

# OMEGA VRF TECHNOLOGY

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

## VEFA SERIES FRESH AIR PROCESSING VRF Indoor Unit Inverter Heat Pump 50Hz

Cooling Capacity Min~Max: 47,812~191,080 Btuh (14.0~56.0 kW)

Heating Capacity Min~Max: 30,700~133,080 Btuh (9.0~39.0 kW)

Air Flow Volume Min~Max: 820~4,700 CFM (1,400~6,000 m<sup>3</sup>/h)

### Product Features

- ✓ DC Inverter Technologies.
- ✓ Fresh Air Supply Ventilation.
- ✓ Auto Restart.
- ✓ Excellent Comfort for Commercial & Industrial Solutions.
- ✓ Self Diagnosis Function.
- ✓ Factory Tested.
- ✓ High Static Pressure Design.
- ✓ Easy Maintenance.

### Indoor Unit Features

- ✓ Wired LCD Remote Control (Standard).
- ✓ Wireless LCD Remote Control (Optional).
- ✓ Deluxe Wired Controller with Weekly Timer (Optional).
- ✓ Centralized controller (Optional).
- ✓ Smart Zone Controller (Optional).
- ✓ Remote monitoring software (Optional).
- ✓ Anti-Freezing Protection.
- ✓ Fan Motor Overload Protection.
- ✓ Temperature Sensor Malfunction



OMEGA



CE

OTEC  
AIR CONDITIONING

A Product of  
**OMEGA**  
Environmental  
Technologies LLC.

ISO 14001 ISO 9001

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FRESH AIR PROCESSING VRF Indoor Unit						
MODEL NO.	VEFA	048Q 3A-GCV140	076Q 3A-GCV224	096Q 3A-GCV280	153Q 3A-GCV450	191Q 3A-GCV560
Cooling Capacity	Btuh (kw)	47,812 (14.0)	76,500 (22.4)	95,540 (28.0)	153,545 (45.0)	191,080 (56.0)
Heating Capacity	Btuh (kw)	30,700 (9.0)	54,600 (16.0)	68,250 (20.0)	107,150 (31.4)	133,080 (39.0)
Refrigerant Control	Electronic Expansion Valve @ Indoor Unit					
Coil Type	Grooved Cooper Tubes - Aluminum Blue Slit Fin					
Electrical	Voltage-Phase	208/230-1			208/230-3	
	Frequency	50Hz				
	FLA	1.36	2.73	2.73	4.81	5.63
	Input (W)	300	600	600	1060	1240
Air Filter	Cleanable Cartridge Type					
Fan	Type	Centrifugal Fan				
	Speed	3-Speed				
	Qty	2	2	2	2	2
	Air Flow CFM (m <sup>3</sup> /hr) (Hi)	820 (1400)	1170 (2000)	1640(2800)	2350 (4000)	3530 (6000)
	Noise Level Hi/Lo (db)	48/42	52/45	52/45	58	62
Refrigerant Connections inches (mm)	Type	Sweat				
	Liquid	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)
	Suction	5/8 (15.9)	7/8 (22.2)	7/8 (22.2)	1 1/8 (28.6)	1 1/8 (28.6)
Drain Connections inches (mm)		1 (25.4)	1 (25.4)	1 (25.4)	1 1/4 (32)	1 1/4 (32)
Dimensions inches (mm)	Height	14 1/2 (370)	17 5/8 (448)	17 5/8 (448)	26 5/8 (676)	26 5/8 (676)
	Width	46 7/8 (1190)	57 5/8 (1465)	57 5/8 (1465)	85 1/4 (2165)	85 1/4 (2165)
	Depth	24 3/8 (620)	31 7/8 (811)	31 7/8 (811)	36 1/8 (916)	36 1/8 (916)
Net Weight Lbs (kgs)		103.6 (47)	224.9 (102)	224.9 (102)	489.4 (222)	489.4 (222)



Wired Controller  
VAECR-G001  
(Standard)



Wireless Controller  
VAEWP-G001  
(Optional)



Wireless Controller  
VAEWD-G001  
(Optional)



Deluxe Wired Controller  
VAECD-G001  
(Optional)



Touch Tone Central  
VAECT-G064T  
(Optional)



Wi Fi Smart Box  
VAESB-G64WF  
(Optional)



Centralized Controller  
VAESC-G64T  
(Optional)

- 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° F (27/19° C) DB/WB indoor & 95° F (35° C) outdoor ambient temperature.
  2. Refrigerant metering device is installed at the indoor unit as standard.

3. Flare & Sweat fittings are provided for connecting indoor and outdoor units.
4. Insulation of both liquid and suction line is required (Heat Pump Mode).
5. For details of model number nomenclature, please refer to publication OMGNM-0317.

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