

OMEGA MINI VRF ULTIMA

SUBMITTAL DATA

220~240V/1/50-60Hz

Job:

Location:

Schedule No.:

System Designation:

Engineer:

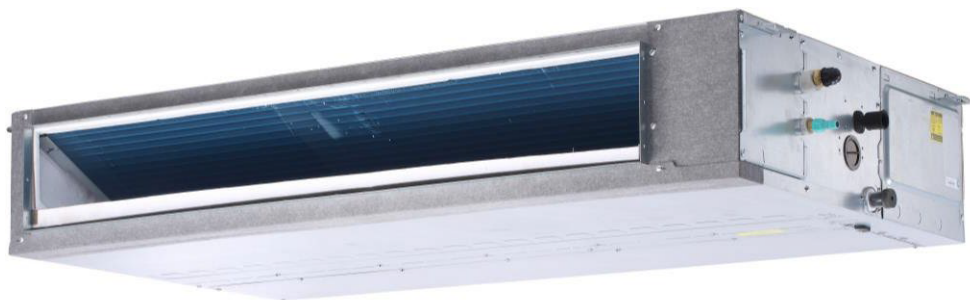
Architect:

Date:

For:	Reference	Approval	Review	Construction
------	-----------	----------	--------	--------------

FEATURES

- | | | | |
|--------------------------------|---|-----------------------------|---|
| • Anti-Corrosion Protection | • | • Automatic Fault Detection | • |
| • Refrigerant-Cooled PCB Board | • | • Intelligent off tart | • |



1.Specifications

BEMP (HP) Medium Static Pressure Duct VRF Ultima

BEMP028 (031,038) specifications

Model			BEMP028N0A-DCV080	BEMP031N0A-DCV090	BEMP038N0A-DCV112
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	8	9	11.2
		kBtu/h	27.3	30.7	38.2
	Power input	W	106	108	115
Heating ²	Capacity	kW	9	10	12.5
		kBtu/h	30.7	34.1	42.7
	Power input	W	106	108	115
Fan motor type			DC		
Indoor coil	Number of rows		2	2	3
	Tube pitch	mm	18×10.72		
	Fin spacing and type	mm	1.35 Hydrophilic aluminum		
	Tube OD and type	mm	Φ5 Inner-groove		
	Dimensions (L×H×W)	mm	850×21.44×360	850×21.44×360	1200×32.16×360
	Number of circuits		10	10	10
Air flow rate ³		m ³ /h	1457/1344/1233/1121/ 1088/896/785	1585/1465/1348/1231/ 1113/996/878	1656/1536/1418/1300 /1180/1062/945
External static pressure ⁴		Pa	40 (10-160)	40 (10-160)	40 (10-160)
Sound pressure level ⁵		dB(A)	38/36/34/33/31/29/28	40/38/36/34/32/30/28	41/39/37/35/33/31/29
Unit	Net dimensions ⁶ (W×H×D)	mm	1050×245×750	1050×245×750	1050×245×750
	Packed dimensions (W×H×D)	mm	1215×305×885	1215×305×885	1215×305×885
	Net/Gross weight	kg	30/33	30/33	31/34.5
Refrigerant type			R410A		
Throttle type			Electronic expansion valve		
Design pressure (H/L)		MPa	4.4/2.6		
Pipe	Liquid/Gas pipe	mm	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.
- 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 Medium Static Pressure Duct.

