

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

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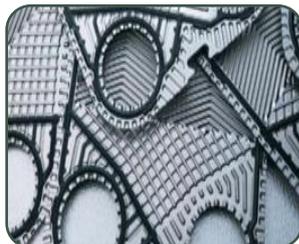
Heat Transfer Equipment

- 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.

LIQUID HEATING SOLUTIONS WORLDWIDE

MEET OUR FAMILY OF PRODUCTS



pitck[®]
heaters inc.

DIRECT STEAM INJECTION SYSTEMS

DIRECT STEAM INJECTION

About Pick

With a continuous flow of refinement and innovations, Pick Heaters has developed other products to provide solutions to customers for their application needs. Pick was the first Direct Steam Injection company to introduce a 3A certified **Sanitary (SC) Heater** in 1984 and was also the first DSI company to offer a pilot scale version especially for R&D. Pick developed custom **Fabricated (FAB) Heaters** which allow for flow rates and pressures outside the norm. **Pick Custom Design (PCD)** a division of Pick Heaters was formed to combine Pick's experience in heat transfer and packaging to meet all process heating needs - direct or indirect heat transfer systems. The **Pick Desuperheater DS Series** was launched in 2009 to offer customers a simple, cost effective method of cooling steam to within 10°F of saturation.

Since 1945 Pick Heaters has been the leader in Direct Steam Injection. **Pick Direct Steam Injection (DSI) Systems** heat any water-miscible liquid or aqueous slurry instantly on a continuous straight-through basis. Plus, they hold the outflow temperature to extremely close tolerances, regardless of fluctuations in steam and water pressure and process flow rate.

The Pick System injects steam into the liquid through hundreds of small orifices for instant and uniform blending. The Pick Heater is designed for low velocity mixing with little or no pressure drop. All steam is condensed within the heater body, with no downstream straight-run piping requirements.

Pick Heaters can cut fuel costs as much as 28 percent compared to indirect shell-and-tube or plate heat exchangers with 100 percent of the heat energy in the steam absorbed by the liquid.

Pick Constant Flow Heater

The Pick Constant Flow Heater is used wherever a constant flow of heated liquid at precisely controlled temperatures is required. It is ideal when the water flow rate is fixed or varies over a narrow span (3:1), or where variations in flow are gradual, and on/off cycling does not occur. The Pick Constant Flow Heater is delivered as a complete, compact system and can be easily customized to meet your plant specifications.



Pick Variable Flow Heater

The Pick Variable Flow Heater is designed to deliver hot water at a precisely controlled temperature over a wide range of water flows. It is used to accommodate wide variations in demand and frequent start-stop applications, and is ideally suited as a central heating system for multiple use points such as wash down stations or plant sanitation.



Some optional equipment shown.

PROCESS HEATING SOLUTIONS

Pick SC Sanitary Heater

Pick Sanitary Direct Steam Injection systems can be used to heat/cook any water miscible liquid or slurry instantly on a continuous straight through basis. It can also handle slurries containing bite-size pieces such as salsas or stews.

The Pick Sanitary Heater is the only DSI system that achieves set point temperature on demand with a non-shearing action. The unique, low velocity, multiple orifice steam injector and helical flights ensure intimate blending of steam and product without high turbulence, unlike venturi systems.



Some optional equipment shown.

Pick BX Starch Cooking Heater

A Pick BX Heater provides instantaneous and complete cooking of starch and other miscible slurries. It is proven effective on pearl, modified, and cationic starches with solids concentrations up to 35% and cooking temperatures ranging from 90°C - 150°C.

The unique design of the Pick BX Heater offers key advantages over other high-velocity venturi devices such as low pressure drop, low noise level, non-shearing, and low velocity mixing.



Pick FAB Heater

The Pick Fabricated Heater design offers the same features and benefits of our standard models, regardless of size and flow rates. These unique, customized heaters can accommodate flow rates well beyond the norm – up to 25,000 gallons per minute. They also have the ability to conform to existing piping – from 2 inches to 32 inches in diameter and beyond. High-pressure applications, e.g. 900 psi, requiring Ansi Class 1500 flanges are no problem.



Pick DSI Packaged Systems

Pick Packaged Hot Water Sets are custom designed to meet process industry needs effectively and efficiently. From a pilot project to large-scale production, Pick components are integrated to meet the requirements for heating jacketed reactors and kettles, liquid-to-liquid exchangers, rotary vacuum dryers and blenders, plate heat exchangers, pasteurizers, CIP systems and other heat transfer applications.



PICK PRODUCT EXTENSIONS

Pick Custom Design (PCD) Systems

PCD systems incorporate various methods of heat transfer, including ancillary components for a complete skid or frame package, ready for customer final installation and start-up. This eliminates the chore for customers to piece-meal required piping, valves, traps and instrumentation with the added install costs. The customer depends on Pick to stand behind the complete scope of supply.

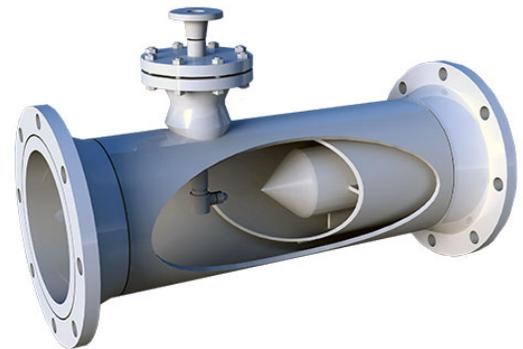
Customers can rely on over 70 years of Pick's packaged system design experience and know-how. Each system is "custom designed" to satisfy specific customer requirements, supplied in a compact skid or module.



Pick Desuperheater

The Pick Desuperheater is a water spray type with single nozzle. The nozzle is positioned at the center of the desuperheater. Water is sprayed axially, in the direction of steam flow. Conical insert with thermal sleeve increases velocity to promote rapid absorption of water, while isolating the housing from thermal stress.

This design provides a simple, cost effective method of cooling steam to within 10°C of saturation temperature. Spray type desuperheaters are appropriate for applications having relatively stable steam and cooling water throughput (up to 3:1 turndown).



A Global Presence

Pick is there when you need us, with factory trained representatives throughout North and South America as well as in Europe and the Far East. That means you get technically competent consultation on your needs, plus accessible service after the sale...no matter where you call home.

Contact us to request an application data sheet or to discuss your application

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