

# OMEGA VRF TECHNOLOGY

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

## VELP SERIES LOW PRESSURE DUCTED VRF Indoor Unit 3D Inverter Heat Pump

Cooling Capacity Min~Max: 7,500 ~ 21,520 Btuh (2.2 ~ 6.3 kW)

Heating Capacity Min~Max: 8,540 ~ 24,250 Btuh (2.5 ~ 7.1 kW)

### Product Features

- ✓ Full DC Inverter Technologies.
- ✓ Built in Drain Pump.
- ✓ Auto Restart.
- ✓ Excellent Comfort for Rooms & Compact Solutions.
- ✓ Self Diagnosis Function.
- ✓ Factory Tested.
- ✓ Low 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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### LOW PRESSURE DUCTED VRF Indoor Unit

MODEL NO.	VELP	008Q	009Q	010Q	011Q	012Q	014Q	015Q	017Q	019Q	022Q
		0A-RCV022	0A-RCV025	0A-RCV028	0A-RCV032	0A-RCV036	0A-RCV040	0A-RCV045	0A-RCV050	0A-RCV056	0A-RCV063
Cooling Capacity	Btuh (kw)	7,500 (2.2)	8,550 (2.5)	9,560 (2.8)	10,950 (3.2)	12,300 (3.6)	13,660 (4.0)	15,375 (4.5)	17,075 (5.0)	19,125 (5.6)	21,520 (6.3)
Heating Capacity	Btuh (kw)	8,540 (2.5)	9,575 (2.8)	10,950 (3.2)	12,300 (3.6)	13,660 (4.0)	15,375 (4.5)	17,075 (5.0)	19,125 (5.6)	21,520 (6.3)	24,250 (7.1)
Refrigerant Control		Electronic Expansion Valve @ Indoor Unit									
Coil Type		Grooved Cooper Tubes - Aluminum Blue Slit Fin									
Electrical	Voltage-Phase	220/240-1									
	Frequency	N/A -3D									
	FLA	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.30	0.50	0.50
	Power Input (W)	35	35	35	43	43	52	52	52	99	99
Air Filter		Cleanable Cartridge Type									
Fan	Type	Centrifugal Fan									
	Speed - 5	4-Speed Setting (Selectable from 5 available @ wired controller)									
	Qty	2	2	2	2	2	3	3	3	4	4
	Air Flow CFM (m³/hr) (Nom)	256 (450)	256 (450)	256 (450)	325 (550)	325 (550)	410 (700)	410 (700)	410 (700)	590 (1000)	590 (1000)
	ESP Range in-wt / (Pa)	0~0.12 / (0~30)									
	Noise Level Hi (db)	31	31	31	32	32	33	33	33	35	35
Refrigerant Connections inches (mm)		Flare									
	Liquid	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)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)
Suction	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	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)	
Drain Connections inches (mm)		1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)	
Dimensions inches (mm)	Height	7 7/8 (200)	7 7/8 (200)	7 7/8 (200)	7 7/8 (200)	7 7/8 (200)	7 7/8 (200)	7 7/8 (200)	7 7/8 (200)	7 7/8 (200)	
	Width	27 1/2 (700)	27 1/2 (700)	27 1/2 (700)	27 1/2 (700)	27 1/2 (700)	35 1/2 (900)	35 1/2 (900)	35 1/2 (900)	43 1/2 (1100)	
	Depth (+ Duct Flanges)	25 (635)	25 (635)	25 (635)	25 (635)	25 (635)	25 (635)	25 (635)	25 (635)	25 (635)	
Net Weight Lbs (kgs)		48.5 (22)	48.5 (22)	48.5 (22)	48.5 (22)	48.5 (22)	59.6 (27)	59.6 (27)	59.6 (27)	68.4 (31)	



Wired Controller  
VAECR-R001 (Standard)



Wireless Controller  
VAEWP-R001 (Optional)



Deluxe Wired Controller  
VAEDC-R001 (Optional)



Smart Zone Controller  
VAESC-R032T (Optional)



Centralized Controller  
VAMCC-R255T (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 OGMNM-0315.

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