

# **PORTABLE FIRETUBE BOILER PLANT SOLUTIONS**

**Containerized or Skid-Mounted**

# HIGH-PRESSURE STEAM, LOW-PRESSURE INSTALLATION

Cleaver-Brooks is your single source for firetube boiler systems from the integrated boiler, burner and control to the perfectly matched skid-mounted or containerized system.

Cleaver-Brooks designs and builds standard-size and customized skid-mounted and containerized systems utilizing 3-D modeling to ensure optimal performance and customer satisfaction.

Because we manufacture nearly every type of boiler and the integrated controls that make all components work together seamlessly, you can be sure the design is built to your specifications and is appropriate for your application.

Our system will save you time and money. A mechanical contractor has to wait until the boiler components arrive before installation can get underway. The Cleaver-Brooks system is pre-piped and pre-wired, which helps get your boiler system up and running weeks faster.

Our systems are tested and documented before they leave our factory. They are built specifically to integrate with our boilers, so when our system reaches your facility, it is pre-piped and ready for start-up.

## INSTALLATION MADE EASY

The benefits of a packaged steam system become clear as it's being installed. Our carefully pre-assembled systems eliminate ramp-up time that might interrupt your business. Water, gas and steam available with connection point modular design facilitates shipping, and installation field wiring and piping mistakes are eliminated. Integrated power and controls make installation and start-up quick and easy.

## WHY CHOOSE CLEAVER-BROOKS?

- ▶ **Single Source.** Optimal performance will be achieved. Designed by one manufacturer, all system components are designed, engineered, manufactured and integrated by one company.
- ▶ **Faster Delivery.** Installation time is faster, by as much as 50%. When we deliver the system, all that has to be done is the final connection.
- ▶ **Cost Advantage.** A Cleaver-Brooks skid-mounted or containerized system may save you money.
- ▶ **Design Capabilities.** Standard and custom packages are available specific to your application.
- ▶ **Expert Fabrication.** We operate a complete machine and metal fabrication shop with highly skilled welders and craftsmen.
- ▶ **Pre-Tested.** Our skid-mounted and containerized systems are fully tested before they are shipped to your facility to ensure proper operation in the field.
- ▶ **Wired.** Our system will arrive at your facility pre-wired and ready for final connection and commissioning.

# PORTABLE BOILER SYSTEMS

## Skid-Mounted



STANDARD PACKAGES/OPTIONS		Skid-Mounted
1	Cleaver-Brooks Firetube 100 to 1,000 HP	Standard
2	Other Cleaver-Brooks Boilers	Option
	High-Pressure or Low-Pressure Steam	Standard
	Single Fuel Oil or Gas Fired	Standard
	Combination Gas or Oil Fired	Option
	Emissions limits of 30 ppm or 9 ppm NOx	Option
	Cleaver-Brooks Hawk PLC Based Combustion Control	Option
3	Cleaver-Brooks Feedwater Tank	Standard
	Cleaver-Brooks Deaerator	Option
	Cleaver-Brooks Feedwater Pumps	Standard
4	Cleaver-Brooks Chemical Feed (Single System)	Standard
	Additional Chemical Feed Systems	Option
5	Cleaver-Brooks Blowdown Separator	Standard
	Cleaver-Brooks Blowdown Tank	Option
6	Cleaver-Brooks Water Softener	Option
7	Cleaver-Brooks Exhaust Stack	Standard
	Emergency Stop	Standard
	Electrical Receptacles	Option

