

OMEGA TECHNOLOGY

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

ACMN SERIES

DC INVERTER MINI CHILLER 50Hz

Cooling Capacity: 3.0 ~ 5.0 Tons (10.0~ 17.0 kW)

Heating Capacity: 3.2 ~ 5.3 Tons (11.0~ 18.5 kW)

Product Features

- ✓ Cooling & Heating.
- ✓ DC Inverter Twin Rotary Compressor.
- ✓ Blue Lance Fins & Inner Groove Copper Tubes.
- ✓ High Efficiency Plate Heat Exchanger.
- ✓ Built in Multi Speed Water Pump.
- ✓ Built in Water Pressure Gauge.
- ✓ Built in Expansion Tank.
- ✓ High Performance Condenser.
- ✓ Wide operation Temperature Range.
- ✓ Reduced Running Noise.
- ✓ Metallic Protective Cabinet.
- ✓ Rustproof Polyester Paint.
- ✓ Electronic Expansion Valves.
- ✓ Self Diagnostics.
- ✓ Running Conditions Real Time Display.
- ✓ Power Delay Control for Low Start-Up Current.
- ✓ Built in Electronic controller.



Wired Controller
(Optional)



Standard Protective Devices

- ✓ High & Low Pressure.
- ✓ Compressor Discharge Temperature.
- ✓ Compressor Overload.
- ✓ Anti-Freeze.
- ✓ Water Flow Switch Error.
- ✓ Voltage & Current protection.
- ✓ Temperature Sensor.
- ✓ Communication Error.



OMEGA

OTEC
AIR CONDITIONING

A Product of
OMEGA
Environmental
Technologies LLC.

ISO 14001 ISO 9001

ACMN SERIES

DC INVERTER MINI CHILLER 50Hz
Cooling Capacity: 3.0 ~ 5.0 Tons (10.0~ 17.0 kW)
Heating Capacity: 3.2 ~ 5.3 Tons (11.0~ 18.5 kW)

DC INVERTER COOLED MINI CHILLER			
MODEL NO.	ACMN	003P 3A-DBT030	005P 3A-DBT060
Cooling Capacity (Net) Tons (kW)	Nominal	3.0 (10.0)	5.0 (17.0)
	Minimum	0.8 (2.9)	1.1 (3.8)
	Maximum	3.1 (10.5)	5.2 (18.0)
Heating Capacity (Net) Tons (kW)	Nominal	3.2 (11.0)	5.3 (18.5)
	Minimum	0.9 (3.2)	1.2 (4.0)
	Maximum	3.4 (12.0)	5.4 (19.0)
EER @ 100%	Btuh/W (W/W)	11.6 (3.39)	9.9 (2.91)
COP	(W/W)	3.50	3.20
Compressor	Type	Twin Rotary Inverter	
	Qty	1	
	Rated Load Amps (RLA)	12.1	
Condenser	Coil Type	Grooved Copper tube - Hydrophilic Aluminium Foil	
	Fan Type	Axial Fan	
	Fan Qty	2	
	Air Flow CFM (m³/hr)	4120 (7000)	
	Noise Level Hi (dbA)	56	60
	Power Input (W) each	100	100
	Fan Motor (FLA) (2 motors)	0.90	
Evaporator	Heat Exchanger Type	Plate	
	No. of Circuits	25	35
	Water Flow GPM (m³/hr)	7.6 (1.7)	12.9 (2.92)
	Water Pressure Drop Psi. (kPa)	2.61 (18)	3.34 (23)
	Type Connection	Threaded Male	
	Water Pipe Ø in/out (in)	1-1/4	1-1/4
	Water Pipe Ø in/out (DN)	32	32
Water Pump	Input (H/M/L) (W)	210 / 175 / 120	210 / 175 / 120
	Pumping Head Ft. (1n)	24.6 (7.5)	
Refrigerant Charge R410A	(Lbs / Kgs)	6.2 / 2.8	7.5 / 3.4
	Voltage/Phase/Frequency	220-240 / 1 / 50Hz	
Electrical	Voltage Min~Max.	185 ~ 265	
	Rated Input / Cooling (kW)	3.1	5.6
	Rated Input / Heating (kW)	3.14	5.78
	Min. Circuit Amps (MCA)	15.6	15.6
	Max. Fuse Amps (MOCP)	25	25
Dimensions inches (mm)	Height	38 1/4 (970)	38 1/4 (970)
	Width	52 1/4 (1327)	52 1/4 (1327)
	Depth	15 3/4 (400)	15 3/4 (400)
Net Weight	Lbs (kgs)	243 (110)	247 (112)

- 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 Heating capacities 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. For details of model number nomenclature, please refer to publication OGMNM-0817.