

OMEGA VRF TECHNOLOGY

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

VESP SERIES

ARC DUCT FAN COIL VRF Indoor Unit 3D Inverter Heat Pump

Cooling Capacity Min~Max: 5,100 ~ 38,200 BTU/h (1.5 ~ 11.2 kW)

Heating Capacity Min~Max: 6,100 ~ 42,700 BTU/h (1.8 ~ 12.5 kW)

Product Features

- ✓ Third Generation Indoor Unit System
- ✓ Full DC Inverter Technologies
- ✓ Built in Drain Pump.
- ✓ Excellent Comfort for Rooms & Compact Solutions.
- ✓ Self Diagnosis Function.
- ✓ Factory Tested.
- ✓ Medium Static Pressure Design.
- ✓ Easy Maintenance.
- ✓ Heat Exchanger Self-Cleaning.
- ✓ Small Installation Space.



Indoor Unit Features

- ✓ Wired LCD Remote Control (Standard).
- ✓ Wireless LCD Remote Control (Optional).
- ✓ Deluxe Wired Controller with Weekly Timer (Standard).
- ✓ Centralized controller (Optional).
- ✓ Smart Zone Controller (Optional).
- ✓ Remote monitoring software (Optional).
- ✓ Anti-Freezing Protection.
- ✓ Fan Motor Overload Protection.
- ✓ Temperature Sensor Malfunction.
- ✓ Water Overflow Protection.
- ✓ Wider Capacity Range.
- ✓ Ultra-Thin Fuselage.
- ✓ Efficiency Filter Screen.
- ✓ Constant Airflow Technology.
- ✓ Intelligent Drainage Device.

OMEGA



OTEC
AIR CONDITIONING

A Product of
OMEGA
Environmental
Technologies LLC.

ISO 14001 ISO 9001

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ARC DUCTED FAN COIL VRF Indoor Unit

MODEL NO.	VE	SP006T	SP008T	SP010T	SP012T	SP015T	SP019T	SP024T	SP027T	SP031T	SP038T
		0A-DCV015	0A-DCV022	0A-DCV028	0A-DCV036	0A-DCV045	0A-DCV056	0A-DCV071	0A-DCV080	0A-DCV090	0A-DCV112
Cooling Capacity	BTU/h (kW)	5,100 (1.5)	7,500 (2.2)	9,600 (2.8)	12,300 (3.6)	15,400 (4.5)	19,100 (5.6)	24,200 (7.1)	27,300 (8.0)	30,700 (9.0)	38,200 (11.2)
Heating Capacity	BTU/h (kW)	6,100 (1.8)	8,500 (2.5)	10,900 (3.2)	13,700 (4.0)	17,100 (5.0)	21,500 (6.3)	27,300 (8.0)	30,700 (9.0)	34,100 (10.0)	42,700 (12.5)
Refrigerant Control		Electronic Expansion Valve @ Indoor Unit									
Coil Type		Grooved Cooper Tubes - Hydrophilic Aluminum Fin									
Electrical	Voltage-Phase	220-240 - 1Ph									
	Frequency	N/A - 3D									
	FLA	0.70	0.70	0.70	0.75	0.85	0.85	0.94	1.35	1.35	1.35
	Power Input (W)	21	22	28	31	43	58	65	108	108	128
Air Filter		Cleanable Cartridge Type									
Fan	Type	Centrifugal Fan									
	Speed	7-Speed									
	Qty	1	1	1	1	1	1	1	1	1	1
	Air Flow CFM (m³/hr) (Nom)	200 (340)	220 (370)	270 (460)	355 (605)	470 (800)	530 (900)	675 (1145)	825 (1400)	825 (1400)	955 (1620)
	ESP Range in-wt / (Pa)	10 (10-50)								20(10-80)	
Noise Level Lo-Hi (db)	22 / 27	22 / 28	22 / 30	25 / 30	26 / 33	27 / 36	29 / 37	30.5 / 36.5	30.5 / 36.5	31.5 / 39.5	
Refrigerant Type		R410A/R32									
Refrigerant Connections inches (mm)	Type	Flare									
	Liquid (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Suction (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	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)
Drain Connections inches (mm)		1 (25)									
Dimensions inches (mm)	Height	7 7/8 (199)	7 7/8 (199)	7 7/8 (199)	7 7/8 (199)	7 7/8 (199)	7 7/8 (199)	7 7/8 (199)	7 7/8 (199)	7 7/8 (199)	7 7/8 (199)
	Width	21 5/8 (550)	21 5/8 (550)	21 5/8 (550)	27 1/2 (700)	35 1/2 (900)	35 1/2 (900)	43 3/8 (1100)	63 3/8 (1600)	63 3/8 (1600)	63 3/8 (1600)
	Depth	17 3/4 (450)	17 3/4 (450)	17 3/4 (450)	17 3/4 (450)	17 3/4 (450)	17 3/4 (450)	17 3/4 (450)	17 3/4 (450)	17 3/4 (450)	17 3/4 (450)
Net Weight Lbs (kgs)		25.35 (11.5)	25.35 (11.5)	25.35 (11.5)	28.66 (13.0)	36.38 (16.5)	36.38 (16.5)	44.09 (20.0)	61.73 (28.0)	61.73 (28.0)	61.73 (28.0)



Wireless Controller
VAEWD-D003(Optional)



Wired Controller
VAECR-D086SW (Standard)



Wired Controller
VAECD-D086HB (Optional)



Wired Controller
VAECD-D120VB (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.

OMEGA
ENVIRONMENTAL
TECHNOLOGIES LLC.
17702 Mitchell North, #101
Irvine, CA 92614, USA
Tel: 714 795 2830
Fax: 714 966 1649
info@omegavrf.com
www.omegavrf.com



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OTEC
AIR CONDITIONING
Showroom & Technology Center
11380 Interchange Circle North
Miramar, FL 33025 USA
Tel: 305 731 2140, 888 840 7550
Fax: 954 212 8280
info@otecomega.com
wwwotecomega.com