

HOT TECH

□ 8790

enclosed emergency environments™



Certain conditions will produce water that is too hot for safety shower/eyewash purposes. For these cases, Haws provides HotTech™ systems to bring water temperatures down to a usable 85°F - 90°F (29°C - 32°C).

Whether the heat in the safety shower line is produced by high ambient temperatures, a hot potable water supply, or exposure to a process environment, any excessively hot water will need to be cooled before it is usable as safety equipment flushing fluid.

Haws is prepared to cool water no matter the source of the heat or irregularity of the heat load. However, in practice, there are two main scenarios requiring HotTech™.

Scenario #1: The water supply itself is not hot, but the above ground piping in the shower recirculation line is exposed to extreme ambient conditions which heat the water. In this case, the above ground water will need to be chilled with a recirculating chiller.

Scenario #2: The same circumstances as in Scenario 1 exist, but with the additional element of a water supply that is hot. This hot water supply need not be chilled instantaneously, but must be prevented from reaching the safety equipment. Adding to the shower line a storage tank large enough to provide chilled water for a fifteen minute drench shower prevents the hot water supply from reaching the safety equipment. Therefore, Scenario #2, in addition to a chiller, requires a storage tank.

Features

Chiller: The heart of the HotTech™ system is the chiller. A properly sized chiller removes excess heat from the water supplying the safety showers and eyewashes and maintains a desired temperature.

Recirculation Pump: Any HotTech™ system will require a recirculation pump. In most cases, chilled water will be recirculated through a recirculation loop in the shower line. Recirculation loops, however, are not always present. In the absence of a recirculation loop in the shower line, chilled water will be recirculated between the chiller and the storage tank. A recirculation pump will continually move water through the chiller out to the safety shower loop (or tank, in case there is no recirculation loop) and back to the chiller, thereby regulating the water temperature and keeping chilled water near or at the point-of-use.

Booster Pump: A booster pump may or may not be used with a HotTech™ system, depending upon supply water pressure relative to system head, and how many showers are to be run simultaneously. The booster pump provides the pressure needed at a high enough flow to operate the required number of safety showers.

Storage Tank: Scenario #2 requires a storage tank large enough to provide at least one fifteen minute shower. Scenario #1 requires a storage tank only if there is no recirculation shower line.

Controls: The chiller controls are very simple. Set the desired temperature on the control panel and the chiller will automatically maintain the loop at that temperature.

Advantages

A Haws HotTech™ system provides a skid mounted solution to hot water problems in safety shower piping. Requiring only electrical and water hook-ups, the unit will feed properly tempered water for use at safety shower/eyewash points of use.