

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

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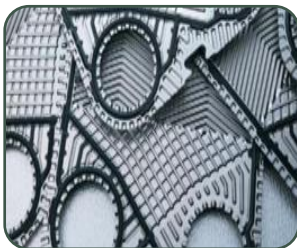
Heat Transfer Equipment

- 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

General Industrial Case History



Tank Car Cleaning

Application

Customer was looking for a reliable method of providing hot water for washing residual sodium bisulfate from tank cars. Wash water had to be maintained at adequate flow rate and pressure for operation of rotary nozzles at the use point. It was critical that water was delivered at the required temperature to maintain 180°F for 15 minutes at the tank car drain. The heating system needed to be able to respond to seasonal changes of inlet water temperature.

Process Conditions

Flow Rate:	70-75 GPM
Temperature Rise:	125-155°F
Discharge Temperature:	195°F
Steam Pressure:	90 PSIG
Water Pressure:	60 PSIG

Solution

A **Pick 6X50-3** with 316 SS wetted parts, on a floor mount frame for easy customer installation. An electronic temperature control package with PLC remote set point and process retransmission capability was included. The Pick Heater design imposed a low water-side pressure drop, assuring adequate pressure at spray nozzle and less work required by process pump.

Features and Benefits:

- Low Water-Side Pressure Drop – 1 PSI
- Instantaneous Response
- Accurate Temperature Control
- Compact Installation

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

General Industrial Case History



Tank Car Cleaning System

Application

National provider of railcar service and repair came to Pick Heaters, Inc. to design a tank car cleaning system. This system was to provide 130 GPM of 150°F water at 150 PSIG to two high pressure Gamajets® for cleaning and neutralization of tank cars. A method for blending caustic and/or detergent with the hot water supply was necessary dependant on the type of cleaning required.

Pick offered a complete skid mounted package with heater, temperature controller, divert valves, chemical feed pumps and high pressure pump. A remote located PLC was included for programming cycle times. All electrical components were NEMA 7 classification. Plant boiler capacity limitations also needed to be considered.

Solution

A **Pick Model 6X50-3 Packaged Heating System**. Due to low plant boiler capacity, heating is done in two stages. During cold start-up, water is heated and recirculated back to a customer supplied tank until the temperature reaches 80°F. At this point, the system transitions to forward flow to the cleaning stations with water temperature raised to 150°F. A PLC located on a separate platform allows the operator to program up to a 20 minute cleaning cycle. Two chemical feed pumps can be programmed into the cycle as required. Level switches located in the tank are interlocked with the PLC to prevent depletion of the tank.

Features and Benefits:

- Fully Automatic Operation
- Single Source Supply of Complete System
- Ability to Respond to Customer's Unique Requirements
- Technical Support and Expertise

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