Armstrong's Condensate Cooler is a device that mixes hot condensate or hot water with a cold water supply to reduce the temperature to acceptable discharge drain temperatures as required by city and state codes. It is a pre-assembled package that is suitable for any plumbing system. When hot condensate or hot water is drained into the condensate cooler body, the tempering valve opens and allows cold water to enter the chamber and mix with hotter liquid, cooling it to a preset temperature level of 135°F (57°C) or to a desired field set temperature.

**Capacities (Total of condensate and cooling water combined)**
- CC-5 5 gpm (19 lpm) with 180°F (82°C) condensate
- CC-12 12 gpm (45 lpm) with 180°F (82°C) condensate

To determine condensate load, use the following formula:

\[(B - C) / (H - C) \times \text{Total Capacity}\]

Where:
- \(B\) = Blended Water Temperature
- \(C\) = Cold Water Temperature
- \(H\) = Condensate Temperature

**Tempered Condensate Range**
- Factory preset 135°F (57°C)
- Field adjustable range 115 to 180°F (46 to 82°C)
- Maximum cold water pressure 150 psig (10 bar)

**Materials**
- Body: ASTM A48 cast iron
- Condensate Copper
- Cold Water Malleable iron
- Body (Controller): Brass
- Sensing Bulb: Bronze

For a fully detailed certified drawing, refer to:
- CC-5 CDY #1000
- CC-12 CDY #1073

**Physical Data**

<table>
<thead>
<tr>
<th></th>
<th>CC-5</th>
<th>CC-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe connections</td>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>Hot Condensate inlet</td>
<td>3/4</td>
<td>20</td>
</tr>
<tr>
<td>Tempered condensate outlet</td>
<td>1-1/4</td>
<td>32</td>
</tr>
<tr>
<td>Cold Water inlet</td>
<td>3/8</td>
<td>10</td>
</tr>
<tr>
<td>3/8</td>
<td>3/8</td>
<td>10</td>
</tr>
<tr>
<td>Floor Drain</td>
<td>1-1/2</td>
<td>32</td>
</tr>
<tr>
<td>1&quot; Minimum Air Gap</td>
<td>3/4</td>
<td>20</td>
</tr>
<tr>
<td>Sanitary Sewer</td>
<td>1-1/2</td>
<td>32</td>
</tr>
</tbody>
</table>

**Sensing Bulb**
- 1" Minimum Air Gap Required (to eliminate back siphonage)

**Floor Drain**
- 1-1/2" Minimum Air Gap Required (to eliminate back siphonage)

**Sanitary Sewer**
- 1-1/2" Minimum Air Gap Required (to eliminate back siphonage)

**Weight (lb/kg)**
- CC-5 14 (6)
- CC-12 74 (34)

**All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.**