**PRODUCT DATA SHEET**

**Model: IESA33D**  
**Split-System Air-Cooled**  
**33 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)

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**Indoor Chiller**

**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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**Outside Condenser**

**Includes (Model OC33D)**  
4 Fan – Outdoor Condenser

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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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**Product Data Sheet**

**Model: IESA33D**

*Split-System Air-Cooled 33 Ton Chiller*

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### Indoor Chiller Dimensional & Electrical Table (Dual Circuit)

<table>
<thead>
<tr>
<th>Chiller Models</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Power</th>
<th>Compressor</th>
<th>RLA</th>
<th>LRA</th>
<th>Fan Motor</th>
<th>MCA</th>
<th>M.O.P</th>
<th>Chiller Fluid Conn.</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>IESA33DF5</td>
<td>85</td>
<td>34</td>
<td>62</td>
<td>208/230V 3 60Hz</td>
<td>2</td>
<td>17</td>
<td>76.9</td>
<td>374</td>
<td>7</td>
<td>225</td>
<td>250</td>
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<td>IESA33DH5</td>
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<td>60Hz</td>
<td>38.5</td>
<td>187</td>
<td>4</td>
<td>3.5</td>
<td>110</td>
<td>125</td>
<td>2’ MPT</td>
<td>1600</td>
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<td>IESA33DI5</td>
<td>575V</td>
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<td>60Hz</td>
<td>30.1</td>
<td>135</td>
<td>2.8</td>
<td>80</td>
<td>100</td>
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### Outside Condenser Specs (OC)

<table>
<thead>
<tr>
<th>Outside Condenser</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Fan Motor</th>
<th>Refrigerant Conn.</th>
<th>Weight</th>
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<tbody>
<tr>
<td>OC33D</td>
<td>127</td>
<td>88</td>
<td>49.13</td>
<td>4</td>
<td>1.5 Discharge 1 3/8&quot; Liquid 7/8&quot;</td>
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### Capacity Table (Refrigerant R407C)

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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>
<td></td>
<td>TONS</td>
<td>KW</td>
<td>EER</td>
<td>TONS</td>
<td>KW</td>
<td>EER</td>
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<td>33D</td>
<td>4DBNR20ME</td>
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*Includes (Model OC33D) 4 Fan – Outdoor Condenser*