

# APPLICATION BRIEF



## Central Hot Water in Recirculation Line

### Objective

To replace their large shell and tube heat exchanger that supplied hot water to a tank and then pump it out to a large recirculation system.

### End User

A major meat processing plant in Illinois, USA

### Design Conditions

Flow Rates	500-600 gpm (1.9 2.3 m <sup>3</sup> /m)
Inlet Temperature	70 110°F (21.1 43.3°C)
Outlet Temperature	140°F (60°C)
Steam Pressure	115 psig (7.9 bar)

### Process Challenges

Scaling with the heat exchanger was a major issue as well as the amount of energy it took to run. However, they needed to assure enough hot water for their requirements.

### Solution

A four inch EZ Heater® three-way valve was installed which now supplies hot water on demand for their post kill-floor processing products including chili and processed meat. This system supplies hot water instantaneously for hose stations, spray bars, spray balls in tanks and general wash-down needs.

### Results

The EZ Heater® never clogs or fouls and only requires a once-a-year maintenance schedule. The company now saves energy and maintenance time. Their uptime has greatly increased and as a result, so has their production.

EZ 334 V1 REV A