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 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**

<table>
<thead>
<tr>
<th>COOLING CAPACITY: Btu/Hr</th>
<th>62,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watts</td>
<td>18,166</td>
</tr>
</tbody>
</table>

**NOTES**

- FLA may vary depending on options. See MCA and MOP ratings on as-built unit.

**PLUMBING CONNECTIONS IN & OUT**

- 3/4" [19mm] MPT

**ENERGY SAVINGS OPTIONS**

**ENGINEERED TO REDUCE CHILLER OPERATING COSTS**

**Contact Filtrine For Details**

**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
- Energy Saving Design
- Steel Centrifugal Pump
- 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** - Weather-resistant for outdoor installation.

**Cooling Tank & Evaporator:**

- Capacity: 50 Gal. [190 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.

**Capacity**

- 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.

**FLA Amps Maximum**

- 230/60/3 or 460/60/3
**CHILLER DIMENSIONS & WEIGHTS**

<table>
<thead>
<tr>
<th>FILTRINE MODEL NUMBER</th>
<th>W</th>
<th>D</th>
<th>H</th>
<th>SHIP WT</th>
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</thead>
<tbody>
<tr>
<td>PCP or POC-500S-A</td>
<td>72</td>
<td>183</td>
<td>35</td>
<td>89</td>
</tr>
<tr>
<td>PCP or POC-500S-W</td>
<td>72</td>
<td>183</td>
<td>30</td>
<td>76</td>
</tr>
<tr>
<td>PCP or POC-500S-AR</td>
<td>72</td>
<td>183</td>
<td>30</td>
<td>76</td>
</tr>
<tr>
<td>PCP or POC-500S-WP</td>
<td>82</td>
<td>208</td>
<td>35</td>
<td>88</td>
</tr>
<tr>
<td>PCP or POC-500S-LP</td>
<td>82</td>
<td>208</td>
<td>68</td>
<td>173</td>
</tr>
<tr>
<td>PCP or POC-500S-AR</td>
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<td>122</td>
<td>35</td>
<td>88</td>
</tr>
<tr>
<td>PCP or POC-500S-SSD**</td>
<td>40</td>
<td>102</td>
<td>30</td>
<td>76</td>
</tr>
<tr>
<td>PCP or POC-500S-AR-SSD**</td>
<td>40</td>
<td>102</td>
<td>30</td>
<td>76</td>
</tr>
</tbody>
</table>

* Low profile, weatherproof unit for installation on rooftop
** Space Saving Design

**NOTE:** Chiller dimensions and shipping wts. may vary depending on options - confirm with factory.

**LEGEND**

1. Air Vent
2. Fill Port
3. Coolant Return
4. Coolant Discharge
5. Control Panel
6. Gauges
7. To Remote Condenser [AR Models]
8. From Remote Condenser [AR Models]
9. Condenser Water In [W Models]
10. Condenser Water Out [W Models]
11. Electrical Connection

**VENTILATION PANELS**
Standard models: air intake at rear, air discharge at right end and front. Recommend 3 ft. clearance at front for service and 18 in. clear space opposite all ventilation panels.

**REMOVABLE SERVICE PANELS**
Front & rear on all models

**CHANNEL SKIDS**
Channel skids project 2” [5 cm] front and rear. Center of mounting holes located 6” [15 cm] from chiller end and 1" [2.5 cm] from chiller edge front and rear.

**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 or SSD 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.

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

**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 60 80 100</td>
</tr>
<tr>
<td></td>
<td>ft 23 46 69 92 138 184 231</td>
</tr>
<tr>
<td>STD-1C</td>
<td>52 40 20 20</td>
</tr>
<tr>
<td>OPT-3/4C</td>
<td>19 16 12</td>
</tr>
<tr>
<td>OP-1/2T</td>
<td>8 8 8 8 8 7 6</td>
</tr>
<tr>
<td>OP-3/4T</td>
<td>13 13 12 12 11 10 8</td>
</tr>
</tbody>
</table>

* Standard pump is 1HP, centrifugal. Optional pumps [OP] include centrifugal [C] or turbine [T] models. All trubine pumps include an adjustable pressure relief bypass in lieu of a manual bypass valve.

**STANDARD MODELS: Suffix A, AR, W & AWP**

**NOTE:** Manufacturer recommends 36 inch clearance at front for service and 18 in. clear space opposite all ventilation panels.

**NOTE:** Allow an additional 4’ to depth and 2’ to height for channel skids.

**NOTE:** Drawings are composites of various models to demonstrate plumbing locations. Confirm footprint with factory.

**NEW -SSD MODEL: SPACE SAVING DESIGN**
Suffix A, AR & W [AWP not available in SSD model]

**NOTE:** Manufacturer recommends 36 inch clearance at front for service and 18 in. clear space opposite all ventilation panels.

**NOTE:** Allow an additional 4’ to depth and 2’ to height for channel skids.

**NOTE:** Drawings are composites of various models to demonstrate plumbing locations. Confirm footprint with factory.

**CHILLER CAPACITY**

- AMBIENT TEMP
  - 80°F 27°C
  - 90°F 32°C
  - 100°F 38°C
  - 110°F 43°C

L - LOW OUTLET temperature range
NORMAL OUTLET temperature range

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