

# 10. Heating System - Unit Heater Drains



**Area:** Fossil fueled power plants

**Application:** Provision of hot forced air circulation.

**Objective:** Forced air circulation via fans on blowers through finned tube or banks of air blast coils for space heating.

**Condensate Load:** Considering changing inlet air temperatures and control method condensate loads will vary considerably.

**Steam Pressure:** Normally the heating system drip leg applications will be at intermediate or low pressure.

**Drain to Trap:** Gravity fed to avoid condensate back up.

**Trap Discharge:** Typically to a closed return or drain system.

**Ambient Conditions:** Major danger is from freezing especially when cold air is drawn from outside.

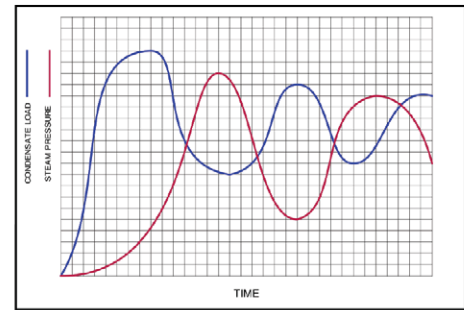
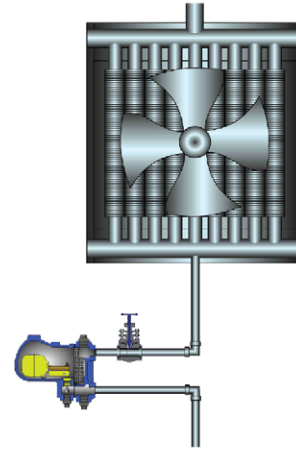
**Recommended Trap:** SF-50 / SF-150 / SF-300 (Trap only or Piping King Option)

**Characteristics:** Fast response, robust, hot discharge, self-draining. Good air handling. Easily maintained. Freeze resistant.

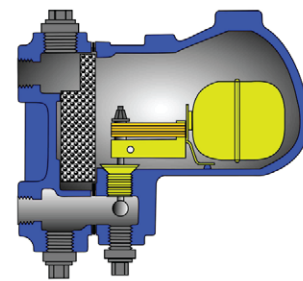
**NOTE:** Fit vacuum breakers to allow complete drainage of unit during shut down conditions.  
Size extremely carefully – especially for start-up load.

CAST IRON

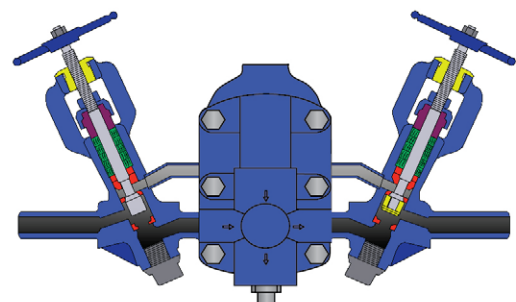
A216 GR-WCB



Estimated Running Load for Unit Heater Application



MFT Series



Piping King