



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

## ACMW SERIES

### MODULAR AIR COOLED SCREW CHILLERS

Module Cooling Capacity: 65.4 - 122.0 Tons (230 - 430 kW)

Module Heat Recovery: 13.0 Tons (46 kW)

Max. Cooling Available: 488.0 Tons (1,720 kW)

### Product Features

- ✓ Cooling & Heat Recovery.
- ✓ 4 Stages of Capacity Control per Module.
- ✓ Modular Construction with up to 4 Modules per System.
- ✓ Bitzer Screw Compressors.
- ✓ Condenser with Gold Lance Fins & Inner Groove Copper Tubes.
- ✓ Crank Case Heater.
- ✓ Self Diagnostics.
- ✓ Electronic Expansion Valve.
- ✓ Running Conditions Real Time Display.
- ✓ Power Delay Control for Low Start-Up Current.
- ✓ Double Flow Design Shell & Tube Heat Exchanger.
- ✓ Microprocessor Controller with Human Interface Panel.
- ✓ Memory Function with 24 hours Clock Timer.
- ✓ Long Distance Monitoring & BMS (Optional).

### Standard Protective Devices

- ✓ High & Low Pressure.
- ✓ Compressor Discharge Temperature.
- ✓ Compressor Overload.
- ✓ Anti-Freeze.
- ✓ Water Flow Switch Error.
- ✓ Phase Loss & Phase Reverse.
- ✓ Temperature Sensor.
- ✓ Communication Error.



CMWA-MCC100A  
Modular Chiller System  
Controller



ACMW 065



ACMW 125



A Product of  
**OMEGA**  
Environmental  
Technologies LLC.

**ISO 14001 ISO 9001**



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MODULAR AIR COOLED SCREW CHILLER			
MODEL NO.	ACMW	065R8 F-RBC230	125R8 F-RBC430
Cooling Capacity	Tons (kW)	65.4 (230)	122.0 (430)
Heat Recovery	Tons (kW)	13.0 (46)	N/A
Efficiency - EER @ 100%	Btuh/W (W/W)	10.4 (3.03)	10.4 (3.03)
Capacity Adjustment Range	%	25-50-75-100	25-50-75-100
Max. Total No of Modules	Qty	4	4
Max. Total Capacity Available	Cooling Tons (kW)	261.6 (920)	488.0 (1720)
	Heat Recovery Tons (kW)	52 (184)	N/A
Condenser	Coil Type	Grooved Copper tube - Aluminum Gold Fins	
	Fan Type	Axial Fan	
	Motor Qty (FLA) each	6 x 2.26	10 x 2.26
	Air Flow CFM (m³/hr) (Hi)	12950 (22000)	21580 (36666)
	Fan Qty	6	10
	Power Input (W) each	1,800	1,800
	Noise Level Hi (dbA)	78	80
Evaporator	Heat Exchanger Type	High Efficiency Shell & Tube	
	Water Flow GPM (m³/hr)	175 (39.6)	326 (74.0)
	Wtr Pressure Drop ft.w(kPa)	16.4 (50)	16.4 (50)
	Type Connection	Flange	
	Water Pipe Ø in/out (in)	4	5
Compressor	Water Pipe Ø in/out (DN)	DN100	DN125
	Type / Brand	Semi Hermetic Screw / Bitzer	
	Qty	1	1
	Power Input (kW)	65.2	124.0
	Locked Rotor Amps (LRA)	314	650
	Rated Amps (RLA)	115	154
Electrical	Crankcase Heater (W)	300	300
	Voltage/Phase/Frequency	460~480 / 3 / 60Hz	
	Power Input / Cooling (kW)	76	142
	Rated Input / Cooling (kW)	114	199
	Current Input / Cooling (A)	95.5	178.4
Refrigerant Charge R134a (lbs / kgs)	Min. Circuit Amps (MCA)	154.7	205.5
	Max. Fuse Amps (MOCP)	225	300
Dimensions inches (mm)	Refrigerant Charge R134a (lbs / kgs)	(275.6 / 125)	(275.6 / 125)
	Height	100 3/8 (2550)	100 3/8 (2550)
	Width	147 1/2 (4000)	236 1/4 (6000)
Net Weight Lbs (kgs)	Depth	88 2/8 (2250)	88 2/8 (2250)
		9171.2 (4160)	12412.0 (5630)

**Notes:** 1. Nominal cooling capacities are based in, water Inlet / Outlet 13° C (55° F) / 7° C (45° F) and Outdoor Ambient DB/WB 35° C (95° F) / 24° C (75° F).  
Nominal Heat Recovery are based in, water Inlet / Outlet 40° C (104° F) / 45° C (113° F) and Outdoor Ambient DB/WB 7° C (45° F) / 6° C (43° F).

2. Up to 4 of 065/125 Tons modules could be connected for Max 448 Tons of cooling.  
3. 25-50-75-100% capacity control for 065/125 Models, @ 460~480V/3/60Hz  
4. For details of model number nomenclature, please refer to publication OGMNM-0415.

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