**PRODUCT DATA SHEET**

**Model:** IESA37D  
**Split-System Air-Cooled**  
**37 Ton Chiller**

**Legacy Chiller Systems**  
851 Tech Drive  
Telford, PA 18969  
Toll-Free: (877) 988-5464

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**Easy to Use Touch Screen Display on all Legacy Chiller Models**

**STANDARD ON ALL LEGACY ChILLER MODELS:**

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

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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**
- **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**

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**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**
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**Split-System Air-Cooled 37 Ton Chiller**

### Dimenional & Electrical Table (Dual Circuit)

<table>
<thead>
<tr>
<th>Chiller Models</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Voltage / Phase</th>
<th>Frequency</th>
<th>RLA</th>
<th>LRA</th>
<th>Fan Motor Qty.</th>
<th>HP</th>
<th>FLA.</th>
<th>MCA</th>
<th>M.O.P</th>
<th>Chiller Fluid Conn.</th>
<th>Weight Pounds</th>
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</thead>
<tbody>
<tr>
<td>IESA37DF5</td>
<td>85</td>
<td>34</td>
<td>62</td>
<td>208/230V</td>
<td>3</td>
<td>60Hz</td>
<td>2</td>
<td>96.2</td>
<td>48</td>
<td>7</td>
<td>250</td>
<td>300</td>
<td>2” MPT</td>
<td>4900</td>
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<td>IESA37DH5</td>
<td>460V</td>
<td>3</td>
<td>60Hz</td>
<td>2</td>
<td>48.1</td>
<td>214</td>
<td>4</td>
<td>3.5</td>
<td>125</td>
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<td>IESA37DI5</td>
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<td>60Hz</td>
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<td>172</td>
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<td>90</td>
<td>110</td>
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### Outside Condenser Specs (OC)

<table>
<thead>
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<th>Outside Condenser</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Fan Motor Qty.</th>
<th>HP</th>
<th>Discharge</th>
<th>Liquid</th>
<th>Weight Pounds</th>
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<td>127</td>
<td>88</td>
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<td>4</td>
<td>1.5</td>
<td>1 3/8”</td>
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### Capacity Table (Refrigerant R407C)

<table>
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<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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<td></td>
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<td>TONS</td>
<td>KW</td>
<td>EER</td>
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<td>KW</td>
<td>EER</td>
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<td>42.6</td>
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*Includes (Model OC37D)  
4 Fan – Outdoor Condenser  

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