Standard Features:
- ETL listed to UL1995 & CAN/CSA C22.2 No. 236-11, 4th edition, 10/14/2011
- Single Point Power Connection
- Pentra Microsmart, Programmable Logic Controller (PLC) with easy to use HMI touch screen display
- Data Recording Memory Card
- STAINLESS STEEL, brazed plate evaporator
- SEMI-HEMETIC compressor with crankcase heater and vibration spring mounting kit
- Compressor discharge and suction pipe vibration eliminators
- Suction Accumulator
- Liquid sight-glass, solenoid, TXV and replaceable core drier
- Water flow switch
- 24V control transformer
- Fan cycle control (+40°F)
- Direct drive condenser fan motor
- Rust resistant, high CFM, aluminum condenser fan blade
- Condenser(s): copper tube/aluminum fin, Floating Tube™
- 5 year condenser warranty against tube sheet leaks
- Compressor motor contactor
- Individual condenser motor contactors and fusing
- Condenser control panel with factory mounted door interrupt disconnect switch
- Galvanized steel sheet metal cabinet
- 1/2 inch insulation on all water and refrigerant lines
- Operating Refrigerant charge from factory
- Factory Performance Test prior to shipment

Options:
- Compressor Cylinder Unloading
- Remote Idec touchscreen control panel
- Industrial VPN Router
- 5 Port Ethernet Switch
- BacNet Gateway
- Process Pump VFD Controller
- 4 year extended compressor warranty
- 115 volt (rain tight) service outlet
- Non Fused Disconnect
- Phase Monitor, line voltage monitor offering protection against phase loss/reversal, unbalance and hi/lo voltage
- Compressor fusing
- Compressor Sound Cover
- Flooded cond. w/receiver/head pressure control (0°F)
- Heated, flooded cond. w/receiver/head pressure control (-20°F)
- Factory installed evaporator heat tape freeze protection
- Fused, STAINLESS STEEL process pump
- Dual process pump with manual changeover
- Dual process pump with auto changeover
- Pump suction isolation valve
- Water pressure gauge set
- Water Flow Meter
- Copper finned condenser coil (coastal protection)
- BohnGuard™ coated condenser coil (coastal protection)
- Epoxy or Phenolic coated fins (coastal protection)
- Door Mounted HMI with weather proof cover
**PRODUCT DATA SHEET**

**Model: PSA16D**

Packaged Air-Cooled 16 Ton Chiller

**Dimensional & Electrical Table (Dual Circuit)**

<table>
<thead>
<tr>
<th>Chiller Models</th>
<th>Length Inches</th>
<th>Width Inches</th>
<th>Height Inches</th>
<th>Voltage</th>
<th>Phase</th>
<th>Freq.</th>
<th>Compressor Qty.</th>
<th>HP</th>
<th>RLA ea.</th>
<th>LRA ea.</th>
<th>Fan Motor Qty.</th>
<th>FLA.</th>
<th>MCA</th>
<th>M.O.P</th>
<th>Chiller Fluid Conn.</th>
<th>Weight Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSA16DF5</td>
<td>176.5</td>
<td>45</td>
<td>55</td>
<td>208/230V</td>
<td>3</td>
<td>60Hz</td>
<td>2</td>
<td>8</td>
<td>36.8</td>
<td>215</td>
<td>7</td>
<td>100</td>
<td>125</td>
<td></td>
<td>2&quot; FPT</td>
<td>3200</td>
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<tr>
<td>PSA16DH5</td>
<td></td>
<td></td>
<td></td>
<td>460V</td>
<td>3</td>
<td>60Hz</td>
<td>2</td>
<td>8</td>
<td>17.9</td>
<td>106</td>
<td>3.5</td>
<td>50</td>
<td>60</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>PSA16DI5</td>
<td></td>
<td></td>
<td></td>
<td>575V</td>
<td>3</td>
<td>60Hz</td>
<td>2</td>
<td>8</td>
<td>14.7</td>
<td>84</td>
<td>2.8</td>
<td>40</td>
<td>50</td>
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<td></td>
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</table>

**Capacity Table (Refrigerant R407C)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>LWT °F</th>
<th>80°F</th>
<th>90°F</th>
<th>95°F</th>
<th>100°F</th>
<th>105°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>16D</td>
<td>3DA3R10ME</td>
<td>42.0</td>
<td>17.8</td>
<td>15.8</td>
<td>10.5</td>
<td>17.8</td>
<td>9.0</td>
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<tr>
<td></td>
<td></td>
<td>44.0</td>
<td>18.6</td>
<td>15.9</td>
<td>10.9</td>
<td>17.3</td>
<td>9.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>45.0</td>
<td>19.0</td>
<td>15.9</td>
<td>11.1</td>
<td>17.7</td>
<td>9.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50.0</td>
<td>21.2</td>
<td>16.0</td>
<td>12.3</td>
<td>19.7</td>
<td>10.5</td>
</tr>
</tbody>
</table>

1. Capacities on this chart are based on refrigerant R407C. Lower leaving water or low ambient can require the use of a glycol solution or other fluid blends. These solutions affect unit capacities. Please consult the factory on these or other special fluids.
2. KW input is for compressor(s) only.
3. EER = Energy Efficiency Ratio (BTU/watt-hour). Power inputs include compressor(s), condenser fan motor(s) and control power.

**Product Dimensional Drawing**