**PRODUCT DATA SHEET**

**Model: IESA25D**

**Split-System Air-Cooled 25 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

---

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

Model: **IESA25D**

*Split-System Air-Cooled 25 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. Qty.</th>
<th>LRA ea. Qty.</th>
<th>Fan Motor Qty.</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>IESA25DF5</td>
<td>85</td>
<td>34</td>
<td>62</td>
<td>208/230V 3</td>
<td>60Hz</td>
<td>53.5</td>
<td>275</td>
<td>7</td>
<td>150</td>
<td>175</td>
<td></td>
<td>2&quot; MPT</td>
<td>1400</td>
</tr>
<tr>
<td>IESA25DH5</td>
<td>85</td>
<td>46</td>
<td>3</td>
<td>460V 3</td>
<td>60Hz</td>
<td>26.0</td>
<td>138</td>
<td>3</td>
<td>70</td>
<td>90</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IESA25DI5</td>
<td>85</td>
<td>57</td>
<td>3</td>
<td>575V 3</td>
<td>60Hz</td>
<td>21.2</td>
<td>110</td>
<td>2.8</td>
<td>60</td>
<td>70</td>
<td></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.</th>
<th>HP</th>
<th>Discharge</th>
<th>Liquid</th>
<th>Refrigerant Conn.</th>
<th>Weight Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>OC25D</td>
<td>180</td>
<td>45.56</td>
<td>49.13</td>
<td>3</td>
<td>1.5</td>
<td>1 1/8&quot;</td>
<td>5/8&quot;</td>
<td></td>
<td>930</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>80°F KW</th>
<th>80°F EER</th>
<th>90°F TONS</th>
<th>90°F KW</th>
<th>90°F EER</th>
<th>95°F TONS</th>
<th>95°F KW</th>
<th>95°F EER</th>
<th>100°F TONS</th>
<th>100°F KW</th>
<th>100°F EER</th>
<th>105°F TONS</th>
<th>105°F KW</th>
<th>105°F EER</th>
</tr>
</thead>
<tbody>
<tr>
<td>25D</td>
<td>3DS3R17ME</td>
<td>42.0</td>
<td>28.0</td>
<td>25.8</td>
<td>10.3</td>
<td>26.0</td>
<td>28.3</td>
<td>6.9</td>
<td>25.1</td>
<td>29.4</td>
<td>8.3</td>
<td>24.2</td>
<td>30.6</td>
<td>7.7</td>
<td>23.3</td>
<td>31.7</td>
<td>7.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>44.0</td>
<td>29.3</td>
<td>26.0</td>
<td>10.7</td>
<td>27.2</td>
<td>28.5</td>
<td>9.2</td>
<td>26.2</td>
<td>29.8</td>
<td>8.6</td>
<td>25.3</td>
<td>31.0</td>
<td>8.0</td>
<td>24.3</td>
<td>32.2</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>45.0</td>
<td>30.7</td>
<td>26.1</td>
<td>10.9</td>
<td>27.8</td>
<td>28.7</td>
<td>9.4</td>
<td>26.8</td>
<td>29.9</td>
<td>8.7</td>
<td>25.8</td>
<td>31.2</td>
<td>8.1</td>
<td>24.8</td>
<td>32.4</td>
<td>7.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50.0</td>
<td>33.2</td>
<td>26.4</td>
<td>12.0</td>
<td>30.8</td>
<td>29.2</td>
<td>10.2</td>
<td>29.6</td>
<td>30.6</td>
<td>9.5</td>
<td>28.5</td>
<td>32.0</td>
<td>8.8</td>
<td>27.4</td>
<td>33.3</td>
<td>8.1</td>
</tr>
</tbody>
</table>

*Includes (Model OC25D)

3 Fan – Outdoor Condenser