

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

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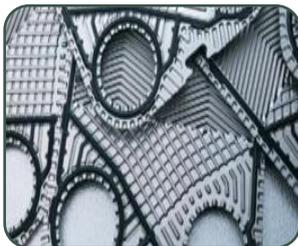
Heat Transfer Equipment

- 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.



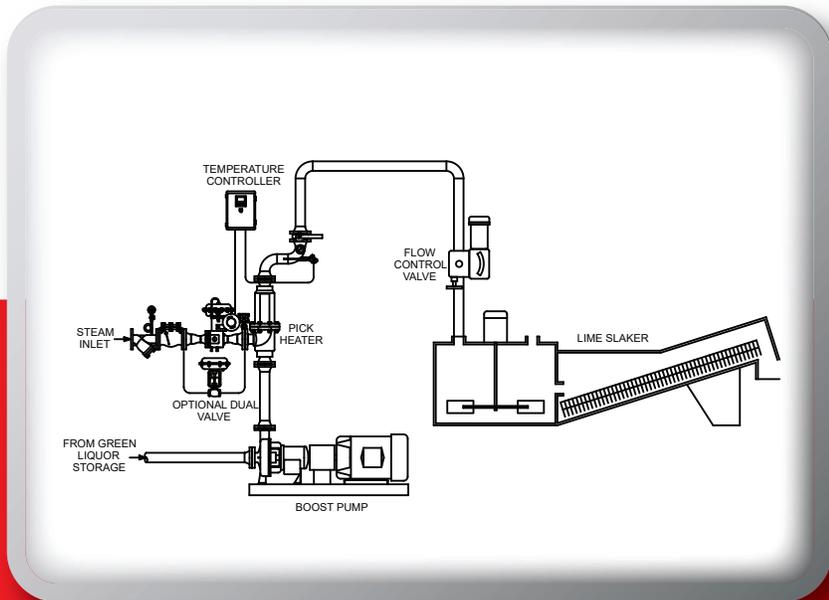
Service Maintenance

- 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

Pulp & Paper Industry Case History



Green Liquor Heating

Application

In the chemical pulping process, cooking liquor (spent liquor) that is separated from the washed stock goes through an evaporation process to form black liquor. The black liquor becomes fuel for the recover boiler. The resulting furnace smelt is dissolved to form green liquor. After a clarification process (removal of insoluble material,) the green liquor is fed into a lime slaker where it mixes and reacts with lime. White liquor is produced, which in turn is used in the pulp cooking process. The reaction in the slaker takes place at temperatures around 185- 195°F. Overheating of green liquor does not improve causticizing reaction efficiency and presents the risk of boil over.

Process Conditions

Flow Rate:	503-647 GPM
Temperature Rise:	20°F
Discharge Temperature:	185°F
Steam Pressure:	150 PSIG
Green Liquor Pressure:	35 PSIG
Required Steam Flow:	4,323-5,564 lbs/hr

Solution

The **Pick Model 6X75-3 Heater** was selected for added capacity. The Pick Heater can automatically adapt to changes of incoming liquor temperature. The heater was provided in 316L grade stainless steel to better handle caustic green liquor. The mill DCS controlled the discharge temperature of the heater.

Features and Benefits:

- Smooth, Quiet Performance
- Precise Temperature Control

Learn more at

www.pickheaters.com

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