

OMEGA TECHNOLOGY

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

WPCV SERIES WATER COOLED PACKAGE VERTICAL TYPE

R410A Refrigerant

Cooling Nominal: 2 - 5 Tons (7.0-17.5 kW)

Product Features

- ✓ 24V. Control Circuit.
- ✓ High efficiency scroll compressor.
- ✓ Multi-speed blower motor.
- ✓ TXV metering device.
- ✓ Galvanized prepainted steel casing.
- ✓ Compact Design.
- ✓ Easy Maintenance.
- ✓ Compact condenser with high efficiency.
- ✓ Reduced Volume of Water to be Circulated.
- ✓ Reduced condenser water pipe sizes and pumps.
- ✓ Efficient Liquid Refrigerant Sub Cooling.
- ✓ Drainable water tubes.
- ✓ Low water side pressure drops.
- ✓ Low operating cost.
- ✓ Removable panels for service access.
- ✓ High and low pressure Service Port.
- ✓ Quiet Operation.
- ✓ Heat exchanger tested at 660psi.



A Product of
OMEGA
Environmental
Technologies LLC.

ISO 14001 ISO 9001



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WATER SOURCE

MODEL NO.	WPCV	024C2A -TC1070	036C2A -TC1105	048C2A -TC1140	060C2A -TC1175
Total Capacity	Btuh (kw)	24,000 (7.0)	36,000 (10.5)	48,000 (14.0)	60,000 (17.5)
Sensible Capacity	Btuh (kw)	16,560 (4.9)	27,360 (8.0)	36,480 (10.7)	43,800 (12.8)
Air Flow @ esp 0.4 in (100pa)	CFM (m³/hr)	800 (1360)	1200 (2040)	1600 (2720)	2000 (3400)
Coil Type	Aluminum fin - Copper tube 4 row coil.				
Coil face Area	Sqft (Sqm)	1.75 (0.16)	2.89 (0.27)	3.88 (0.36)	3.88 (0.36)
Coil face Velocity	f/m (m/s)	457 (2.32)	415 (2.10)	412 (1.95)	479 (2.43)
Condenser Type	Shell & Tube				
Water Flow Rate	GPM (L/S)	4 (0.25)	6 (0.38)	8 (0.61)	10 (0.63)
Water Pressure drop	ft-wg (kPa)	9.2 (27.5)	3.5 (10.3)	10.4 (31.0)	21.9 (65.5)
Fan Motor	Type	PSC - Permanent Split Capacitor Motor			
	HP	1/4	1/3	1/2	3/4
	Speed	3-Speed			
	Type	Centrifugal			
	Fan Qty	1	1	1	1
	Blower Size (in)	9 x 7	10 x 8	10 x 10	10 x 10
Indoor Fan (FLA)	1.5	1.9	2.9	4.0	
Compressor	Type	Scroll			
	RLA (208/230)	15.0 / 13.5	18.6 / 16.7	23.9 / 21.4	29.3 / 26.3
	LRA	58.3	79.0	135.0	146.0
Electrical	Voltage	208 - 230/1/60 Hz			
	Range	min 198 ~ max 242			
	Min. Circuit Amps (MCA)	20.3	25.2	32.8	40.6
	Max. Fuse Amps (MOCP)	35	40	50	60
Refrigerant R-410A (oz./kg)		39 / 1.1	48 / 1.4	73 / 2.1	78 / 2.2
Water Connections M.P.T - In/Out in. (mm)		3/4 (19.05)	3/4 (19.05)	1 (25.4)	1 (25.4)
Drain Connections Threaded inches (mm)		3/4 (19.05)			
Filter Dimension		18 x 17	18.25 x 25	22.5 x 28	22.5 x 28
Dimensions inches (mm)	Height	36 1/4 (920)	42 7/8 (1090)	45 1/8 (1145)	45 1/8 (1145)
	Width	21 1/4 (540)	22 3/4 (577)	23 7/8 (605)	23 7/8 (605)
	Depth	21 1/2 (545)	22 3/4 (577)	26 7/8 (685)	26 7/8 (685)
Net Weight Lbs (kgs)		224 (102)	268 (122)	284 (129)	286 (130)

Notes: 1. Nominal capacities are based on air entering the evaporator section at 80/67°F (27/19°C), DB/WB indoor & 85°F (29°C) water temperature entering condenser with indoor fan operating at high airflow setting.
 2. For details of model number nomenclature, please refer to publication OMGNM-0118.

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