VRF ULTIMA

OMEGA VRF TECHNOLOGY

INVERTER TECHNOLOGY EXPERT

Engineered to elevate efficiency and comfort .....
..... to the next level!

BCHC-D Ultima SERIES

220-240V/1/50-60 Hz (Full DC)
MINI VRF Outdoor Unit
With Anti-Corrosion Protection *(Optional)*

System Cooling Capacity Min~Max: 13,650 ~ 77,600 BTU/h (4.0~22.7 kW)

Product Features

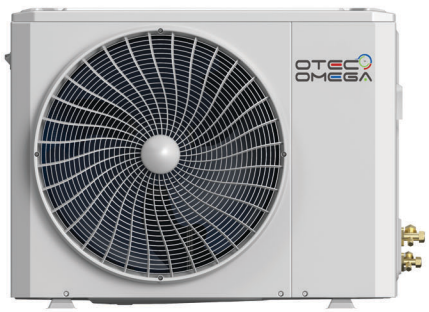
- Cooling and Heating System
- Full DC Inverter Technologies.
- Full Flare Branch Pipe Kits (2 to 6 Ports).
- Up to 9 Indoor Units can be Connected.
- Non-polarity communication wiring.
- Factory-Tested up to 55°C/131°F Ambient.
- Ultra-Long Piping Runs Up to 330 ft.
- Automatic Address Setting .
- Small Installation Space.

Outdoor Unit Features

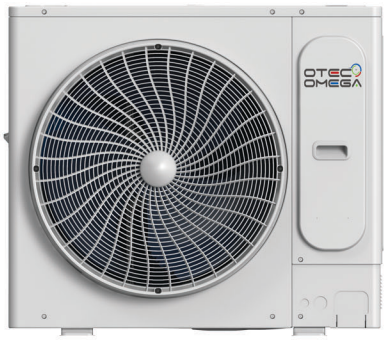
- Low-Noise Design with Single DC Fan Motor.
- Precise Oil Control Technology.
- Refrigerant-Cooled PCB Board.
- High-Efficiency Digital PFC Control.
- Wider Operation Condition Range.
- Compressor Oil Storage Technology.
- Four-Direction Piping Connection.
- Automatic Fault Detection.

Anti-Corrosion Protection

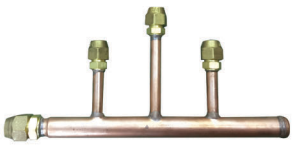
- **Anti-Corrosion** Coating on the Casing.
- **Anti-Corrosion** BLUE FIN Condenser.
- **Anti-Corrosion** Coating on Motor Bracket.
- **Anti-Corrosion** Coating for Electronic Control Box.
- **Dacromet-Coated** Screws.
- **Conformal PCB Coating** for Corrosion Protection.

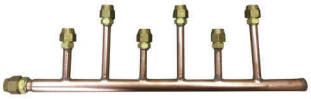


8.0 ~12.3 kW



14.0 ~ 17.5 kW





OMEGA

eco FRIENDLY R410A REFRIGERANT

DC INVERTER

ISO 14001 ISO 9001

OTEC AIR CONDITIONING

A Product of OMEGA Environmental Technologies LLC.

Notes:
Design, specifications and model numbers listed is subject to change without notice.
Certifications and emblems shown are applicable to selected models only. Please contact Omega for details.

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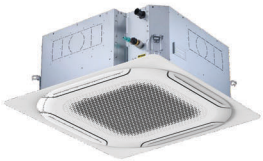
VRF ULTIMA Outdoor Unit

