

OMEGA MINI VRF ULTIMA

SUBMITTAL DATA

220~240V/1/50-60Hz

Job:

Location:

Schedule No.:

System Designation:

Engineer:

Architect:

Date:

For:	Reference	Approval	Review	Construction
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FEATURES

- Anti-Corrosion Protection
- Welding Free Branch Piping
- Automatic Fault Detection
- Cooling and Heating System
- Refrigerant-Cooled PCB Board
- Linear Capacity Match with IDU
- Intelligent Soft Start
- Full DC Inverter Technology



1.Specifications

BECW One-way Cassette Mini VRF Ultima

Model			BECW006N0A-DWV018	BECW008N0A-DWV022	BECW010N0A-DWV028	BECW012N0A-DWV036
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	1.8	2.2	2.8	3.6
		kBtu/h	6.0	7.0	9.0	12
	Power input	W	15	19	27	29
Heating ²	Capacity	kW	2.0	2.5	3.2	4.0
		kBtu/h	6.8	8	10	13
	Power input	W	15	19	27	29
Fan motor	Type		DC			
	Number		1			
Indoor coil	Number of rows		2	2	2	3
	Tube pitch × row pitch	mm	18×10.72	18×10.72	18×10.72	18×10.72
	Fin spacing	mm	1.35	1.35	1.35	1.35
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Φ5 Inner-groove			
	Dimensions (L×H×W)	mm	530×216×21.44	530×216×21.44	730×216×21.44	730×216×32.16
	Number of circuits		1	1	4	6
Air flow rate ³		m³/h	300/283/266/250/233/216/200	400/375/350/325/300/275/250	550/516/483/450/416/383/350	
Sound pressure level ⁴		dB(A)	28/27/26/26/25/24/24	32/31/30/29/28/27/26	33/32/31/30/29/28/27	36/34/33/32/30/29/28
Sound power level ⁴		dB(A)	35/34/33/32/31/30/29	43/42/39/37/35/33/31	45/44/43/41/39/37/35	48/46/44/42/40/38/36
Main body	Net dimensions ⁵ (W×H×D)	mm	700×178×425		900×178×425	
	Net dimensions(no water tray)(W×H×D)	mm	700×130×425		900×130×425	
	Packed dimensions (W×H×D)	mm	880×225×510		1080×225×510	
	Net/Gross weight	kg	9.6/11.9		11.2/13.8	12.2/14.7
Panel	Net dimensions (W×H×D)	mm	980×64×475		1180×64×475	
	Packed dimensions (W×H×D)	mm	1070×100×560		1270×100×560	
	Net/Gross weight	kg	2.4/4.4		3/5.2	
Refrigerant type			R410A/R32			
Design pressure (H/L)		MPa	4.4/2.6			
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			
	Drainpipe	mm	OD Φ25			

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 rates 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 anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

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BECW One-way Cassette Mini VRF Ultima

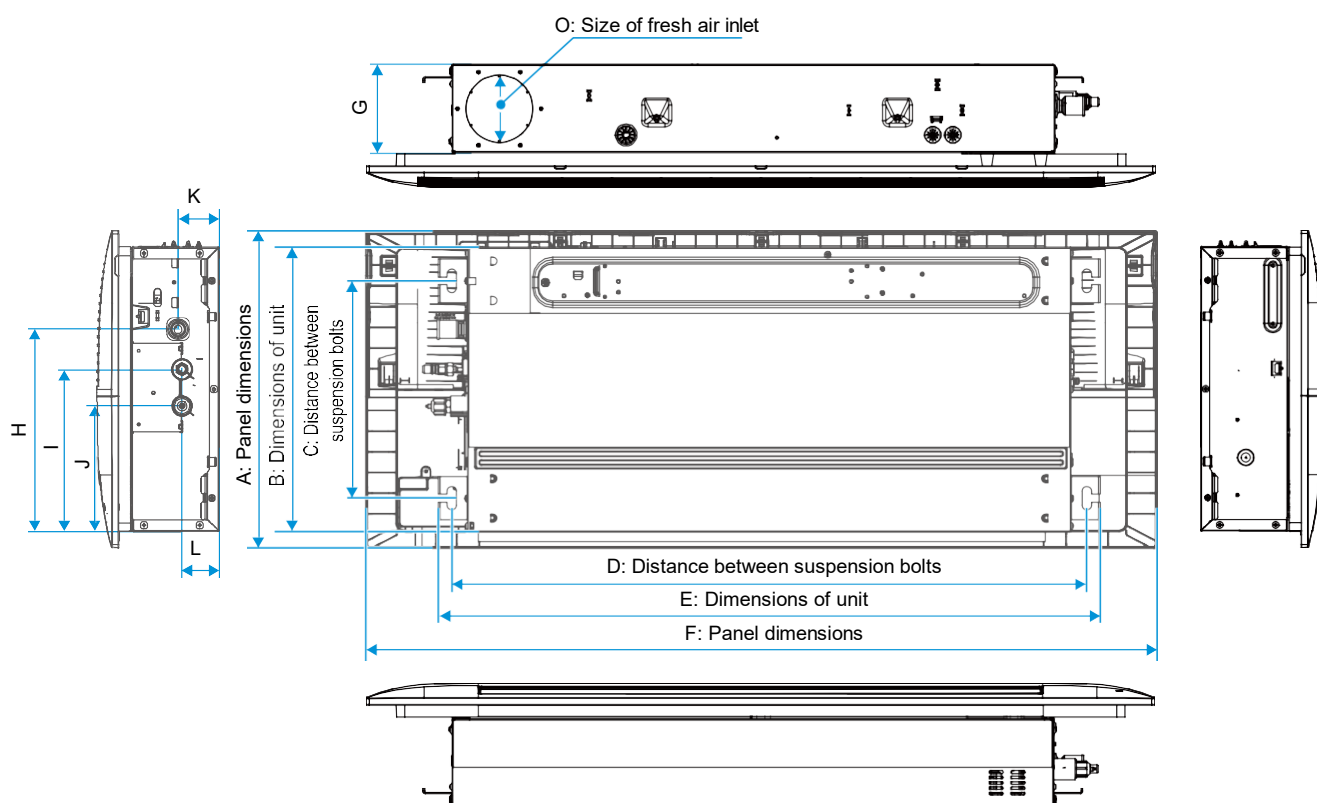
Model			BECW015N0A-DWV045	BECW019N0A-DWV056	BECW024N0A-DWV071
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	4.5	5.6	7.1
		kBtu/h	15	19	24
	Power input	W	30	40	52
Heating ²	Capacity	kW	5.0	6.3	8.0
		kBtu/h	17	21	27
	Power input	W	30	40	52
Fan motor	Type		DC		
	Number		1		
Indoor coil	Number of rows		2	3	3
	Tube pitch × row pitch	mm	18×10.72	18×10.72	18×10.72
	Fin spacing	mm	1.35	1.35	1.35
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ5 Inner-groove		
	Dimensions (L×H×W)	mm	1030×216×21.44	1030×216×32.16	
	Number of circuits		6	6	6
Air flow rate ³		m³/h	850/791/733/675/616/558/500	1000/941/883/825/766/708/650	1050/1000/950/900/850/800/750
Sound pressure level ⁴		dB(A)	39/37/36/35/33/32/31	44/42/41/40/38/37/36	47/45/44/43/42/41/40
Sound power level ⁴		dB(A)	49/47/45/43/41/39/37	55/53/51/49/47/45/43	56/55/54/52/50/48/46
Main body	Net dimensions ⁵ (W×H×D)	mm	1200×178×425		
	Net dimensions(no water tray)(W×H×D)	mm	1200×130×425		
	Packed dimensions (W×H×D)	mm	1280×225×510		
	Net/Gross weight	kg	14.3/17.7	15.5/18.8	
Panel	Net dimensions (W×H×D)	mm	1480×64×475		
	Packed dimensions (W×H×D)	mm	1570×100×560		
	Net/Gross weight	kg	3.8/6.5		
Refrigerant type			R410A/R32		
Design pressure (H/L)		MPa	4.4/2.6		
Pipe	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.52/Φ15.9
connections	Drainpipe	mm	OD Φ25		

