ONE-PASS CHILLER

MODEL: PC-1500G-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)

COMPRRESSOR HP: 15
Lifetime lubricated, hermetic scroll type supplied with high/low pressure stat, freeze control, head and suction gauges, liquid line solenoid valve, thermo-static 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
FLA Amps Maximum: 50 or 25

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: SEE CHART ON REVERSE

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

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

**LEGEND**

1. Gauges
2. Control Panel
3. Coolant In
4. Coolant Discharge
5. Electrical Connection
6. To Remote Condenser (AR Models)
7. From Remote Condenser (AR Models)
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. Channel skids add 2” 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.

**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></td>
<td>5°F</td>
<td>10°F</td>
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<tr>
<td>PC-1500G-180</td>
<td>90°F</td>
<td>70°F</td>
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<tr>
<td></td>
<td>80°F</td>
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* Agitation pump required

**CHILLER CAPACITY**

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<th>Kw</th>
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<td>5.9</td>
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</table>

**AMBIENT TEMP**

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

*L - LOW OUTLET temperature range  NORMAL OUTLET temperature range

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

**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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<td>264</td>
<td>52</td>
<td>3500</td>
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*Weather-resistant for rooftop mounting