

OMEGA Round Flow Cassette IDU

SUBMITTAL DATA

208-230V/1/60Hz

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

Engineer: _____
 Architect: _____
 Date: _____

For:	Reference	Approval	Review	Construction

FEATURES

- Build in Drain Pump
- Auto Restart
- Water Overflow Protection
- Washable Filter
- High-Efficiency DC Motor
- Round Flow Air Supply



1. Specifications

Model			VECR010Q0A-DWV028	VECR012Q0A-DWV036	VECR015Q0A-DWV045	
Power supply			1 phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	2.8	3.6	4.5	
		kBtu/h	9.6	12.3	15.4	
	Power input	W	40	45	50	
Heating ²	Capacity	kW	3.2	4.0	5.0	
		kBtu/h	10.9	13.6	17.1	
	Power input	W	40	45	50	
Fan motor	Type	DC motor				
	Number	1				
Indoor coil	Number of rows		1		2	
	Tube pitch × row pitch	mm	21×13.37			
	Fin spacing	mm	1.5			
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Φ7 Inner-groove			
	Dimensions (L×H ×W)	mm	1930×168×13.37		1961×168×26.74	
	Number of circuits		4		8	
Air flow rate ³		m ³ /h	801/751/711/658/637/611/542		893/866/804/744/714/698/635	
Sound pressure level ⁴		dB(A)	32/31/30/28/28/26/23		35/34/31/31/30/28/26	
Main body	Net dimensions ⁵ (W×H×D)		mm 840×230×840			
	Packed dimensions (W×H×D)		mm 955×260×955			
	Net/Gross weight		kg 21.3/25.8		23.2/27.6	
Panel	Net dimensions (W×H×D)		mm 950×70×950			
	Packed dimensions (W×H×D)		mm 1035×89×1035			
	Net/Gross weight		kg 5.8/7.9			
Refrigerant type			R410A			
Design pressure (H/L)		MPa	4.4/2.6			
Pipe connections	Liquid/Gas pipe		mm Φ6.35/Φ12.7			
	Drain pipe		mm OD Φ32			

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.
- 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 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

1. Specifications

Model			VECR019Q0A-DWV056	VECR024Q0A-DWV071	VECR027Q0A-DWV080
Power supply			1 phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	5.6	7.1	8.0
		kBtu/h	19.1	24.2	27.3
	Power input	W	60	70	96
Heating ²	Capacity	kW	6.3	8.0	9.0
		kBtu/h	21.5	27.3	30.7
	Power input	W	60	70	96
Fan motor	Type		DC motor		
	Number		1		
Indoor coil	Number of rows		2		
	Tube pitch × row pitch	mm	21×13.37		
	Fin spacing	mm	1.5		
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ7 Inner-groove		
	Dimensions (L×H×W)	mm	1961×168×26.74		
	Number of circuits		8		
Air flow rate ³		m ³ /h	893/866/804/744/714/ 698/635	977/937/864/800/778/ 738/671	1203/1131/1064/977/ 912/840/774
Sound pressure level ⁴		dB(A)	35/34/31/31/30/28/26	35/35/34/31/30/28/27	36/35/34/31/31/29/28
Main body	Net dimensions ⁵ (W×H×D)		mm 840×230×840		
	Packed dimensions (W×H×D)		mm 955×260×955		
	Net/Gross weight		kg 23.2/27.6		
Panel	Net dimensions (W×H×D)		mm 950×70×950		
	Packed dimensions (W×H×D)		mm 1035×89×1035		
	Net/Gross weight		kg 5.8/7.9		
Refrigerant type			R410A		
Design pressure (H/L)		MPa	4.4/2.6		
Pipe connections	Liquid/Gas pipe		mm Φ9.53/Φ15.9		
	Drain pipe		mm OD Φ32		

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.
- 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 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