Notes:

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- 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 rates are from the highest speed to the lowest speed, total 7 rates for each model.
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- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

2 Dimensional Drawings - (MM)

Figure 2.1: Unit dimensions (unit: mm)

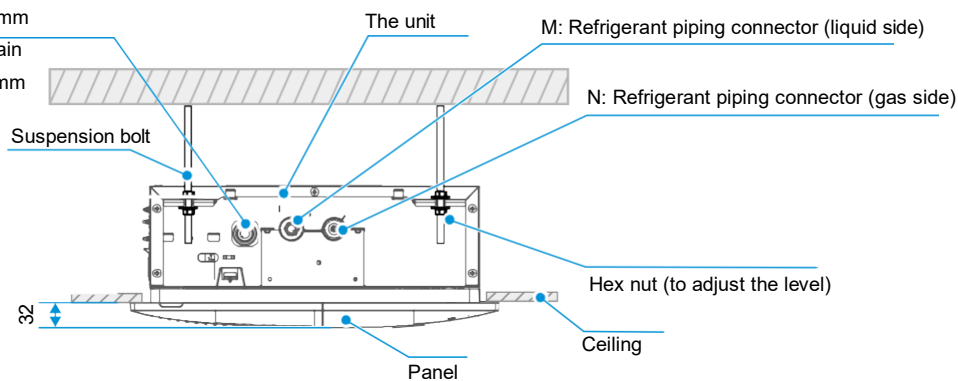


Inner diameter of the rubber

water outlet joint: Φ 25 mm

Outer diameter of the drain

connecting pipe: Φ 29 mm



Capacity(kW)	A	B	C	D	E	F	G	H	I	J	K
$\text{kW} \leq 2.2$	475	425	325	746	786	980	130	303	243	188	60
$2.2 < \text{kW} \leq 3.6$	475	425	325	946	986	1180	130	303	243	188	60
$3.6 < \text{kW} \leq 7.1$	475	425	325	1 246	1 286	1 480	130	303	243	188	60

3-Electrical Characteristics
Electrical Characteristics
One-way Cassette electrical characteristics

Model name	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (W)	FLA
BECW006N0A-DWV018	50/60	220-240	198	242	0.39	15	13	0.31
BECW008N0A-DWV022	50/60	220-240	198	242	0.43	15	13	0.35
BECW010N0A-DWV028	50/60	220-240	198	242	0.52	15	13	0.41
BECW012N0A-DWV036	50/60	220-240	198	242	0.53	15	13	0.43
BECW015N0A-DWV045	50/60	220-240	198	242	0.66	15	35	0.53
BECW019N0A-DWV056	50/60	220-240	198	242	0.91	15	35	0.72
BECW024N0A-DWV071	50/60	220-240	198	242	1.06	15	35	0.85

Abbreviations:

MCA: Minimum Circuit Amps

MFA: Maximum Fuse Amps

FLA: Full Load Amps



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