



HURST

BOILER & WELDING CO., INC.

Optional for
HURST Scotch Marine Boilers

HURST SERIES THERMALMASTER

Lower Stack Temperatures
Reduce Energy Consumption

NEW
INNOVATIVE
DESIGN

U.S. PATENT



COUNTER-FLOW
THERMAL TRANSFER



INCREASE OVERALL
EFFICIENCY

Integrated Internal Design
Factory Installed
Instant Energy Savings

HURST PERFORMANCE SERIES BOILERS

Hurst Boiler is pleased to announce patent approval of the revolutionary new Thermal Master Counter-Flow Boiler Series, engineered with features to improve boiler efficiency.

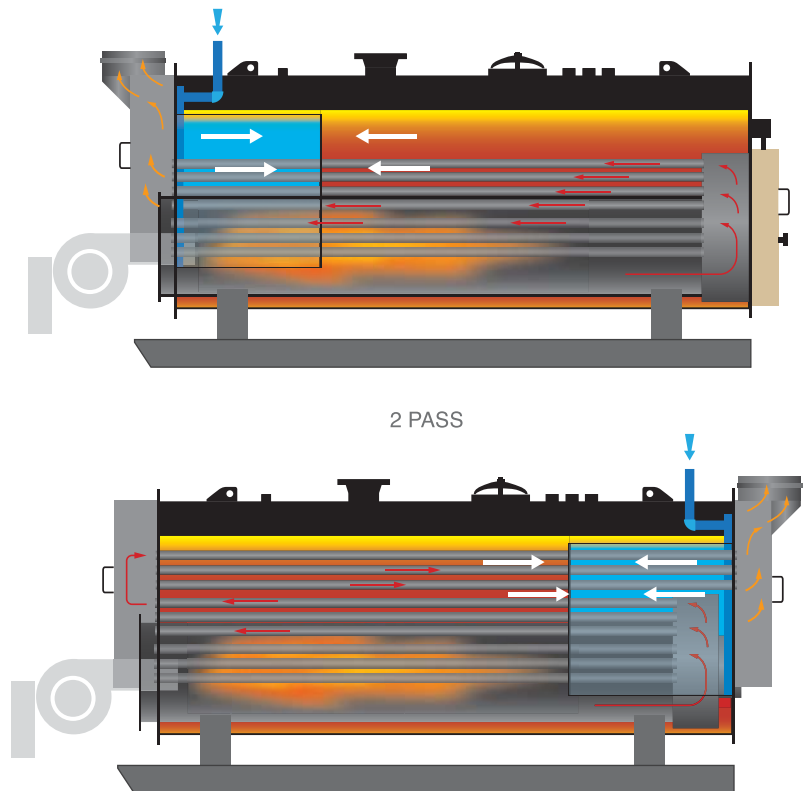
“Advanced design aids in lowering stack temperatures by utilizing make-up feedwater and exhaust gases in a whole new way as a means to increase overall boiler efficiency.”

Integrated inside of the pressure vessel, Hurst’s optional counter-flow device is factory-built into the company’s innovative Thermal Master Counter-Flow Boiler Series and can be added to any of Hurst’s packaged Scotch Marine and Euro Series boilers, depending on desired efficiency requirements.

Representing a new concept in the design of conventional fire tube steam boilers, Hurst’s new counter-flow device improves boiler efficiency without increasing the heat transfer surface area and flue gas pressure drop through the boiler. Hurst’s advanced technology and engineering works as an economizer and aids to absorb more heat from exhaust gases by utilizing feedwater potential in a unique water-to-flue gas counter-flow design.

Performing the same function as a traditional external economizer typically used with conventional steam generation systems, Hurst’s patented internal counter-flow device captures the lost or waste heat from the hot flue and stack gasses of the boiler. In accordance with patent approval, calculations were performed by computer model of Hurst’s counter-flow boiler under typical conditions. Relative to other boilers having traditional designs, tests determined that the device improves boiler efficiency by as much as 3%, depending on working conditions.

Unlike the bulky assembly of a typical external economizer that has separate housing and ductwork in addition to the boiler housing, Hurst’s streamlined, internal counter-flow device requires no external housing or support. As a result, boiler room costs can also be further reduced by savings associated with installation, maintenance and labor.



FACTORY INSTALLED

*No additional
on-site installation cost*

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