

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

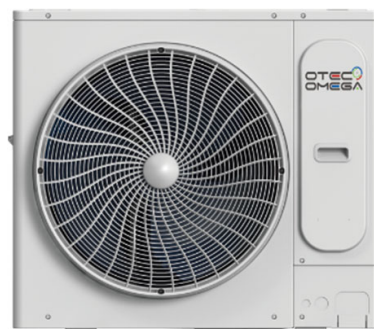
FEATURES

- 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

Models: 27~41 Kbtu/h



Models: 47~59 Kbtu/h



1.Specifications

BCHC Mini VRF Ultima

Model			BCHC030N0A4-DTM090	BCHC040N0A6-DTM115	BCHC050N0A7-DTM140
Power supply		V-Ph-Hz	220-240/1/ 50(60)		
Cooling ¹	Capacity	kBtu/h	27	34	41
		kW	8	10	12
	Input	kW	2.00	2.55	3.87
	EER	kW/ KW	4.00	3.92	3.87
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity		
	Quantity		1~4	1~6	1~7
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
	Oil type		RB75EA	RB75EA	RB75EA
Fan	Motor type		DC motor	DC motor	DC motor
	Quantity		1	1	1
	Output	W	80	80	170
Sound pressure level ²		dB(A)	51	52	54
Net dimensions (W×H×D)		mm	910 x 712 x 345	910 x 712 x 345	910 x 712 x 345
Packed dimensions (W×H×D)		mm	1048 x 810 x 485	1048 x 810 x 485	1048 x 810 x 485
Net weight		kg	45.5	48.5	51
Gross weight		kg	51.5	52.5	55
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	g	1330	1560	1850
	Throttle type		Electronic expansion valve		
Pipe connection ³	Liquid pipe	mm	Φ9.52	Φ9.52	Φ9.52
	Gas pipe	mm	Φ15.9	Φ15.9	Φ15.9
Ambient Temp. operation range	Cooling	°C	-15~55 ⁴		

Notes:

1. The cooling conditions: indoor temp: 27 °C DB, 19 °C WB outdoor temp: 35 °C DB, equivalent pipe length: 5m drop length: 0m.
2. Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
3. Diameters given are those of the unit's stop valves.
4. When the cooling ambient temperature is below -5°C, the capacity of the IDU must be limited to at least 30% of the capacity of the combined capacity of ODU.
5. The above data may be changed without notice for future improvement on quality and performance.

1. Specifications

BCHC Mini VRF Ultima

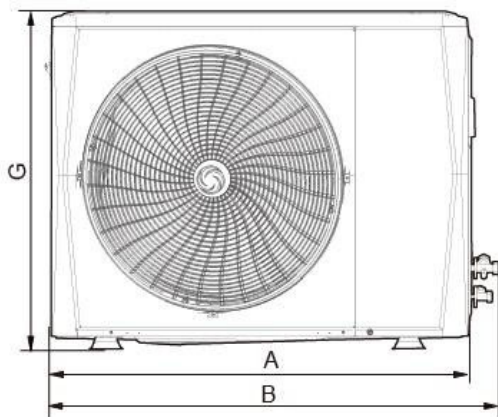
Model			BCHC060N0A8-DTM160	BCHC070N0A9-DTM190	BCHC080N0A9-DTM200
Power supply		V-Ph-Hz	220-240/1/ 50(60)		
Cooling ¹	Capacity	kBtu/h	47	54	59
		kW	14	16	17.5
	Input	kW	3.88	4.80	5.20
	EER	kW/ kW	3.61	3.33	3.37
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity		
	Quantity		1~8	1~9	1~9
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
	Oil type		RB75EA	RB75EA	RB75EA
Fan	Motor type		DC motor	DC motor	DC motor
	Quantity		1	1	1
	Output	W	170	170	170
Sound pressure level ²		dB(A)	56	56	57
Net dimensions (W×H×D)		mm	950 x 840 x 360	950 x 840 x 360	950 x 840 x 360
Packed dimensions (W×H×D)		mm	1025 x 950 x 510	1025 x 950 x 510	1025 x 950 x 510
Net weight		kg	63	69	70
Gross weight		kg	74.5	80.5	81.5
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	g	2350	2450	2850
	Throttle type		Electronic expansion valve		
Pipe connections ³	Liquid pipe	mm	Φ9.52	Φ9.52	Φ9.52
	Gas pipe	mm	Φ15.9	Φ15.9	Φ15.9
Ambient Temp. operation range	Cooling	°C	-15~55 ⁴		

