

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

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

BECM Mini VRF Ultima

Model			BECM006N0A-DWV018	BECM008N0A-DWV022	BECM010N0A-DWV028	BECM012N0A-DWV036
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	1.5	2.2	2.8	3.6
		kBtu/h	5	7	9	12
	Power input	W	14	14	16	18
Heating ²	Capacity	kW	1.8	2.4	3.2	4.0
		kBtu/h	6	8	10	13
	Power input	W	14	14	16	18
Fan motor type			DC			
Indoor coil	Number of rows		1	1	1	2
	Tube pitch × row pitch	mm	18×10.72			
	Fin spacing and type	mm	1.2 Hydrophilic aluminum			
	Tube OD and type	mm	Φ5 Inner-groove			
	Dimensions (L×H×W)	mm	1360×180×10.72			1333×180×21.44
	Number of circuits		3	3	3	5
Air flow rate ³		m ³ /h	470/441/406/380/349/315/293		542/506/477/444/409/374/341	517/484/449/417/383/348/315
Sound pressure level ⁴		dB(A)	30/28/26/24/22/20/19		33/31/30/28/26/24/21	32/30/29/27/25/23/20
Main body	Net dimensions ⁵ (W×H×D)	mm	575×240×575			
	Packed dimensions (W×H×D)	mm	690×285×690			
	Net/Gross weight	kg	13/15			14/16
Panel	Net dimensions ⁷ (W×H×D)	mm	620×65×620			
	Packed dimensions (W×H×D)	mm	680×80×665			
	Net/Gross weight	kg	2.3/3.0			
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 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 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.
- Sound power level is from highest level to lowest level, total 7 levels for each model.
- The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.
- Exposed height of the panel after being installed on the ceiling.

