



# BATCH PROCESSING INNOVATION

## All fired up

**Batch processing using an autoclave or retort sterilization is a challenging job for a boiler.**

Many boiler applications require continuous flow or output (like heating institutional buildings) and most boilers excel at delivering consistent heat. Batch processing is different. Foods like rice or chocolate need to be loaded, then cooked. Once complete, the equipment needs to be cooled, cleaned, and prepared for the next batch. This is a problem with traditional fire-tube boilers because they cannot turn down the steam production fast enough to prevent steam and pressure buildup while the batches are being prepared. These types of boilers may need to be shut down completely—

costing time and money—while staff wait until the boilers can be re-started and the steam re-heated. These constant on-off cycles can also reduce the life of the boiler, requiring more servicing and earlier replacement.

## The Thermogenics difference

**Due to their unique design, Thermocoil boilers have an industry-leading 10-1 turndown ratio. They can shift from full heat to low heat quickly, even automatically, without a full shutdown.**

The boiler remains active throughout the cycle, reducing wasted time and money bringing the boiler back online. It also ensures that the boiler remains reliable longer, and avoids any downtime caused by boiler

servicing and replacement. This is why so many batch processing companies in the United States and Canada are coming to rely on Thermogenics technology: from plywood makers in Oregon, to food processors in Ontario, and cutting-edge medical waste sterilization facilities in Illinois.

## Measurable results

**Companies using Thermocoil boilers are seeing real, measurable results.**

Thermogenics' industry-leading experience with networked and programmable boiler controllers, combined with the boilers' ability to report a variety of key measurements and metrics to a facility's network, allows companies to understand exactly how the Thermogenics equipment is

operating. Users can then synthesize these measurements with their existing metrics, using both to create strategies on how to dynamically maximize efficiency across any changes in the cycles.

For more on how Thermogenics equipment may help with your batch processing operation please contact us at: [info@thermogenicsboilers.com](mailto:info@thermogenicsboilers.com)



**DEAN JOHNSON**

*Leads Technical Service for Thermogenics.*