1. Specifications

Model			VECR031Q0A-DWV090	VECR035Q0A-DWV100
Power supply			1 phase, 220-240V, 50/60Hz	
Cooling ¹	Capacity	kW	9.0	10.0
		kBtu/h	30.7	34.1
	Power input	W	100	150
Heating ²	Capacity	kW	10.0	11.0
		kBtu/h	34.1	37.5
	Power input	W	100	150
Fan motor	Type		DC motor	
	Number		1	
Indoor coil	Number of rows		2	2
	Tube pitch × row pitch	mm	21×13.37	
	Fin spacing	mm	1.5	
	Fin type		Hydrophilic aluminum	
	Tube OD and type	mm	Φ7 Inner-groove	
	Dimensions (L×H×W)	mm	1955×252×26.74	
	Number of circuits		12	
Air flow rate ³		m ³ /h	1349/1294/1230/1201/1111/1029/ 970	1700/1600/1440/1250/1200/1150 /1100
Sound pressure level ⁴		dB(A)	37/35/34/31/31/30/28	43/42/40/38/37/35/34
Main body	Net dimensions ⁵ (W×H×D)		mm 840×300×840	
	Packed dimensions (W×H×D)		mm 955×330×955	
	Net/Gross weight		kg 28.4/33.8	
Panel	Net dimensions (W×H×D)		mm 950×70×950	
	Packed dimensions (W×H×D)		mm 1035×89×1035	
	Net/Gross weight		kg 5.8/7.9	
Refrigerant type			R410A	
Design pressure (H/L)		MPa	4.4/2.6	
Pipe connections	Liquid/Gas pipe		mm Φ9.53/Φ15.9	
	Drain pipe		mm OD Φ32	

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.
- 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 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

1. Specifications

Model			VECR038Q0A-DWV112	VECR048Q0A-DWV140
Power supply			1 phase, 220-240V, 50/60Hz	
Cooling ¹	Capacity	kW	11.2	14.0
		kBtu/h	38.2	47.8
	Power input	W	160	170
Heating ²	Capacity	kW	12.5	16.0
		kBtu/h	42.7	54.6
	Power input	W	160	170
Fan motor	Type		DC motor	
	Number		1	
Indoor coil	Number of rows		2	3
	Tube pitch × row pitch	mm	21×13.37	
	Fin spacing	mm	1.5	
	Fin type		Hydrophilic aluminum	
	Tube OD and type	mm	Φ7 Inner-groove	
	Dimensions (L×H×W)	mm	1955×252×26.74	1955×252×40.11
	Number of circuits		12	12
Air flow rate ³		m ³ /h	1700/1600/1440/1250/1200/1150/1100	1800/1650/1500/1300/1250/1200/1150
Sound pressure level ⁴		dB(A)	43/42/40/38/37/35/34	45/44/42/41/40/39/37
Main body	Net dimensions ⁵ (W×H×D)		840×300×840	
	Packed dimensions (W×H×D)		955×330×955	
	Net/Gross weight		28.4/33.8	30.7/35.8
Panel	Net dimensions (W×H×D)		950×70×950	
	Packed dimensions (W×H×D)		1035×89×1035	
	Net/Gross weight		5.8/7.9	
Refrigerant type			R410A	
Design pressure (H/L)		MPa	4.4/2.6	
Pipe connections	Liquid/Gas pipe		Φ9.53/Φ15.9	
	Drain pipe		OD Φ32	

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. 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 1.4m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

1. Specifications

Model			VECR060Q0A-DWV160
Power supply			1 phase, 220-240V, 50/60Hz
Cooling ¹	Capacity	kW	16.0
		kBtu/h	54.5
	Power input	W	170
Heating ²	Capacity	kW	18.0
		kBtu/h	61.3
	Power input	W	170
Fan motor	Type	DC motor	
	Number	1	
Indoor coil	Number of rows		3
	Tube pitch × row pitch	mm	21×13.37
	Fin spacing	mm	1.5
	Fin type		Hydrophilic aluminum
	Tube OD and type	mm	Φ7 Inner-groove
	Dimensions (L×H×W)	mm	2200×252×40.11
	Number of circuits		12
Air flow rate ³		m ³ /h	2100/1950/1800/1750/1600/1450/1350
Sound pressure level ⁴		dB(A)	46/44/42/41/39/38/37
Main body	Net dimensions ⁵ (W×H×D)	mm	950×300×950
	Packed dimensions (W×H×D)	mm	1050×335×1050
	Net/Gross weight	kg	35.3/41.2
Panel	Net dimensions (W×H×D)	mm	1050×55×1050
	Packed dimensions (W×H×D)	mm	1115×100×1115
	Net/Gross weight	kg	7.4/9.7
Refrigerant type			R410A
Design pressure (H/L)		MPa	4.4/2.6
Pipe	Liquid/Gas pipe	mm	Φ9.53/Φ15.9
connections	Drain pipe	mm	OD Φ32

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. 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 1.4m below the unit 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)

