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Air Drying Product

There are a variety of products that must be dried prior to use. These include but would not be limited to lumber, tobacco, hops, tea, and herbs. The drawing below illustrates air drying product using the Mark 80 temperature regulator with a Type "C" Finned sensing bulb. A finned bulb is designed for sensing the temperature of the atmosphere. The fins increase the effective exposed surface area, providing the necessary sensitivity. It is used effectively in air ducts, drying kilns, etc. When using a C bulb, good circulation is required and the bulb is generally installed downstream of the blower or fan.

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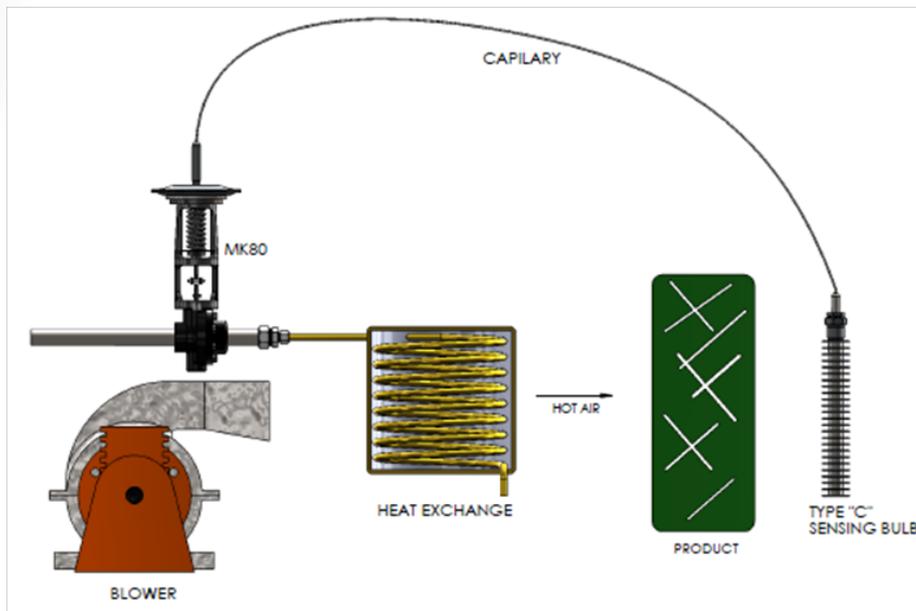
Steam Drain Cooler

This application comes from a ship builder who is using our valves but is applicable to landlubber applications.

Many steamships use centrifugal pumps in their condensate return systems. Due to cavitation of this high temperature condensate, the seals on these pumps can wear very quickly. Knocking the temperature down prior to returning this condensate is one way to reduce the strain on the pump seals.
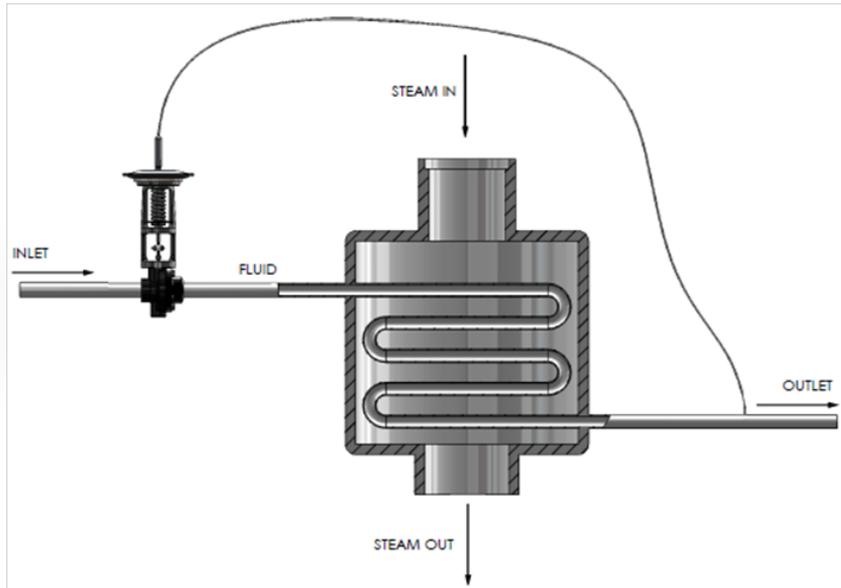
Using a MK80 to reduce the temperature of the condensate by combining it with cool water is how some ship builders have eliminated this problem.

