

# Where Do You Need a Hydroheater in the Pulp & Paper Process?

## On-Demand De-Icing -

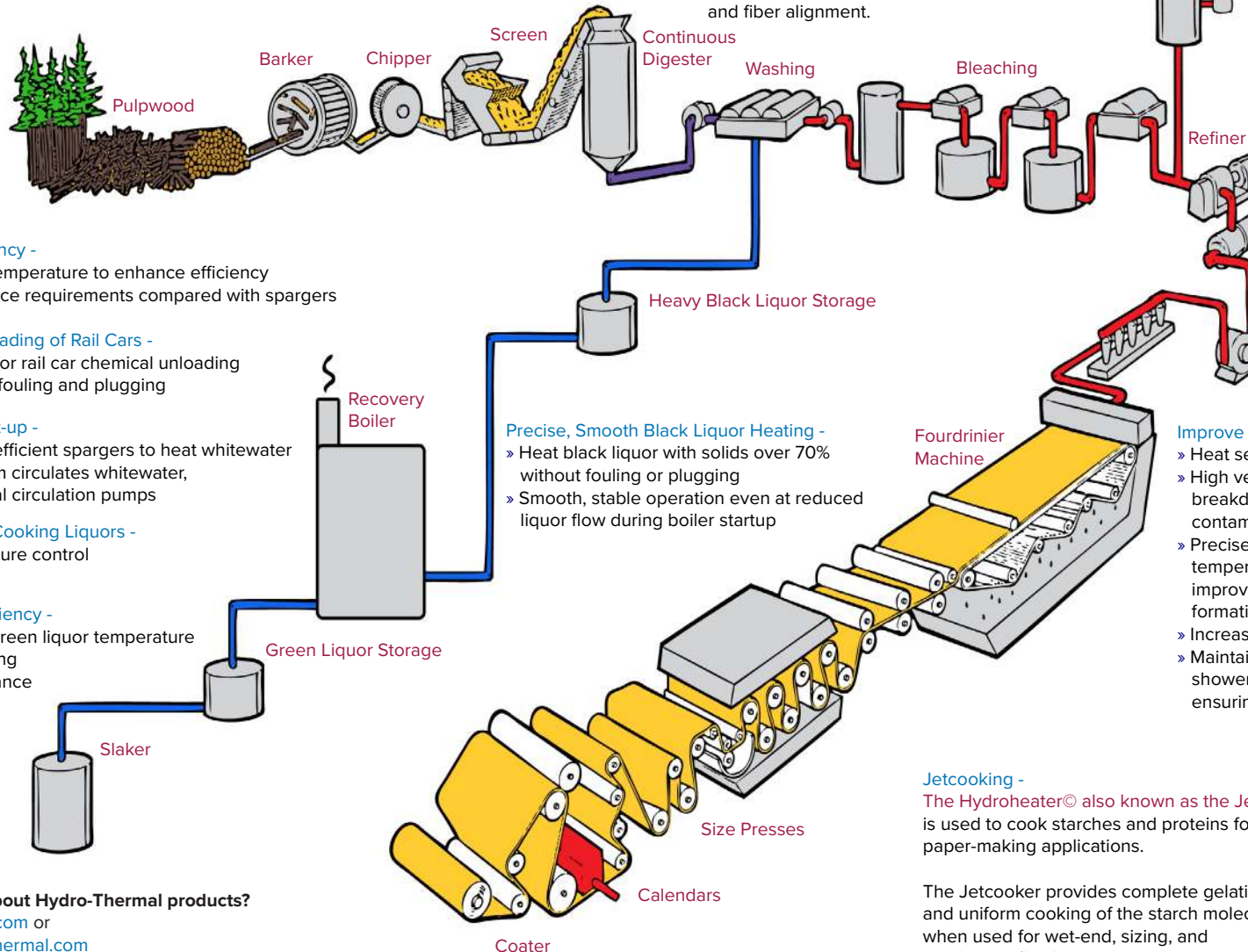
- » Heat water on demand to de-ice logs on barking drum conveyor

## Precise Control of Digester Temperature -

- » Precisely trim circulating liquor temperatures without scaling or fouling

## Bleaching Effectiveness -

- » Lower chemical costs and improve brightness by directly heating stock to optimum temperature. 120°F - temperature provides efficient drainage and fiber alignment.



## Hydro-Pulper Efficiency -

- » Precisely control temperature to enhance efficiency
- » Reduce maintenance requirements compared with spargers

## Faster Chlorate Unloading of Rail Cars -

- » Provides fast heat for rail car chemical unloading
- » Eliminates scaling, fouling and plugging

## Faster Machine Start-up -

- » Replace slower, inefficient spargers to heat whitewater
- » High velocity steam circulates whitewater, eliminating external circulation pumps

## Faster Dispersal of Cooking Liquors -

- » Optimum temperature control of shower water

## Improve Slaker Efficiency -

- » Precisely control green liquor temperature
- » No scaling or fouling
- » Minimize maintenance

## Bleaching Effectiveness -

- » More effective bleaching is achieved when heated water is used to dilute 15-20% consistency stock prior to the gaseous chlorine stage
- » Maintain optimum wash water temperature, increasing the solubility of the chemicals to prevent contamination of succeeding stages

## Precise, Smooth Black Liquor Heating -

- » Heat black liquor with solids over 70% without fouling or plugging
- » Smooth, stable operation even at reduced liquor flow during boiler startup

## Improve Drainage -

- » Heat secondary fiber at 6%
- » High velocity steam jet helps breakdown and disperse contaminants
- » Precisely control whitewater temperature for stock dilution to improve drainage and sheet formation on the Fourdrinier wire
- » Increase production rates
- » Maintaining precise limits on shower water temperatures ensuring clear wire openings

## Jetcooking -

The Hydroheater<sup>®</sup> also known as the Jetcooker<sup>™</sup> is used to cook starches and proteins for all paper-making applications.

The Jetcooker provides complete gelatinization and uniform cooking of the starch molecule when used for wet-end, sizing, and coating applications.

Need more information about Hydro-Thermal products?

Go to [www.hydro-thermal.com](http://www.hydro-thermal.com) or contact us at [info@hydro-thermal.com](mailto:info@hydro-thermal.com)

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