

# DI Water Heater Solutions

Product customization is a way of life at Trebor. On any given day, Trebor engineers receive a range of customer requests. Our team is adept at translating those requests into workable solutions that meet customer needs.

For example, one of our customers asked for an individual heater system to have multiple (two or four) hot DI water outlets, each having the ability to be controlled independently. The design team went to work, made the necessary modifications to the hardware and software, and provided a custom outlet heater in a minimal amount of time. The customer was extremely happy because our solution met their need to minimize floor space while maximizing their investment.

Our engineers have also designed DI water heaters with custom communications such as Ethernet, ModBus/RTU (serial), Device Net, Analog Interface and customer specific I/O contact communication interface.

Vanilla is certainly not the only flavor available here. We're ready to meet any custom design challenge.

## Leading Edge Technology

Patented thin-film on quartz electrical resistance heater elements provide exceptional temperature response and improved reliability over IR heating, which requires frequent bulb change-outs.

Unlike most immersion heaters, the Quantum has no metal exposure, which eliminates contamination risk. No external air or nitrogen purge is required.

## Versatile Control Options

Standard Modbus/TCP offers the industry's first DI water heater Ethernet control capability. Many other remote system monitoring and control options are available to meet virtually all communication requirements and protocols.

## Compact and Convenient

The modular element allows for very a compact system design and can be changed out in less than 15 minutes. An LCD color touchscreen display provides easy user input and diagnostic feedback.



DI Water Heater

## High Performance

Efficient heat transfer and low resident fluid volume produces fast response to changes in flow or temperature set point using multi-loop PID control with zero crossfire SSRs.

## Ultra-Clean Design

High-purity flow path of GE 214 semiconductor grade quartz, PTFE, and PFA with no elastomer o-rings and no NPT threads or dead-legs to create particle traps.

## Safety Compliant

TUV third party compliance testing and inspection to CE, SEMI S2 & S8, and NFPA79 standards.

## Extreme Transition Control

Eliminate fluid temperature fluctuations caused by process flow changes. Signal the heater of an upcoming flow change and within one second, the heater will automatically adjust to minimize the effect on process temperature.

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