

OMEGA VRF TECHNOLOGY

INVERTER
TECHNOLOGY
EXPERT

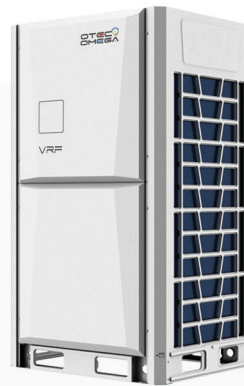
Engineered to elevate efficiency and comfort
..... to the next level!

VMEP SERIES Full DC Modular VRF Outdoor Unit (380~415V/3 Phase/50-60Hz) Inverter Cooling Only

Cooling Capacity Min~Max Single Module: 42,990~306,000 BTU/h (12.6~89.7 kW)

Product Features

- ✓ DC Inverter Technologies.
- ✓ Up to 50 Indoor Units Could be Connected per System.
- ✓ Intelligent Temperature Control Technology.
- ✓ Oil Balance Control Technology.
- ✓ Network Connection Technology.
- ✓ Factory Tested up to 50°C/122°F Ambient.
- ✓ Ultra Long Piping Run up to 3280 ft.
- ✓ Automatic Address Setting.
- ✓ Anticorrosive Hydrophilic Coated Fins.
- ✓ Modules Rotation Operating to Improve Lifetime.



25.2 ~ 33.5 kW



40.0 ~ 50.0 kW



56.0 ~ 61.5 kW

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.
- ✓ Automatic Fault Detection.



73.0 ~ 78.5kW



85.0 kW



Branch Pipe Kit

OMEGA



OTEC
AIR CONDITIONING

A Product of
OMEGA
Environmental
Technologies LLC.

ISO 14001 ISO 9001

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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MODULAR VRF Outdoor Unit

MODEL NO.	VMEP	008N7A -G13V252	009N7A -G16V280	010N7A -G19V335	012N7A -G23V400	014N7A -G26V450	016N7A -G29V500	018N7A -G33V560	020N7A -G36V615	022N7A -G39V670	024N7A -G43V730	026N7A -G46V785	028N7A -G50V850
System Cooling Indoor Unit Ratio @ 100% BTU/h (kW)		85,980 (25.2)	95,540 (28.0)	114,305 (33.5)	136,485 (40.0)	153,545 (45.0)	170,610 (50.0)	190,080 (56.0)	209,845 (61.5)	228,615 (67.0)	249,100 (73.0)	267,800 (78.5)	290,000 (85)
EER @ 100% BTU/h / W (W/W)		14.7 (4.30)	14.1 (4.12)	12.5 (3.65)	13.0 (3.80)	12.6 (3.68)	11.3 (3.31)	10.9 (3.18)	10.3 (3.02)	10.2 (3.00)	10.6 (3.11)	10.1 (2.98)	9.7 (2.88)
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)	95,540 (28.0)	105,090 (30.8)	114,300 (33.5)	124,550 (36.5)	133,900 (39.25)	145,000 (42.5)
System Cooling Indoor Unit Ratio @ 70% BTU/h (kW)		60,050 (17.6)	66,880 (19.6)	80,180 (23.5)	95,540 (28.0)	107,480 (31.5)	119,420 (35.0)	133,750 (39.2)	147,060 (43.1)	160,000 (46.9)	174,370 (51.1)	187,460 (54.9)	203,000 (59.5)
System Cooling Indoor Unit Ratio @ 130% BTU/h (kW)		90,760 (26.6)	101,000 (29.6)	120,780 (35.4)	143,990 (42.2)	162,070 (47.5)	180,150 (52.8)	201,650 (59.1)	221,440 (64.9)	250,440 (73.4)	263,000 (77.1)	283,000 (82.9)	306,000 (89.7)
Total Number of Outdoor Modules Connectable		4											
Max. Cooling Capacity 3 modules @ 100% BTU/h (kW)		839,380 (246)											
Coil Type		Grooved Cooper Tubes - Hydrophilic Aluminum Fin											
Fan	Type	Axial Fan											
	Qty	1	1	1	1	1	1	2	2	2	2	2	2
	Motor (FLA) each	3.95	3.95	3.95	4.84	4.84	4.84	2.95*2	2.95*2	2.95*2	3.95*2	3.95*2	4.84*2
	R.P.M. Range (Min~Max)	0 ~ 750	0 ~ 750	0 ~ 750	0 ~ 920	0 ~ 920	0 ~ 920	0 ~ 560	0 ~ 560	0 ~ 560	0 ~ 750	0 ~ 750	0 ~ 920
	Air Flow CFM (m³/hr) (Hi)	6,180 (10,500)	6,180 (10,500)	6,475 (11,000)	7,945 (13,500)	7,945 (13,500)	7,945 (13,500)	9,710 (16,500)	9,710 (16,500)	9,710 (16,500)	14,125 (24,000)	14,125 (24,000)	15,303 (26,000)
	Ext. Sta. Pressure. In.W.G. (Pa)	0.00 (0) / 0.08 (20) / 0.16 (40) / 0.24 (60)											
Electrical	Noise Level Hi (dba)	58	58	58	60	61	62	63	63	65	66	66	67
	Voltage-Phase-Frequency	380/415V - 3Ph - 50/60Hz											
	Rated Input / Cooling (kW)	5.86	6.79	9.18	10.5	12.2	15.1	17.6	20.4	22.3	23.5	26.3	29.8
	Rated Current / Cooling (A)	24.0	24.0	24.5	30.2	30.2	31.0	46.6	47.5	51.0	53.0	53.0	63.0
	Min. Circuit Amps (MCA)	24	24.5	24.7	29.7	30.3	45	45.5	46	57	57.8	58.3	58.8
Refrigerant Charge R410A (oz / Kgs)	Max. Fuse Amps (MOCP)	30	30	30	40	40	50	50	60	60	60	60	60
	Type	Flare											
Refrigerant Connections inches (mm)	Liquid	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	7/8 (22.2)
	Suction	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 1/8 (28.6)	1 3/8 (35)
Farthest Indoor Pipe Length ft (m)		720 (220)											
Maximum Total Pipe Length ft (m)		3280 (1000)											
Height Difference between IDU & ODU ft (m)		360 (110) & 330 (100)						See Note (5)					
Dimensions inches (mm)	Height	68 1/2 (1740)	68 1/2 (1740)	68 1/2 (1740)	68 1/2 (1740)	68 1/2 (1740)	68 1/2 (1740)	68 1/2 (1740)	68 1/2 (1740)	68 1/2 (1740)	68 1/2 (1740)	68 1/2 (1740)	68 1/2 (1740)
	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)	52 3/4 (1340)	78 11/32 (1990)	78 11/32 (1990)	78 11/32 (1990)
	Depth	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)
Net Weight lbs (Kgs)		463.0 (210)	463.0 (210)	463.0 (210)	573.2 (260)	573.2 (260)	573.2 (260)	657.0 (298)	657.0 (298)	674.6 (306)	789.3 (358)	789.3 (358)	904.0 (410)

Notes:

- Nominal capacities are based on ARI standards 210/240-89, air entering the indoor coil operating at high fan speed for 208V-230V 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 590 ft (180m) with ODU's installed above & below IDU's levels.
- Max Capacities per Module based on 130% Indoor Loading.
- For details of model number nomenclature, please refer to publication OMGNM-0820.

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