

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

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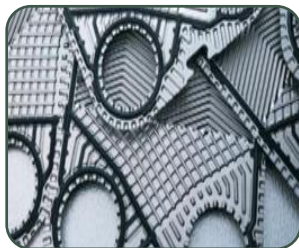
Heat Transfer Equipment

- 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.



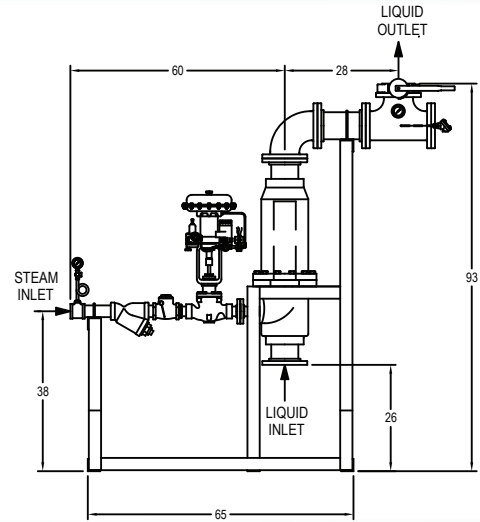
Service Maintenance

- 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

General Industrial Case History



Reverse Osmosis System Supply Water Heating

Application

Regional power plant installed two new reverse osmosis (R/O) systems to reduce the amount of conventional chemical treatment for boiler feed water. The purpose of the R/O system was to demineralize and remove impurities in a filtered water supply via a series or bank of semi-permeable membranes. Water at cold temperatures reduces the efficiency of the R/O system, lessening the ability of water to pass through the membranes. A preheat system was specified to hold incoming water at 76°F as inlet temperature dropped during the winter months.

Process Conditions

Water Flow Rate per R/O System:	410 GPM
Maximum Water Flow Rate:	820 GPM
Inlet Temperature:	51°F
Discharge Temperature:	76°F
Steam Supply Pressure:	150 PSIG
Water Supply Pressure:	75 PSIG
Steam Flow Required:	4,410-8,820 lbs./hr.

Solution

Pick Model 6X150-3/15 Constant Flow Heater- The constant flow design, in cast iron construction, was selected to handle the turndown requirement of the two systems. In comparison to indirect methods of heating, the Pick Heater is the most cost effective and simplest design. The inherent advantages of the Pick Heater came through in a successful startup. It has been in service since the winter of 1998.

Features and Benefits:

- Instant Supply of Tempered Water
- Improved R/O System Efficiency
- Accurate Temperature Control
- Simple Operation
- Compact Design

Learn more at www.pickheaters.com

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