Model: IESA19D
Split-System Air-Cooled
19 Ton Chiller

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 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**
- **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**
**PRODUCT DATA SHEET**

**Model: IESA19D**

*Split-System Air-Cooled 19 Ton Chiller*

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### 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</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>IESA19DF5</td>
<td>85</td>
<td>34</td>
<td>45</td>
<td>208/230V</td>
<td>3</td>
<td>60Hz</td>
<td>2</td>
<td>10</td>
<td>39.1</td>
<td>215</td>
<td>7</td>
<td>110</td>
<td>125</td>
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<tr>
<td>IESA19DH5</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>6MPT</td>
<td>110</td>
<td></td>
</tr>
<tr>
<td>IESA19DI5</td>
<td>575V</td>
<td>3</td>
<td>60Hz</td>
<td>14.8</td>
<td>84</td>
<td>2.8</td>
<td>40</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
<td>85</td>
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</table>

### Outside Condenser Specs (OC19)

<table>
<thead>
<tr>
<th>Outside Condenser</th>
<th>Length Inches</th>
<th>Width Inches</th>
<th>Height Inches</th>
<th>Fan Motor Qty.</th>
<th>HP Discharge</th>
<th>Refrigerant Conn.</th>
<th>Weight Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>OC19D</td>
<td>127</td>
<td>45.56</td>
<td>49.13</td>
<td>2</td>
<td>1.5</td>
<td>1 1/8” 5/8”</td>
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### 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>19D</td>
<td>3DB3R12ME</td>
<td>42.0</td>
<td>21.1</td>
<td>18.6</td>
<td>10.9</td>
<td>19.7</td>
<td>20.5</td>
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<td>44.0</td>
<td>22.0</td>
<td>18.7</td>
<td>11.4</td>
<td>20.5</td>
<td>20.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>45.0</td>
<td>22.5</td>
<td>18.7</td>
<td>11.6</td>
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<td>20.7</td>
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<tr>
<td></td>
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<td>50.0</td>
<td>25.0</td>
<td>18.8</td>
<td>12.8</td>
<td>23.3</td>
<td>21.0</td>
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<tr>
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<td>22.1</td>
<td>10.8</td>
<td>22.4</td>
<td>22.1</td>
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*Includes (Model OC19D)*

2 Fan – Outdoor Condenser