- Models From VECR010 to VECR048

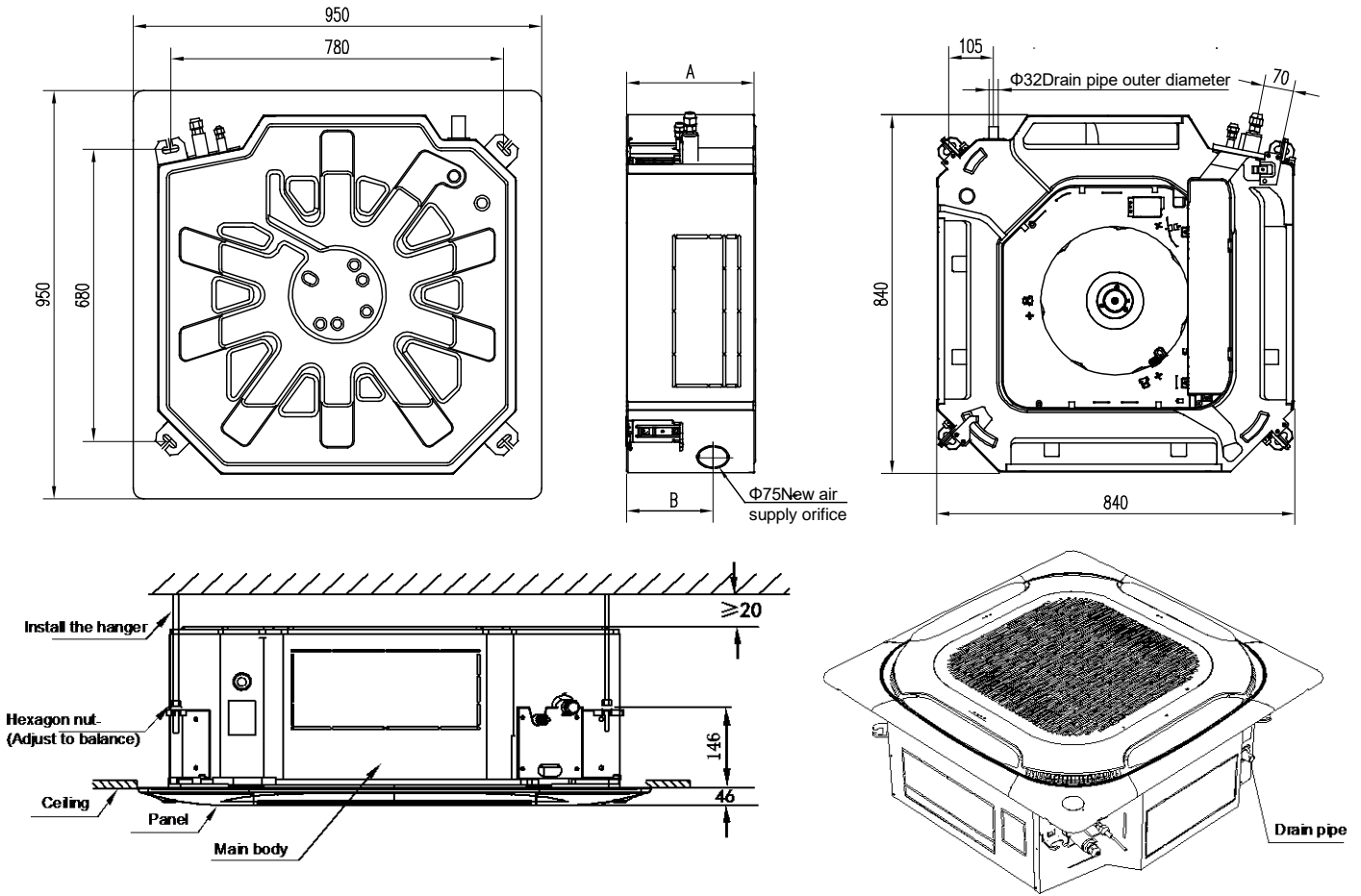
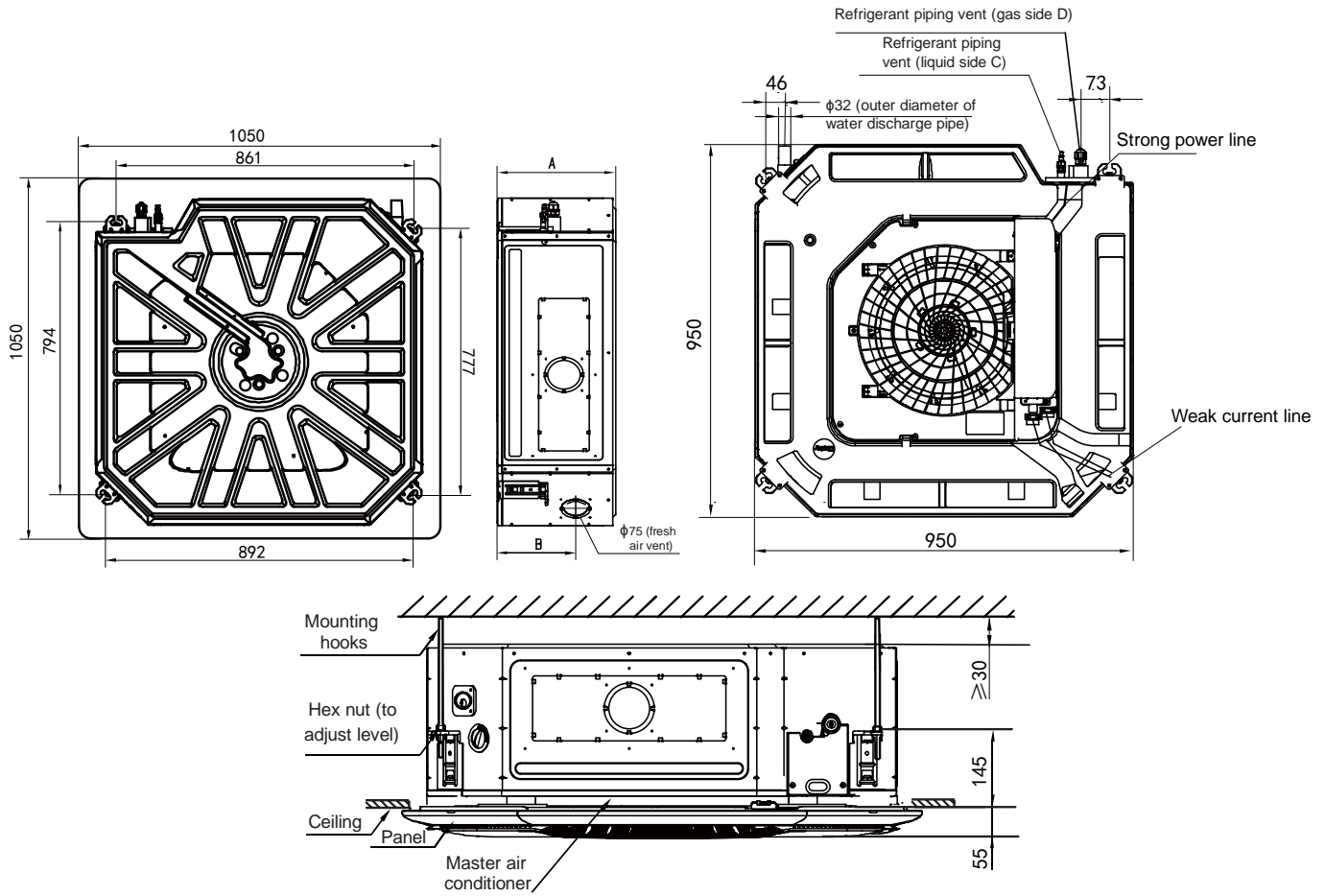