1. Specifications

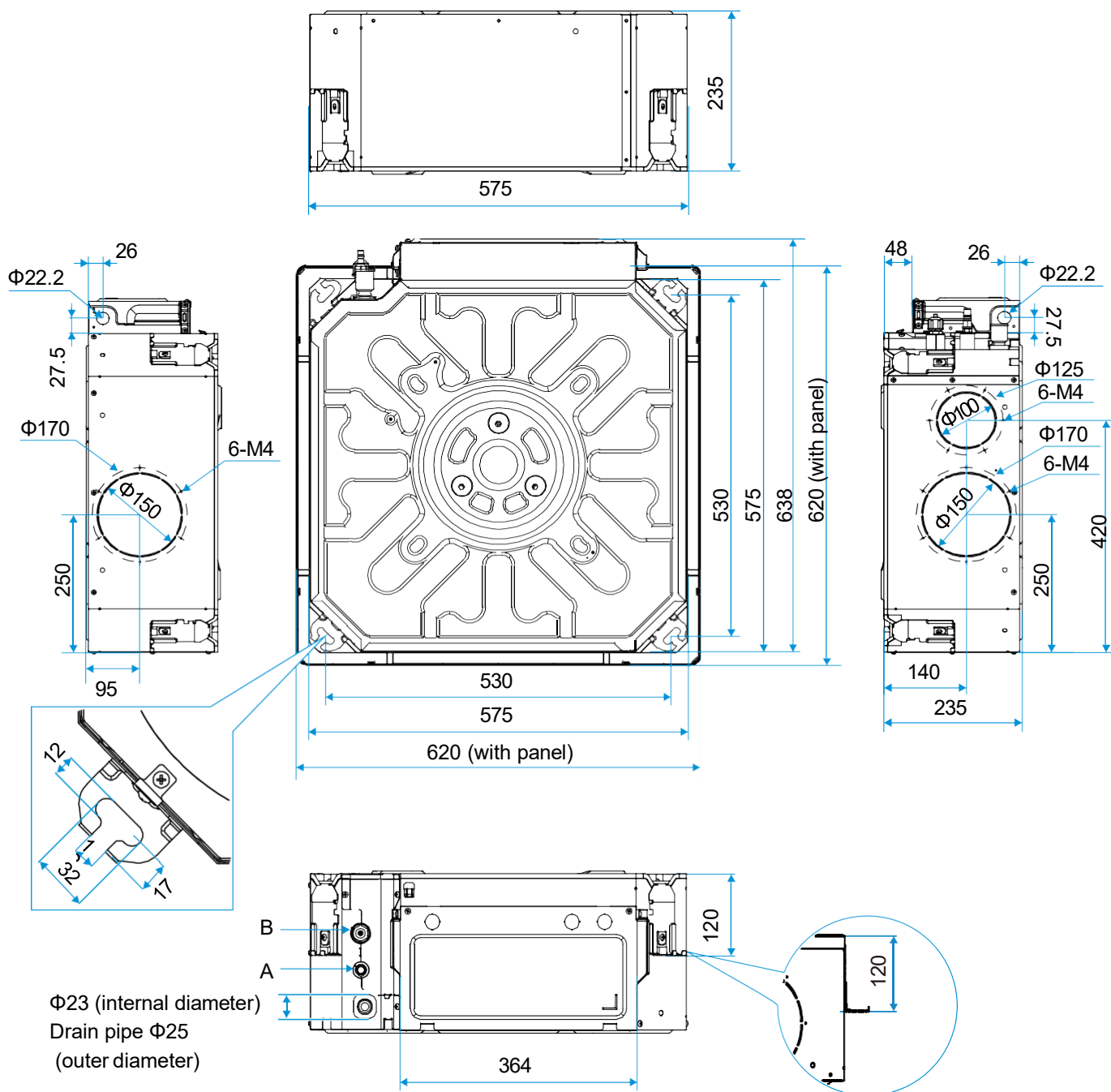
BECM Mini VRF Ultima

Model			BECM015N0A-DWV045	BECM019N0A-DWV056	BECM022N0A-DWV063
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	4.5	5.6	6.3
		kBtu/h	15	18	21
	Power input	W	25	35	50
Heating ²	Capacity	kW	5.0	6.3	7.1
		kBtu/h	17	21	24
	Power input	W	25	35	50
Fan motor type			DC		
Indoor coil	Number of rows		2	3	3
	Tube pitch × row pitch	mm	18×10.72		
	Fin spacing and type	mm	1.2 Hydrophilic aluminum		
	Tube OD and type	mm	Φ5 Inner-groove		
	Dimensions (L×H×W)	mm	1333×180×21.44	1305×180×32.16	
	Number of circuits		5	5	5
Air flow rate ³		m ³ /h	650/608/569/526/ 484/444/405	794/741/692/641/591/ 540/490	901/848/790/736/678/6 23/569
Sound pressure level ⁴		dB(A)	37/36/34/32/30/28/26	43/41/40/38/36/34/31	46/45/43/42/39/37/35
Main body	Net dimensions ⁶ (W×H×D)	mm	575×240×575		
	Packed dimensions (W×H×D)	mm	690×285×690		
	Net/Gross weight	kg	14/16	15/17	
Panel	Net dimensions (W×H×D)	mm	620×65×620		
	Packed dimensions (W×H×D)	mm	680×80×665		
	Net/Gross weight	kg	2.3/3.0		
Refrigerant type			R410A		
Design pressure (H/L)		MPa	4.4/2.6		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.52/Φ15.9
	Drain pipe	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 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.
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2 Dimensional Drawings - (MM)



Capacity (kBtu/h)	A: Connect to refrigerant piping (liquid side)	B: Connect to refrigerant piping (gas side)
kBtu/h $\leq$ 18	$\Phi 6.35$	$\Phi 12.7$
18<kBtu/h $\leq$ 21	$\Phi 9.52$	$\Phi 15.9$

3-Electrical Characteristics

Electrical Characteristics

Compact Four-way Cassette electrical characteristics

Model name	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
BECM006N0A-DWV018	50/60	220-240	198	264	0.46	15	0.045	0.37
BECM008N0A-DWV022	50/60	220-240	198	264	0.46	15	0.045	0.37
BECM010N0A-DWV028	50/60	220-240	198	264	0.54	15	0.045	0.43
BECM012N0A-DWV036	50/60	220-240	198	264	0.54	15	0.045	0.43
BECM015N0A-DWV045	50/60	220-240	198	264	0.61	15	0.045	0.49
BECM019N0A-DWV056	50/60	220-240	198	264	0.65	15	0.045	0.52
BECM022N0A-DWV063	50/60	220-240	198	264	0.81	15	0.045	0.65

Abbreviations:

MCA: Minimum Circuit Amps

MFA: Maximum Fuse Amps

FLA: Full Load Amps

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