

RECIRCULATING LOOP CHILLER

LOW PROFILE / WEATHER-RESISTANT



TYPICAL LOW PROFILE CHILLER

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

Low Profile Design

Designed for rooftop mounting. Easily concealed by parapet, 50" overall height for low visibility. Outdoor chiller location removes heat and operating noise from inside building.

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

Ambient operating temps from -30°F to 120°F

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.

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.

MODEL.....PCP-750G-96-A-WP-LP

HERMETIC SCROLL MODEL

DESCRIPTION

A closed loop, packaged chiller designed specifically to recirculate a clean coolant at a constant temperature, pressure and flow. Ideal for all installations where a dependable source of clean cooling water is not available.

Filtrine PCP 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 or fouling, and supplied with a liquid level gauge, fill port and clean out. The pump recirculates the coolant at a constant temperature, pressure and flow.

SPECIFICATIONS

COOLING CAPACITY: Btu/hr [min / max]96,000

Watts [min / max]28,128

Rating Conditions:

Coolant Discharge Temperature 68°F [20°C]

Ambient Air Temperature 90°F [32°C]

COMPRESSOR: HP 7 1/2

Description: 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 CONDENSER (Designated by suffix)

A-WP Weather-resistant for outdoor installation

COOLING TANK & EVAPORATOR: Capacity 95 Gals. [360 L]

Construction: Welded stainless steel shell with stainless steel immersion coil evaporator. Tank tested at 250# for 125# working pressure, supplied with drain connection and insulated with closed cell thermo-elastomer with an R factor of 3.7.

PUMP: HP 1-1/2

Capacity 30 GPM @ 40 PSI [114 lpm @ 4 bar]

Description: Bronze fitted turbine pump mounted on a rubber pad over a stainless steel condensation tray and supplied with unions and service valves and a pressure relief 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 [4° to 32°C]

Temperature Stability.....±2°F [1.4°C]

CABINET: Anodized aluminum panels with stainless steel corner legs and top on a welded angle iron frame. Panels removable without tools for access to all components.

Supply Power:.....208-230/60/3 or 460/60/3 or 380/50/3

Full Load Amps.....42 or 21

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

PLUMBING CONNECTIONS IN & OUT 1-1/4" [31mm] MPT

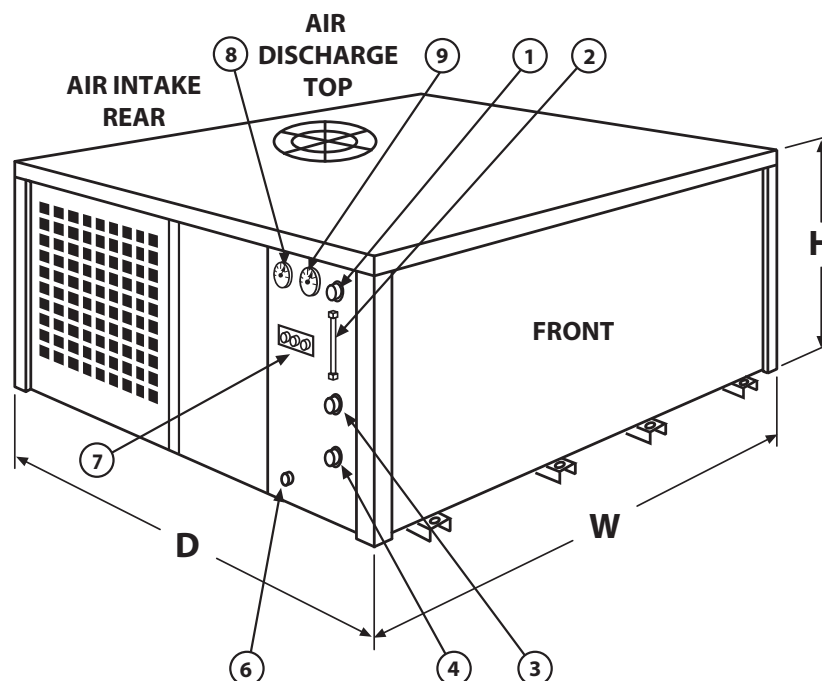
SHIPPING WEIGHT..... 2,200 lbs

**ENERGY SAVING OPTIONS AVAILABLE
CONSULT FACTORY**

TYPICAL WEATHER-RESISTANT, LOW PROFILE CHILLER SCHEMATIC

LEGEND

- 1.....Fill Port
- 2.....Sight Glass
- 3.....Return
- 4.....Discharge
- 6.....Electrical Connection
- 7.....Indicator Lamps
- 8.....Head Pressure
- 9.....Suction Pressure



CHILLER DIMENSIONS and WEIGHTS

FILTRINE MODEL NUMBER	W		D		H		SHIP WT	
	in	cm	in	cm	in	cm	lb	kg
PCP-750G-96-A-WP-LP	94	239	87	221	44	112	2200	950

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

STANDARD OPERATING CONDITIONS

OUTDOOR AMBIENT:

-20°F to 90°F (10° to 32°C)

OPTIONAL OPERATING CONDITIONS

OUTDOOR AMBIENT:

Down to -30°F (-34°C)

Up to 100°F (38°C)

Up to 110°F (43°C)

Up to 120°F (49°C)

NOTE: Higher ambient options may affect unit dimensions.

All information given on this bulletin is for general use only.

Confirm specifications with factory for your specific requirement.

VENTILATION PANELS

Standard model: air intake at rear, air discharge at top.

Manufacturer recommends 24" minimum clear space opposite all ventilation panels.

REMOVABLE SERVICE PANELS

Located on front and left end.

Manufacturer recommends 36" clearance at front for service and 36" clearance at left end for access to controls.

CHANNEL SKIDS

Allow an additional 4" (10cm) to depth and 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.