

OMEGA VRF TECHNOLOGY

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

VEFA SERIES

FRESH AIR PROCESSING VRF Indoor Unit 3D Inverter Heat Pump

Cooling Capacity Min~Max: 42,650 ~ 191,070 BTU/h (12.5 ~ 56.0 kW)

Heating Capacity Min~Max: 35,825 ~ 133,070 BTU/h (10.5 ~ 39.0 kW)

Product Features

- ✓ Full DC Inverter Technologies.
- ✓ Unit-Mounted External Drain Pump (Optional).
- ✓ Auto Restart.
- ✓ Excellent Comfort for Rooms & Compact Solutions.
- ✓ Self Diagnosis Function.
- ✓ Factory Tested.
- ✓ Medium Static Pressure Design.
- ✓ Easy Maintenance.
- ✓ Small Installation Space.

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.
- ✓ Water Overflow Protection.
- ✓ Intelligent Drainage Device.



OMEGA



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	043Q	048Q	070Q	085Q	096Q	153Q	191Q
		0A-DCV125	0A-DCV140	0A-DCV200	0A-DCV250	0A-DCV280	0A-DCV450	0A-DCV560
Cooling Capacity	BTU/h (kW)	42,650 (12.5)	47,770 (14.0)	68,240 (20.0)	85,300 (25.0)	95,535 (28.0)	153,540 (45.0)	191,070 (56.0)
Heating Capacity	BTU/h (kW)	35,825 (10.5)	40,945 (12.0)	43,675 (12.8)	54,590 (16.0)	61,415 (18.0)	95,535 (28.0)	133,070 (39.0)
Refrigerant Control		Electronic Expansion Valve @ Indoor Unit						
Coil Type		Grooved Cooper Tubes - Hydrophillic Aluminum Fin						
Electrical	Voltage-Phase	220~240 - 1Ph						
	Frequency	N/A -3D						
	FLA	2.8	2.8	4.1	4.1	4.1	4.1	11.6
	Power Input (W)	480	480	850	850	850	1080	2272
Air Filter		Cleanable Cartridge Type						
Fan	Type	Centrifugal Fan						
	Speed	7-Speed						
	Qty	1	1	1	1	1	1	1
	Air Flow CFM (m³/hr) - Lo/Hi	880/1180 (1500/2000)		1180/1765 (2000/3000)			1650/2470 (2800/4200)	2350/3530 (4000/6000)
	ESP Range in-wt / (Pa)	0.40~1.0 / (100~250)		0.40~1.6 / (100~400)				
	Noise Level Lo-Hi (db)	42 / 48	42 / 48	43 / 50	43 / 50	43 / 50	48 / 58	50 / 59
Refrigerant Connections inches (mm)	Type	Flare						
	Liquid	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)
	Suction	5/8 (15.9)	5/8 (15.9)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	1 1/8 (28.6)	1 1/8 (28.6)
Drain Connections inches (mm)		1 (25)		1 1/4 (32)				
Dimensions inches (mm)	Height	16 5/8 (423)	16 5/8 (423)	20 1/4 (515)	20 1/4 (515)	20 1/4 (515)	35 5/8 (905)	35 5/8 (905)
	Width	52 (1322)	52 (1322)	27 1/4 (1454)	27 1/4 (1454)	27 1/4 (1454)	79 1/8 (2010)	79 1/8 (2010)
	Depth	27 1/4 (691)	27 1/4 (691)	36 5/8 (931)	36 5/8 (931)	36 5/8 (931)	26 3/4 (680)	26 3/4 (680)
Net Weight Lbs (kgs)		149.9 (68.0)	149.9 (68.0)	286.6 (130.0)	286.6 (130.0)	286.6 (130.0)	429.9 (195.0)	480.6 (218.0)



Wireless Controller
VAEWD-D001 (Optional)



Wireless Controller
VAEWR-D001 (Optional)



Wired Controller
VAECR-D001 (Standard)



Deluxe Wired Controller
VAECD-D001 (Optional)



Centralized Controller
VAEC-C064T (Optional)

- 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.
 - Refrigerant metering device is installed at the indoor unit as standard.

- Flare fittings are provided for connecting indoor and outdoor units.
- Insulation of both liquid and suction line is required (Heat Pump Mode).
- For details of model number nomenclature, please refer to publication OMGNM-0720.

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