

Modulating DX Evaporators

EMB & EHMB Series

Photo courtesy of Cruisers Yachts



EHM B12C cooling/
heating unit

Cruisair modulating DX evaporators are ductable cooling only (EMB) or cooling with electric heating (EHMB) units with built-in refrigerant solenoid valves and high-efficiency blowers. Cruisair modulating air conditioning systems allow up to five independent temperature-controlled zones on one RM type modulating condensing unit (see spec sheet L-2366).

EMB and EHMB units are designed to be installed low in a closet or cabinet, with discharge air ducted to grilles high in the cabin. Units are available in capacities from 4,000 to 16,000 Btu/hr. EMB models are cool only while EHMB feature electric heat with high-temperature insulation to meet ABYC requirements.

All metal surfaces over which air passes are covered with insulating foam to reduce secondary condensation and noise. The condensate pan has an anti-slosh, antifungal foam lining and rubber mounting feet for noise and vibration control as well as easy installation.

The high-efficiency blower can be rotated so the air can be discharged in different directions. The permanent split capacitor (PSC) motor is internal to the blower wheel and housing, which results in a quiet unit with excellent performance and speed control, especially when used with a Cruisair SMX series control.

An electrical junction box is included with the unit, and has a 3' (1 m) wire harness so it can be mounted in an accessible location.

EMB and EHMB cooling units can be controlled locally with a mechanical switch assembly, SMX II microprocessor†, or the new Q-Logic with Qht or Q3 display.

Remote monitoring via the central boat monitoring system or Cruisair's Gateway network is possible with the Q-Logic control system and optional CAN-bus adapter board.

Key Benefits

- Cooling unit for use with Modulating Systems.
- Integrated refrigerant solenoid valves.
- Rotatable blower with high-efficiency internal PSC motor.
- Deep condensate pan is insulated and includes anti-slosh, antifungal foam lining.
- Includes air filter and isolation mounting feet.
- Available in cooling only (EMB) or with electric heat (EHMB).
- Mechanical switch, SMX II, or Q-Logic local climate controls.
- Remote monitoring via central boat monitoring system or Gateway network.*

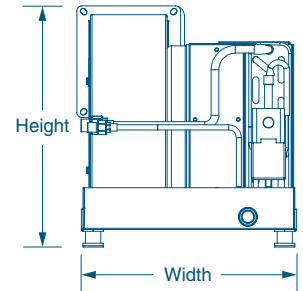
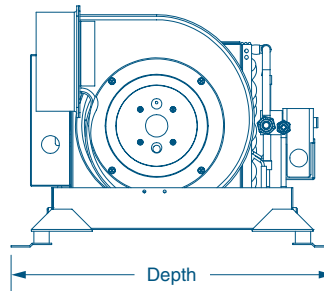
* Requires Q-Logic control with optional CAN-bus adapter. Gateway network requires a PC running Internet Explorer.

Technical Specifications for EMB & EHMB Cooling/Heating Units

Model	Capacity (BTU/hr)	Voltage	Blower Amps	Electric Heater (kW/Amps)	Dimensions (in/mm)			Weight (lb/kg)	Air Flow (cfm/cmh)
					Height	Width	Depth		
EMB4C EHMB4C	4,000	230	0.6	N/A 1.0/4.2	10.00/255	10.80/275	13.80/352	17/7.7 20/9.1	200/335
EMB6C EHMB6C	6,000	230	0.6	N/A 1.0/4.2	12.25/311	11.50/292	15.75/400	19/8.6 22/10.0	200/335
EMB8C EHMB8C	8,000	230	0.6	N/A 1.0/4.2	12.25/311	11.50/292	15.75/400	19/8.6 22/10.0	200/335
EMB10C EHMB10C	10,000	230	0.7	N/A 1.5/6.2	13.25/337	13.00/330	17.00/432	24/10.9 28/12.7	300/500
EMB12C EHMB12C	12,000	230	0.7	N/A 2.0/8.3	13.25/337	13.00/330	17.00/432	24/10.9 28/12.7	400/670
EMB16C EHMB16C	16,000	230	0.9	N/A 2.0/8.3	17.13/435	14.50/368	19.00/483	26/11.8 30/13.6	530/900

Interpreting Model Numbers

E	H	M	B	12	C
Evaporator	No Letter: No Heat H: Electric Heat	Modulating System	Blower	Capacity X 1,000 BTU/hr	C: 230V



Recommended Grille & Duct Sizes

Capacity (BTU/hr)	Return Air Grille (sq in/cm)	Supply Air Grille (sq in/cm)	Minimum Duct Size (in/mm)
4,000	64/410	32/210	4/100
6,000	70/452	35/226	5/125
8,000	89/574	47/303	5/125
10,000	100/650	60/390	6/150
12,000	130/780	70/455	6/150
16,000	160/935	80/520	7/175

Refrigerant Line Sizes

Capacity (BTU/hr)	Discharge	Suction
4-12K	1/4"	3/8"
16K	1/4"	1/2"

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