Notes:

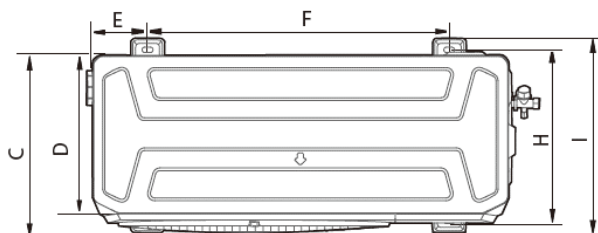
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- Diameters given are those of the unit's stop valves.
- When the cooling ambient temperature is below -5°C, the capacity of the IDU must be limited to at least 30% of the capacity of the combined capacity of ODU.
- The above data may be changed without notice for future improvement in quality and performance.

2 Dimensional Drawings - (MM)

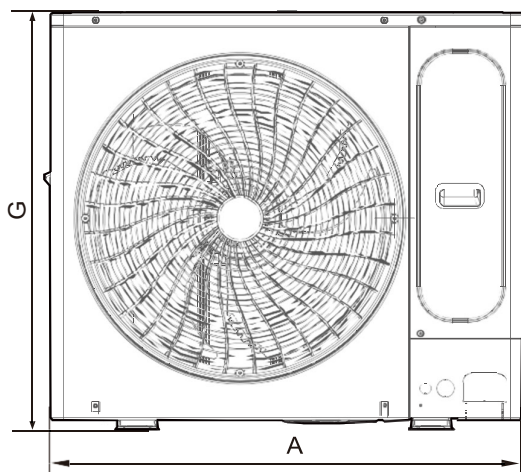
Model 28/36/42 Front view dimensions



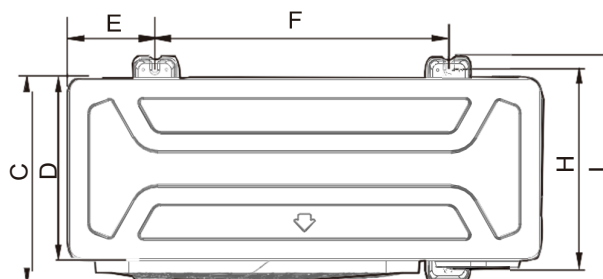
Model 28/36/42 Top view dimensions



Model 48/56/60 Front view dimensions

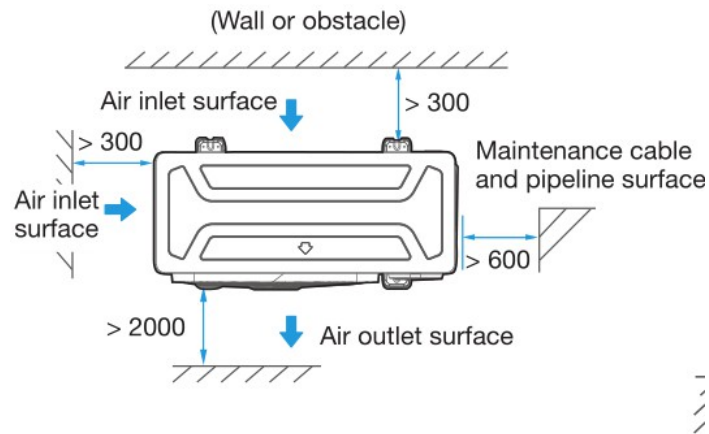


Model 48/56/60 Top view dimensions

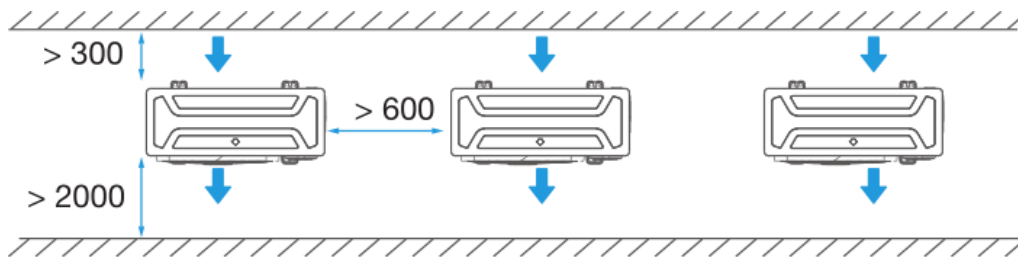


Model	A	B	C	D	E	F	G	H	I
28/36/42	920	982	395	346	121	664	712	375	427
48/56/60	950	/	410	360	175	590	840	390	440

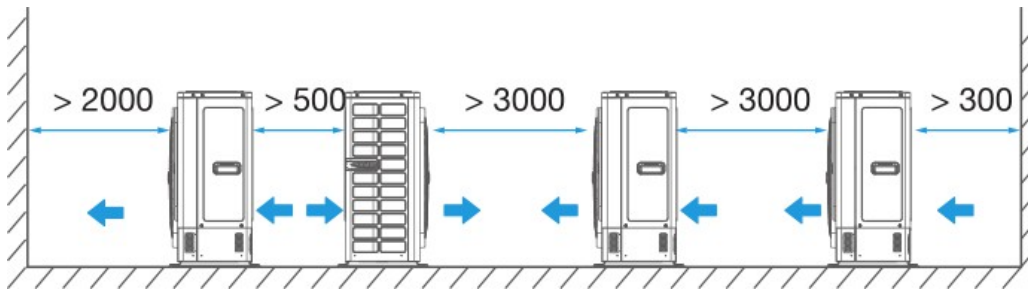
2 Dimensional Drawings - (MM)



Multiple unit installation top view (unit: mm)



Multiple unit installation side view (unit: mm)



3-Electrical Characteristics

Electrical Characteristics

Outdoor unit electrical characteristics

Model	Power Supply ¹							Compressor		OFM	
