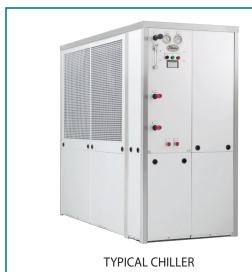


RECIRCULATING LOOP CHILLERS



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° to 90°F [5° 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-andaccessories).

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.

MODELSPCP 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						
MODEL	BTU / HR	WATTS	FLA @ 208-230/460			
PCP or POC-200-24	24,000	7,082	10/5			
PCP or POC-200-27*	27,000	7,911	12/6			
PCP or POC-200-30	30,000	8,790	13/7			
PCP or POC-200-33*	33,000	9,889	15/8			
NOTE: FLA may vary depending on options. See MCA and MOP ratings on nameplate of as-built unit.						

COMPRESSOR: HP.....

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]

Fan cooled condenser for indoor installation.

AR Remote Air cooled condenser furnished separately for mounting on roof.

Water cooled condenser for hookup to city or tower water

Self-contained air cooled condenser; complete unit made weather-resistant for outdoor installation.

COOLING TANK & EVAPORATOR: Capacity20 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..... 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 Range40° to 90°F [5° 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.

PLUMBING CONNECTIONS IN & OUT3/4" [19mm] FPT SHIPPING WEIGHTChart on reverse





CHILLER DIMENSIONS & WEIGHTS									
FILTRINE	W		D		Н		SHIP WT		
MODEL NUMBER	in	cm	in	cm	in	cm	lb	kg	
PCP or POC-200-A	48	122	27	69	48	122			
PCP or POC-200-W	48	122	27	69	45	114			
PCP or POC-200-AR	48	122	27	69	45	114		315	
PCP or POC-200-WP	48	122	27	69	48	122			
PCP or POC-200-WP-LP*	70	179	59	150	30	72	700		
PCP or POC-200-A-SSD**	27	69	30	76	74	188]		
PCP or POC-200-W-SSD**	27	69	30	76	72	183			
PCP or POC-200-AR-SSD**	27	69	30	76	72	183			
	•	•						•	

^{*}Low profile, weather-resistant unit for installation on roof

NOTE: Chiller dimensions and shipping weights may vary depending on options, confirm with factory.

STANDARD OPERATING CONDITIONS

OUTDOOR AMBIENT

-20° to 100°F [-29° to 38°C]

OPTIONAL OPERATING CONDITIONS

OUTDOOR AMBIENT Up to 110°F [43°C] Up to to 120°F [49°C]

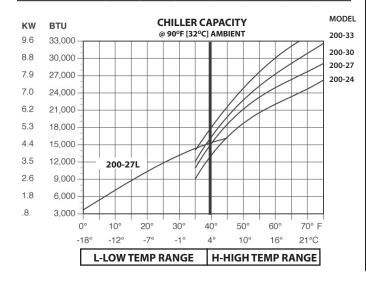
Down to -30°F [-34°C]

NOTE Higher ambient options may affect unit dimensions.

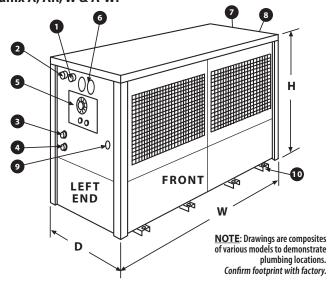
Use w/Standard Models - Furnished complete w/controls for operating in ambient temperatures to minus 20°F [-29°C], consult factory for specs Connections for remote condenser are at right end of chiller cabinet.

PUMP CAPACITY								
			GPM	@ PRES	SURE SI	HOWN		
MODEL*	psi	10	20	30	40	60	80	100
	ft	23	46	69	92	138	184	231
STD-1/2C		20	15	8	_	_	_	_
OP-3/4C		50	45	30	_	_	_	_
OP-1C		55	50	40	20	_	_	_
OP-1/2T		8	8	8	8	8	7	6
OP-3/4T		13	13	12	12	11	10	8

*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.



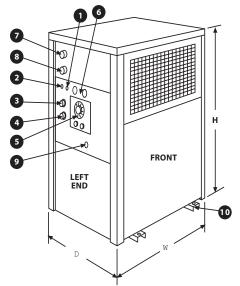
STANDARD MODELS: Suffix A, AR, W & A-WP



LEGEND

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

SSD - SPACE SAVING DESIGN MODELS: Suffix A, AR & W [A-WP not available in SSD model]



VENTILATION PANELS

Standard A and WP models: air intake at rear, air discharge out front and right end. LP models: air intake rear, air discharge out both ends and top. NOTE: Manufacturer recommends 12" minimum clear space opposite all

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.





^{**}Space saving design