⁴		dB(A)	45/44/43/43/42/41/40		47/46/45/45/44/43/42			
Unit	Net dimensions ⁵ (W×H×D)		mm		1280×660×203		1670×680×244	
	Packed dimensions (W×H×D)		mm		1379×744×296		1915×760×330	
	Net/Gross weight		kg		35/41		48/58	
Refrigerant type			R410A					
Throttle	Type		Electronic expansion valve					
	Model		BD24FKS(L)					
Design pressure (H/L)		MPa	4.4/2.6					
Pipe	Liquid/Gas pipe	mm	Φ9.53/Φ15.9					
connections	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

Model			VEFC060Q0A-DWV160
Power supply			1 phase, 220-240V, 50/60Hz
Cooling ¹	Capacity	kW	16.0
		kBtu/h	54.6
	Power input	W	288
Heating ²	Capacity	kW	18.0
		kBtu/h	61.4
	Power input	W	288
Fan motor	Model		WZDK100-38GS-2
	Type		DC
	Brand		Panasonic/Match-Well
	Speed ³	r/min	1360/1330/1300/1260/1210/1160/1100
Indoor coil	Number of rows		3
	Tube pitch × row pitch	mm	25.4×22
	Fin spacing	mm	1.8
	Fin type		Hydrophilic aluminum
	Tube OD and type	mm	Φ9.52 Inner-groove
	Dimensions (L×H×W)	mm	1360×254×66
	Number of circuits		5
Air flow rate ³		m ³ /h	2300/2240/2180/2100/2005/1950/1800
Sound pressure level ⁴		dB(A)	50/49/48/47/46/45/44
Unit	Net dimensions ⁵ (W×H×D)	mm	1670×680×244
	Packed dimensions (W×H×D)	mm	1915×760×330
	Net/Gross weight	kg	48/58
Refrigerant type			R410A
Throttle	Type	Electronic expansion valve	
	Model	BD24FKS(L)	
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:

- 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.

2-DIMENSIONAL DRAWINGS - (MM)

Figure 2.1: Ceiling & floor dimensions (unit: mm)

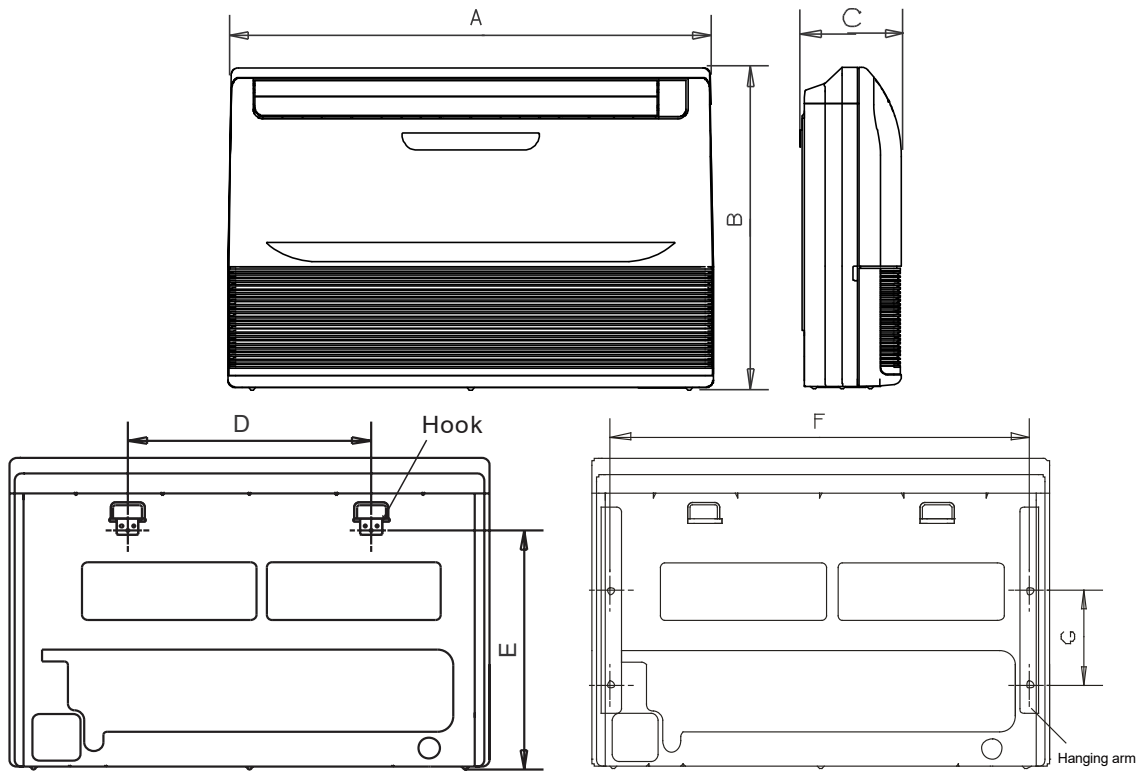


Table 2.1: Ceiling & floor dimensions

Model	Dimensions (mm)						
	A	B	C	D	E	F	G
VEFC012Q0A-DWV036 VEFC015Q0A-DWV045 VEFC019Q0A-DWV056 VEFC024Q0A-DWV071	990	660	203	505	506	907	200
VEFC027Q0A-DWV080 VEFC031Q0A-DWV090	1280	660	203	795	506	1195	200
VEFC038Q0A-DWV112 VEFC048Q0A-DWV140 VEFC060Q0A-DWV160	1670	680	244	1070	450	1542	200

Table 2.2: Ceiling & floor piping connections

Model	Gas pipe (mm)	Liquid pipe (mm)
VEFC012Q0A-DWV036 VEFC015Q0A-DWV045	Φ12.7	Φ6.35
VEFC019Q0A-DWV056 VEFC024Q0A-DWV071 VEFC027Q0A-DWV080 VEFC031Q0A-DWV090 VEFC038Q0A-DWV112 VEFC048Q0A-DWV140 VEFC060Q0A-DWV160	Φ15.9	Φ9.53

3-Electrical Characteristics

Table 3.1: Ceiling & floor electrical characteristics

Model	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
VEFC012Q0A-DWV036	50/60	220-240	198	264	0.45	15	0.10	0.35
VEFC015Q0A-DWV045	50/60	220-240	198	264	1.20	15	0.10	0.93
VEFC019Q0A-DWV056	50/60	220-240	198	264	1.20	15	0.10	0.95
VEFC024Q0A-DWV071	50/60	220-240	198	264	1.20	15	0.10	0.95
VEFC027Q0A-DWV080	50/60	220-240	198	264	1.30	15	0.10	1.10
VEFC031Q0A-DWV090	50/60	220-240	198	264	1.30	15	0.10	1.10
VEFC038Q0A-DWV112	50/60	220-240	198	264	1.70	15	0.10+0.10	0.65+0.65
VEFC048Q0A-DWV140	50/60	220-240	198	264	1.70	15	0.10+0.10	0.65+0.65
VEFC060Q0A-DWV160	50/60	220-240	198	264	1.80	15	0.10+0.10	0.65+0.65

Abbreviations:

MCA: Minimum Circuit Amps

MFA: Maximum Fuse Amps

FLA: Full Load Amps



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