



Process Heating Solutions Worldwide

We're Heating Up...  
The Power Industry

## Steam Injection Liquid Heating System



### Boiler Feed Water

Pick Heaters are used to heat boiler make up water upstream of the deaerator. Steam injection simplifies the piping system and reduces installed cost by elimination of the trap and condensate piping. Condensed steam is fully captured in the feed water and returned to the boiler.

### Reverse Osmosis

Pick Heaters are proven as a dependable source of tempered water to increase water flux and overall efficiency of R.O. systems. Although a simple, straightforward application, precise temperature control is critical to protect the membrane from damage due to extreme temperature. Pick can provide a system with full instrumentation or interface with your existing control system.



### Flue Gas Desulphurization

Many factors impact the operating efficiency of a flue gas desulphurization system. One of these is lime slurry make up water temperature. Preheating the water can improve slaking efficiency, thus reducing lime consumption. In some instances, water heating is only required during the winter. In others, it has proven beneficial year round. Pick Heaters are in service on both types of services.



### Regeneration of Resin Beds

A Pick Heater provides an uninterrupted supply of heated water for regeneration of anion filter beds in the water treatment plant. Optimum efficiency is achieved with a water temperature at or near 120°F. Caustic is metered into the water stream to create a 4% solution. In addition to the water heater, Pick can provide the caustic metering system and associated valves/instrumentation - fully assembled on a common skid.



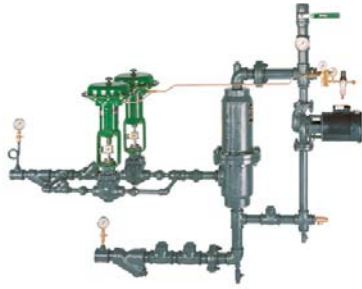
Learn more at [www.pickheaters.com](http://www.pickheaters.com)

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## Washdown/Hose Stations



The Pick Variable Flow Direct Steam Injection Heater is the answer for washdown/hose station heating. Its unique design provides hot water at a precise, safely controlled temperature over a wide operating range. Only Pick can accommodate wide variations in water flows and frequent start-stop applications such as hose stations and still deliver accurately controlled hot water on demand. It is ideal for a central heating system for all your plant sanitation and clean up needs, a perfect replacement for individual mixing tees or indirect heat exchangers.

## Desuperheating Steam

The water spray design of the Pick Heaters "Series DS" Desuperheater offers a simple, cost effective method of cooling steam to within 10°F of saturation.



## Various Applications for Hot Water in Power Plants

- Batch Tank Fill
- Pre-Heat Boiler Feed Water to DA
- Caustic Heating
- HRSG Condenser (Boiler Tube) Pre-heating
- Condensate Heating
- Mud Filter Washing/Back Flushing
- Clarifier Water
- Zebra Mussel Control
- Fly Ash Wetting

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