

# **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**

**Optional Stainless Steel Exterior** 

#### **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 [4.4°C to 32°C] and will hold temperature within  $\pm 1.5$ °F [0.8°C] of setting. [ $\pm 0.5$ °F/0.3°C 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 (https://www.filtrine.com/chiller-optionsand-accessories/) for more information.

## MODEL..... PCP or POC-75-7

#### DESCRIPTION

Recirculating chillers recirculate a clean coolant at constant temperature and pressure to increase the stability and consistency of water cooled machines and instruments. Air cooled chillers eliminate the use of tap water and prevent clogging and corrosion of small diameter heat exchangers due to rust and scale build-up. •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.

• **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	7,600
Watts	
Rating Conditions	
Coolant Discharge Temperature	68°F [20°C]
Ambient Temperature	90°F [32°C]
COMPRESSOR: HP	
Lifetime lubricated, welded hermetic type supplied w	
specified [see below], charging port, expansion valve and	l dehydrator.

STANDARD CONDENSERS [Designated by suffix]

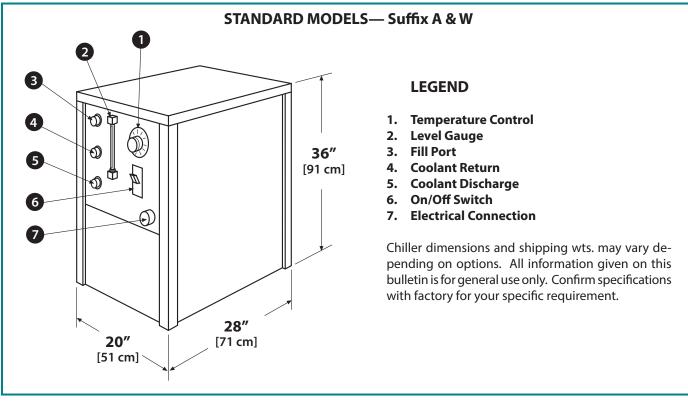
- A Fan cooled condenser inside chiller housing.
- W Water cooled condenser for hookup to city or tower water
- **A-WP** Self-contained air cooled condenser; complete unit made weather-resistant for outdoor installation.

PLUMBING CONNECTIONS	IN & OUT	1/2" FPI [13 mm]
SHIPPING WEIGHT		325 lbs [146 Kg]



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### **EXPLANATORY NOTES**

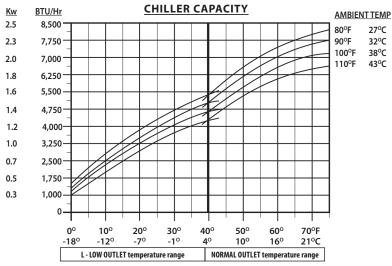
**VENTILATION PANELS:** Standard models — air intake at right end and air discharge at rear on A & WP models. Allow 12" [30 cm] clearance at these ends.

**REMOVABLE SERVICE PANELS:** Front & rear on all models.

**SERVICE ROOM:** Allow 16" [40 cm] at left end and 22" [55 cm] at front for service.

**INSTALLATION & SERVICE:** Arranging for installation, start-up and service is the responsibility of the purchaser.

**WARRANTY:** All parts are covered F.O.B. factory for 15 months from date of shipment.



\* For outlet temperatures below 34°F - use appropriate antifreeze

MODEL NUMBER*	GPM @ PRESSURE SHOWN							
	psi	5	10	20	40	60	80	100
	ft	12	23	46	92	138	184	231
STD-1/3C		20	15	4	-	—	-	_
OP-1/2C		30	20	15	-	—	-	_
OP-1/3T		7	7	7	7	7	5	3
OP-1/2T		8	8	8	8	8	8	7
*Standard po centrifugal adjustable	[C] or t	urbine [	T] mode	ls. Alİ tuı	rbine pu	mps incl	ude an	



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