**PRODUCT DATA SHEET**

**Model: PZAT5S**

*Packaged Air-Cooled 5 Ton Chiller*

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**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
- STAINLESS STEEL Tank
- Fused, STAINLESS STEEL recirculation pump for tank
- STAINLESS STEEL, brazed plate evaporator
- Scroll compressor with crankcase heater
- Suction accumulator
- Water flow switch
- Hot gas by-pass capacity control
- 24V control transformer
- Direct drive condenser fan motor
- Rust resistant, high CFM, aluminum condenser fan blade
- Condenser(s): copper tube/aluminum fin
- Compressor motor contactor
- Condenser motor and control circuit fusing
- Painted (Powder Coated), galvanized sheet metal cabinet
- 1/2” insulation on all water and Low pressure refrigerant lines
- Liquid line drier, sight glass, solenoid, TXV
- Complete refrigerant charge from factory
- Factory Performance Test prior to shipment

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**Options:**

- Copeland Digital Scroll Compressor (Hot Gas Bypass Removed)
- Remote Idec touchscreen control panel
- Industrial VPN Router
- 5 Port Ethernet Switch
- BacNet Gateway
- STAINLESS STEEL Process Pump
- Process Pump VFD Controller
- VFD Compressor Control (Hot Gas Bypass Removed)
- 4 year extended compressor warranty
- Casters (factory mounted)
- 115 volt (rain tight) service outlet
- Non Fused Disconnect
- Phase/voltage monitor
- Compressor fusing
- Tank Sight Glass
- Compressor Sound Cover
- Flooded cond. w/receiver/head pressure control (0°F)
- Flooded cond. w/Heated receiver/head pressure control (-20°F)
- Dual process pumps with auto changeover
- Pump suction isolation valve(s)
- Water pressure gauge set
- Copper finned condenser coil (coastal protection)
- Coastal powder coat paint protection
- E-Coat Condenser Coil (coastal protection)
- Water Flow Meter
- Auto city water make up solenoid & auto level switch
- Auto city water changeover panel with filter
- Door Mounted HMI with weather proof cover

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PRODUCT DATA SHEET

Model: PZAT5S
Packaged Air-Cooled
5 Ton Chiller

with Stainless Steel Tank

Dimensional & Electrical Table (Single Circuit)

<table>
<thead>
<tr>
<th>Chiller Models</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Voltage</th>
<th>Phase</th>
<th>Freq.</th>
<th>RL A</th>
<th>FL A</th>
<th>L R A</th>
<th>FL A</th>
<th>Compressor</th>
<th>M C A</th>
<th>M. O. P</th>
<th>Reservoir</th>
<th>Fluid Conn.</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>PZAT5SF5</td>
<td>46</td>
<td>34</td>
<td>74</td>
<td>208/230</td>
<td>3</td>
<td>60Hz</td>
<td>166</td>
<td>3.8</td>
<td>2.8</td>
<td>4.2</td>
<td>10.3</td>
<td>75</td>
<td>1</td>
<td>15</td>
<td>45</td>
<td>50</td>
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<tr>
<td>PZAT5SH5</td>
<td>460</td>
<td>3</td>
<td>60Hz</td>
<td>1.5</td>
<td>0.9</td>
<td>20</td>
<td>25</td>
<td>54</td>
<td>1.72</td>
<td>0.72</td>
<td>1</td>
<td>15</td>
<td>20</td>
<td>70</td>
<td>1&quot; FPT</td>
<td>900</td>
</tr>
<tr>
<td>PZAT5SI5</td>
<td>528</td>
<td>3</td>
<td>60Hz</td>
<td>1.72</td>
<td>0.72</td>
<td>15</td>
<td>20</td>
<td>54</td>
<td>1.72</td>
<td>0.72</td>
<td>1</td>
<td>15</td>
<td>20</td>
<td>70</td>
<td>1&quot; FPT</td>
<td>900</td>
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</table>

= Requires the use of glycol.  
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>
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<tbody>
<tr>
<td></td>
<td></td>
<td>TONS</td>
<td>KW</td>
<td>EER</td>
<td>TONS</td>
<td>KW</td>
<td>EER</td>
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<tr>
<td>5S</td>
<td>ZB45KE</td>
<td>42.0</td>
<td>4.9</td>
<td>4.6</td>
<td>4.5</td>
<td>5.1</td>
<td>10.5</td>
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<td></td>
<td></td>
<td>44.0</td>
<td>5.1</td>
<td>4.6</td>
<td>4.8</td>
<td>5.2</td>
<td>10.7</td>
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<td>5.2</td>
<td>4.7</td>
<td>4.9</td>
<td>5.2</td>
<td>10.9</td>
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<tr>
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<td>50.0</td>
<td>5.8</td>
<td>4.8</td>
<td>5.4</td>
<td>5.3</td>
<td>10.6</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