

Innovations

from the industry

HURST Announces
a **Revolutionary**
Patented Advance in
Boiler Technology

Hurst Boiler is pleased to announce patent approval of the revolutionary new Hurst Boiler **Thermal Master Counter-Flow Boiler**, engineered with new features that improve boiler efficiency. This optional counter-flow device is a new concept in the design of conventional fire tube steam boilers, and Hurst has received a patent confirming this design for improving boiler efficiency *without increasing its heat transfer surface area and flue gas drop through the boiler.*

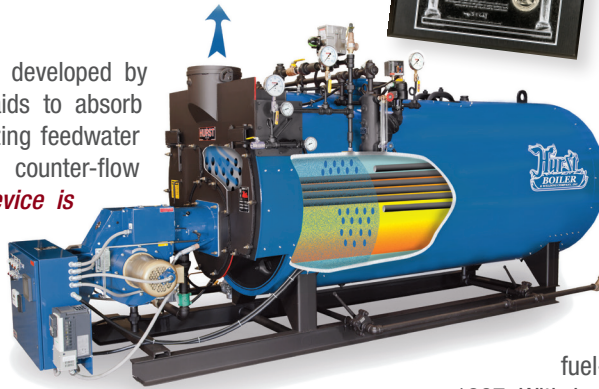
The advanced design and engineering developed by Hurst works as an economizer and aids to absorb more heat from exhaust gases by utilizing feedwater potential in unique water-to-flue gas counter-flow design. *This optional counter-flow device is integrated inside of the pressure vessel*, and factory-built into our innovative Counter-Flow Boiler Series. It requires no external support, and therefore does not require installation and labor costs that typical external economizers require.

Fuel-to-steam efficiencies can be increased up to 3%, depending on working conditions. *This optional design feature can be added to any of our packaged Fire Tube Series*, depending on your individual level of desired efficiency requirements. In accordance with patent approval, calculations were performed by computer model of this boiler under typical conditions. It was determined that the design improves the efficiency of the boiler by as much as 3%, relative to other boilers of traditional designs.

In other words, this new internal, integrated design performs the function of an economizer typically used with conventional steam generation systems, to capture the lost or waste heat from the hot flue and stack gases of the boiler. In conventional boiler designs, the economizer is a device that has separate housing and ductworks, in addition to the boiler housing, providing a bulky assembly. In contrast, these new Hurst designs give the user an opportunity to save on economizer housings, ductwork and on overall boiler room expenses.

Hurst Boiler & Welding Company, Inc. has been manufacturing, designing, engineering and servicing gas, oil, coal, solid waste, wood biomass and hybrid fuel-fired steam and hot water boilers since

1967. With installations across all industries worldwide, Hurst Boiler is recognized for the highest code standards, innovative engineering and design, and renewable, sustainable solutions for green building design and operational efficiency.



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