



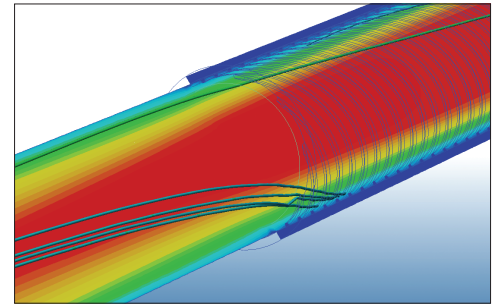
THE WORLD'S EFFICIENCY AND EMISSIONS STANDARD

CBEX DRYBACK ELITE FIRETUBE

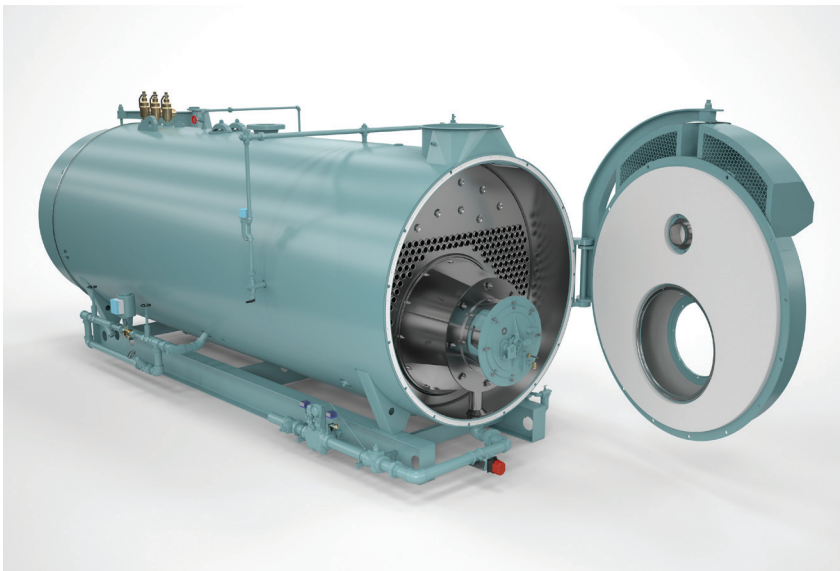
250 – 800 HP

DESIGNED WITH CLEAVER-BROOKS EXTENDED-SURFACE “EX” TECHNOLOGY

- Improved tube heat transfer through computational fluid dynamics (CFD) modeling for 85% greater heat transfer
- Simplified vessel with low rate of furnace heat release for reduced stress
- Superior combustion featuring high turndown with constant stack oxygen
- High efficiency with legendary durability for the lowest cost of ownership



CFD modeling



CBEX Dryback Elite

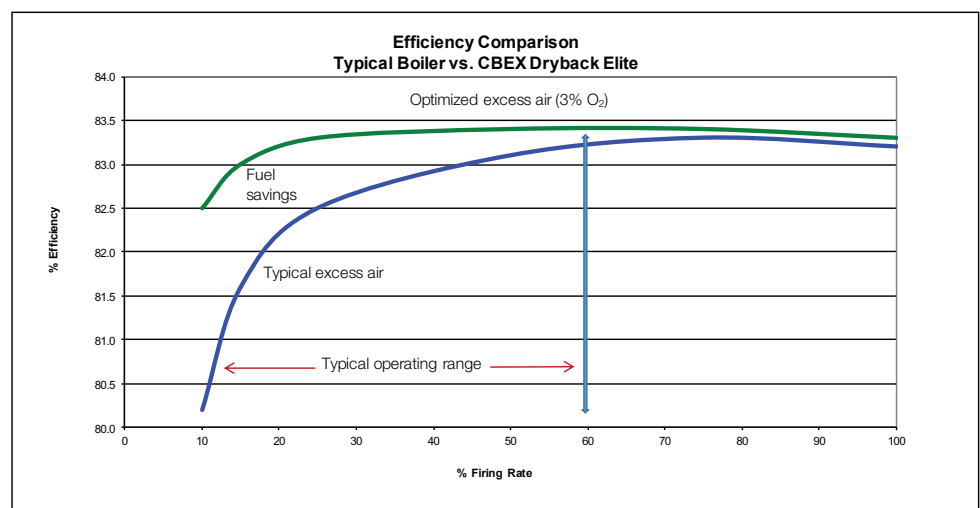
- Steam and hot water
- 30 ppm NO_x standard
- 10 ppm CO emissions
- 82% nominal efficiency

