

# OMEGA VRF TECHNOLOGY

INVERTER  
TECHNOLOGY  
EXPERT

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

## VNMF SERIES 220-240V/3/60 Hz (Full DC) MINI VRF Horizontal Discharge Inverter Heat Pump Outdoor Unit

Cooling Capacity Min~Max Single Module: 43,031~101,430 BTU/h (12.6~29.7 kW)

Heating Capacity Min~Max Single Module: 46,104~114,067 BTU/h (13.5~33.4 kW)

### Product Features

- ✓ Full DC Inverter Technologies.
- ✓ Up to 12 Indoor Units can be Connected.
- ✓ Intelligent Defrosting Technology.
- ✓ Intelligent Soft Start Technology
- ✓ Factory-Tested up to 55°C/131°F Ambient.
- ✓ Ultra-Long Piping Runs Up to 393 ft.
- ✓ Automatic Address Setting .
- ✓ Small Installation Space.

### Outdoor Unit Features

- ✓ Low-Noise Design with High Efficiency DC Fan Motor.
- ✓ Easy Maintenance
- ✓ Simple Signal Line Connection
- ✓ High-Efficiency Heat Exchanger
- ✓ Wider Operation Condition Range.
- ✓ Compressor Oil Storage Technology.
- ✓ Four-Direction Piping Connection.
- ✓ Automatic Fault Detection.



25.2 ~ 28.0 kW

OMEGA



DC INVERTER

ISO 14001 ISO 9001

OTEC  
AIR CONDITIONING

A Product of  
OMEGA  
Environmental  
Technologies LLC.

www.otecomega.com

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### MINI VRF Outdoor Unit

MODEL NO.	VNMF	008Q4A -D11V252	009Q4A -D12V280
System Cooling with Indoor Unit Ratio @ 100% BTU/h (kW)		86,062 (25.2)	95,625 (28.0)
System Heating with Indoor Unit Ratio @ 100% BTU/h (kW)		92,209 (27.0)	107,578 (31.5)
EER @ 100% IDU	BTU/h / W (W/W)	12.6 (3.71)	12.2 (3.59)
COP @ 100% IDU		4.22	4.14
System Cooling with Indoor Unit Ratio @ 50% BTU/h (kW)		43,031 (12.6)	47,812 (14.0)
System Cooling with Indoor Unit Ratio @ 70% BTU/h (kW)		60,107 (17.6)	66,937 (19.6)
System Cooling with Indoor Unit Ratio @ 130% BTU/h (kW)		91,185 (26.7)	101,430 (29.7)
Maximum of Indoor Unit Connectable per Module		11	12
Coil Type		Grooved Cooper Tubes - Hydrophilic Aluminum Fin	
DC Fan Motor	Type	Axial Fan - Direct Drive	
	Qty	2	2
	Motor (FLA) each	2.1+1.7	2.1+1.7
	Air Flow CFM (m <sup>3</sup> /hr) (Hi)	6172 (10,494)	6172 (10,494)
	Noise Level Hi (dba)	58	60
Electrical	Voltage-Phase	220~240V-3Ph	
	Frequency	60Hz	
	Rated Input / Cooling (kW)	6.8	7.8
	Rated Input / Heating (kW)	6.4	7.6
	Rated Current / Cooling (A)	30.9	35.5
	Crankcase Heater (W)	25	25
	Comp. Rated Load Amps (RLA)	28	28
	Compressor Power Input (W)	8,800	8,800
	Minimum Circuit Amps (MCA)	35	35
	Maximum Fuse Amps (MOCP)	40	40
Refrigerant Charge R410A (oz / kgs)		218.2 / 6.2	218.2 / 6.2
Refrigerant Connections inches (mm)	Throttle Type	Electronic Expansion Valve	
	Type	Flare	
	Liquid	3/8 (9.52)	3/8 (9.52)
Suction	7/8 (2.22)	7/8 (2.22)	
Farthest Indoor Pipe Length	ft (m)	195 (60)	
Maximum Total Pipe Length	ft (m)	393 (120)	
Height Difference between IDU & ODU ft (m)		98.4 (30) & 65.6 (20) see note (5*)	
Unit Dimensions inches (mm)	Height	61 3/8 (1558)	61 3/8 (1558)
	Width	44 (1120)	44 (1120)
	Depth	20 3/4 (528)	20 3/4 (528)
Packing Dimensions inches (mm)	Height	67 3/4 (1720)	67 3/4 (1720)
	Width	50 (1270)	50 (1270)
	Depth	22 1/4 (565)	22 1/4 (565)
Net Weight Lbs (kgs)		324.1 (147)	324.1 (147)
Gross Weight Lbs (kgs)		359.4 (163)	359.4 (163)

### Applicable Indoor Units



VECW



VECT



VECM



VECS



VEFC



VEFA



VE (LP-MP)



VE (HP-HA)



Wired Controller  
VAECD-D001 (Standard)



Deluxe Wired Controller  
VAECD-D001 (Optional)



Centralized Controller  
VAECC-D064T (Optional)



Wireless Controller  
VAEWD-D001 (Optional)



Wireless Controller  
VAEWR-D001 (Optional)



Branch Pipe Kit

#### Notes:

- 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° F (27/19° C) DB/WB indoor & 95° F (35° C) outdoor ambient temperature.
- SEER figures are estimate subject to indoor units installed.
- Refrigerant metering device is installed at the indoor unit as standard.
- Flare fittings are provided as standard ( 006 size only ).
- ODU's installed above IDU's 98 ft (30m) & ODU's installed below IDU's 66 ft (20m).
- Insulation of both liquid and suction line is required (Heat Pump Model).
- Refer to individual indoor unit spec sheets for details.
- For details of model number nomenclature, please refer to publication OMGNM-0821.



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ISO 14001 ISO 9001

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