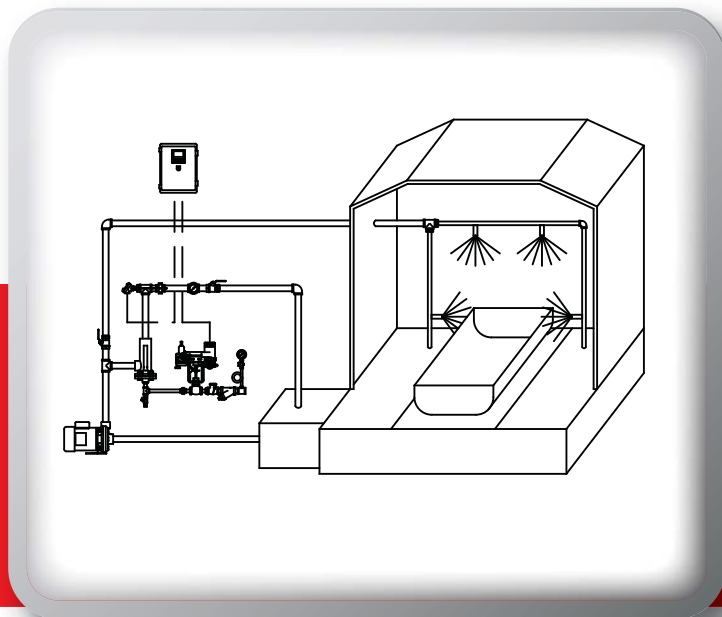




Process Heating Solutions Worldwide

General Industrial Case History



Parts Washer

Application

An automotive manufacturer was using a plate heat exchanger for a final phase spray wash to remove honey oil from transmission parts. The plate exchanger was used to superheat a slip stream of water to 224°F, discharging to the washer reservoir, arriving at a blended temperature below 200°F. The elevated temperature caused the residual oil to gum up the plate exchanger which required frequent cleaning.

Process Conditions

Maximum Water Flow Rate:	50 GPM
Inlet Temperature:	135°F
Discharge Temperature:	160°F
Steam Supply Pressure:	75 PSIG
Water Supply Pressure:	50 PSIG
Steam Flow Required :	590 lbs./hr.

Solution

Pick Model 6X7-3 Constant Flow Heater. After the Pick Heater was installed it was determined that the process could be operated at a much lower temperature. Direct Steam Injection and the Pick “flow-through” design eliminated the gumming problem.

The Pick Heater consumes about 10% less steam than the plate exchanger, saving the customer fuel and steam. The heater also features an electronic steam valve actuator and temperature controller because no compressed air was available in that area of the plant.

Features and Benefits:

- Compact Design
- Energy Efficient
- No Plates to Foul/Plug
- Fully Automatic
- Accurate Temperature Control

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