**Recirculating Loop Chillers**

**Model: PCP or POC-3000S-330**

**Field Serviceable Hermetic Models**

**Description**
Filtrine's PCP and POC chillers recirculate a clean coolant at constant temperature and pressure to increase the stability and consistency of water cooled machines and instruments. Choose from different condenser configurations to match your specific site requirements.

- **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.

**Specifications**

- **Cooling Capacity:** BTU/HR: 330,000
- **Watts:** 96,717
- **Rating Conditions**
  - Coolant Discharge Temperature: 68°F [20°C]
  - Ambient Temperature: 90°F [32°C]
- **Compressor:** HP: 30
- **Field serviceable semi-hermetic type supplied condenser as specified below, high/low pressure stat, freeze control, head and suction gauges, oil pressure switch, pump down solenoid valve, thermostatic expansion valve, refrigerant sight glass and dehydrator.

**Standard Condensers** (Designated by suffix)
- **A** - Fan cooled condenser for indoor installation.
- **AR** - Remote Air cooled condenser furnished separately for mounting on roof.
- **W** - Water cooled condenser for hookup to city or tower water.
- **A-WP** - Self-contained air cooled condenser; complete unit made weather-resistant for outdoor installation.

**Cooling Tank & Evaporator:**
- Capacity: 170 gal [646 l]
- Welded stainless steel shell and immersion coil evaporator. Tank tested at 250# for 125# working pressure. Supplied with liquid level gauge and insulated with closed cell thermo- elastomer with an R factor of 3.7.
- **Pump:** HP: 3
- **Capacity:** 50 gpm [190 lpm] @ 45 psi
- **Stainless steel centrifugal pump mounted on rubber pads over a stainless steel condensation tray and supplied with unions and service valves and manually adjustable bypass valve. All piping and fittings brass, copper, or bronze and insulated with closed cell thermo- elastomer with an R factor of 3.7.

**Thermostat:**
- **Adjustable Range:** 40°F to 90°F [5°C to 32°C]
- **Temperature Stability:** ±1.5°F [1°C]

**Cabinet:**
- Enameled aluminum panels with stainless steel corner legs and top on a welded angle iron frame. Panels removable for access to all components.

**Supply Power:**
- Maximum: 208 - 230/60/3 or 460/60/3
- FLA: 125 or 63

**Note:** FLA may vary depending on options. See MCA and MOP ratings on name plate of as-built unit.

**Plumbing Connections IN & OUT:** 2-1/2" [63mm] MPT

**Shipping Weight:** Chart on reverse
STANDARD MODELS: Suffix A, AR, W & A-WP

<table>
<thead>
<tr>
<th>FILTRINE MODEL NUMBER</th>
<th>W</th>
<th>D</th>
<th>H</th>
<th>SHIPPING WT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCP or POC 3000S-330-A</td>
<td>140</td>
<td>356</td>
<td>67</td>
<td>170</td>
</tr>
<tr>
<td>PCP or POC 3000S-330-W</td>
<td>106</td>
<td>269</td>
<td>56</td>
<td>142</td>
</tr>
<tr>
<td>PCP or POC 3000S-330-AR</td>
<td>106</td>
<td>269</td>
<td>56</td>
<td>142</td>
</tr>
<tr>
<td>PCP or POC 3000S-330-A-WP</td>
<td>140</td>
<td>356</td>
<td>67</td>
<td>170</td>
</tr>
</tbody>
</table>

**NOTE:** Chiller dimensions and shipping wts. 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 w/Standard Models – Furnished complete w/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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>psi</td>
</tr>
<tr>
<td></td>
<td>ft</td>
</tr>
<tr>
<td>STD-3C</td>
<td>120</td>
</tr>
<tr>
<td>OP-5C</td>
<td>140</td>
</tr>
</tbody>
</table>

* Standard pump is 3HP, centrifugal (C). Optional pumps (OP) are available.

**NOTE:** Information given in this bulletin for general use only. Confirm exact specs with factory for your specific requirements.