

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

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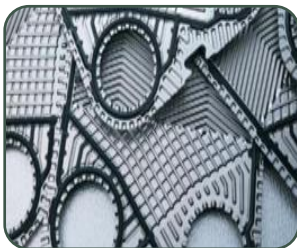
Heat Transfer Equipment

- 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.



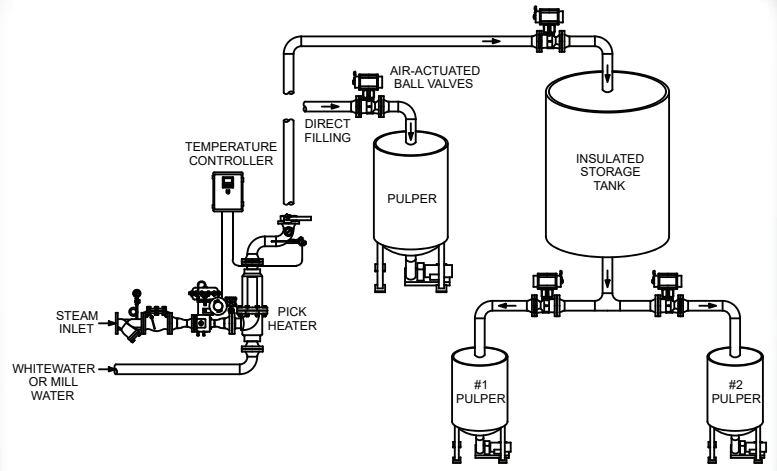
Service Maintenance

- 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



Hydrapulper Filling and De-Inking

Application

For recycled fiber, waste paper or secondary fiber is “re-pulped” in hydrapulpers to de-fiber into a 5-7% stock slurry. High temperature water added to the pulper serves to facilitate this mechanical de-fibering by increasing fluidity of the stock. Higher stock temperatures are also advantageous during the de-inking process, enhancing the efficiency of detergents and foaming agents used in this process.

Filling a hydrapulper with preheated water has important advantages over the commonly used steam sparging method. Hot water can be provided instantaneously at the demands of the process, bringing the system up quickly and reducing production time. Damage to the pulper caused by hammer during steam sparging is eliminated.

Process Conditions

White Water Flow Rate:	200-300 GPM
Temperature Rise:	80°F
Discharge Temperature:	180°F
Steam Flow:	6,880-10,320 lbs./hr.

Solution

Pick Model 6X100-3 Constant Flow Heater. The cyclic nature of this service makes the use of an instantaneous heater an obvious choice. The Pick Heater responds immediately as water is drawn into the pulper to bring discharge temperature up to setpoint within seconds. Start-up and shut down occur smoothly with no harmful noise and/or vibration.

Features and Benefits:

- Smooth, Quiet Operation
- Instantaneous Supply of Hot Water
- Low Liquid Pressure Drop

Learn more at
www.pickheaters.com

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