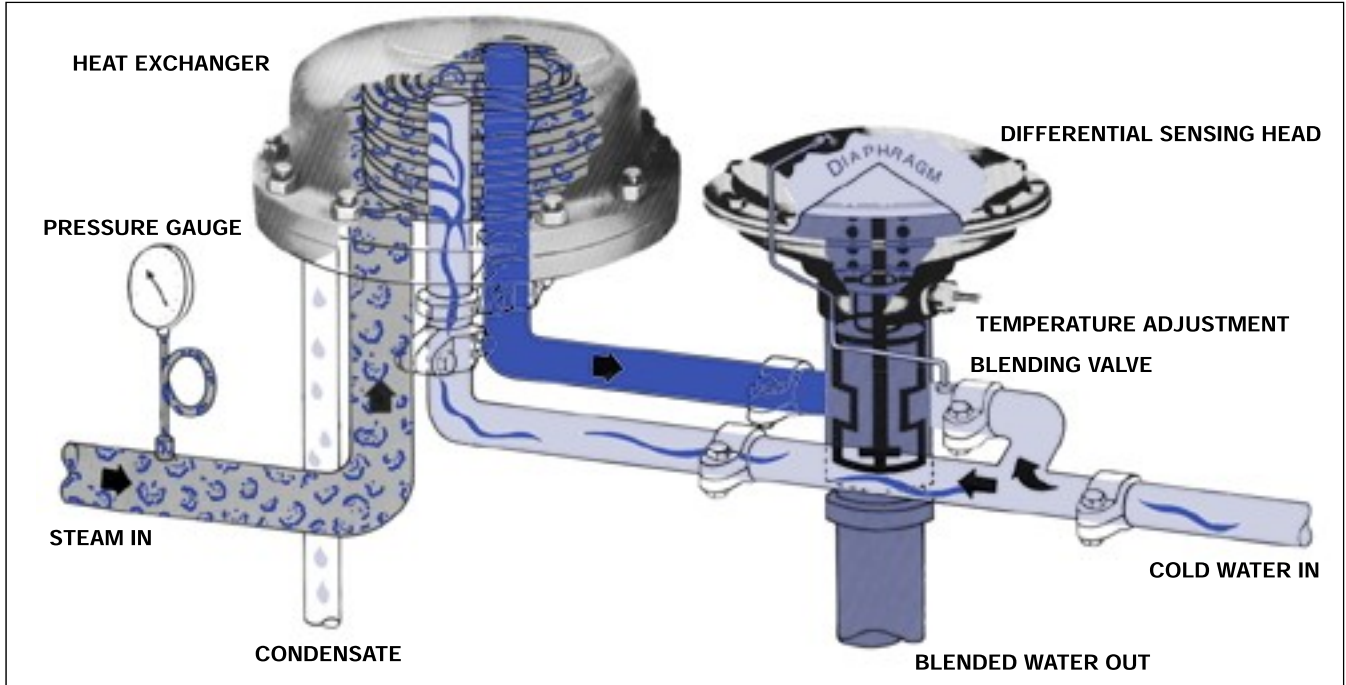


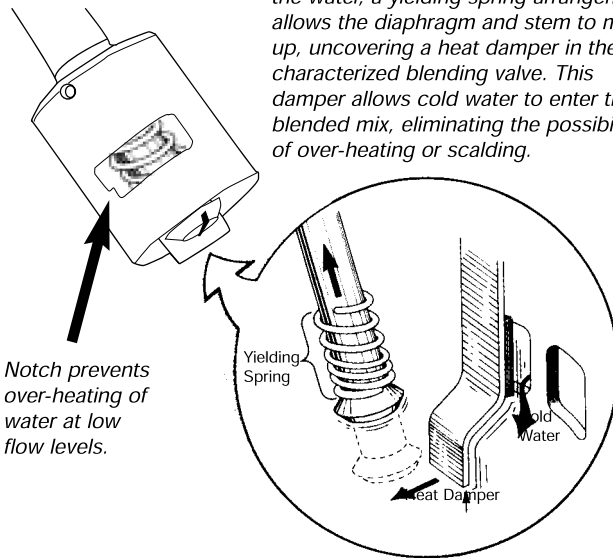
CONSTANTEMP COMPACT PRE-PIPED DESIGN AND FEEDFORWARD OPERATION

OFTEN IMITATED, BUT NEVER MATCHED

Constantemp for Most Applications - (Constant Steam Pressure)



Two Innovations to Ensure Safety.



Should movement of the blending valve be restricted by foreign matter carried in the water, a yielding spring arrangement allows the diaphragm and stem to move up, uncovering a heat damper in the characterized blending valve. This damper allows cold water to enter the blended mix, eliminating the possibility of over-heating or scalding.

Notch prevents over-heating of water at low flow levels.

WARRANTY

The heat exchanger shall carry an extended warranty in addition to the manufacturer's warranty as follows:

COILS—The heat exchanger coils shall carry an unconditional, non-prorated 10 year guarantee against failure due to thermal shock, mechanical failure or erosion.

