

5 Operating information

An electronic control system coupled with a control valve results in a highly responsive system which provides virtually constant hot water flow at the selected set point temperature.

Accessories included with the IPW water heater include:

- Boiler water and domestic water Y-strainers with blow-down valves
- Pressure & Temperature relief valve
- Isolation valves and domestic water drain valve
- Integral domestic water circulator pump

The following paragraphs provide a top-level functional overview of system operation.

Sequence of operation

The cold water enters the heat exchanger through the inlet connection and strainer. Cold water flows through the plate heat exchanger, where it is heated by hot boiler water, and then discharged through the Domestic Hot Water (DHW) outlet connection. A portion of hot water is mixed with the cold water entering the heater.

Boiler water supplied to the heat exchanger passes through the inlet connection and strainer. The boiler water heats the colder domestic water, and is then discharged through the boiler water outlet connection. The boiler water flow is controlled by a 3-way valve.

For IPW double-wall heat exchanger models, heat transfer plates are positioned together to form one assembly with an air space between them. This protects against leakage of boiler water into the domestic water. If one of the plates should develop a leak (boiler water or domestic water, whichever is leaking), the water will enter the air space and exit to the atmosphere. It will flow through leak detection channels alerting an operator that a leak has occurred.

Electronic control overview

The primary control mechanism for the electronic control system is an electronic process controller which is installed in the control box. The controller utilizes feed forward and PID (Proportional Integral Derivative) algorithms to provide precise control of the water heater outlet temperature. Outlet temperature control is accomplished by modulating the open/closed position of the control valve actuator.

The controller continuously monitors the water heater outlet temperature via an RTD located in the outlet port. The controller also receives a signal from the temperature sensor mounted in the mixed water inlet as shown in FIG. 3-1A. The mixed water sensor monitors flow changes through the water heater and provides a signal to the controller proportional to the change in flow. The mixed water temperature provides an instantaneous response for the specified flow range of the unit.

The controller provides a 0 - 10 VDC output signal to the control valve actuator. This 0 - 10 VDC signal proportionally modulates the control valve position from fully closed (0 VDC) to fully open (10 VDC). The control signal varies as necessary to maintain the set point temperature programmed into the controller. Under normal conditions, the IPW water heater outlet temperature is maintained within $\pm 4^{\circ}\text{F}$ of the desired set point based on a load change of 50% or less.

Over-temperature control and safety features

The control box contains an over-temperature switch which continuously monitors the outlet water temperature of the heater. Normally, the over-temperature switch is set to 20°F above the set point temperature for the water heater. If the programmed over-temperature limit is exceeded, the over-temperature switch is activated. This in turn disconnects power from the control valve actuator moving the control valve to the full bypass position (B- AB). It should be noted that the over-temperature switch has a slightly slower response to temperature changes than the temperature controller.

The control valve actuator also incorporates a "Fail Safe" feature which automatically closes the valve if there is a loss of the 0 - 10 VDC control signal or loss of input power. The 24 VAC power supply transformer has an integral 3 amp circuit breaker to protect the control valve electronics.

Acramatic Installation Service Manual

Jin-Ying Zhang



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