Table 2.1: Four-way Cassette dimensions

Model names	Dimensions (mm)	
	A	B
Models From VECR010Q0A to VECR027Q0A	230	126
Models From VECR031Q0A to VECR048Q0A	300	197

2-DIMENSIONAL DRAWINGS - (MM)

- Model VECR060



Round Flow Cassette dimensions

Model names	Dimensions (mm)	
	A	B
Model VECR060Q0A	300	200

3-Electrical Characteristics
Table 3.1: Round Flow Cassette electrical characteristics

Model name	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
VECR010Q0A-DWV028	50/60	220-240	198	264	0.41	15	0.08	0.33
VECR012Q0A-DWV036	50/60	220-240	198	264	0.41	15	0.08	0.33
VECR015Q0A-DWV045	50/60	220-240	198	264	0.56	15	0.08	0.45
VECR019Q0A-DWV056	50/60	220-240	198	264	0.56	15	0.08	0.45
VECR024Q0A-DWV071	50/60	220-240	198	264	0.56	15	0.08	0.45
VECR027Q0A-DWV080	50/60	220-240	198	264	0.76	15	0.08	0.61
VECR031Q0A-DWV090	50/60	220-240	198	264	0.88	15	0.17	0.70
VECR035Q0A-DWV100	50/60	220-240	198	264	1.00	15	0.17	0.80
VECR038Q0A-DWV112	50/60	220-240	198	264	1.00	15	0.17	0.80
VECR048Q0A-DWV140	50/60	220-240	198	264	1.20	15	0.17	0.96
VECR060Q0A-DWV160	50/60	220-240	198	264	1.26	15	0.09	1.01

Abbreviations:

MCA: Minimum Circuit Amps

MFA: Maximum Fuse Amps

FLA: Full Load Amps