PRESSURE VESSEL—The heat exchanger pressure vessel shall carry an unconditional, non-prorated 10 year guarantee against any failure.

All other parts of the package, such as blending valve, gauges and traps, etc. have the standard LESLIE warranty.

CONSTANTEMP OPERATION

FLOW DEMAND

The central component of the Constantemp steam-water heater is the feed forward blending valve that is activated by a differential pressure sensing head.

An impulse line to the top of the blender's differential sensing head comes from a connection to the cold water supply line. Blended water is sensed under the diaphragm through ports in the blending valve.

The proportioning action of the blending valve occurs as changes in the sensed pressure differential across the diaphragm are created by flow demand.

As demand for blended hot water increases, a drop in blended water pressure is sensed under the diaphragm. This pressure drop causes the stem in the blending valves to move downward, lining up the hot and cold water ports of the valve plug with the ports in the body of the blending valve.

This action automatically proportions the hot and cold water blend ratio to maintain the set temperature for all flow demands. Water is blended instantly... automatically, with virtually no lag in response to demand.

The blending valve plug (a piston or slider-type valve) moves down to open and is rotated during its

travel to perform the proportional blending of hot and cold water to the desired temperature. The rotation rate during the valve movement is set by the demand on the system.

Should movement of the blending valve be restricted by foreign matter carried by the water flow, a yielding spring arrangement allows the diaphragm and stem to move up, uncovering a "heat damper" in the characterized blending valve. This damper will allow more cold water to enter the blended mix, reducing the possibility of overheating or scalding.

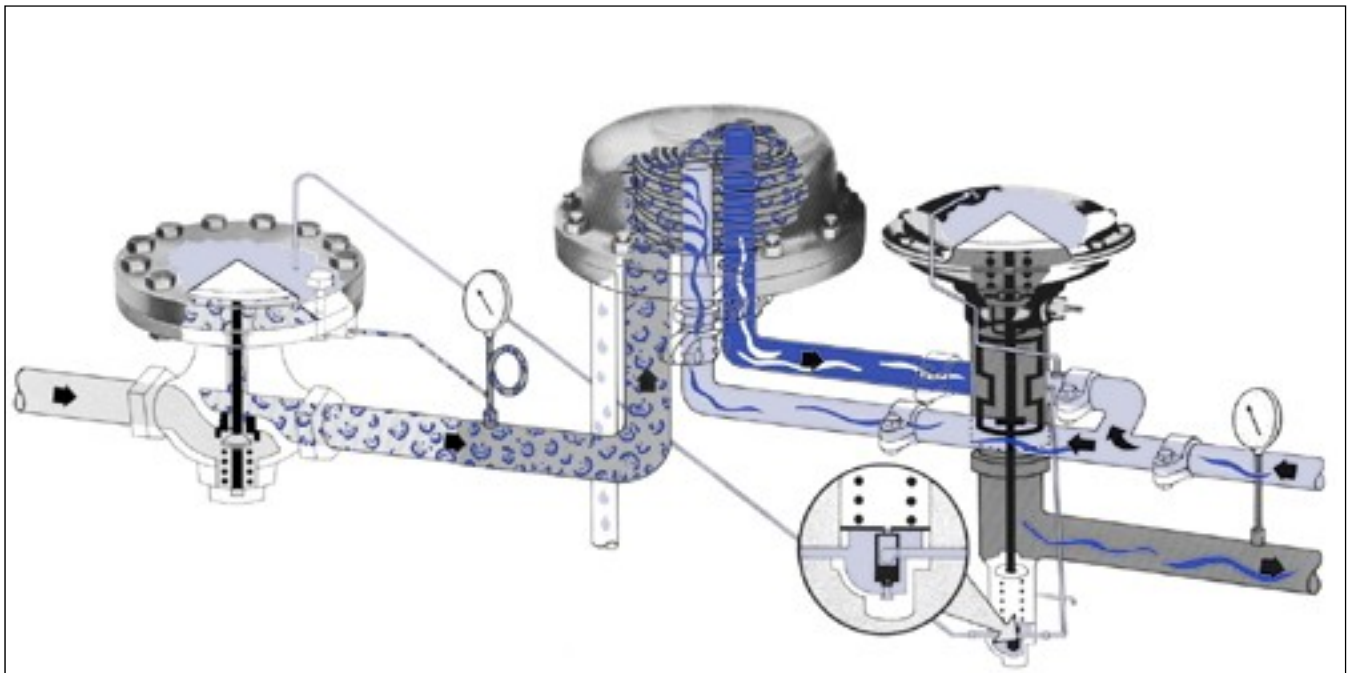
Temperature settings are easily made by using the adjusting rod located on the stem of the blending valve. A simple movement of the rod in one direction or the other allows outlet water temperature to be preset.

PRE-PIPED SYSTEM

The Constantemp steam-water package is a completely pre-piped system with properly sized accessories supplied as part of the package.

Models operating with steam pressures above 15 psig are supplied with steam pressure reducing valve. All features are supplied with traps, strainers, steam pressure gauge and thermometer.

Variable Steam Pressure Constantemp - for greater flows at maximum temperature rises



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