Plasma Powders & Systems, Inc.
228 Boundary Road Marlboro NJ 07746 USA
Ph. (732) 431-0992 Fax (732) 308-1075
www.plasmapowders.com info@plasmapowders.com

HE-750 SERIES CHILLERS

Highlights of Features

• Small Footprint Saves Customers Valuable Floor Space.
• Remote Microprocessor Display Provides Convenient Monitoring of Chiller Operation.
• Sequenced Shutdown is provided.
• Chiller Designed to Meet NFPA-70 (NEC Code), and NFPA-79, with UL certified panel. CE-certified units available.
• Modulating hot gas bypass provides outstanding temperature/capacity control with low loads.
• Enhanced diagnostic capability facilitates field troubleshooting and reduces downtime.
• Chiller Maintenance Required Alarm provides early warning so that preventive maintenance can be scheduled.
• HFC-410A (Puron) refrigerant meets the Montreal Protocol requirements.
• Programmable microprocessor provides higher reliability and tighter temperature control.
• Efficient microchannel condensers provide full rated capacity with high ambient conditions.
HE-750 Series
Air Cooled Portable Chiller
Performance Data and Specifications

<table>
<thead>
<tr>
<th>Model:</th>
<th>HE750-460/60P</th>
<th>Refrigerant:</th>
<th>HFC-410A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling Capacity:</td>
<td>7.5 tons</td>
<td>Shipping Weight:</td>
<td>700 lbs</td>
</tr>
<tr>
<td>Rated Ambient Temperature:</td>
<td>105°F</td>
<td>Dimensions:</td>
<td>35&quot; L x 35&quot; W x 81&quot; H</td>
</tr>
<tr>
<td>Supply Temperature:</td>
<td>65°F</td>
<td>Process Connections:</td>
<td>¾&quot; FNPT</td>
</tr>
<tr>
<td>Temperature Stability:</td>
<td>±1°F</td>
<td>Condenser Air Flow:</td>
<td>6,300 CFM</td>
</tr>
<tr>
<td>Pump:</td>
<td>5 HP</td>
<td>Main Voltage:</td>
<td>460V/3/60</td>
</tr>
<tr>
<td>Flow:</td>
<td>10 GPM</td>
<td>MCA:</td>
<td>31 Amps</td>
</tr>
<tr>
<td>Pressure:</td>
<td>225 PSI</td>
<td>Control Voltage:</td>
<td>115 VAC</td>
</tr>
</tbody>
</table>

**Mechanical Features**

- Scroll compressor for improved reliability and energy efficiency
- Generously sized microchannel condensers for industrial environments
- Top discharge fan and cleanable condenser air inlet filters
- Brazed plate evaporator provides higher efficiencies due to reduced fouling
- Electronic hot gas bypass modulating valve for capacity control
- Liquid line solenoid valve and compressor crankcase heater to protect compressor from liquid refrigerant migration
- Nonferrous water circuit construction compatible with deionized water
- Insulated reservoir with fill port, drain and sight glass
- Bronze regenerative turbine pump
- Y-strainer in supply line to protect process from contaminants
- Compressed air purge circuit
- Insulation on refrigerant and chilled water piping

**Electrical/Control Features**

- NEMA-12 electrical enclosure with rotary non-fused disconnect
- NFPA-70 and NFPA-79 electrical specifications
- Remote display panel with 20 foot cable
- Communication with console: Start/Stop Input, Air Purge Input, Chiller Fault Output, Chiller Requires Maintenance Output

**Digital Displays**

- Set Temperature
- Supply Temperature
- Return Temperature
- Process Water Pressure
- Reservoir Level
- Process Water Flow
- Process Heat Load
- Refrigerant Suction Pressure
- Refrigerant Discharge Pressure
- Compressor Run Time

**Alarms and Warnings**

**Water Circuit**

- Freezestat
- High Supply Temp Safety
- High Return Temp Alarm
- Reservoir Level Warning
- Reservoir Level Safety
- Process Flow Warning
- Process Flow Alarm
- Evaporator Flow Alarm
- High Pressure Warning
- Pump Overload

**Refrigerant Circuit**

- Suction Pressure Warning
- Suction Pressure Alarm
- Discharge Pressure Warning
- Discharge Pressure Alarm
- Compressor Motor Overload