



EHMB12C Shown

### Features

- 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 or with electric heat

### EMB and EHMB Models

EMB and EHMB are ductable cooling units with built-in refrigerant solenoid valves and high-efficiency blowers. They are used with Cruisair Modulating Systems, which allow up to five independent temperature-controlled zones on one FM type modulating condensing unit, (see specification sheet L-0958).

They are designed to be installed low in a closet or cabinet, with discharge air ducted to grills high in the cabin. Units are available in capacities from 4,000 to 16,000 Btu/hr.

The EMB and EHMB units consist of an evaporator coil, refrigerant metering device, solenoid valve, refrigerant lines, and squirrel cage blower, all mounted in a condensate pan. 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 foot (1 m) wire harness so it can be mounted in an accessible location.

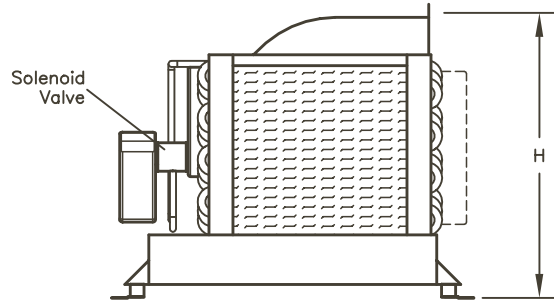
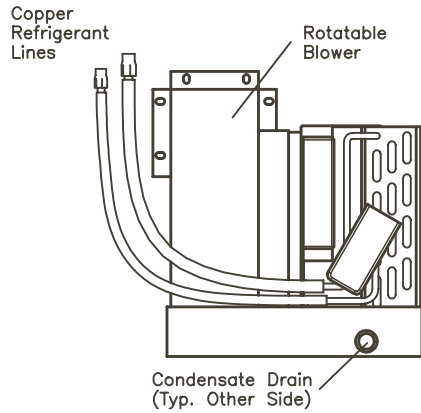
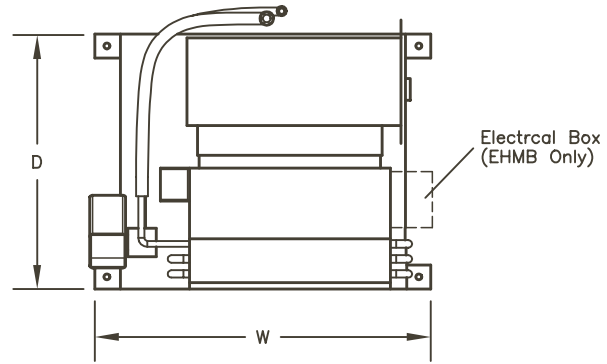
EHMB units have integrated electric heat elements. High temperature protection of the heater is provided by two limit switches, one auto-reset and one manual reset. The coil shroud is lined with high temperature insulation to meet ABYC requirements.

Note: Cruisair FM type modulating condensing units are cooling only. If heat is required, the EHMB cooling unit with electric heat must be used.

Cruisair cooling units can be used with a rotary-knob switch assembly, or with the SMX II microprocessor system with an SMXir keypad/display.

For SMX, the corresponding modulating power/logic box, control, and cables must be ordered separately.

| Refrigerant Line Sizes |           |         |
|------------------------|-----------|---------|
| Unit Size              | Discharge | Suction |
| 4,000 to 12,000 Btu/hr | 1/4"      | 3/8"    |
| 16,000 Btu/hr          | 1/4"      | 1/2"    |



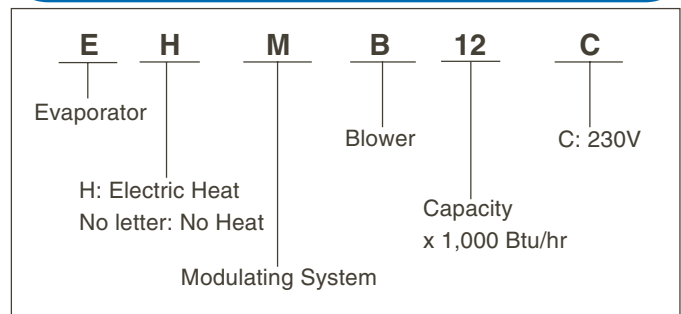
### TECHNICAL SPECIFICATIONS

| Model   | Capacity (Btu/hr) | Voltage | Blower Amps | Electric Heat (kW/Amps) | Height (in/mm) | Width (in/mm) | Depth (in/mm) | Weight (lb/kg) | Air Flow (cfm/cmh) |
|---------|-------------------|---------|-------------|-------------------------|----------------|---------------|---------------|----------------|--------------------|
| EMB4C   | 4,000             | 230     | 0.6         | —                       | 10.0/255       | 10.8/275      | 13.8/352      | 17/7.7         | 200/335            |
| EHMB4C  |                   |         |             | 1/4.2                   |                |               |               | 20/9.1         |                    |
| EMB6C   | 6,000             | 230     | 0.6         | —                       | 10.0/255       | 10.8/275      | 13.8/352      | 19/8.6         | 200/335            |
| EHMB6C  |                   |         |             | 1/4.2                   |                |               |               | 22/10.0        |                    |
| EMB8C   | 8,000             | 230     | 0.6         | —                       | 10.0/255       | 10.8/275      | 13.8/352      | 19/8.6         | 200/335            |
| EHMB8C  |                   |         |             | 1/4.2                   |                |               |               | 22/10.0        |                    |
| EMB10C  | 10,000            | 230     | 0.7         | —                       | 11.0/280       | 12.0/306      | 15.0/383      | 24/10.9        | 300/500            |
| EHMB10C |                   |         |             | 1.5/6.2                 |                |               |               | 28/12.7        |                    |
| EMB12C  | 12,000            | 230     | 0.7         | —                       | 11.0/280       | 12.0/306      | 15.0/383      | 24/10.9        | 400/670            |
| EHMB12C |                   |         |             | 2/8.3                   |                |               |               | 28/12.7        |                    |
| EMB16C  | 16,000            | 230     | 0.9         | —                       | 13.5/345       | 12.6/321      | 17.0/438      | 31/14.1        | 530/900            |
| EHMB16C |                   |         |             | 2/8.3                   |                |               |               | 35/15.9        |                    |

### RECOMMENDED GRILL & DUCT SIZES

| Unit Capacity (Btu/hr) | Min. Return Air Grill (sq in/cm) | Min. Supply Air Grill (sq in/cm) | Duct Size (in/mm) |
|------------------------|----------------------------------|----------------------------------|-------------------|
| 4,000                  | 64/410                           | 32/210                           | 4/100             |
| 6,000                  | 72/465                           | 49/315                           | 5/125             |
| 8,000                  | 72/465                           | 49/315                           | 5/125             |
| 10,000                 | 100/650                          | 60/390                           | 6/150             |
| 12,000                 | 120/780                          | 70/455                           | 6/150             |
| 16,000                 | 144/935                          | 80/520                           | 7/175             |

### INTERPRETING MODEL NUMBERS



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