

RECIRCULATING LOOP CHILLERS



APPLICATIONS

Jacket Cooling Lasers Induction Heaters Machine Tools Welders **MRI Equipment CAT Scans**

Computers **Power Supplies** Vacuum Övens 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

Ozone Safe - Low Global Warming Potential (GWP)

Unlimited Options

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

ENERGY SAVING OPTIONS AVAILABLE CONSULT FACTORY

START-U	Pand	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.

MODEL PCP or POC-300G HERMETIC SCROLL 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

-		5	-			
MODEL	BTU/HR	WATTS	FLA @ 230 / 460			
PCP or POC 300G-36	36,000	10,548	13 / 7			
PCP or POC 300G-40	40,000	11,720	14 / 7			
PCP or POC 300G-44	44,000	12,892	15 / 8			
NOTE: ELA may your depending on antions. See MCA and MOD on namenlate of as						

NOTE: FLA may vary depending on options. See MCA and MOP on nameplate of asbuilt unit.

Lifetime lubricated, hermetic scroll type supplied with high/low pressure stat, freeze control, head and suction gauges, pump down solenoid valve, thermostatic expansion valve, refrigerant sight glass and dehydrator.

STANDARD CONDENSERS [Designated by suffix]

- Fan cooled condenser for indoor installation. Α
- Remote Air cooled condenser furnished separately for AR mounting on roof.
- Water cooled condenser for hookup to city or tower water w
- A-WP Self-contained air cooled condenser; complete unit made 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
 - Capacity15 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° to 90°F [5° 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: 208-230/60/3 or 460/60/3

	200 200/00/00/00/00/00/0
PLUMBING CONNECTIONS IN & OUT	
SHIPPING WEIGHT	Chart on reverse

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FILTRINE IS ISO 9001:2015 CERTIFIED PRODUCT LINE 🚯 APPROVED 🚺 MARK AVAILABLE

608-3G [PCP or POC 300G] REV. 03.03.21

CHILLER DIMENSIONS & WEIGHTS

MODEL	W		D		Н		SHIP WT	
NUMBER	in	cm	in	cm	in	cm	lb	kg
PCP or POC-300G-A	62	157	32	81	54	137		
PCP or POC-300G-W	62	157	32	81	48	122		630
PCP or POC-300G-AR	62	157	32	81	48	122		
PCP or POC-300G-A-WP	78	198	32	81	70	178	1400	
PCP or POC-300G-WP-LP*	82	208	62	157	30	76		
PCP or POC-300G-A-SSD**	34	86	28	71	78	200		
PCP or POC-300G-W-SSD**	34	86	26	66	72	184		
PCP or POC-300G-AR-SSD**	34	86	26	66	72	184		

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

**Space saving design

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

VENTILATION PANELS

Standard A and A-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. Manufacturer recommends 24" [61 cm] minimum clear space opposite all ventilation panels.

REMOVABLE SERVICE PANELS

Front and rear on all models. Manufacturer recommends 36" [91 cm] clearance at front for service.

CHANNEL SKIDS

Channel skids project 2" [5 cm] front and rear. Allow additional 2" [5 cm] to height for channel skids. Center of 5/8" [1.6 cm] 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° to 100°F [-29° to 38°C]

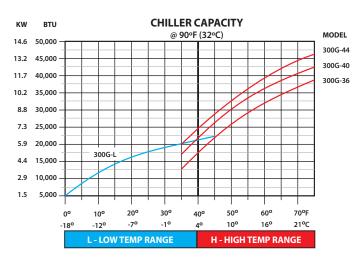
OPTIONAL OPERATING CONDITIONS

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.

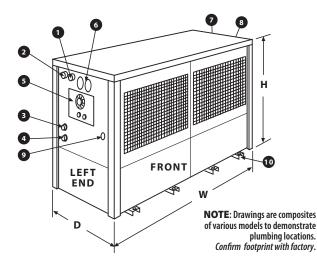


NOTE: Information given in this bulletin for general use only. Confirm exact specs with factory for your specific requirements.

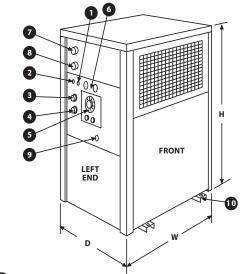
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STANDARD MODELS: Suffix A, AR, W & A-WP



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



LEGEND

- 1. Air Vent
- 2. Fill Port 3.

6. Gauges

- **Coolant Return Coolant Discharge** 4. 5. Control Panel
- 8. From Remote Condenser [AR Models] Condenser Water In [W Models]

7. To Remote Condenser [AR Models]

Condenser Water Out [W Models]

- 9 Electrical Connection
- 10. Channel Skids
 - PUMP CAPACITY

	GPM @ PRESSURE SHOWN									
MODEL*	psi	10	20	30	40	60	80	100		
	ft	23	46	69	92	138	184	231		
STD-1/2C		20	15	8	-	—	—	—		
0P-3/4C		19	16	12	_	_	_	_		
0P-1C		52	40	20	_	—	_	—		
0P-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.										

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