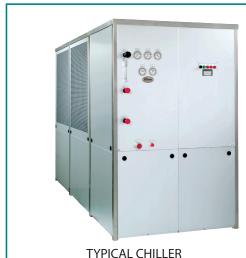


# RECIRCULATING LOOP CHILLERS



**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** 

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  $\pm 2^{\circ}F$  (1°C) of setting. (1°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. 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-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.

## ..... PCP or POC-6000-660 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, 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 ensure constant temperature in the sump.

#### SPECIFICATIONS

W	Water cooled condenser for hookup to city or tower water
AR	Remote air cooled condenser furnished separately for mounting
	on roof.

AR-WP Remote air cooled condenser; complete unit made weatherresistant for outdoor installation

COOLING TANK & EVAPORATOR: Capacity ...... 500 gal (1,993 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
Capacity80 gpm (303 lpm) @ 45 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° to 90°F (5° to 32°C)
Temperature Stability	±2°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:	250 or 126

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

PLUMBING CONNECTIONS I	N & OUT	2-1/2" (63mm) MPT
SHIPPING WEIGHT		Chart on reverse





CHILLER DIMENSIONS and WEIGHTS									
MODEL	W		D		Н		SHIP WT		
NUMBER	in	cm	in	cm	in	cm	lb	kg	
PCP or POC 6000-660-W									
PCP or POC 6000-660-AR	126	126	320	62	157	84	213	6000	2700
PCP or POC 6000-660-AR-WP									
	· .								

Dimensions & weights may vary depending on options installed-consult 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.

#### **REMOVABLE SERVICE PANELS**

Front & rear on all models.

#### **CHANNEL SKIDS**

Channel skids project 2" (5 cm) front and rear. Center of 5/8" (16mm) mounting holes located 6" (15cm) from chiller end and 1" (2.5 cm) from chiller edge front and rear. Skids add 2" (5 cm) overall height to chiller.

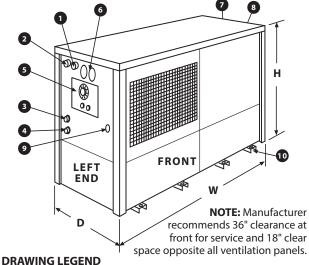
#### **REMOTE CONDENSER**

Use with **AR** 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.

## STANDARD MODELS Suffix W, AR & AR-WP



- Air Vent
- Fill Port
- Coolant Return
- 4 Coolant Discharge
- G Control Panel
- 6 Gauges
- To Remote Condenser (AR units) Condenser Water Out (W units)
- 8 From Remote Condenser (AR units) Condenser Water In (W units)
- Electrical Connection

27°C

32°C

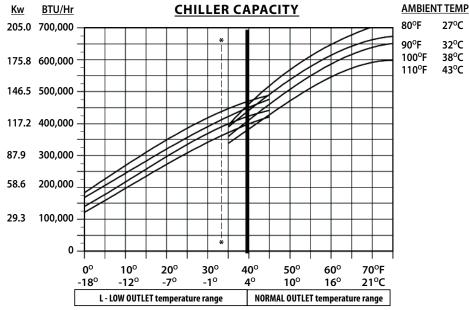
38°C

43°C

Channel Skids

NOTE: Drawings are not to scale. Shown are composites of various models to illustrate hook-up locations. Confirm footprint with factory.

	PUMP CAPACITY						
	GPM @ PRESSURE SHOWN						
PUMP MODEL*	psi	25	35	45	55		
INIODEL	ft	58	80	103	126		
STD5C		140	120	80	60		
* Standard	pump is	s 5HP, c	entrifu	gal (C)			



<sup>\*</sup> For outlet temperatures below  $34^{\circ}\,\mathrm{F}$  - use appropriate antifreeze



