ONE-PASS CHILLER

MODEL: PC-1500S-180

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 | 180,000 |
| Watts | 52,755 |

Rating Conditions

Coolant Discharge Temperature: 68°F [20°C]
Ambient Temperature: 90°F [32°C]
Flow rate: 15 gpm [57 lpm]

COMRESSOR HP: 15

Field serviceable semi-hermetic type supplied with high/low pressure stat, freeze control, head and suction gauges, oil pressure switch, pump down 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
- AR  Remote air cooled condenser for outdoor installation
- A-WP  Air cooled, weather-resistant condenser for outdoor installation

COOLING TANK & EVAPORATOR

Capacity: 100 gal [380 ltr]
Welded stainless steel shell and immersion coil evaporator.
Tank tested at 250# for 125# working pressure and insulated with closed cell thermo-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: Enameled aluminum panels and top with stainless steel corner legs. Panels removable for access to all components.

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

<table>
<thead>
<tr>
<th>FULL LOAD AMPS - MAXIMUM</th>
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<tbody>
<tr>
<td>208/60/3</td>
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<tr>
<td>72</td>
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</tbody>
</table>

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

PLUMBING CONNECTIONS IN & OUT: 1-1/2” [38 mm] FPT

SHIPPING WEIGHT: Consult factory for details.

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 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.

LIFETIME WARRANTY
Consult factory for details.

ONE YEAR WARRANTY
All parts covered FOB jobsite for [12] months from start-up date or [15] months from date of shipment, whichever comes first. Consult factory for details.

START-UP and FIRST YEAR SERVICE
Filtrine can arrange start-up and first year service on all parts and labor. Regular maintenance, to help prevent costly down-time, is available on a contractual basis. Consult factory for details.

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FILTRINE IS ISO 9001-2008 REGISTERED
PRODUCT LINE APPROVED MARK AVAILABLE

603-15
[PC-1500S-180]
REVISED 06.11.14
NOTE: Chiller dimensions and shipping wts. may vary depending on options - confirm with factory.

LEGEND
2. Control Panel   Condenser Water Out [W Models]
3. Coolant In   7. From Remote Condenser [AR Models]
4. Coolant Discharge   Condenser Water In [W Models]
5. Electrical Connection   8. 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
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.

CHILLER DIMENSIONS and WEIGHTS

<table>
<thead>
<tr>
<th>FILTRINE Model No.</th>
<th>W</th>
<th>D</th>
<th>H</th>
<th>SHIP WT</th>
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<tbody>
<tr>
<td>PC-1500S-180-A</td>
<td>104</td>
<td>264</td>
<td>52</td>
<td>80</td>
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<tr>
<td>PC-1500S-180-W</td>
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<tr>
<td>PC-1500S-180-AR</td>
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<tr>
<td>PC-1500S-180-A-WP*</td>
<td>104</td>
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<td>52</td>
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*Weather-resistant for rooftop mounting

CHILLER CAPACITY

<table>
<thead>
<tr>
<th>AMBIENT TEMPERATURE</th>
<th>CHILLER CAPACITY</th>
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<tbody>
<tr>
<td>80°F</td>
<td>27°C</td>
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<tr>
<td>90°F</td>
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<td>100°F</td>
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<td>110°F</td>
<td>43°C</td>
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GPM - CHILLER 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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<tbody>
<tr>
<td>PC-1500S-180</td>
<td>90°F</td>
<td>70°F</td>
</tr>
<tr>
<td></td>
<td>80°F</td>
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<td>70°F</td>
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<tr>
<td></td>
<td>60°F</td>
<td>56°F</td>
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<td>50°F</td>
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<tr>
<td></td>
<td>40°F</td>
<td>42°F</td>
</tr>
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* Agitation pump required

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

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