

A1 - Controls (1710010) Shop Drawing

CWC - Condensate Water Cooler

The CWC reduces water temperature from 212°F (100°C) to 140°F (60°C) before the water enters the building plumbing system. This ensures water temperatures meet municipal plumbing ordinances. CWC units work in conjunction with any of the following: CONDAIR's LIVESTEAM steam injection humidifiers and the SAM-e short absorption manifold. One CWC per humidifier / distribution system.

PRINCIPLE OF OPERATION

The CWC reservoir receives the hot water through the inlet near the top of the reservoir. A thermostat senses the temperature of the water in the reservoir and opens the cold water supply valve. The blended water is automatically drained to the building plumbing system.

CHARACTERISTICS

CWC Self-Actuated
Part #171-0010

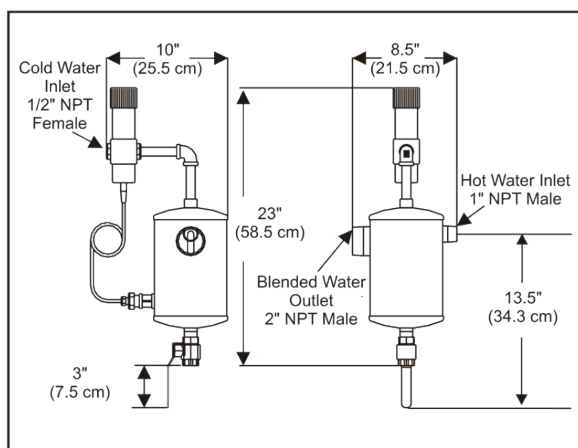
- Stainless steel cylindrical reservoir (OD = 6.0" and H = 10.0").
- 1" NPT male-fitting connection inlet for the hot water.
- 2" NPT male-fitting connection outlet for the blended water.
- 3/4" Brass ball valve at the bottom (for manual drain).
- Self-activated hydraulic valve combined with a thermostatic sensor.

CWC Electric
Part #171-0020

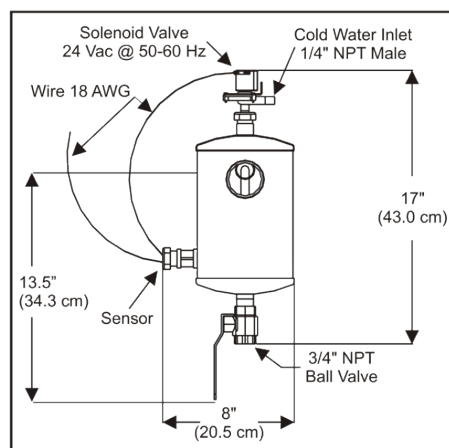
- Stainless steel cylindrical reservoir (OD = 6.0" and H = 10.0").
- 1" NPT male fitting connection inlet for the hot water.
- 2" NPT male fitting connection outlet for the blended water.
- 3/4" Brass ball valve at the bottom (for manual drain).
- 24 Vac valve combined with a thermostatic sensor.

The CWC will cool 4.5 gallons (U.S.) per minute of hot water from 212°F (100°C) to 140°F (60°C) with cold water at up to 70°F (21°C) when cold water is supplied at a rate of 7.5 gallons (U.S.) per minute at a minimum static line pressure of 60 psig. Performance will degrade if supplied cooling water is at temperature conditions higher than stated above.

The 3/4" Brass ball valve at the bottom of the CWC is provided to facilitate the periodic cleaning. (See Maintenance section).



CWC Self-Actuated
Part #171-0010



CWC Electric
Part #171-0020



CWC - Condensate Water Cooler
P/N 171-0010 & 171-0020
July 4, 2012

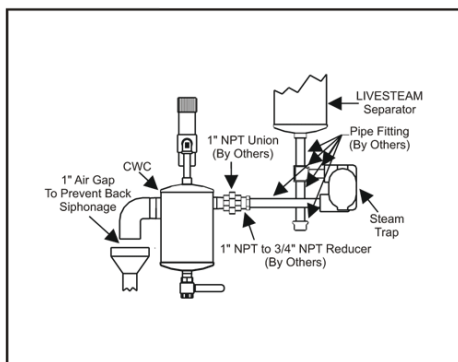
Page 1 of 2

A2 - Controls (1710010) Shop Drawing

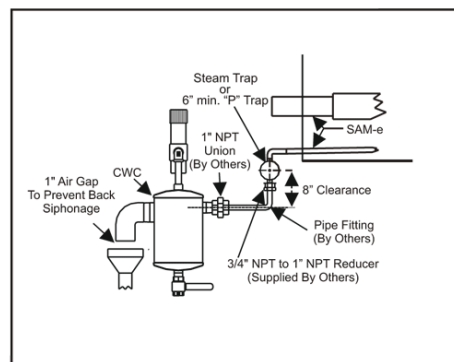
The CWC accurately reacts to an increase of temperature created by:

- Condensate from the LIVESTEAM Steam Trap(s).
- Condensate from the SAM-e Distributor.

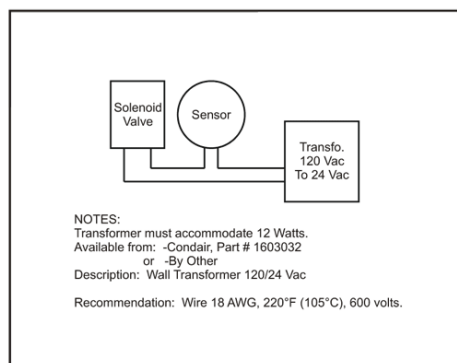
NOTE: The CWC Self Actuated is pre-set at the factory.



Installation With LIVESTEAM



Installation With SAM-e



Schematic For Electrical CWC

MAINTENANCE

Once a year, it is recommended to perform the following steps:

- 1) Shut down the source of hot water.
- 2) Drain the CWC by opening the 3/4" Ball Valve.
- 3) Disassemble the CWC from the hot water source.
- 4) Rinse the CWC with water added through the Blended Water Outlet.
- 5) Clean the Hot Water Inlet Tube with a 3/8" diameter fine brush, at the entry and through the 3/4" Ball Valve.
- 6) Re-assemble the CWC.
- 7) Re-connect the hot water source.

CWC units are covered under standard Condair 2 year limited warranty.