

This product is represented in Australia, New Zealand, and PNG by:

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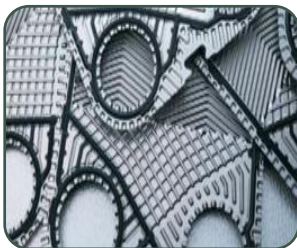
Heat Transfer Equipment

- Shell & Tube Heat Exchangers - Standard, Custom, Corrugated Tubes.
- Plate Heat Exchangers - Brazed, Gasketed, Semi-Welded, & Welded.
- Graphite Heat Exchangers.
- Plate & Shell Heat Exchangers.
- Spiral Heat Exchangers.
- Crossflow Welded Heat Exchangers.
- Direct Steam Injection Heaters.
- Air Coolers.



Corrosion Resistant Equipment - Valves, Piping, Vessels & Systems

- Polymer-Lined Valves, Piping, and Pressure Vessels.
- Exotic Metal (Ta, Zr, Ti) Fabricated Piping and Pressure Vessels.
- Glass-Lined Vessels.
- Graphite Equipment and System Packages.



Service Maintenance

- Plate Heat Exchangers - Refurbishment, Gas Testing, UV Crack Testing.
- Graphite Equipment - Installation, Refurbishment, Repairs.
- Glass-Lined Vessels - Spark Testing, Lining Repair.
- Quality Spare Parts, both OEM and Aftermarket.



Process Heating Solutions Worldwide

Food Processing Industry Case History



Hose Stations for Sanitation

Application

A large meat packing plant repeatedly ran out of hot water. A 6,000 gallon storage tank served by a gas-fired water heater simply could not meet the peak hot water demand for all 32 hose stations simultaneously.

Plant engineers had two options available to solve the problem: install an even larger storage tank and hot water heater, or find an alternative method of supplying hot water. They chose a Pick Variable Flow Heater.

Process Conditions

Water Flow Rate:	5-160 GPM
Steam Flow Required	6,192 lbs/hr
Inlet Temperature:	50°F
Discharge Temperature:	140°F
Steam Pressure:	100 PSIG
Liquid Pressure:	60-90 PSIG

Solution

Pick Variable Flow Heater Model 6X75. The Pick system delivers an unlimited supply of hot water at the precise temperature regardless of the number of stations in use at any one time. It eliminates the need for a storage tank and delivers hot water instantly. System includes a water pressure regulating valve to stabilize supply water pressure, and it is so compact it can be mounted on a wall saving valuable floor space.

Features and Benefits:

- Safe- No Operator Adjustments at Use Point
- Instantaneous Response to Various Hot Water Demands
- Precise Temperature Control
- No Extra Storage Necessary
- Saves Energy Over Indirect Steam Heating Methods

Learn more at www.pickheaters.com

Pick Heaters, Inc. — 730 S. Indiana Ave. — West Bend, WI 53095 USA
Phone: (262) 338-1191 — Email: info1@pickheaters.com



Process Heating Solutions Worldwide

Food Processing Industry Case History



Central Hot Water System for Plant Hose Station Service

Application

Large cheese processor wanted a central hot water system capable of supplying all the hose stations located on three floors of his plant. The system had to handle a wide range of demand, responding to both periodic use as well as third-shift clean up. Accurate temperature control was critical for effective and safe plant wash down. The heater had to be located in an isolated area eliminating the opportunity for unauthorized tampering with temperature set point.

Process Conditions

Water Flow Rate:	15-460 GPM
Hose Stations:	1-30
Inlet Temperature:	50°F
Discharge Temperature:	135°F
Water Pressure:	60 PSIG
Steam Pressure:	140 PSIG
Steam Flow Required:	550-16,810 lbs./hr

Solution

Pick Model 6X200 Variable Flow Heater, including dual steam control valves for superior turndown capability. System was frame mounted on 304SS frame providing easy installation within a limited floor space. All steam piping leading to individual hose station drops were eliminated.

Features and Benefits:

- Safe - No Operator Adjustment at Use Points
- Instantaneous Hot Water Demand
- Accurate Temperature Control
- Unmatched Turndown Capability
- Steam Piping to Each Hose Station Eliminated

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Food Processing Industry Case History



Hose Station Service Pick Replaces Shell-and-Tube Heat Exchanger

Application

Midwestern meat processing plant struggled to maintain hot water supply for hose station service using a shell-and-tube heat exchanger. The customer experienced poor response to heat load changes and poor temperature control as water demand fluctuated throughout the day. Cumbersome periodic maintenance was time consuming. The customer faced inherent heat exchanger problems unless a change could be justified by a payback in energy savings.

Process Conditions

Water Flow Rate:	25-60 GPM
Temperature Rise:	85°F
Steam Pressure:	100 PSIG
Water Pressure:	70 PSIG
Steam Flow Required:	915-2,200 lbs/hr

Solution

Pick Model 6X25 Variable Flow Heater. The customer received approval to purchase the Pick system based on a computer generated energy comparison showing a 14.5% energy savings in steam consumption. A pay back of 18 months was estimated based on fuel cost. The Pick Heater solved operational problems by providing accurate temperature control, an immediate response to heat load changes, and an ample supply of hot water on demand.

Features and Benefits:

- Instantaneous Response to Hot Water Demand
- Precise Temperature Control
- Efficient Use of Steam Energy
- Unmatched Turndown Capability

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