

# Hot Water Made EZ

## The EZ Difference

EZ Heater® is a patented Direct Steam Injection (DSI) heater designed specifically for utility and process water heating. It instantaneously heats water to precise temperatures while saving energy and maintenance time.

EZ Heaters are available as stand alone-in-line heaters, or as part of EZ Skid™, a pre-plumbed turnkey heating system.

**EZ to Save** - EZ Heater offers 100% direct transfer of heat, reducing energy consumption up to 30% when compared to heat exchangers or spargers. Call for a free energy savings ROI calculation for your application.



**EZ to Maintain** - EZ Heater needs no condensate return system and never plugs or fouls. It operates smoothly and quietly with a once a year check.

**EZ to Control** - EZ Heater regulates water temperature with a patented internal modulation system, requiring no external steam control valve.

## Applications

- **Hose Stations** - Replace multiple steam/water mixing tee stations with one EZ Heater to eliminate maintenance and down-time due to scaling and fouling.
- **Sanitizing Stations** - Instantaneous hot water while maintaining accurate water temperatures. Use for CIP, COP, wash-down and proper sanitizing of processing stations and equipment.
- **Jacketed Kettles and Cooking Pots** - Greatly reduce cycle time by preheating potable water. Maintain batch consistency by providing instantaneous hot water at exact temperatures.
- **Supplemental Hot Water Heating** - Instant and unlimited hot water on-demand. Precise temperature control and patented self-cleaning design provides hot water at various flow rates, when and where it's needed.

# EzHeater®

**SAVE ENERGY • CUT COSTS**

## EZ Heater Solution

- Exceptional energy savings over heat exchangers and spargers
- Precise temperature control
- Instantaneous hot water from 2 to 600 gallons per minute
- Temperature rise to 250°F
- Heavy duty 316 stainless
- Patented self-cleaning design
- Exceptional turn-down ratio
- Internal modulation for quiet, hammer-free operation
- Save space and maintenance time

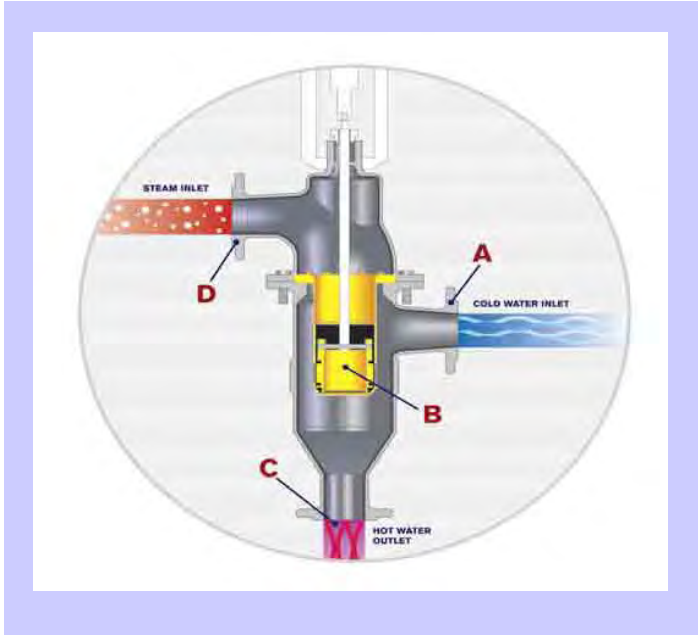
## General Industry Segments

- Beverage
- Cement
- Chemical
- Dairy
- Ethanol
- Energy
- Food
- Heavy Metals
- Laundry
- Meat
- Mining
- Pulp & Paper

**hydro**  
**THERMAL**  
WE BRING THE HEAT.

# EZ Heater

## How the EZ Heater Works



Water enters at the inlet (A), flows past the diffuser (B) and is discharged at the outlet (C).

Steam enters at the inlet (D) and travels down through the diffuser (B) where it is injected into the water.

Steam is injected into the water through small holes within the diffuser (B). To control the amount of steam injected or heating required, an actuator moves the stem plug to expose the necessary amount of holes on the diffuser. Each exposed hole discharges steam at very high, often sonic, velocity. The turbulent nature of this high velocity discharge enables steam to instantaneously penetrate, disperse and efficiently produce uniform heating.

The temperature of the outlet water is measured down-steam and the steam flow is modulated accordingly to achieve a target temperature.

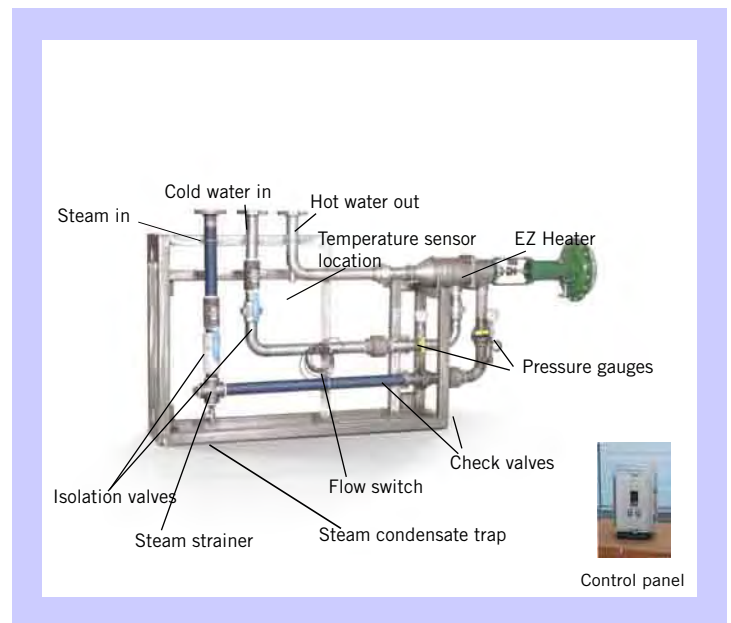
## About Hydro-Thermal Corporation

The leader in DSI for over 75 years, Hydro-Thermal has a strong legacy in process and utility heating applications with Hydroheater® units in plants worldwide. Let Hydro-Thermal apply this expertise to your water heating requirements.

## EZ Skid

From simple base assemblies to integrated programmable logic controlled (PLC), and digital control systems, the EZ Skid™ includes everything needed in one compact package. Simply plumb in water, air and steam. These standard, pre-engineered skids help with every hot water application from cooking and pasteurization to sanitary washdown.

This turnkey skid quickly provides unlimited hot water to exacting temperatures when and where it is needed.



### 100% Performance Warranty

If, at any time and for any reason, a Hydroheater should fail to perform as designed,\* and Hydro-Thermal is given adequate opportunity to provide a remedy, Hydro-Thermal will, after receipt of the unsatisfactory unit, reimburse 100 percent of the original purchase price.

\*Proper replacement of wear parts required



WE BRING THE HEAT.

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