Product Data Sheet

Model: IEZAT7S
Split-System Air-Cooled
7 Ton Chiller

with Stainless Steel Tank

STANDARD ON ALL LEGACY CHILLER MODELS:
Pentra Microsmart, Programmable Logic Controller (PLC) with HMI Touch Screen Display.

**Standard Features:**

- ETL listed to UL1995 & CAN/CSA C22.2
- Single Point Power Connection
- Pentra Microsmart, Programmable Logic Controller (PLC) with easy to use HMI touch screen display
- STAINLESS STEEL, brazed plate evaporator
- Scroll compressor with crankcase heater
- Suction Accumulator
- Water flow switch
- Hot Gas Bypass Capacity Control
- 24V control transformer
- Control circuit fusing
- Compressor motor contactor
- Painted - Powder Coated (Most Models), galvanized sheet metal cabinet
- 1/2" insulation on all water and refrigerant lines
- Liquid line drier, sight glass, solenoid, TXV
- Complete refrigerant charge from factory
- Factory Performance Test prior to shipment

**Tank**

- STAINLESS STEEL storage tank with 1/2 inch insulation
- Fused, STAINLESS STEEL re-circulation pump for tank operation with ball valve and cleanable strainer
- Tank pressure relief valve, vent and drain hose bibs

**Options:**

- Copeland Digital Scroll Compressor
- Remote Idec touchscreen control panel
- Industrial VPN Router
- 5 Port Ethernet Switch
- BacNet Gateway
- Process Pump VFD Controller
- VFD Compressor Control on primary compressor
- 4 year extended compressor warranty
- Condenser water regulating valve
- 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
- Factory installed evaporator heat tape freeze protection
- Low flow by-pass valve
- Fused, STAINLESS STEEL process pump
- Dual system pump with manual changeover (some models)
- Dual system pump with auto changeover (some models)
- Pump suction isolation valve
- Water pressure gauge set
- Water Flow Meter
- Auto city water changeover panel with filter
- Stainless steel, SCH80 PVC or Polypropylene piping for deionized and reverse osmosis water systems
- Door Mounted HMI with weather proof cover

**Tank Options**

- Storage tank sight glass
- Tank low liquid level indicator with dry contacts
- Auto Tank Fill

---

Easy to Use
Touch Screen Display on all Legacy Chiller Models

© Property of Legacy Chillers, Inc.
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.

---

### 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>Frequent</th>
<th>Compressor RLA</th>
<th>Fan Motor Recirculation Pump FLA</th>
<th>MCA</th>
<th>M.O.P</th>
<th>Reservoir Gal.</th>
<th>Chiller Fluid Conn.</th>
<th>Weight LBS.</th>
<th>Condenser Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEZAT7SF5</td>
<td>75</td>
<td>34</td>
<td>70</td>
<td>208/230V</td>
<td>3</td>
<td>60Hz</td>
<td>28.8</td>
<td>195</td>
<td>3.8</td>
<td>5.4</td>
<td>50</td>
<td>1 1/4&quot; FTP</td>
<td>1100</td>
<td>0C7S</td>
</tr>
<tr>
<td>IEZAT7SH5</td>
<td>460V</td>
<td>3</td>
<td>60Hz</td>
<td>14.7</td>
<td>95</td>
<td></td>
<td>1.5</td>
<td>1.4</td>
<td>30</td>
<td>40</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IEZAT7SIS</td>
<td>575V</td>
<td>3</td>
<td>60Hz</td>
<td>10.8</td>
<td>80</td>
<td>1</td>
<td>1.72</td>
<td>20</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</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></td>
<td></td>
<td></td>
<td>TONS</td>
<td>KW</td>
<td>EER</td>
<td>TONS</td>
<td>KW</td>
</tr>
<tr>
<td>7S</td>
<td>ZB58KCE</td>
<td>42.0</td>
<td>6.0</td>
<td>5.9</td>
<td>11.1</td>
<td>5.7</td>
<td>6.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>44.0</td>
<td>6.3</td>
<td>6.1</td>
<td>11.4</td>
<td>5.9</td>
<td>7.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>45.0</td>
<td>6.4</td>
<td>6.3</td>
<td>11.6</td>
<td>6.1</td>
<td>7.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50.0</td>
<td>7.2</td>
<td>6.9</td>
<td>12.3</td>
<td>6.8</td>
<td>7.2</td>
</tr>
</tbody>
</table>

* requiring the use of glycol.

---

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

[Diagram of the chiller with dimensions and views.]