MODEL NO.	BCHC	030N0A4-DTM090	040N0A6-DTM115	050N0A7-DTM140	060N0A8-DTM160	070N0A9-DTM190	080N0A9-DTM200
Nominal System Cooling with Indoor Unit Ratio @ 100% BTU/h (kW)		27,300 (8.0)	34,100 (10.0)	40,900 (12.0)	47,800 (14.0)	54,600 (16.0)	59,700 (17.5)
EER @ 100% IDU	BTU/h / W (W / W)	13.6 (4.00)	13.4 (3.92)	13.2 (3.87)	12.3 (3.61)	11.4 (3.33)	11.5 (3.37)
System Maximum Cooling with Indoor Units Ratio @ 130% BTU/h (kW)		35,490 (10.4)	44,330 (13.0)	53,170 (15.6)	62,140 (18.3)	70,980 (20.8)	77,610 (22.8)
EER @ Max Cooling	BTU/h / W (W / W)	14.22 (4.2)	13.91 (4.1)	13.65 (4.0)	12.62 (3.7)	11.6 (3.4)	11.9 (3.5)
System Minimum Cooling with Indoor Units Ratio @ 50% BTU/h (kW)		13,650 (4.0)	17,050 (5.0)	20,450 (6.0)	23,900 (7.0)	27,300 (8.0)	29,850 (8.8)
EER @ Minumum Cooling	BTU/h / W (W / W)	17.4 (5.1)	17.4 (5.1)	17.1 (5.0)	15.7 (4.6)	14.7 (4.3)	17.4 (5.1)
Maximum Indoor Units Connectable per Module		4	6	7	8	9	9
Coil Type		Grooved Cooper Tubes - Hydrophilic Aluminum Fin					
DC Fan Motor	Type	Axial Fan - Direct Drive					
	Qty	1	1	1	1	1	1
	Motor (FLA) each	1.0	1.0	1.0	1.5	1.5	1.5
	Noise Level Hi (dbA)	51	52	54	56	56	57
Electrical	Voltage-Phase	208~230V - 1Ph					
	Frequency	N/A - 3D					
	Rated Input / Cooling (kW)	2.00	2.55	3.87	3.88	4.80	5.20
	Rated Current / Cooling (A)	9.6	12.3	18.6	18.7	23.1	29.4
	Comp. Rated Load Amps (RLA)	17.1	22	27.4	30.5	30.5	30.5
	Compressor Power Input (W)	1920	2470	2790	3710	4630	5030
	Minimum Circuit Amps (MCA)	19.0	24.0	29.0	33.0	33.0	33.0
	Maximum Fuse Amps (MOCP)	25	30	30	40	40	40
Refrigerant Charge R410A (oz / kgs)		45.8 / 1.3	54.9 / 1.56	65.12 / 1.85	82.72 / 2.35	86.24 / 2.45	100.32 / 2.85
Refrigerant Connections inches (mm)	Type	Flare					
	Liquid	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Suction	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)
Farthest Indoor Pipe Length ft (m)		115.5 (35)		148.5 (45)	198 (60)		
Maximum Total Pipe Length ft (m)		231 (70)		297 (90)	429 (130)		
Height Difference between IDU & ODU ft (m)		32.8 (10) & 32.8 (10)		65.6 (20) & 65.6 (20)	98.4 (30) & 65.6 (20)		
Dimensions inches (mm)	Height	28 (712)	28 (712)	28 (712)	33 (840)	33 (840)	33 (840)
	Width	35 13/16 (910)	35 13/16 (910)	35 13/16 (910)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)
	Depth	13 5/8 (345)	13 5/8 (345)	13 5/8 (345)	14 1/4 (360)	14 1/4 (360)	14 1/4 (360)
Net Weight Lbs (kgs)		100.3 (45.5)	106.9 (48.5)	112.4 (51)	138.9 (63)	152.1 (69)	154.3 (70)

Applicable Indoor Units

BEWM



BECR

BECW

BECM

BEFC

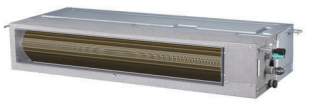
Wired Controller
VAECR-D086SW (Standard)

Deluxe Wired Controller
VAECD-D086HB (Optional)

Wired Controller
VAECD-D120VB (Optional)

Wireless Controller
VAEWD-D003 (Standard)

Sweat Branch Pipe Kit



BELP

BEMP(HP)

Notes:

1. Nominal capacities are based on ARI standards 210/240-89, air entering the indoor coil operating at high fan speed for 220V-240V setting. Cooling: 80/67^0 F (27/19^0 C) DB/WB indoor & 95^0 F (35^0 C) outdoor ambient temperature.
2. EER figures are estimate subject to indoor units installed.
3. Refrigerant metering device is installed at the indoor unit as standard.
4. Flare fittings are provided as standard.
5. Insulation of both liquid and suction line is required (Heat Pump Model).
6. ODU's installed above IDU's 98 ft (30m) & ODU's installed bellow IDU's 66 ft (20m).
7. Refer to individual indoor unit spec sheets for details.
8. For details of model number nomenclature, please refer to publication OMGNM-0921.

(**) Anti-Corrosion Protection is optional, please refer to sales representative for more information.

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