

OMEGA

VRF

TECHNOLOGY

INVERTER
TECHNOLOGY
EXPERT

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

VMEX SERIES

MODULAR VRF Outdoor Unit (460~480V/3/60Hz) Inverter Heat Pump

Cooling Capacity Min~Max Single Module: 42,990~221,780 BTU/h (12.6~65.0 kW)
Heating Capacity Min~Max Single Module: 46,060~278,760 BTU/h (13.5~81.7 kW)

Product Features

- ✓ DC Inverter Technologies.
- ✓ Up to 64 Indoor Units Could be Connected per System.
- ✓ Intelligent Temperature Control Technology.
- ✓ Oil Balance Control Technology.
- ✓ Refrigerant Cooling for Inverter Board.
- ✓ Network Connection Technology.
- ✓ Backup function
- ✓ Factory Tested up to 55°C/131°F Ambient.
- ✓ Automatic Address Setting.
- ✓ Anticorrosive Hydrophilic Coated Fins.
- ✓ Modules Rotation Operating to Improve Lifetime.
- ✓ Up to 88HP combined

Outdoor Unit Features

- ✓ Low Noise Design with Sensorless Inverter DC Fan Motor.
- ✓ Advance Torque Control Technology.
- ✓ Multi Electronic Expansion Valves Control.
- ✓ High Efficiency Digital PFC Control.
- ✓ Wider Operation Condition Range.
- ✓ Compressor Oil Storage Technology.
- ✓ Two Stage Oil Separation Technology.
- ✓ Auto Refrigerant Charge Function.
- ✓ Automatic Fault Detection.



8 - 10 HP



12 - 20 HP

OMEGA



ISO 14001 ISO 9001

OTEC
AIR CONDITIONING

A Product of
OMEGA
Environmental
Technologies LLC.

