

# Steam Lines...



## Cause For Concern??

Welcome to Steam Lines, in this issue we will be dealing with Legionnaires Disease. The main cause for hospital-acquired legionnaires has been shown to be potable water in hot water tanks and its localization to sediment. Further to the point hot-water-tank-water supports the growth and survival of *L. pneumophila*.

This is consistent with the theory that the temperature of hot water tanks (100 – 120F) provided the bacteria with a selective temperature advantage. It was also proven that *L. pneumophila* couldn't multiply in circulating water.

With that thought in mind, we at Mentec have two solutions that will eliminate the need for hot water tanks and combat the possible spread of Legionella.

The first being the Leslie Constantemp water heater, which requires no tanks and can produce up to 120 GPM of tempered water. The Constantemp will heat water only on demand.

The second solution is the Tri Tron Electronic Scale Controller. It uses an electronically controlled pulsed energy - applied directly into the water that starts the precipitation process of the minerals into very small calcium carbonate crystals, before they can form on the exchanger tube walls. The dissolved minerals can now be filtered out of the system. With regards to bacteria, the efficient water system breaks these colonies loose and passes them through the germicidal ultraviolet purifier that kills them immediately upon contact. Bacteria in general cannot live in pure water. Their habitat is in the scales, dirt, debris and biofilms in the water. With the bacteria killed off, Legionella cannot form.

## Quote For The Month

“Ability can take you to the top, but it takes character to keep you there.”

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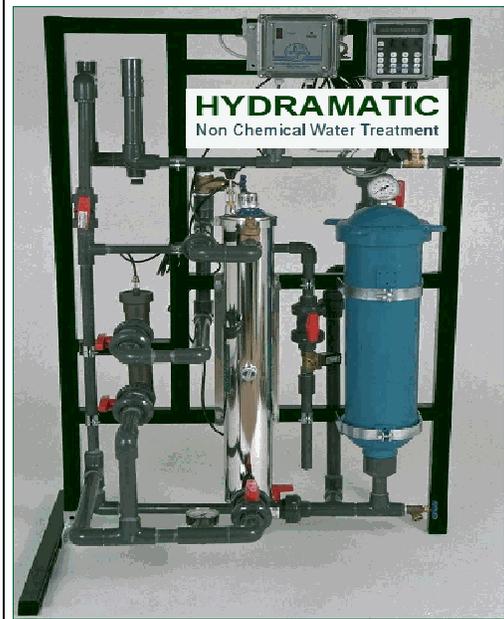
## FACTS ABOUT STEAM

- 15PSI Steam has a saturated temperature of 250 F (Above Atmospheric Temperature).
- A Control Valve with a Cv of 1 has a capacity of 1 GPM of water at 1PSI Pressure Drop.

## INFORMATION FOR SIZING STEAM TRAPS

- Max. Condensate Load
- Inlet Pressure Max. and Min.
- Back Pressure
- Temperature of Condensate

The picture below is of The Tri Tron System



## Food For Thought

He who asks is a fool for five minutes, but he who does not ask remains a fool forever. (Chinese Proverb).

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