Operation

The condensate cooler and flash condenser is designed to collect condensate from the humidifiers and safely discharge it to the drain at a temperature that complies with local regulations. Condensate is piped into the tank through one of three connections. Separate pressurized and non-pressurized condensate returns into individual connections.

A water sensor takes the condensate temperature and regulates the cold-water flow through the valve. Cold water will be sprayed through the Spiral discharge nozzle into the tank to eliminate flash steam and reduce the condensate temperature to the desired discharge set point.

The JC200FCC is particularly suited for light loads and where the installation of a condensate return system is impractical.

Construction Features

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tank</td>
<td>304 Stainless Steel</td>
</tr>
<tr>
<td>Strainer</td>
<td>Brass</td>
</tr>
<tr>
<td>Control Body</td>
<td>Brass</td>
</tr>
<tr>
<td>Sensor &amp; Union Kit</td>
<td>Brass</td>
</tr>
</tbody>
</table>

The 1" AVTA Cooling Valve has a Cv of 6.4 and is capable of discharging up to 20 gallons per minute of cold city water at 50°F at a pressure of 60 psig.

Capacities

The condensate load will depend on the pressure and temperature. When discharged from a 15 psig source at 250 °F the unit can eliminate flash and sub-cool more than 2500 lbs per hour of condensate to below 120 °F.

Dimensions

2" NPT Cooled Condensate Out

2" NPT Hot Condensate In

1" NPT Cold Water In

2" NPT Atmospheric Vent

SPIRAL NOZZLE

Cone-Shaped Discharge

11 ½"  
20'

9 ½"  
14"