**Standard Features:**

- **ETL listed** to UL 1995 & 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 Ides 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: PSA33D
Packaged Air-Cooled
33 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>Power Voltage Phase 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>PSA33DF5</td>
<td>176.5</td>
<td>88</td>
<td>55</td>
<td>208/230V 3 60Hz</td>
<td>2</td>
<td>17</td>
<td>76.9</td>
<td>374</td>
<td>7</td>
<td>225</td>
<td>250</td>
<td></td>
<td>2” FPT</td>
<td>4700</td>
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<tr>
<td>PSA33DH5</td>
<td></td>
<td></td>
<td></td>
<td>460V 3 60Hz</td>
<td>2</td>
<td>17</td>
<td>38.5</td>
<td>187</td>
<td>7</td>
<td>110</td>
<td>125</td>
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<tr>
<td>PSA33DI5</td>
<td></td>
<td></td>
<td></td>
<td>575V 3 60Hz</td>
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<td>17</td>
<td>30.1</td>
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<td>7</td>
<td>80</td>
<td>100</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>EER</th>
<th>90°F</th>
<th>EER</th>
<th>95°F</th>
<th>EER</th>
<th>100°F</th>
<th>EER</th>
<th>105°F</th>
<th>EER</th>
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<tr>
<td>33D</td>
<td>4DBNR20ME</td>
<td>42.0</td>
<td>35.7</td>
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<td>10.0</td>
<td>32.5</td>
<td>36.7</td>
<td>8.5</td>
<td>31.0</td>
<td>38.1</td>
<td>7.9</td>
<td>29.5</td>
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<td></td>
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<td>44.0</td>
<td>37.3</td>
<td>34.2</td>
<td>10.4</td>
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<td>37.2</td>
<td>8.8</td>
<td>32.5</td>
<td>38.6</td>
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<td>45.0</td>
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<td>9.2</td>
<td>35.7</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

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