Superior to traditional firetube boilers

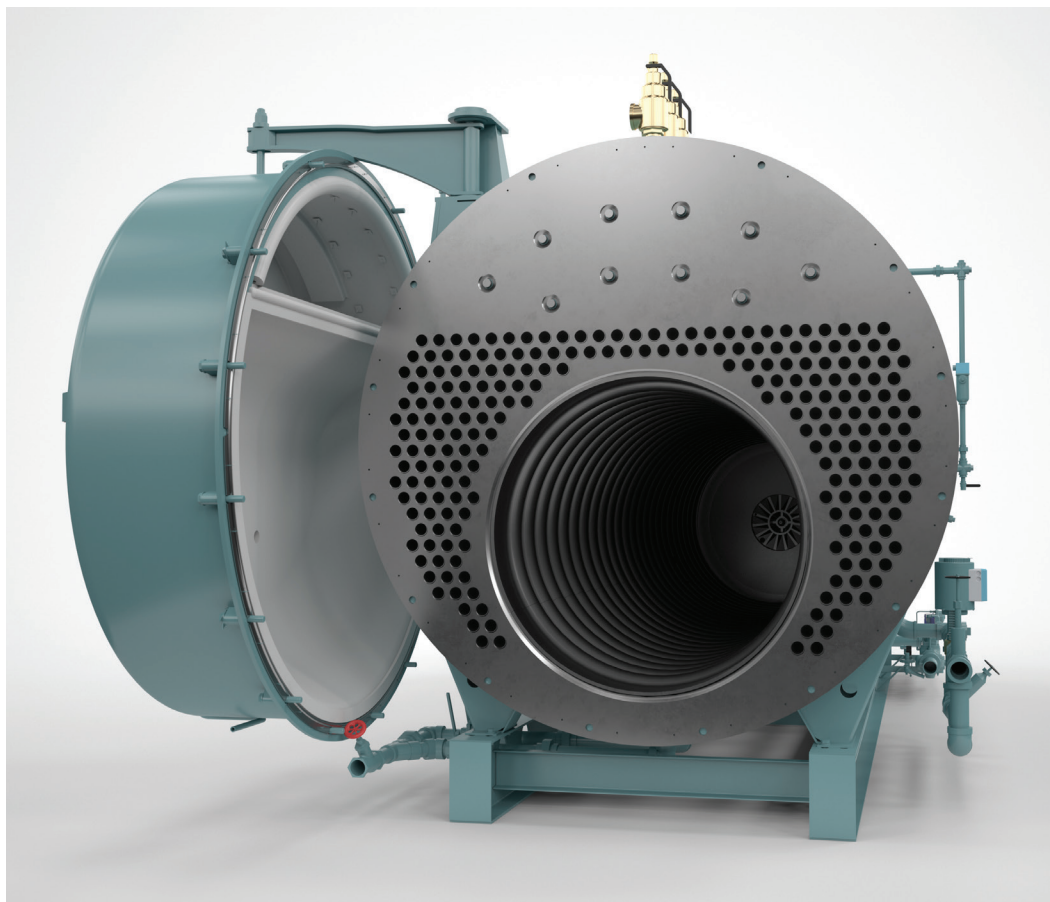
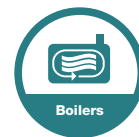
- 20% smaller
- Weighs less
- Generates steam quicker

Most Efficient Firetube System Ever Built

The CBEX Elite is the only firetube to achieve 3% stack O₂ across the entire 10:1 turndown range. This reduces stack losses thereby increasing efficiency at the low- and intermediate-firing rates, where a boiler typically operates. Competitors often promote boiler efficiencies only for the maximum firing rate, where the oxygen content is always the lowest.



Every core component of the CBEX Elite has been designed and built by Cleaver-Brooks. The unit features the Cleaver-Brooks exclusive integral burner with air-cooled front head.



Dryback construction offers unencumbered access to all parts of the boiler for ease of maintenance

Hawk Control

A boiler's performance is based on the ability of the boiler, burner and controls to work together seamlessly. The Cleaver-Brooks Hawk control system offers precise boiler/burner management and safety with logic-based ancillary devices and functions.

The linkageless Hawk offers options for O₂ trim and variable-speed drive control and can be customized and optimized for any system. It is compatible with building automation systems and is NFPA and UL compliant.



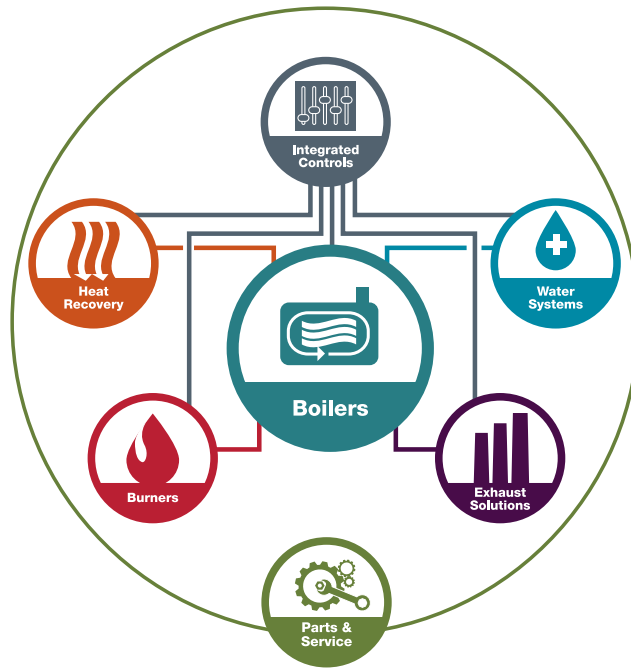
Advanced Hawk control



Fits inside a shipping container

Ideal for Steam Back-up or Mobile Field Processes

The CBEX Dryback Elite is specifically designed to fit inside a shipping container. Cleaver-Brooks offers a complete operable boiler room shippable worldwide up to 1000 HP. All components are supplied by Cleaver-Brooks for single-source responsibility



Providing energy-efficient, environmentally friendly boiler room solutions

Cleaver-Brooks is one of only a few boiler room solution providers in the world to operate a dedicated research and development facility. Having pioneered several industry-leading technologies, we remain just as committed today to introducing technology and products that enable a more energy-efficient and environmentally friendly generation of steam and hot water.

We distribute our products through the Cleaver-Brooks Representatives Association, or CBRA, an alliance of independently owned and operated companies that provide boiler room products and service. CBRA companies can be counted on to provide Cleaver-Brooks products and parts, engineering support, customer training, technical service and system maintenance. To find a CBRA representative near you, please visit cleaverbrooks.com/ reps.



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