1. Specifications

BEMP (HP) Medium Static Pressure Duct VRF Ultima

BEMP042 (048,060) specifications

Model			BEMP042N0A-DCV125	BEMP048N0A-DCV140	BEHP060N0A-DCV160
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	12.5	14	16
		kBtu/h	42.7	47.8	54.6
	Power input	W	170	172	210
Heating ²	Capacity	kW	14	16	18
		kBtu/h	47.8	54.6	61.4
	Power input	W	170	172	210
Fan motor type			DC		
Indoor coil	Number of rows		2	3	3
	Tube pitch	mm	18×10.72		
	Fin spacing and type	mm	1.35 Hydrophilic aluminum		
	Tube OD and type	mm	Φ5 Inner-groove		
	Dimensions (L×H×W)	mm	1200×32.16×360	1200×32.16×360	1200×32.16×360
	Number of circuits		10		
Air flow rate ³		m ³ /h	2177/2020/1866/1711/ 1554/1400/1246	2098/1948/1798/1649/ 1499/1349/1199	2350/2160/2015/1871/ 1776/1533/1400
External static pressure ⁴		Pa	50 (10-160)		
Sound pressure level ⁵		dB(A)	44/42/40/38/36/34/32	42/40/38/36/34/32/31	42/40/38/36/34/33/31
Unit	Net dimensions ⁶ (W×H×D)	mm	1400×245×750	1400×245×750	1400×245×750
	Packed dimensions (W×H×D)	mm	1565×305×885	1565×305×885	1565×305×885
	Net/Gross weight	kg	37/41	37/41	37/41
Refrigerant type			R410A		
Throttle type			Electronic expansion valve		
Design pressure (H/L)		MPa	4.4/2.6		
Pipe	Liquid/Gas pipe	mm	Φ9.52/Φ15.9		
connections	Drain pipe	mm	OD Φ25		

Notes:

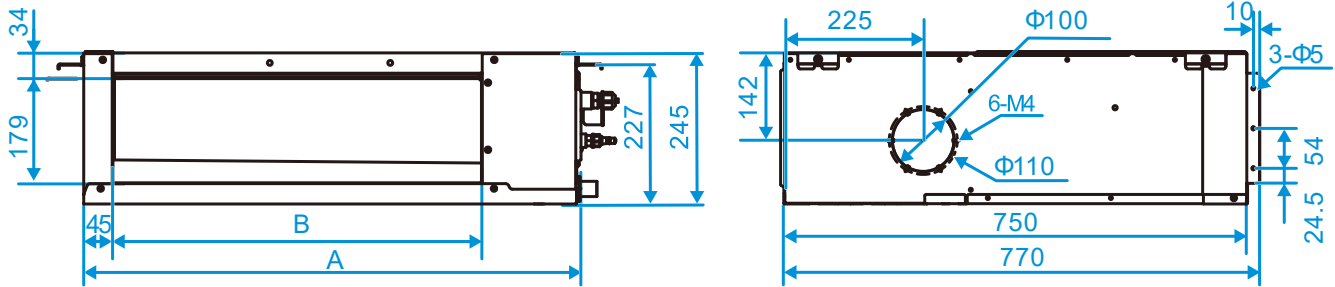
- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow 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 Medium Static Pressure Duct.

2 Dimensional Drawings - (MM)

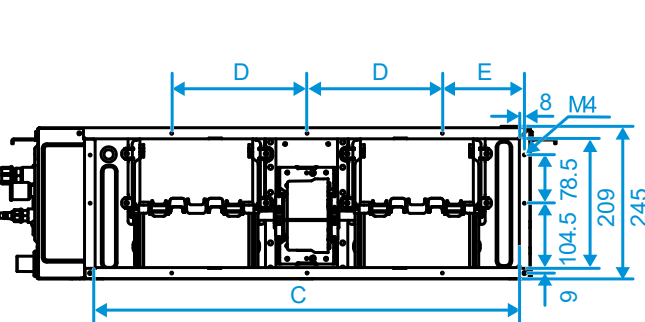
Unit Dimensions

$28 \leq \text{kBtu/h} \leq 48$:

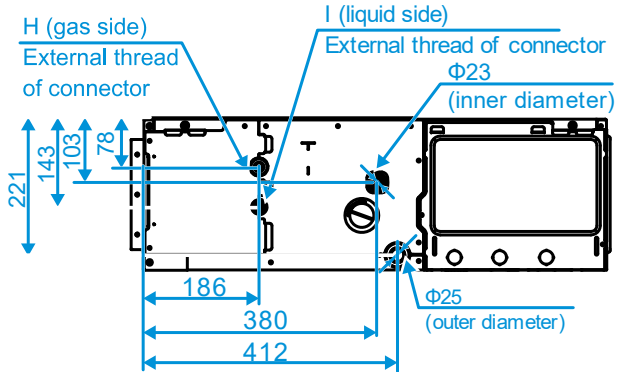
External dimension, air outlet size, and size of fresh air outlet:



