ONE-PASS CHILLER

MODEL .......................................................... PC-150

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 @ 68°F discharge and 90°F ambient

<table>
<thead>
<tr>
<th>MODEL</th>
<th>BTU/HR</th>
<th>WATTS</th>
<th>208-230/60/1</th>
<th>208-230/60/3</th>
<th>460/60/3</th>
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<tr>
<td>PC-150-15</td>
<td>15,000</td>
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<td>FLA 14</td>
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<td>FLA 6</td>
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</table>

COMPRESSOR HP ........................................................................................................ 1.5

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
- AR Remote Air cooled condenser furnished separately for mounting on roof
- W Water cooled condenser for hookup to city or tower water
- A-WP Weather-resistant for outdoor installation

COOLING TANK & EVAPORATOR
Capacity .................................................................................................................. 16 gal [60 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 thermoelastomer 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: Enameled aluminum panels with stainless steel corner legs and top. Panels removable for access to all components.

SUPPLY POWER: ...................... 208-230/60/1 or 208-230/60/3 or 460/60/3

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

PLUMBING CONNECTIONS IN & OUT ............................. 3/4” [19 mm] FPT
SHIPPING WEIGHT .................................................. SEE CHART ON REVERSE

APPLICATIONS
Photo Developing Reverse Osmosis
Ingredient Make-up Ice Machines
Poultry Cooling Spray Washes
Bottling Beverages
Dispensers Eye Wash Water
Pharmaceuticals 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.

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

TYPICAL CHILLER SHOWN
CHILLER DIMENSIONS & WEIGHTS

<table>
<thead>
<tr>
<th>FILTRINE MODEL NUMBER</th>
<th>W</th>
<th>D</th>
<th>H</th>
<th>SHIP WT</th>
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<tr>
<td>PC-150-A</td>
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<td>27</td>
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<tr>
<td>PC-150-W</td>
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</tr>
<tr>
<td>PC-AR</td>
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<td>PC-150-1-SSD*</td>
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<tr>
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<td>27</td>
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<td>24</td>
<td>61</td>
</tr>
</tbody>
</table>

* Space Saving Design

NOTE: Chiller dimensions and shipping wts. may vary depending on options - confirm with factory.

LEGEND
1. Air Vent
2. Fill Port
3. Coolant Return
4. Coolant Discharge
5. Control Panel
6. Gauges
7. To Remote Condenser [AR Models]
8. From Remote Condenser [AR Models]
9. Condenser Water Out [W Models]
10. Channel Skids

VENTILATION PANELS
Standard models: air intake at rear, air discharge at right end and front. Recommend 3 ft. clearance at front for service and 18 in. clear space opposite all ventilation panels.

REMOVABLE SERVICE PANELS
Front & rear on all models

CHANNEL SKIDS
Channel skids project 2" [5 cm] front and rear. Center of mounting holes located 6" [15 cm] from chiller end and 1" [2.5 cm] from chiller edge front and rear. Skids add 2" [5 cm] to overall height.

STANDARD OPERATING CONDITIONS
OUTDOOR AMBIENT
-20°F to 100°F [-29°C 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.

CHILLER CAPACITY

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CHILLER UP WATER</th>
<th>CHANGE IN TEMPERATURE THROUGH CHILLER</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC-150-19</td>
<td></td>
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</tr>
<tr>
<td>PC-150-17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC-150-15</td>
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<td></td>
</tr>
</tbody>
</table>

NOTE: Manufacturer recommends 36 inch clearance at front for service and 18 in. clear space opposite all ventilation panels.

NOTE: Allow an additional 4" to depth and 2" to height for channel skids.

NOTE: Drawings are composites of various models to demonstrate plumbing locations. Confirm footprint with factory.

SPACE SAVING DESIGN MODELS:
Suffix SSD - A, AR & W

NOTE: Manufacturer recommends 36 inch clearance at front for service and 18 in. clear space opposite all ventilation panels.

NOTE: Allow an additional 4" to depth and 2" to height for channel skids.

NOTE: Drawings are composites of various models to demonstrate plumbing locations. Confirm footprint with factory.

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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</thead>
<tbody>
<tr>
<td></td>
<td>5°F</td>
<td>10°F</td>
</tr>
</tbody>
</table>

* Agitation pump required

NOTE: Manufacturer recommends 36 inch clearance at front for service and 18 in. clear space opposite all ventilation panels.

NOTE: Allow an additional 4" to depth and 2" to height for channel skids.

NOTE: Drawings are composites of various models to demonstrate plumbing locations. Confirm footprint with factory.

REVISED 06.12.14