

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

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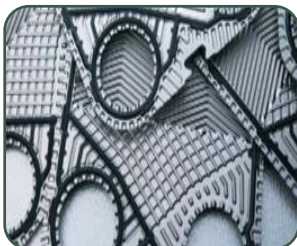
Heat Transfer Equipment

- 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

Chemical & Pharmaceutical Processing Industry Case History



Closed Loop Jacketed Blender

Application

Chemical company uses hot water, rather than steam, to heat their 10,000 pound capacity jacketed blender. The system must mix powders and small quantities of liquids, then dry the mixture in a very short time.

Product example: 7,000 pound batch is vacuum dried to 2,000 pounds in less than 12 hours.

There is no flexibility in the quality of the product produced, it must be precise to specification and consistent. Product is very heat sensitive so tight temperature control is required. Steam poses a problem with overheating and product burn-on.

Solution

Pre-Packaged Heating/Cooling System manufactured by Pick Heaters is used in conjunction with an electronic cascade recording temperature controller to achieve consistent, quality product. The Pick System features 316 stainless steel piping, circulation pump, Pick DSI Heater, automatic steam and water cooling valves, all pre-piped, skid mounted, and coupled to the blender.

Features and Benefits:

- Uniformity of Jacket Temperature
- Product Consistency and Quality
- Predictable Results
- Eliminates Awkward Transition Between Heating & Cooling Operations

Learn more at www.pickheaters.com

Pick Heaters, Inc. — 730 S. Indiana Ave. — West Bend, WI 53095 USA
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Chemical & Pharmaceutical Processing Industry Case History



Packaged Heat and Cool System

Application

A major pharmaceutical company needed to heat product in a 300 gallon jacketed dryer through a closed loop hot water process. The product temperature was to be gradually brought to 80°C using 90°C jacket water. A cooling mode followed after the drying stage had concluded. Material requirements for both process piping and skid frame were to be stainless steel to satisfy area requirements.

Process Conditions

Temperature Rise Per Pass:	4-44°C
Liquid Supply Pressure:	40 PSIG
Steam Supply Pressure:	80 PSIG
Water Flow Rate:	8 GPM

Solution

Pick Model 6X7 HCS Packaged System

The Pick Heater accurately maintained jacket temperature at 90°C through a cascade temperature control loop. The steam valve is driven closed after the drying run, and cooling water is introduced to the system as a cooling control valve opens which also allows discharge of jacket water. A chilling plate exchanger was included to reduce hot water temperature discharged to drain.

Complete system supply and capability interfaced with customer temperature control loop provided an ideal solution for customer requirements.

Features and Benefits:

- **Interface with Plant Controls**
- **Complete Package Supply**
- **Compact and Custom Design**
- **Precise Temperature Control**

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