**PRODUCT DATA SHEET**

**Model: IESA88D**  
**Split-System Air-Cooled**  
**88 Ton Chiller**

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

**Standard Features:**
- ETL listed to UL1995 & CAN/CSA C22.2 No. 236-11, 4th edition, 10/14/2011
- Single Point Power Connection
- Idec microprocessor controller with easy to use HMI touch screen display
- 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:**
- 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 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

© Property of Legacy Chiller Systems, Inc.
PRODUCT DATA SHEET

Model: **IESA88D**
*Split-System Air-Cooled 88 Ton Chiller*

---

### Indoor 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</th>
<th>Compressor</th>
<th>RLA ea.</th>
<th>LRA ea.</th>
<th>Fan Motor Qty. FLA</th>
<th>MCA</th>
<th>M.O.P</th>
<th>Chiller Fluid Conn.</th>
<th>Weight Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>IESA88DF5</td>
<td>120</td>
<td>34</td>
<td>68</td>
<td>Voltage</td>
<td>Phase</td>
<td>Freq.</td>
<td>Qty.</td>
<td>HP</td>
<td>201.3</td>
<td>1070</td>
<td>7</td>
<td>500</td>
</tr>
<tr>
<td>IESA88DH5</td>
<td>460V</td>
<td>3</td>
<td>60Hz</td>
<td>2</td>
<td>60</td>
<td>100.6</td>
<td>535</td>
<td>6</td>
<td>3.5</td>
<td>250</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>IESA88DI5</td>
<td>575V</td>
<td>3</td>
<td>60Hz</td>
<td>71.8</td>
<td>405</td>
<td>2.8</td>
<td>200</td>
<td>250</td>
<td>2.5 MPT</td>
<td>2800</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Outside Condenser Specs (OC)

<table>
<thead>
<tr>
<th>Outside Condenser</th>
<th>Length Inches</th>
<th>Width Inches</th>
<th>Height Inches</th>
<th>Fan Motor Qty. HP</th>
<th>Refrigerant Conn. Discharge Liquid</th>
<th>Weight Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>OC88D</td>
<td>180</td>
<td>88</td>
<td>49.13</td>
<td>6</td>
<td>1.5</td>
<td>2140</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>TONS</td>
<td>KW</td>
<td>EER</td>
<td>TONS</td>
<td>KW</td>
<td>EER</td>
</tr>
<tr>
<td>88D</td>
<td>8DS3R67M</td>
<td>42.0</td>
<td>94.3</td>
<td>100.0</td>
<td>9.9</td>
<td>88.2</td>
<td>107.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>44.0</td>
<td>98.2</td>
<td>101.0</td>
<td>10.2</td>
<td>92.0</td>
<td>109.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>45.0</td>
<td>100.3</td>
<td>101.6</td>
<td>10.3</td>
<td>93.8</td>
<td>109.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50.0</td>
<td>100.5</td>
<td>104.0</td>
<td>11.1</td>
<td>95.7</td>
<td>113.0</td>
</tr>
</tbody>
</table>

*Includes (Model OC88D) 6 Fan – Outdoor Condenser*