ONE-PASS CHILLER

APPLICATIONS
Photo Developing
Ingredient Make-up
Poultry Cooling
Bottling
Dispensers
Pharmaceuticals

APPLICATIONS
Reverse Osmosis
Ice Machines
Spray Washes
Beverages
Eye Wash Water
Boiler Feed Samples

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°F to 90°F [5°C to 32°C] and will hold temperature within ±1.5°F [1°C] of setting.

Welded Stainless Steel Cooling Tank
Coolant sealed from the atmosphere, eliminates bacterial build-up and internal corrosion.

Uses HFC Refrigerant
Eliminates use of ozone-depleting refrigerant as per Montreal Protocol.

Options
Design the perfect cooling system for any application. Over 50 options to meet almost any special need. Refer to Bulletin O & A.

MODEL.................................................. PC-100-10
DESCRIPTION
A completely packaged liquid chiller designed for applications where the liquid to be cooled passes through the chiller only once before either being added as an ingredient to a product or fouled by the product it is cooling. It is most important that a one-pass chiller be able to chill liquids at high and low flow rates without significant pressure drop or danger of freeze up, and yet have close, accurate temperature control.

Filtrine PC chillers are specifically designed for one-pass cooling. A high transfer immersion coil evaporator supplies maximum capacity at any flow rate with no pressure drop. Storage tank design permits close temperature control without short-cycling.

SPECIFICATIONS
COOLING CAPACITY
BTU/HR.......................................................... 10,500
Watts .................................................................. 3,077

Rating Conditions
Coolant Discharge Temperature .......................... 68°F [20°C]
Ambient Temperature ..................................... 90°F [32°C]
Flow rate ....................................................... 2 gpm [7.6 lpm]

COMPRESSOR HP ............................................... 1
Lifetime lubricated, welded hermetic type supplied with high/low pressure stat, anti-migration solenoid valve, thermostatic expansion valve, refrigerant sight glass and dehydrator.

STANDARD CONDENSERS [Designated by suffix]
- A Fan cooled condenser for indoor installation.
- W Water cooled condenser for hookup to city or tower water

COOLING TANK & EVAPORATOR
Capacity ............................................................ 12 gal [46 ltr]
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 thermostatic elastomer with an R factor of 3.7 and enclosed in rust-proof steel jacket.

THERMOSTAT: Adjustable Range ................. 40°F to 90°F [5°C to 32°C]
Temperature Stability ..................................... ±1.5°F [1°C]

CABINET: Enamed aluminum panels with stainless steel corner legs and top. Panels removable for access to all components.

SUPPLY POWER: ........................................... 115/60/1 or 230/60/1
FLA Amps Maximum: .................................... 18 or 9

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

PLUMBING CONNECTIONS IN & OUT ........... 3/4" [19 mm] FPT
SHIPPING WEIGHT ......................................... 300 lbs [68 kg]
**STANDARD MODELS: Suffix -A and -W**

**LEGEND**
1. Temperature Control
2. Level Gauge
3. Fill Port
4. Coolant In
5. Coolant Discharge
6. On/Off Switch
7. Electrical Connection

**NOTE:** Chiller dimensions and shipping wts. may vary depending on options. All information given on this bulletin is for general use only. Confirm specifications with factory for your specific requirement.

**NOTE:** Drawing is a composite of various models to demonstrate plumbing locations. Confirm footprint with factory.

**VENTILATION PANELS**
Standard models — air intake at RIGHT, air discharge at REAR on -A models. Manufacturer recommends 12 inch minimum clear space opposite all ventilation panels.

**REMOVABLE SERVICE PANELS**
Front & rear on all models. Manufacturer recommends 36 inch clearance at LEFT END and 36 inch clearance at FRONT for service.

### CHILLER GPH COOLING CAPACITY

<table>
<thead>
<tr>
<th>CHILLER MODEL NUMBER</th>
<th>MAKE UP WATER</th>
<th>CHANGE IN TEMPERATURE THROUGH CHILLER</th>
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<tr>
<td></td>
<td>5°F</td>
<td>10°F</td>
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<tr>
<td>90°F</td>
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<td>40°F</td>
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* Agitation pump required

### CHILLER CAPACITY

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<th>Kw</th>
<th>BTU/HR</th>
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</table>

**AMBIENT TEMP**

- 80°F 27°C
- 90°F 32°C
- 100°F 38°C
- 110°F 43°C

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