

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

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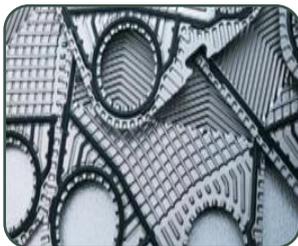
Heat Transfer Equipment

- 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.



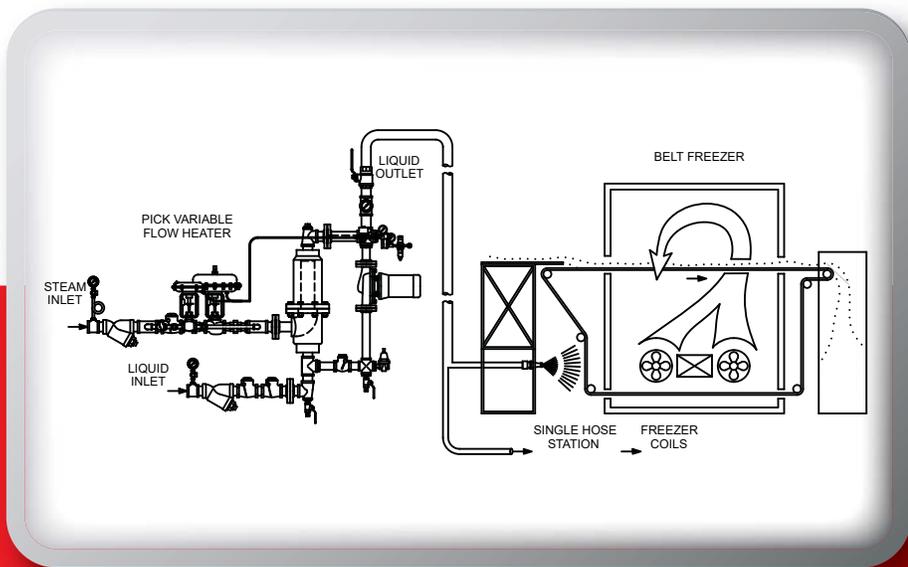
Service Maintenance

- 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



Defrost Belt Freezers

Application

Frozen vegetable processor required a method to remove ice build-up on multiple belt freezers. The product was continuously fed on a conveyor belt through a freezer system to keep up with production demands. Ice build up on the belts must be melted at timed intervals. Hot water was distributed onto the belts via a series of spray heads. Water demand varies based on sequencing of washing cycles and number of systems in operation. Additional hot water is used to defrost refrigeration coils and supply a nearby single hose station for plant wash down in freezer area.

Process Conditions

Water Flow Rate:	30-250 GPM
Temperature Rise:	15°F
Final Temperature:	85°F
Steam Supply Pressure:	110 PSIG
Water Supply Pressure:	40 PSI
Steam Flow Required:	200-1600 lb/hr

Solution

Pick 6X50 Variable Flow Heater designed with 4" water piping suitable for 250 GPM water flow rate. Dual steam valves are included to handle a wide range of steam flow demand. The Variable Flow Heater provides smooth performance in responding to intermittent operation and changes in water flow rates.

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

Features and Benefits:

- Instantaneous Supply of Hot Water
- Compact Design
- Turndown Capabilities
- Single Source of Hot Water for Multiple Use Points



Process Heating Solutions Worldwide

Food Processing Industry Case History



Bakery Pan Cleaning

Application

A bakery looked to speed up their pan cleaning tank operation. They wanted to fill a 100-gallon tank of water, used for pan cleaning, at 190°F using city water at 50°F.

Process Conditions

Water Flow Rate: 10 GPM
Steam Pressure: 80 PSIG
Liquid Pressure: 60 PSIG
Expected heat steam load is based on
 $10\text{GPM} \times 140^\circ\text{F rise} \times 0.43 = 602 \text{ lb/hr}$

Solution

Pick Model 6X7-3 Constant Flow Heater with a nominal 700 lb/hr steam capacity and standard non-indicating pneumatic temperature controller.

Similar applications for this market include:

- Constant Flow Heater with boost pump for pan cleaning. Boosts pressure to pan cleaning line from normal 60 PSIG to 1,500 PSIG. The use of higher water temperature along with higher water pressure should effectively and quickly clean their pans.
- Jacketed heating of sugar glazes in a kettle with a hot water set. The hot water set can also provide hot water to a spray ball cleaning that same kettle in the evening.

Features and Benefits:

- **Compact Size**
- **On Demand Hot Water at a Uniform Temperature**
- **Exceptional Cost Savings**

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Food Processing Industry Case History



High-Pressure Hot Water System

Application

Poultry processing plant required a high-pressure hot water supply for their night time clean up. The heating system was to take preheated water supply up to 155°F, then boost the pressure to 275 PSIG for distribution to multiple hose stations throughout the facility. Accurate temperature control at a constant supply pressure was required regardless of water flow rate.

Process Conditions

Water Flow Rate	7 - 250 GPM
Number of Hose Stations	1 -15
Inlet Water Temperature	120°F
Discharge Temperature	155°F
Water Supply Pressure	50 - 60 PSIG
Boost Water Pressure	275 PSIG
Steam Supply Pressure	100 PSIG
Steam Flow Required	135 - 3765 lb/hr

Solution

Pick Model 6X50-3 Hot Water Set including dual steam control valves to effectively handle the wide range of turndown required. A 50HP multi-stage centrifugal boost pump was installed after the heater discharge so that water pressure did not exceed steam supply pressure at the heater. Temperature was controlled with a simple pneumatic thermostatic controller installed immediately at the heater discharge. The temperature control loop was interlocked with the pump to operate only when system was under demand. An electronic process controller monitored discharge pump pressure through a downstream pressure transmitter. A 4-20mA output to the pump VFD ramped pump speed to control and maintain the desired output pressure. The process controller and pump starter were housed in a stainless steel panel including E-stop and On/Off control.

This is the third identical system installed at this facility in the past few years.

Features and Benefits:

- Complete System Capability
- Instantaneous Hot Water Upon Demand
- Precisely Controlled Water Supply Pressure

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