EBS Models

EBS is a pull-through ductable cooling/heating unit with a variable-speed blower, enclosed in an aluminum housing. The EBS unit is designed to be installed low in a closet or cabinet, with air ducted upward to discharge grills high in the cabin.

EBS models are available in capacities of 12,000 and 16,000 Btu/hr. They may be used with Cruisair Type F or Type J reverse-cycle remote condensing units. Multiple cooling/heating units can be used with a single condensing unit of sufficient capacity in a split system.

The EBS unit consists of an evaporator coil, refrigerant line connections, condensate drain pan and a high-efficiency squirrel-cage blower which pulls air across the evaporator coils. The blower is for fixed vertical discharge only. A removable lint screen is installed across the front of the evaporator coils. A plastic clamp is also provided for attaching the thermostat sensor in the return air path.

The entire lower section of the cabinet serves as a condensate drain pan. A mounting frame should be used with the EBS unit. The drain pan is filled with anti-slosh, antifungal foam which also acts as a noise dampening material.

The cooling/heating unit can work with a combination of plenums and flexible or built-in ductwork to convey discharge air to one or more cabins. When used with built-in ducts, there should be a flexible transition between the duct and blower.

Cruisair cooling units can be used with a rotary-knob switch assembly, or with either the SMX II or SMX Net microprocessor control systems and a SMXir keypad/display. Models with electric heat must use SMX Net or the SA5 4-knob switch assembly.

Features

- 12,000-16,000 Btu/hr
- 115V and 230V, 60/50 Hz models
- Works with Cruisair Type F or J remote condensing units
- Entire unit enclosed in aluminum housing
- Variable-speed blower for fixed vertical discharge
- Integral built-in condensate drain pan
- Anti-slosh, antifungal foam in drain pan
- Removable lint screen for easy cleaning
### Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (Btu/hr)</th>
<th>Voltage VAC</th>
<th>Amps</th>
<th>Height (in/mm)</th>
<th>Width (in/mm)</th>
<th>Depth (in/mm)</th>
<th>Weight (lb/kg)</th>
<th>Air Flow cfm/cmh</th>
</tr>
</thead>
<tbody>
<tr>
<td>EBS12</td>
<td>12,000</td>
<td>115</td>
<td>2.4</td>
<td>14.0/355</td>
<td>15.5/395</td>
<td>10.5/267</td>
<td>30/13.6</td>
<td>400/672</td>
</tr>
<tr>
<td>EBS12C</td>
<td>12,000</td>
<td>230</td>
<td>1.2</td>
<td>14.0/355</td>
<td>15.5/395</td>
<td>10.5/267</td>
<td>30/13.6</td>
<td>400/672</td>
</tr>
<tr>
<td>EBS16S</td>
<td>16,000</td>
<td>115</td>
<td>3.0</td>
<td>14.0/355</td>
<td>16.0/406</td>
<td>11.5/292</td>
<td>32/14.5</td>
<td>530/890</td>
</tr>
<tr>
<td>EBS16SC</td>
<td>16,000</td>
<td>230</td>
<td>1.5</td>
<td>14.0/355</td>
<td>16.0/406</td>
<td>11.5/292</td>
<td>32/14.5</td>
<td>530/890</td>
</tr>
</tbody>
</table>

Frequency: 60 Hz or 50 Hz

### Interpreting Model Numbers

- **E** Typing Unit (Evaporator)
- **B** Type of Air Mover
  - B: Blower
  - F: Fan
- **S** Model Group
- **12** Capacity C: 230V x 1000 Btu/hr
- **C** Voltage
  - No Letter: 115V

### Recommended Grill & Duct Sizes

<table>
<thead>
<tr>
<th>Btu/hr</th>
<th>Minimum Return Grill Size (sq in/cm)</th>
<th>Minimum Discharge Grill Size (sq in/cm)</th>
<th>Recommended Duct Size (in/mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12,000</td>
<td>120/780</td>
<td>70/455</td>
<td>6/150</td>
</tr>
<tr>
<td>16,000</td>
<td>144/935</td>
<td>80/520</td>
<td>7/175</td>
</tr>
</tbody>
</table>