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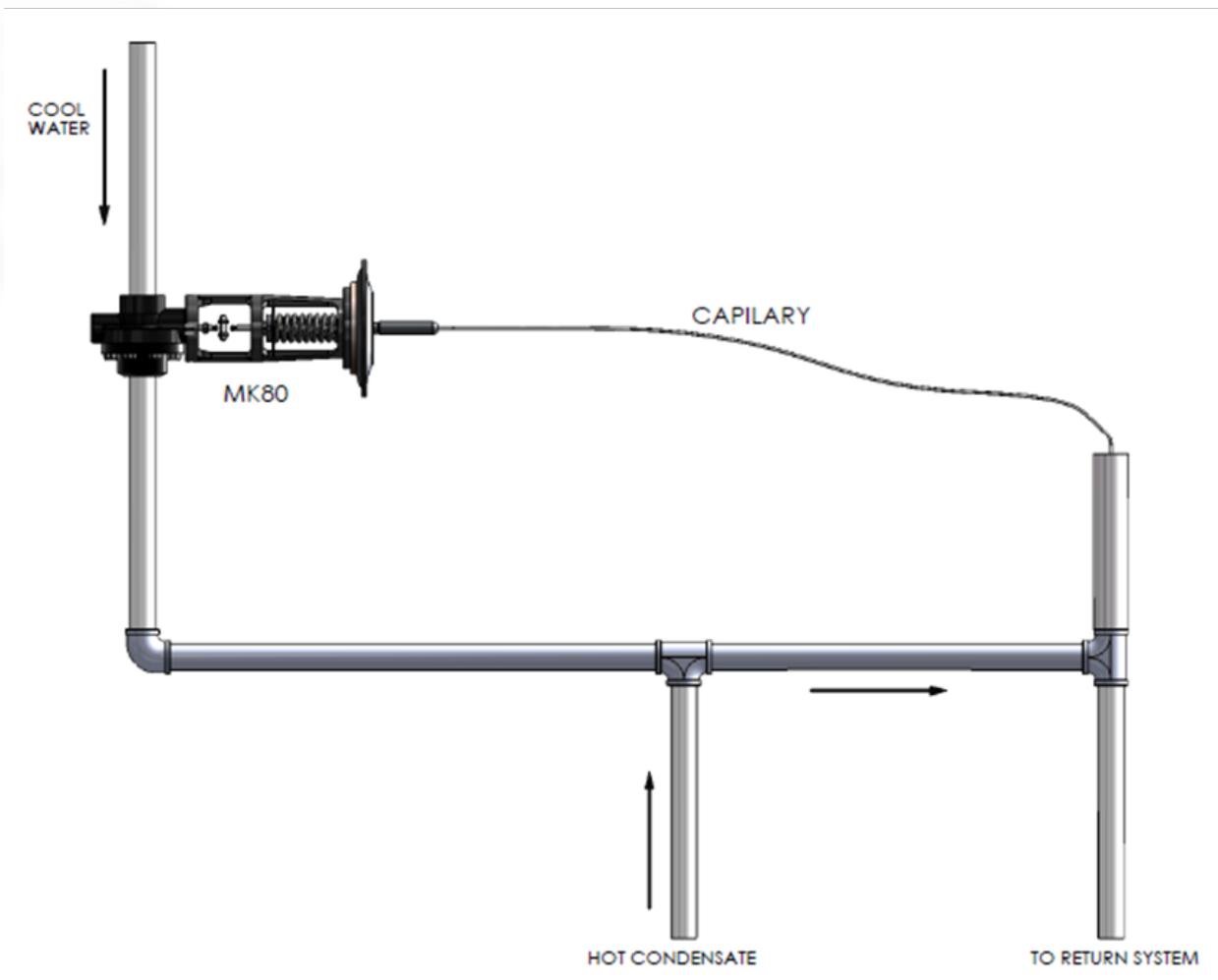
Heat Exchangers

When heating a liquid in a heat exchange, a MK80 can be used with the bulb installed in the downstream piping to measure the exiting temperature of the product.

Compressor Application

Our customer uses a Jordan Mark 60 pressure regulator and a Mark 80 temperature regulator on the compressor in their plant. The Jordan regulators are used to control the temperature of a bearing in the compressor, which must be constantly maintained at 75°C or below. The thermal system on the Mark 80 senses the bearing temperature, and when the temperature becomes too high, the self-operated Mark 80 automatically controls the flow of water, which is used to cool it down. A Mark 60 valve is installed to control the pressure of the water used for cooling. This is further detailed on the following schematic.