

The Clayton Advantage Installed

A Case Study: LBP Manufacturing

New Steam Generator and Semi-Closed Receiver Saves Fuel

Headquartered in Cicero, Illinois, LBP is a multi-plant manufacturer of innovative paper and corrugated food service and catering supply products. In addition to manufacturing, its services include design consultation and customized product development.

LBP's unique and patented products have been highly successful in the industries that they serve. These products include the Coffee Clutch™ corrugated hot cup sleeves, the Beverage on the Move™ insulated bulk beverage carrier, corrugated catering trays, and disposable Soup-N-Serve™, hot and cold food transport containers.

Due to the rapid growth of their corrugated product lines, LBP made the decision in 2007 to manufacture single-face corrugated board internally.

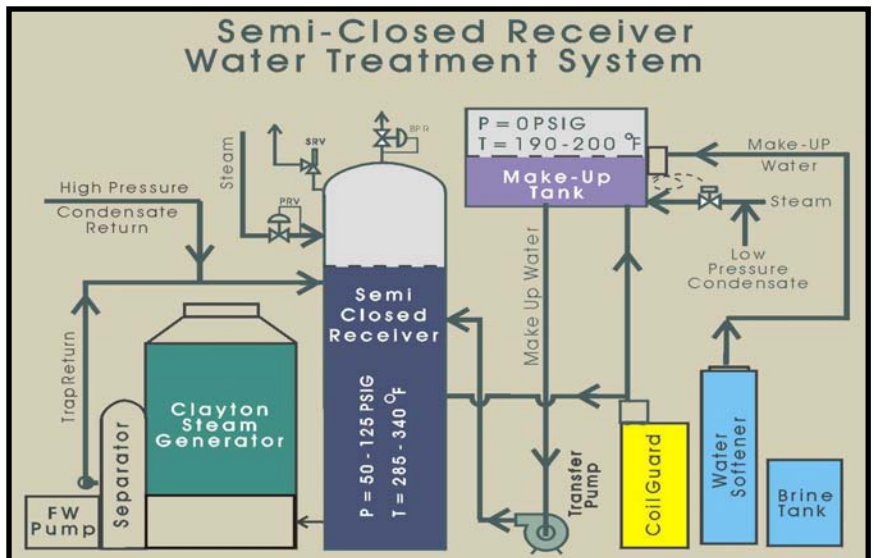
Sam Valdes, Plant Engineer for LBP, made the decision to purchase Clayton Industries steam generating equipment to support a new corrugating line and starch mixing station. Sam had first-hand experience with Clayton Steam Generators at another specialty packaging product manufacturer. His decision to purchase Clayton equipment was based on reliability, fuel efficiency, ease of operation, and a small footprint.



Clayton Steam Generator

A complete 100 BHP Clayton steam system was installed in LBP's new Chicago manufacturing facility in the first quarter of 2008. This system included a steam generator, feedwater components, and a semi-closed receiver tank to receive high temperature, high pressure condensate return for reuse, thus conserving fuel, water and water treatment chemicals.

The Semi-Closed Receiver Feedwater System that LBP incorporated into their steam generating plant is designed to operate with a high degree of reliability and offers well defined economic benefits. The most important savings are in fuel consumption. The related fuel cost savings of an SCR system vs. a traditional open system will in many cases exceed 25% under similar operating conditions. Elimination of flash steam losses reduces the quantity of make-up water for the steam system resulting in reduced water consumption and feedwater chemical treatment, thus providing additional cost savings. Additionally, total solids build up is minimized and the frequency of manual or automatic blowdown cycles are reduced. A Clayton Steam Generator operating in conjunction with a Semi-Closed Receiver system is one of the most efficient steam supply systems available in the market today.



Your Single Source For Steam Technology Since 1930



Industry has turned to Clayton Steam Generators time and again over the decades, simply because they do so many things so well. From single unit packaged skids to complex multi-unit installations plus heat recovery in CHP projects, Clayton Steam Generators supply premium steam as a vital ingredient in your process, boosting in-plant efficiency, lowering costs and economizing on fuel.



Clayton Steam Generators, setting world standards since 1930 for operating efficiency, fuel savings and safety, are backed by extraordinary customer service. Factory direct service technicians provide start-up and training plus preventative maintenance programs tailored to fit your company's needs. In addition, Clayton offers a complete line of Coil Guard water treatment chemicals supported by a dedicated chemical service group.

Clayton **INDUSTRIES**

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World Headquarters
17477 Hurley Street
City of Industry, CA 91744
800.423.4585 tel • 626.435.0180 fax
email: sales@claytonindustries.com
www.claytonindustries.com

**Europe, Africa &
Middle East Headquarters**
Rijksweg 30 • B-2880 Bornem, Belgium
32.3.890.5700 tel • 32.3.890.5701 fax
email: sales@clayton.be

Latin America Headquarters
Manuel L. Stampa 54 • Nueva Industrial Vallejo
Mexico D.F., 07700 Mexico
Toll Free: 01.800.888.4422 • (55)55.86.51.00 tel
(55)55.86.23.00 fax • email: claytonmexico@clayton.com.mx
www.claytonmexico.com.mx

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