



Process Heating Solutions Worldwide

## Steam Injection Liquid Heating System

# We're Heating Up... The Chemical Processing Industry

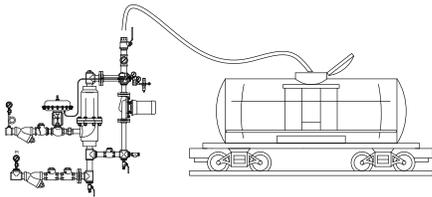
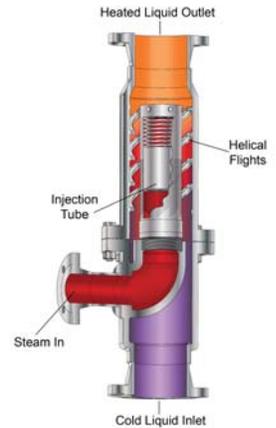


### Heating Reactor Vessels

Hot water offers many important advantages over steam for jacketed heating. Jacket water temperature is precisely controlled, allowing water to surround the jacket at an even temperature, eliminating hot spots and the potential for product burn on. Hot water versus steam also permits a smooth transition from heating to cooling, eliminating hammer and vibration and the potential for shock and damage to glass lined reactors.

### Clean-In-Place/Sanitation

Pick Heaters provide accurate, automatic temperature control ensuring optimum effectiveness of the caustic or chemical solutions. 100% heat transfer also saves energy over indirect or sparging systems. Let Pick design a fully automated CIP System to meet your cleaning needs.

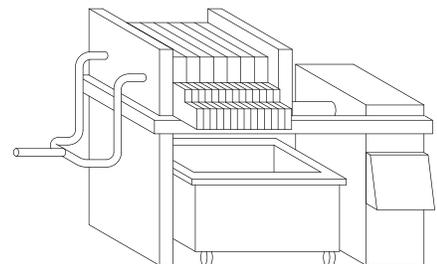


### Rail Car Washing

Pick's accurate temperature control and unlimited supply of hot water on demand makes tank car washing fast and easy. Ease of operation and maintenance and proven energy savings make Pick the perfect choice. Contact Pick for a fully automated Rail Car Washing System.

### Filter Washing

Back-flushing filters and rinsing centrifuges at uncontrolled temperatures, typical with indirect heat exchangers, can waste water and energy and damage filter plates and frames. Pick's precise temperature control provides the ideal solution for effective filter cleaning without danger of damage.

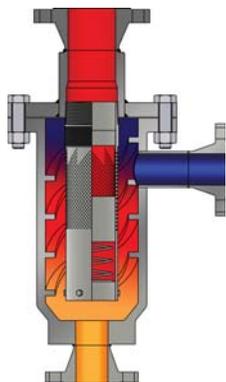


Learn more at [www.pickheaters.com](http://www.pickheaters.com)

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## Direct Product Heating

The Pick system heats slurries on a continuous straight-through basis. Steam is injected directly into the product, bringing it to the desired temperature almost instantaneously as it passes through the heating chamber.

## Jacketed Tank Car Heating

Heating tank car jackets with live steam can cause overheating which may result in damage to temperature-sensitive products. Hot water from a Pick System can be maintained at a precise, safe temperature. With a Pick Packaged System, water is re-circulated back through the heater requiring minimum energy to replace the BTU's used to heat the product.

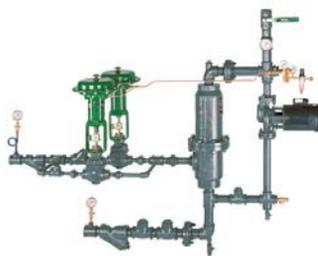


## Gas to Liquid Dispersion

The Pick design effectively disperses gas or vapor into a liquid; for example ammonia gas into a liquid. It is also ideal for mixing two condensate streams. Pick provides smooth and even dispersion and operates with a minimum of noise and maintenance. See how Pick can solve your condensate mixing requirements.

## Bio-Waste Treatment

Pick provides accurate temperature control and ease of maintenance for continuous flow of bio-waste treatment. The Pick Heater can maintain and hold a pre-set temperature to effectively "kill" and neutralize living cells.



## Reverse Osmosis

In comparison to indirect methods of heating, the Pick Heater is the most cost effective and simplest design. Maximize RO system efficiency with precise, reliable temperature control.

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