**Model: IESA16D**

**Split-System Air-Cooled 16 Ton Chiller**

**PRODUCT DATA SHEET**

**STANDARD ON ALL LEGACY CHILLER MODELS:**

Pentra Microsmart, Programmable Logic Controller (PLC) with HMI Touch Screen Display. (Located on front side of electrical cabinet)

---

**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 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**

---

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

Model: **IESA16D**  
Split-System 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>Power</th>
<th>Compressor</th>
<th>RLA ea.</th>
<th>LRA ea.</th>
<th>Fan Motor</th>
<th>MCA</th>
<th>M.O.P</th>
<th>Chiller Fluid Conn.</th>
<th>Weight Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>IESA16DF5</td>
<td>85</td>
<td>34</td>
<td>45</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>
</tr>
<tr>
<td>IESA16DH5</td>
<td>460V</td>
<td>3</td>
<td>60Hz</td>
<td>17.9</td>
<td>106</td>
<td>2</td>
<td>3.5</td>
<td>50</td>
<td>60</td>
<td>2</td>
<td>MPT</td>
<td>45</td>
</tr>
<tr>
<td>IESA16DI5</td>
<td>575V</td>
<td>3</td>
<td>60Hz</td>
<td>14.7</td>
<td>84</td>
<td>2.8</td>
<td>40</td>
<td>50</td>
<td>2</td>
<td>MPT</td>
<td>45</td>
<td>50</td>
</tr>
</tbody>
</table>

### Outside Condenser Specs (OC16)

<table>
<thead>
<tr>
<th>Outside Condenser</th>
<th>Length Inches</th>
<th>Width Inches</th>
<th>Height Inches</th>
<th>Fan Motor</th>
<th>Refrigerant Conn.</th>
<th>Weight Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>OC16D</td>
<td>127</td>
<td>45.56</td>
<td>49.13</td>
<td>2</td>
<td>1.5</td>
<td>580</td>
</tr>
</tbody>
</table>

### Capacity Table (Refrigerant R407C)

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor</th>
<th>LWT °F</th>
<th>80°F TONS</th>
<th>90°F TONS</th>
<th>95°F TONS</th>
<th>100°F TONS</th>
<th>105°F TONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>16D</td>
<td>3DF3R10ME</td>
<td>42.0</td>
<td>17.8</td>
<td>15.8</td>
<td>10.5</td>
<td>15.9</td>
<td>18.1</td>
</tr>
<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>17.5</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>17.6</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>17.8</td>
</tr>
</tbody>
</table>

---

*Includes (Model OC16D)  
2 Fan – Outdoor Condenser

---

© Property of Legacy Chiller Systems, Inc.