APPLICATIONS
Jacket Cooling
Lasers
Induction Heaters
Machine Tools
Welders
MRI Equipment
CAT Scans
Computers
Power Supplies
Vacuum Ovens
Injection Molding
Plasma Spraying
Linear Accelerators
Electron Microscopes

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 HFC Refrigerant
Eliminates use of ozone-depleting refrigerant as per Montreal Protocol.

ENERGY SAVING OPTIONS AVAILABLE

CONSULT FACTORY

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 jobsite 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.

TYPICAL CHILLER

MODELS ......................... PCP or POC-300S-38
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 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.........................................................38,000
Watts ..................................................................................11,134
Rating Conditions:
Coolant Discharge Temperature ........................................68°F [20°C]
Ambient Temperature .........................................................90°F [32°C]

COMPRESSOR: HP........................................................................3

Field serviceable semi-hermetic type supplied with 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 Air cooled remote 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 ..................30 Gal. [114 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
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: .............................................230/60/3 or 460/60/3
FLA Amps Maximum .........................................................18 or 9

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

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

WEB www.filtrine.com • EMAIL cool@filtrine.com

608-3 [PCP-300S-38] REV. 03.11.16
Drawings are composites of various models to demonstrate plumbing locations. Confirm footprint with factory.

**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 for channel skids.

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

## 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.

### 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 inch 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.

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<tr>
<th>AMBIENT TEMP</th>
<th>BTU/Hr</th>
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<tbody>
<tr>
<td>60°F 27°C</td>
<td>11.7</td>
</tr>
<tr>
<td>90°F 32°C</td>
<td>10.9</td>
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<tr>
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<td>10.5</td>
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<tr>
<td>110°F 43°C</td>
<td>10.1</td>
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### PUMP CAPACITY

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<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>
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<tr>
<td></td>
<td>ft 23 46 69 92 138 184 231</td>
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<tr>
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<tr>
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<tr>
<td>OP-1/2T</td>
<td>8 8 8 8 8</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.