The Emerald TurboVap series of split-system evaporators incorporates revolutionary design features with mechanical engineering that maximizes the effectiveness of R-410A, an environmentally safe refrigerant.

Emerald TurboVaps are easy to install. For ideal positioning, the high-velocity blower can rotate up to 270 degrees with a single adjustment screw. The enclosed motor means no blower-motor overhang for a compact design.

Since evaporators are usually positioned in or near cabins, noise is always a concern. The Emerald TurboVap uses a vibration-isolation mounting system to minimize noise, so the evaporator runs more quietly. The fully insulated, high-velocity blowers are quiet and efficient.

Excellent condensate drainage is achieved with a unique positive-flow, anti-slosh, composite drain pan that is rust-free. Condensate water is rapidly removed at one of two easy-to-plumb drain locations.

The Emerald TurboVap Series was designed to operate as a system with the Emerald Condenser Series. Both of these split-system components were engineered to harness and maximize the superior thermodynamic properties of the environmentally safe R-410A refrigerant.

The Emerald TurboVap is available in six capacities ranging from 4,000 to 16,000 BTU/hr.

Rust-free molded composite drain pan reduces standing water – 2 oz. (59 ml) vs. 16 oz. (473 ml) in ordinary pans. Innovatively engineered “positive flow” drain channels prevent the sloshing and spilling of condensate — even in the roughest seas.

Key Benefits
- Up to 28% reduced amperage.
- Up to 85% reduction of standing water in the drain pan.
- Up to 14% increase in cooling capacity.
- Up to 15% reduced weight.
- Up to 17% reduction in height.
- Up to 19% increased air flow CFM.
- Positive-flow, anti-slosh, rust-free drain pan ensures condensate does not spill.
- Installation time reduced by 15 minutes.
- Single screw for 270° blower rotation.
- No blower-motor overhang reduces depth.
- Vibration-isolation mounting system reduces noise.
- Pair it with an Emerald Condenser for maximum performance.
- Available in 4K, 6K, 8K, 10K, 12K, and 16K BTU/hr capacities.
- 115V or 230V models.
- Engineered to maximize thermodynamic properties of R-410A, an environmentally safe refrigerant.
## Technical Specifications for Emerald TurboVap DX Evaporators

<table>
<thead>
<tr>
<th>Model(1)</th>
<th>TVE4</th>
<th>TVE6</th>
<th>TVE8</th>
<th>TVE10</th>
<th>TVE12</th>
<th>TVE16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity BTU/hr</td>
<td>4,000</td>
<td>6,000</td>
<td>8,000</td>
<td>10,000</td>
<td>12,000</td>
<td>16,000</td>
</tr>
<tr>
<td>Voltage (VAC) @ 50-60Hz/1 Ph</td>
<td>115 230</td>
<td>115 230</td>
<td>115 230</td>
<td>115 230</td>
<td>115 230</td>
<td>115 230</td>
</tr>
<tr>
<td>Full Load Amps Blower (FLA)</td>
<td>0.8 0.41</td>
<td>0.8 0.41</td>
<td>1.56 0.83</td>
<td>1.14 0.61</td>
<td>1.14 0.61</td>
<td>1.61 0.78</td>
</tr>
<tr>
<td>K.V.A. (Kilo-Volt-Amps)</td>
<td>0.09 0.09</td>
<td>0.09 0.09</td>
<td>0.18 0.19</td>
<td>0.13 0.14</td>
<td>0.13 0.14</td>
<td>0.19 0.18</td>
</tr>
<tr>
<td>Suggested Circuit Breaker (Amps)</td>
<td>2.0 1.0</td>
<td>2.0 1.0</td>
<td>4.0 2.0</td>
<td>3.0 1.0</td>
<td>3.0 1.0</td>
<td>4.0 2.0</td>
</tr>
</tbody>
</table>

### Unit Dimensions (in/mm)

<table>
<thead>
<tr>
<th>Description</th>
<th>TVE4</th>
<th>TVE6</th>
<th>TVE8</th>
<th>TVE10</th>
<th>TVE12</th>
<th>TVE16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height – Evaporator (H1)</td>
<td>10.8/274</td>
<td>10.8/274</td>
<td>10.8/274</td>
<td>12.6/320</td>
<td>12.6/320</td>
<td>13.0/330</td>
</tr>
<tr>
<td>Min. Duct Size Ø</td>
<td>4.0/102</td>
<td>4.0/102</td>
<td>5.0/127</td>
<td>6.0/152</td>
<td>6.0/152</td>
<td>7.0/178</td>
</tr>
<tr>
<td>Min. Supply Air Grille (sq. in./cm.)</td>
<td>32/206</td>
<td>32/206</td>
<td>48/310</td>
<td>60/387</td>
<td>70/452</td>
<td>81/523</td>
</tr>
<tr>
<td>Min. Return Air Grille (sq. in./cm.)</td>
<td>64/413</td>
<td>64/413</td>
<td>80/516</td>
<td>110/710</td>
<td>130/839</td>
<td>160/1032</td>
</tr>
<tr>
<td>Net Weight (lbs./kg.)</td>
<td>10.5/4.8</td>
<td>11.0/5.0</td>
<td>14.0/6.4</td>
<td>17.5/7.9</td>
<td>17.5/7.9</td>
<td>20.5/9.3</td>
</tr>
<tr>
<td>Gross Weight (lbs./kg.)</td>
<td>18.5/8.4</td>
<td>19.0/8.6</td>
<td>22.0/10.0</td>
<td>25.5/11.6</td>
<td>25.5/11.6</td>
<td>28.5/12.9</td>
</tr>
</tbody>
</table>

### Notes:
1. End all model numbers with a ‘115V’ or ‘230V’ depending on the selected voltage.
2. Add 2.0”/51mm to the height dimension to allow for the duct ring (not included) when the blower is installed in the vertical position.

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**Typical Installation of a Split A/C System**

- **Supply-Air Grille**
- **Flexible duct**
- **Evaporator/Blower Assembly (Air Handler)**
- **Condensate Drain**
- **Insulated Copper Line Set**
- **Shut-off Valve**
- **Thru-hull Fitting (Clam Shell Scoop)**
- **Overboard Discharge**
- **Display Panel**
- **Condensing Unit**
- **Insulated Copper Line Set**
- **Sea-Water Pump**
- **Sea-Water Strainer**
- **Sea-Water Inlet**
- **Sea-Water Outlet**

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**DOMETIC MARINE**

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