



TYPE JCC Jet Eductor Condensate Aftercooler

“Eliminates Flash Tanks and Vents to Atmosphere”
Simple Self Acting Operation No Electrical or Pneumatics

PRODUCT DESCRIPTION:

The Thermaflo type JCC Jet Eductor Aftercooler is designed to accept high temperature condensate from steam traps and small heat exchangers and blend it with cooling water to 140F and below, so that it can be discharged to a suitable drain. The JCC is a totally self acting system that is furnished with a 1/2" self acting cooling control valve and a 3" dial bimetal type thermometer located in the outlet. The cooling valve has a hand adjustment so that the outlet blowdown temperature can be regulated. The 316 stainless JCC construction promotes long life and enhances to appearance.

OPERATION

Hot flashing condensate enters the JCC at the top 1" port and flows directly into the blending chamber. The self acting cooling valve senses this hot liquid and proportionally opens allowing a high velocity of cooling water to flow into the eductor tube, drawing hot condensate into the blending chamber. This high velocity action mixes the two flows cooling the condensate to 140F or below before flowing to the drain outlet. The self acting cooling regulator proportionally regulates the flow of cooling water into the JCC only as required.

Thermaflo Engineering Inc. 2880 Fair Avenue Newberry, S.C. 29108
Phone: 704-940-1228 www.thermafloengineering.com

MADE IN USA INFO S09-9JSA 2009

MAX CONDENSATE TEMP: 406F 250 PSIG
MAX COOLING WATER PRESSURE: 100 PSIG
MIN COOLING WATER PRESSURE: 40 PSIG
MAX BLOWDOWN FLOW RATE: 5 GPM (2500 LBS /HR)
FACTORY SET POINT: 140F

MATERIALS OF CONSTRUCTION:
316 Stainless Steel Eductor and Blending Chamber
Bronze Single Seated Cooling Valve
Bronze Thermal Probe SS Well Optional

Application Notes:

Main drip steam traps generally discharge approx 50-100 lbs/hr on normal flows. It is recommended to limit the number of steam traps discharging to the JCC to five in a manifold arrangement.

Install Note:

A strainer and ball type isolation valve should be installed on the inlet cooling water. If the supply line is over 10' long a 3/4" supply should be used to avoid a severe pressure drop.