

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

InKorr Pty Ltd

Address: Unit 12, 103 Lewis Road,

Knoxfield VIC 3180, Australia

Email: inkorr.service@inkorr.com.au

+61 (3) 8201 4868 General: Service: +61 (0) 478 800 003

Contact us with any enquiries related to:



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.



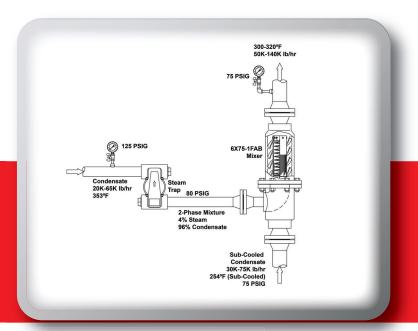
Service Maintenance

- 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



Condensate Mixing

Application

A west coast refinery was working on a project to eliminate hammer on condensate return lines off of three sour water strippers. The problem occurred as subcooled condensate collected off of two strippers mixed with flash condensate off the trap of a third stripper using a shell-and-tube kettle reboiler. As the flash steam condensed in the cooler stream, a large volume collapse occured causing instability and hammer throughout the condensate return piping system. A method was required to smoothly mix the subcooled condensate stream (254°F/75 PSIG) with a two-phase, flash condensate flow (335°F/80 PSIG) coming off the trap of the shell-and-tube.

Solution

Pick Heaters Inc. custom designed a heater/mixer to fit within the existing piping scheme of the return header, allowing for horizontal installation. The natural benefits of the Pick Heater and it's unique injection tube design provided an effective way of blending condensate streams smoothly. The Pick injection tube provided refinements over crude inline spargers: 1) finer breakup of two-phase condensate flow 2) angled directional injection promoting mixing in helical chamber, and 3) modulating piston to compensate for load changes. The result was a simple but successful solution.

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:

- Complete Mixing of CondensateStreams
- Eliminates Hammer

