

OMEGA TECHNOLOGY

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

WECM/WECS SERIES

CASSETTE WATER FAN COIL UNITS

300 - 1,000 CFM (510 - 1,700 m³/h)

Cooling Capacity: 9,600 - 34,150 BTU/h (2.8 - 10.0 kW)

Heating Capacity: 14,400 - 51,300 BTU/h (4.2 - 15.0 kW)

Product Features (Standard)

- ✓ Cooling & Heating.
- ✓ 2-Row Coils
- ✓ Built-in Insulated Drain Pump.
- ✓ Water Level Switch.
- ✓ Inner Groove Cooper Tubes.
- ✓ Compact Design.
- ✓ Multi-Fan with 3 Speeds.
- ✓ Self Diagnosis.
- ✓ Easy Connect Threaded Brass Connections.
- ✓ 4-Direction Airflow.
- ✓ Auto Swing Louver.
- ✓ Whisper Quiet Design.
- ✓ Standard Wireless Controller.
- ✓ Washable Filter.

Product Features (Optional)

- ✓ Wired Remote Controller (WAECC-G01).
- ✓ 3-Way Electronic Valve, Ø 3/4" (WECA-3V340A).



WECM



WECS



Standard Wireless Controller
(VAEWP-G001)



Optional Wired Controller
(WAECC-G01)

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WATER CASSETTE	MODEL NO.	WEC	M003C2W -GWTN050	M004C2W -GWTN060	M005C2W -GWTN080	S006C2W -GWTN102	S008C2W -GWTN130	S009C2W -GWTN150	S010C2W -GWTN170	
	Air Flow Volume (Hi)	CFM (m ³ /hr)	300 (510)	350 (600)	470 (800)	600 (1020)	760 (1300)	880 (1500)	1000 (1700)	
	Cooling Capacity	Btuh (kw)	9,600 (2.80)	12,000 (3.50)	15,400 (4.50)	18,100 (5.30)	24,600 (7.20)	29,050 (8.50)	34,150 (10.0)	
	Heating Capacity	Btuh (kw)	14,400 (4.20)	18,100 (5.30)	22,225 (6.80)	27,350 (8.00)	36,900 (10.8)	43,750 (12.8)	51,300 (15.0)	
	Water Flow Rate	GPM (L/S)	2.11 (0.13)	2.65 (0.17)	3.43 (0.22)	4.85 (0.31)	5.46 (0.34)	6.42 (0.41)	6.82 (0.43)	
	Water Pressure drop	ft-wtr (kPa)	8.36 (25.0)	9.37 (28.00)	10.04 (30.00)	12.05 (36.0)	12.05 (36.0)	12.71 (38.0)	13.40 (40.0)	
	Coil Type	Aluminum fin - Copper tube								
	Number of Circuits		5	5	5	8	8	12	12	
	Number of Rows		2							
	Coil face Area	Sqft	2.64	2.64	2.64	3.61	3.61	5.40	5.40	
Coil face Velocity	f/m (m/s)	114 (1.29)	133 (1.51)	178 (2.02)	166 (1.88)	211 (2.39)	163 (1.85)	185 (2.10)		
Electrical	Voltage	208 - 230 /1/60 Hz								
	FLA	0.19	0.29	0.30	0.63	0.68	0.72	0.81		
	Input (W)	45	65	65	140	150	160	180		
Fan Motor	Type	PSC - Permanent Split Capacitor Motor								
	Speed	3-Speed								
	Type	Coaxial Turbo Fan								
	Noise L. Hi (db)	40	44	44	43	44	45	45		
Air Filter	Cleanable Cartridge Type									
Water Connections In & Out inches (mm)		3/4 (19.05)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)		
Drain Connections Threaded inches (mm)		1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)		
Body Dimensions inches (mm)	Height	10 7/8 (275)	10 7/8 (275)	10 7/8 (275)	9 (230)	9 (230)	11.2 (285)	11.2 (285)		
	Width	22 7/8 (580)	22 7/8 (580)	22 7/8 (580)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)		
	Depth	22 7/8 (580)	22 7/8 (580)	22 7/8 (580)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)		
Body Net Weight Lbs (kgs)		48.5 (22)	48.5 (22)	48.5 (22)	50.7 (23)	50.7 (23)	57.3 (26)	61.7 (28)		
Panel Dimensions inches (mm)	Height	1 1/8 (30)	1 1/8 (30)	1 1/8 (30)	2 (50)	2 (50)	2 (50)	2 (50)		
	Width	25 5/8 (650)	25 5/8 (650)	25 5/8 (650)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)		
	Depth	25 5/8 (650)	25 5/8 (650)	25 5/8 (650)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)		
Panel Net Weight Lbs (kgs)		6.6 (3)	6.6 (3)	6.6 (3)	13.2 (6)	13.2 (6)	13.2 (6)	13.2 (6)		

Notes:

- Nominal cooling capacities are based in Cassette water Fan Coil, air entering conditions DB : 27 °C (80° F) WB : 19 °C (66.2° F) entering chilled water conditions : 7 °C (44.6° F) leaving chilled water conditions : 12 °C (53.6° F) at High Speed Fan , 220/1/60Hz.
- Sound Power level will be according to ISO 5151, Sound Pressure calculated at 1m of distance.
- For details of model number nomenclature, please refer to publication OMGNM-0621.