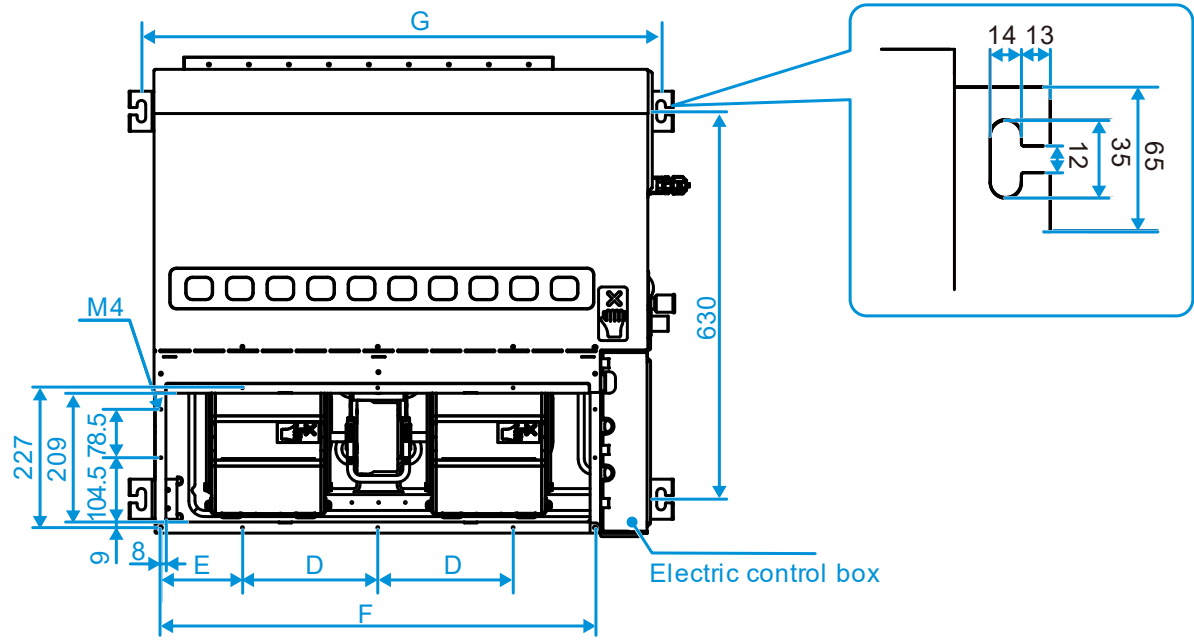
Size of return air inlet (back return air mode):



Dimension of pipe and water pipe:



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



Capacity (kBtu/h)	A	B	C	D	E	F	G	H	I
$28 \leq \text{kBtu/h} \leq 40$	1 050	850	940	220	146	956	1 095	7/8-14 UNF	5/8-18 UNF
$42 \leq \text{kBtu/h} \leq 48$	1 400	1 200	1 290	220	213	1 306	1 445	7/8-14 UNF	5/8-18 UNF

3-Electrical Characteristics

Model name	Power supply						Indoor Fan Motor
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated power output (W)
BEMP028N0A-DCV080	50/60	220-240	198	264	1.50	15	240
BEMP031N0A-DCV090	50/60	220-240	198	264	1.63	15	240
BEMP038N0A-DCV112	50/60	220-240	198	264	2.29	15	240
BEMP042N0A-DCV125	50/60	220-240	198	264	2.29	15	240
BEMP048N0A-DCV140	50/60	220-240	198	264	2.31	15	240
BEHP060N0A-DCV160	50/60	220-240	198	264	2.76	15	240

OMEGA
ENVIRONMENTAL
TECHNOLOGIES LLC.

11380 Interchange Circle North
Miramar, FL 33025 .USA
Tel: (305) 731-2140
Fax: (954) 212-8280
info@otecomega.com
www.otecomega.com

OTECTM
AIR CONDITIONING

Showroom & Technology Center

11380 Interchange Circle North
Miramar, FL 33025 .USA
Tel: (305) 731-2140
Fax: (954) 212-8280
info@otecomega.com
www.otecomega.com

