APPENDICES

TYPICAL CHILLER

FEATURES
Energy Saving Design

Unlike most process chillers, compressor runs only as needed. Storage design provides close temperature control and safety from freeze-up without constant operation.

Complete Temperature Control
Temperature adjustable within a range of 40°F to 90°F [5°C to 32°C] and will hold temperature within ±1.5°F [1°C] of setting. [±0.5°F optional].

Welded Stainless Steel Cooling Tank
Recirculates clean coolant sealed from the atmosphere, eliminates bacterial build-up and internal corrosion.

Uses HFO Refrigerant
Eliminates use of ozone-depleting and high GWP (Global Warming Potential) refrigerant as per Montreal Protocol.

Unlimited Options
Design the perfect cooling system for any application. Over 60 options to meet almost any special need. See Options & Accessories sheet (www.filtrine.com/chillers/options-and-accessories).

START-UP and FIRST YEAR SERVICE

FILTRINE Mfg. Co. provides start-up and first year service on all parts and labor. Regular maintenance on a yearly contract basis is a wise investment and will prevent costly downtime.

WARRANTY

All parts are covered FOB job site for (12) months from the start date or (15) months from date of shipment or whichever comes first.

SERVICE MAKES THE DIFFERENCE

Recognizing that downtime on critical medical equipment is unacceptable, Filtrine has established a national network of qualified service technicians, selected because of their extensive experience working on medical equipment chillers and their location within the “Emergency Response Zone” (approximately 40 miles). This expert and quick service is available on an 8/5 or 24/7 basis for all Filtrine medical chillers and heat exchangers.

MODELS

PCP or POC-200

WELDED 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 @ 68°F [20°C] DISCHARGE & 90°F [32°C] AMBIENT

<table>
<thead>
<tr>
<th>MODEL</th>
<th>BTU / HR</th>
<th>WATTS</th>
<th>FLA @ 208-230/460</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCP or POC-200-24</td>
<td>24,000</td>
<td>7,082</td>
<td>10/5</td>
</tr>
<tr>
<td>PCP or POC-200-27*</td>
<td>27,000</td>
<td>7,911</td>
<td>12/6</td>
</tr>
<tr>
<td>PCP or POC-200-30</td>
<td>30,000</td>
<td>8,790</td>
<td>13/7</td>
</tr>
<tr>
<td>PCP or POC-200-33*</td>
<td>33,000</td>
<td>9,889</td>
<td>15/8</td>
</tr>
</tbody>
</table>

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

COMPRRESSOR: HP.................................................................2

Lifetime lubricated, scroll type supplied with high/low pressure stat, anti-migration solenoid valve, head and suction gauges, 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 rooftop.

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.................................20 Gal. [76 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......................................................................................1/2

Capacity.................................................................15 GPM [57 LPM] @ 20 PSI

All bronze 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 [removable for access to all components] with stainless steel corner legs and top on a welded angle iron frame.

SUPPLY POWER..................................................208-230/60/1, 208-230/60/3, 460/60/3

PLUMBING CONNECTIONS IN & OUT........................................3/4" [19mm] FPT

SHIPPING WEIGHT..........................................................Chart on reverse

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607-2
REV. 03.22.19
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 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 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-1/2C</td>
<td>20 15 8</td>
</tr>
<tr>
<td>OP-3/4C</td>
<td>50 45 30</td>
</tr>
<tr>
<td>OP-1C</td>
<td>55 50 40 20</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 1/2HP, centrifugal. Optional pumps [OP] include centrifugal [C] or turbine [T] models. All turbine pumps include an adjustable pressure relief bypass in lieu of a manual bypass valve.

REMOVABLE SERVICE PANELS

Front and rear on all models. NOTE: Manufacturer recommends 36” clearance at front for service.

CHANNEL SKIDS

Channel skids project 2” [5cm] front and rear. Allow additional 2” [5cm] to height for channel skids. Center of 5/8” [16mm] mounting holes located 6” [15cm] from chiller end and 1” [2.5cm] from chiller edge front and rear.

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