

OMEGA MINI VRF ULTIMA

SUBMITTAL DATA

220~240V/1/50-60Hz

Job:

Location:

Schedule No.:

System Designation:

Engineer:

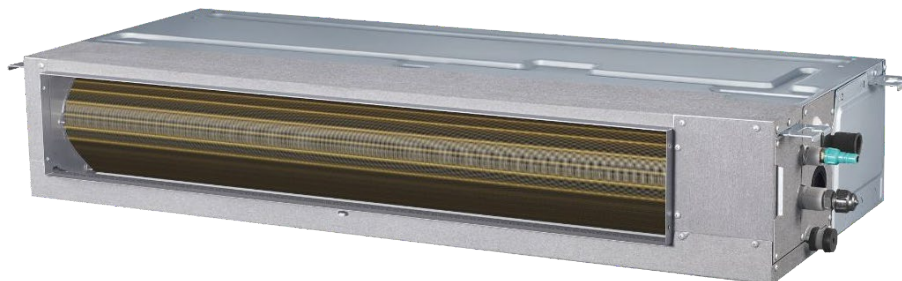
Architect:

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

BELP Ducted VRF Ultima

BELP006 (007,008,010) specifications

Model			BELP006N0A-DCV018	BELP007N0A-DCV020	BELP008N0A-DCV022	BELP010N0A-DCV028
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	1.5	1.8	2.2	2.8
		kBtu/h	5.1	6.1	7.5	9.6
	Power input	W	28	28	28	28
Heating ²	Capacity	kW	1.8	2.2	2.5	3.2
		kBtu/h	6.1	7.5	8.9	10.9
	Power input	W	28	28	28	28
Fan motor type			DC			
Indoor coil	Number of rows ³		2&3	2&3	2&3	2&3
	Tube pitch ³	mm	14&18			
	Fin spacing and type	mm	1.32 Hydrophilic aluminum			
	Tube OD and type	mm	Φ5 Inner-groove			
	Dimensions (L×H×W)	mm	380×170×95			
	Number of circuits		4	4	4	4
Air flow rate ⁴		m ³ /h	465/432/407/381/ 352/321/301	465/432/407/381/ /352/321/301	465/432/407/381/ 352/321/301	465/432/407/381/ /352/321/301
External static pressure ⁵		Pa	10 (10-50)			
Sound pressure level ⁶		dB(A)	33/31/30/29/27/ 26/25	33/31/30/29/27/ 26/25	33/31/30/29/27/ 26/25	33/31/30/29/27/ 26/25
Unit	Net dimensions ⁷ (W×H×D)	mm	550×199×450			
	Packed dimensions (W×H×D)	mm	715×275×525			
	Net/Gross weight	kg	11/13.5			
Refrigerant type			R410A/R32			
Throttle type			Electronic expansion valve			
Design pressure (H/L)		MPa	4.4/2.6			
Pipe	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			
connections	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.
- Ultima Duct adopts a brand-new special-shaped heat exchanger with different number of rows and different Tube pitch at different positions.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in an anechoic chamber.
- 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.
- All specifications are measured at standard external static pressure.
- G1 air filter is standard for Ultima Duct.

1. Specifications

BELP Ducted VRF Ultima

BELP012 (015,019,024) specifications

Model			BELP012N0A-DCV036	BELP015N0A-DCV045	BELP019N0A-DCV056	BELP024N0A-DCV071
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	31	43	58	65
Heating ²	Capacity	kW	4	5	6.3	8
		kBtu/h	13.7	17.1	21.5	27.3
	Power input	W	31	43	58	65
Fan motor type			DC			
Indoor coil	Number of rows ³		2&3	2&3	2&3	2&3
	Tube pitch ³	mm	14&18			
	Fin spacing and type	mm	1.32 Hydrophilic aluminum			
	Tube OD and type	mm	Φ5 Inner-groove			
	Dimensions (L×H×W)	mm	530×170×95	730×170×95		930×170×95
	Number of circuits		4	6	6	8
Air flow rate ⁴		m ³ /h	603/547/502/456/ 407/361/321	820/722/687/624 /558/514/435	893/779/743/655/ 581/560/472	1118/999/928/84 0/750/664/578
External static pressure ⁵		Pa	10 (10-50)			
Sound pressure level ⁶		dB(A)	32/30/29/27/25/23/ 22	34/32/31/30/29/ 25/23	38/35/34/31/29/28 /26	38/35/33/31/29/ 27/25
Unit	Net dimensions ⁷ (W×H×D)	mm	700×199×450	900×199×450		1100×199×450
	Packed dimensions (W×H×D)	mm	865×275×525	1065×275×525		1300×275×525
	Net/Gross weight	kg	13/15.5	16.5/19.5		19.5/23
Refrigerant type			R410A/R32			
Throttle type			Electronic expansion valve			
Design pressure (H/L)		MPa	4.4/2.6			
Pipe	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.52/Φ15.9	
connections	Drain pipe	mm	OD Φ25			

Notes:

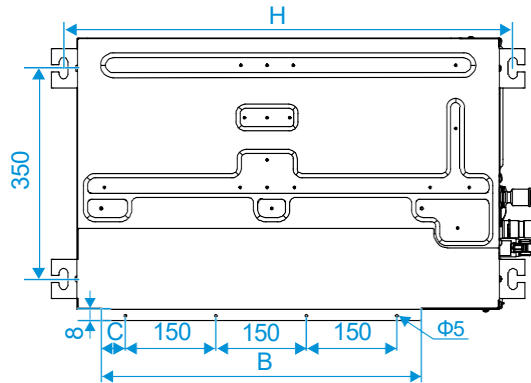
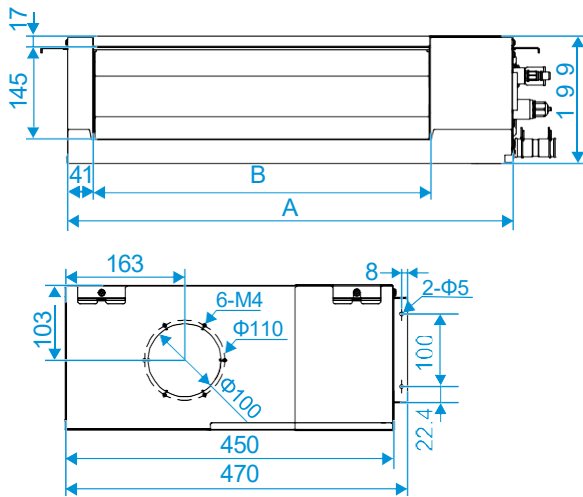
- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Ultima Duct adopts a brand-new special-shaped heat exchanger with different numbers of rows and different Tube pitches at different positions.
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2 Dimensional Drawings - (MM)

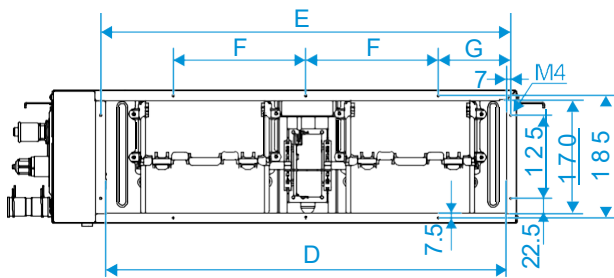
External dimension, air outlet size, and size of fresh air outlet: (unit: mm)

kBtu/h ≤ 24:

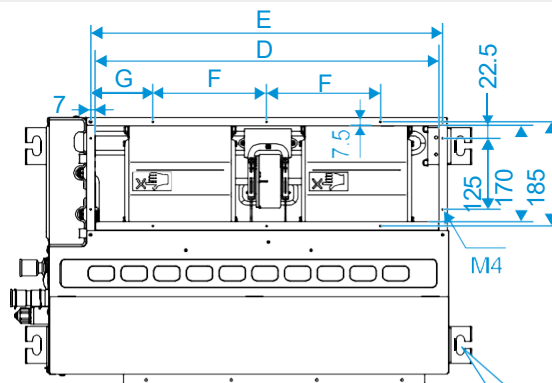
External dimension, air outlet size, and size of fresh air outlet:



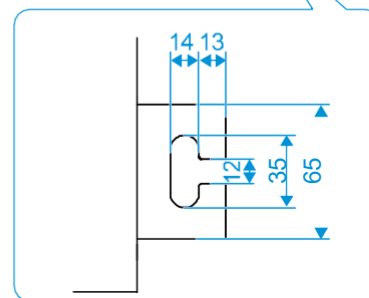
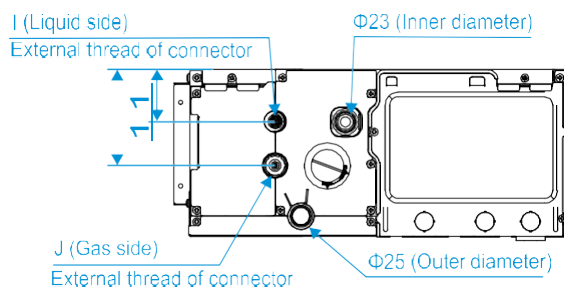
Size of return air inlet (back return air mode):



Size of return air inlet (bottom return air mode), and the distance between the lugs:



Dimension of pipe and water pipe:



Capacity (kBtu/h)	A	B	C	D	E	F	G	H	I	J
kBtu/h ≤ 09	550	380	40	455	469	250	109.5	595		
09 < kBtu/h ≤ 12	700	530	40	605	619	200	109.5	745	7/16-20 UNF	3/4-16 UNF
12 < kBtu/h ≤ 18	900	730	65	805	819	200	109.5	945		
18 < kBtu/h ≤ 24	1 100	930	15	1 005	1 019	200	109.5	1 145	5/8-18 UNF	7/8-14 UNF

3-Electrical Characteristics

Ultima Duct electrical characteristics

Model name	Power supply						Indoor Fan Motor	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (W)	FLA
BELP006N0A-DCV018	50/60	220-240	198	264	0.88	15	20	0.70
BELP007N0A-DCV020	50/60	220-240	198	264	0.88	15	20	0.70
BELP008N0A-DCV022	50/60	220-240	198	264	0.88	15	20	0.70
BELP010N0A-DCV028	50/60	220-240	198	264	0.88	15	20	0.70
BELP012N0A-DCV036	50/60	220-240	198	264	0.94	15	20	0.75
BELP015N0A-DCV045	50/60	220-240	198	264	1.10	15	30	0.85
BELP019N0A-DCV056	50/60	220-240	198	264	1.10	15	30	0.85
BELP024N0A-DCV071	50/60	220-240	198	264	1.20	15	50	0.94

Abbreviations:

MCA: Minimum Circuit Amps

MFA: Maximum Fuse Amps

FLA: Full Load Amps



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