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MODULAR VRF OUTDOOR UNIT

MODEL NO.	VMEX	008Q	009Q	010Q	012Q	014Q	016Q	018Q	020Q
		8A-D13V252	8A-D16V280	8A-D20V335	8A-D23V400	8A-D26V450	8A-D29V500	8A-D33V560	8A-D36V615
Cooling Indoor Unit Ratio @ 100% BTU/h (kW)		85,980 (25.2)	95,535 (28.0)	114,300 (33.5)	136,480 (40.0)	153,540 (45.0)	170,600 (50.0)	191,070 (56.0)	209,840 (61.5)
System Heating Indoor Unit Ratio @ 100% BTU/h (kW)		92,125 (27.0)	107,480 (31.5)	127,950 (37.5)	153,540 (45.0)	170,600 (50.0)	191,070 (56.0)	214,955 (63.0)	235,430 (69.0)
EER @ 100%	BTU/h / W (W/W)	16.0 (4.70)	15.4 (4.50)	14.7 (4.30)	14.7 (4.30)	14.0 (4.10)	13.3 (3.90)	13.2 (3.86)	12.8 (3.74)
COP	(W/W)	5.60	5.30	4.90	4.80	4.60	4.25	4.12	4.03
System Cooling Indoor Unit Ratio @ 50% BTU/h (kW)		42,990 (12.6)	47,770 (14.0)	57,320 (16.8)	68,240 (20.0)	76,770 (22.5)	85,300 (25.0)	95,535 (28.0)	105,090 (30.0)
System Cooling Indoor Unit Ratio @ 70% BTU/h (kW)		60,050 (17.6)	66,875 (19.6)	80,180 (23.5)	95,535 (28.0)	107,480 (31.5)	119,420 (35.0)	133,750 (39.2)	147,060 (43.1)
System Cooling Indoor Unit Ratio @ 130% BTU/h (kW)		90,760 (26.6)	100,995 (29.6)	120,785 (35.4)	144,330 (42.3)	162,410 (47.6)	180,495 (52.9)	201,990 (59.2)	221,780 (65.0)
Max No. Indoor Unit Connectable per Module / System		13 / 64	16 / 64	20 / 64	23 / 64	26 / 64	29 / 64	33 / 64	36 / 64
Total Number of Outdoor Modules Connectable		4							
Max. Cooling Capacity 4 modules @ 100% BTU/h (kW)		914,415 (268)							
Coil Type		Grooved Cooper Tubes - Hydrophilic Aluminum Fins							
Fan	Type	Axial Fan							
	Qty	1	1	1	2	2	2	2	2
	Motor (FLA) each	3.5	3.5	3.5	1.4 + 1.2	1.4 + 1.2	1.6 + 1.4	1.7 + 1.5	1.7 + 1.5
	Air Flow CFM (m ³ /hr) (Hi)	6,604 (12,000)	6,604 (12,000)	6,604 (12,000)	9,185 (14,000)	9,185 (14,000)	9,185 (16,000)	9,185 (16,000)	9,185 (16,000)
	Ext. Sta. Pressure. In.W.G. (Pa)	0 - 0.08 (0 - 20)							
	Noise Level Hi (dbA)	58	59	60	62	62	63	63	63
Electrical	Voltage-Phase	460~480V - 3Ph							
	Frequency	60 Hz							
	Power Input / Cooling (kW)	5.36	6.22	7.79	9.30	11.0	12.8	14.5	16.4
	Power Input / Heating (kW)	4.82	5.94	7.65	9.38	10.9	13.2	15.3	17.1
	Rated Current / Cooling (A)	11.7	13.5	16.9	20.2	23.9	27.8	31.5	35.7
	Rated Current / Heating (A)	10.5	12.9	16.6	20.4	23.7	28.7	33.3	37.2
	Crankcase Heater (W)	27.6 x 2				27.6 x 4			
	Min. Circuit Amps (MCA)	16.6	17.8	18.6	24.1	25.1	27.5	35.6	37.3
	Max. Fuse Amps (MOCP)	25	25	25	30	30	40	50	50
Refrigerant Charge R410A (oz / kgs)		317.5 / 9.0	317.5 / 9.0	388.0 / 11.0	458.6 / 13.0	458.6 / 13.0	458.6 / 13.0	564.4 / 16.0	564.4 / 16.0
Refrigerant Connections inches (mm)	Type	Flare							
	Liquid	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)
Suction	1 (25.4)	1 (25.4)	1 1/8 (28.6)	1 1/4 (31.8)	1 1/4 (31.8)	1 1/4 (31.8)	1 1/4 (31.8)	1 1/4 (31.8)	
Farthest Indoor Pipe Length Ft. (m)		656 (200)							
Maximum Total Pipe Length Ft. (m)		3280 (1000)							
Height Difference between IDU above ODU Ft. (m)		360 (110)						See Note (5)	
Dimensions inches (mm)	Height	64 3/8 (1635)	64 3/8 (1635)	64 3/8 (1635)	64 3/8 (1635)	64 3/8 (1635)	64 3/8 (1635)	64 3/8 (1635)	64 3/8 (1635)
	Width	39 (990)	39 (990)	39 (990)	52 3/4 (1340)	52 3/4 (1340)	52 3/4 (1340)	52 3/4 (1340)	52 3/4 (1340)
	Depth	31 1/8 (790)	31 1/8 (790)	31 1/8 (790)	31 1/8 (790)	31 1/8 (790)	31 1/8 (790)	31 1/8 (790)	31 1/8 (790)
Net Weight Lbs (kgs)		505 (229)	505 (229)	543 (247)	719 (326)	719 (326)	736 (334)	813 (369)	813 (369)

Notes:

- Nominal capacities are based on ARI standards 210/240-89, air entering the indoor coil operating at high fan speed for 380V-415V setting. Cooling: 80/67° F (27/19° C) DB/WB indoor & 95° F (35° C) outdoor ambient temperature.
- Refrigerant metering device is installed at the indoor unit as standard.
- Sweat fittings are provided for connecting indoor and outdoor units.
- Insulation of both liquid and suction line is required (Heat Pump Model).
- Total Height difference could reach 656 ft (200m) with ODU's installed above & below IDU's levels. See Technical Manual for other length limitations.
- Max Capacities per Module based on 130% Indoor Loading.
- For details of model number nomenclature, please refer to publication OGMNM-1021.

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ISO 14001 ISO 9001

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