	Hz	Volts	Min.	Max.	MCA ²	TOCA ³	MFA ⁴	MSC ⁵	RLA ⁶	kW	FLA
			volts	volts							
BCHC030N0A4-DTM090	50/60Hz	220-240	198	264	19	19	25	-	17.1	0.08	1.0
BCHC040N0A6-DTM115	50/60Hz	220-240	198	264	24	24	32	-	22	.08	1.0
BCHC050N0A7-DTM140	50/60Hz	220-240	198	264	29	29	32	-	27.4	0.08	1.0
BCHC060N0A8-DTM160	50/60Hz	220-240	198	264	33	33	40	-	30.5	0.17	1.5
BCHC070N0A9-DTM190	50/60Hz	220-240	198	264	33	33	40	--	30.5	0.17	1.5
BCHC080N0A9-DTM200	50/60Hz	220-240	198	264	33	33	40		30.5	0.17	1.5

Abbreviations:

MCA: Minimum Circuit Amps; TOCA: Total Over-current Amps; MFA: Maximum Fuse Amps; MSC: Maximum Starting Current (A); RLA: Rated Load Amps; FLA: Full Load Amps

Notes:

1. Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits. Maximum allowable voltage variation between phases is 2%.
2. Select wire size based on the value of MCA.
3. TOCA indicates the total overcurrent amps value of each OC set.
4. MFA is used to select overcurrent circuit breakers and residual-current circuit breakers.
5. MSC indicates the maximum current on compressor start-up in amps.
6. RLA is based on the following conditions: indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB.



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