**RECIRCULATING LOOP CHILLERS**

**TYPICAL CHILLER**

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**APPLICATIONS**

- Jacket Cooling
- Lasers
- Induction Heaters
- Machine Tools
- Welders
- MRI Equipment
- CAT Scans

**FEATURES**

- Energy Saving Design
- Complete Temperature Control
- Welded Stainless Steel Cooling Tank
- Uses HFC Refrigerant

**SPECIFICATIONS**

- **Cooling Capacity**: BTU/HR: 180,000
- **Watts**: 52,755
- **Rating Conditions**
  - Coolant Discharge Temperature: 68°F (20°C)
  - Ambient Temperature: 90°F (32°C)
- **Compressor**: HP: 15
- **Cooling TANK & EVAPORATOR**: Capacity: 100 gal (380 l)

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**MODEL .................. PCP or POC-1500G-180**

**HERMETIC SCROLL MODELS**

**DESCRIPTION**

Recirculating chillers recirculate a clean coolant at constant temperature and pressure to increase the stability and consistency of water cooled machines and instruments. Air cooled chillers eliminate the use of tap water and prevent clogging and corrosion of small diameter heat exchangers due to rust and scale build-up.

- **PCP - Closed Loop Chillers**: Use a storage type cooling tank, with immersion coil evaporator, to provide close temperature control of recirculating coolants. The tank is sealed to prevent coolant evaporation and fouling, and supplied with a liquid level gauge, fill port and clean out. The pump recirculates coolant at constant pressure and flow, which is adjustable by turning a manual bypass valve.

- **POC - Open Loop Chillers**: Pump liquid from an open tank or sump, through the chiller and back to the sump. An adjustable thermostat senses the make up liquid temperature, cycling the chiller to insure constant temperature in the sump.

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**ENERGY SAVINGS OPTIONS**

**ENGINEERED TO REDUCE CHILLER OPERATING COSTS**

**Contact Filtrine For Details**

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**LIFETIME WARRANTY** Consult factory for details.

**ONE YEAR WARRANTY** All parts covered FOB jobsite for (12) months from start-up date or (15) months from date of shipment, whichever comes first. Consult factory for details.

**START-UP and FIRST YEAR SERVICE** Filtrine can arrange start-up and first year service on all parts and labor. Regular maintenance, to help prevent costly down-time, is available on a contractual basis. Consult factory for details.

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**FILTRINE IS ISO 9001-2008 REGISTERED**

PRODUCT LINE APPROVED MARK AVAILABLE
**NOTE:** Chiller dimensions and shipping weights may vary depending on options - confirm with factory.

### STANDARD OPERATING CONDITIONS

**OUTDOOR AMBIENT**
-20°F to 100°F (-29°C to 38°C)

### OPTIONAL OPERATING CONDITIONS

**OUTDOOR AMBIENT**
- Up to 110°F (43°C)
- Up to 120°F (49°C)
- Down to -30°F (-34°C)

**NOTE:** Higher ambient options may affect unit dimensions.

### REMOTE CONDENSER

Use with Standard Models - Furnished complete with controls for operating in ambient temperatures to minus 20°F (-29°C), consult factory for specs. Connections for remote condenser are at right end of chiller cabinet.

### PUMP CAPACITY

<table>
<thead>
<tr>
<th>MODEL</th>
<th>GPM @ PRESSURE SHOWN</th>
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<tbody>
<tr>
<td></td>
<td>psi 10 20 30 40</td>
</tr>
<tr>
<td>STD-2C</td>
<td>ft 23 46 69 92</td>
</tr>
<tr>
<td>OP-3C</td>
<td>65 57 46 30</td>
</tr>
</tbody>
</table>

* Standard pump is 2HP, centrifugal (C). Optional pumps (OP) are available.

### CHILLER CAPACITY

<table>
<thead>
<tr>
<th>Kw</th>
<th>BTU/Hr</th>
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<tbody>
<tr>
<td>58.6</td>
<td>200,000</td>
</tr>
<tr>
<td>52.8</td>
<td>180,000</td>
</tr>
<tr>
<td>46.9</td>
<td>160,000</td>
</tr>
<tr>
<td>41.0</td>
<td>140,000</td>
</tr>
<tr>
<td>35.2</td>
<td>120,000</td>
</tr>
<tr>
<td>29.3</td>
<td>100,000</td>
</tr>
<tr>
<td>23.4</td>
<td>80,000</td>
</tr>
<tr>
<td>17.6</td>
<td>60,000</td>
</tr>
<tr>
<td>11.7</td>
<td>40,000</td>
</tr>
<tr>
<td>5.9</td>
<td>20,000</td>
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### AMBIENT TEMPERATURE

<table>
<thead>
<tr>
<th>AMBIENT TEMP</th>
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<tbody>
<tr>
<td>80°F 27°C</td>
</tr>
<tr>
<td>90°F 32°C</td>
</tr>
<tr>
<td>100°F 38°C</td>
</tr>
<tr>
<td>110°F 43°C</td>
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</tbody>
</table>

L - LOW OUTLET temperature range  NORMAL OUTLET temperature range

* For outlet temperatures below 34°F - use appropriate antifreeze.