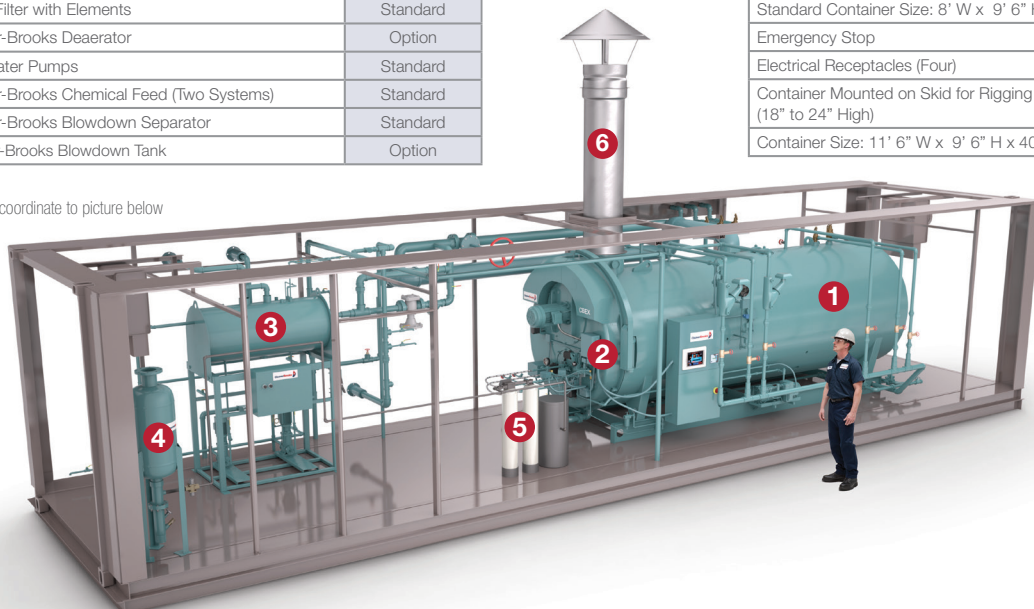
## Containerized

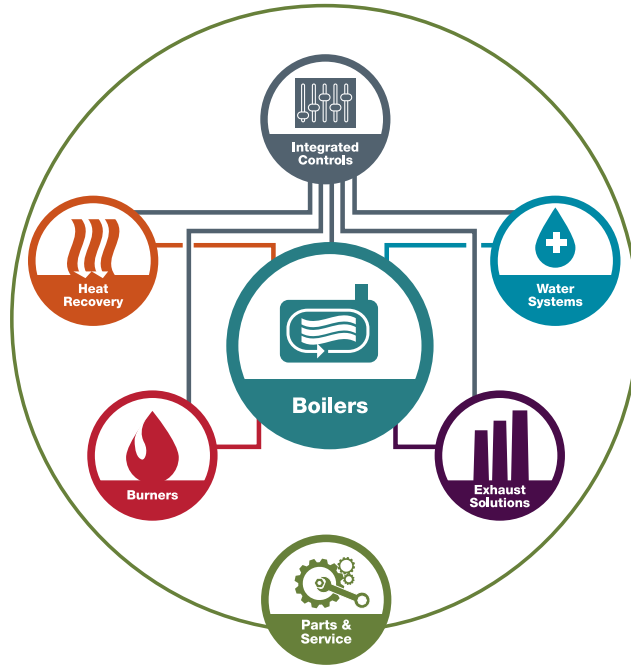
STANDARD PACKAGES/OPTIONS		Containerized
1	Cleaver-Brooks Firetube 100 to 1,000 HP	Standard
	Other Cleaver-Brooks Boilers	Option
	High-Pressure or Low-Pressure Steam	Standard
	Single Fuel Oil or Gas Fired	Standard
	Combination Gas or Oil Fired	Option
	Oil Day Tank for Oil Fired	Standard
	Emissions limits of 30 ppm or 9 ppm NOx	Option
2	Cleaver-Brooks Hawk PLC Based Combustion Control	Option
3	Cleaver-Brooks Feedwater Tank	Standard
	Cleaver-Brooks Water Storage Tank	Standard
	Water Filter with Elements	Standard
	Cleaver-Brooks Deaerator	Option
	Feedwater Pumps	Standard
	Cleaver-Brooks Chemical Feed (Two Systems)	Standard
	Cleaver-Brooks Blowdown Separator	Standard
4	Cleaver-Brooks Blowdown Tank	Option

STANDARD PACKAGES/OPTIONS		Containerized
5	Cleaver-Brooks Water Softener	Option
6	Cleaver-Brooks Exhaust Stack	Standard
	Space Heaters	Standard
	Single Man Door	Standard
	Additional Man Door	Option
	Access Doors to Manholes, Controls and Others	Standard
	Recessed Exterior Piping Connections	Standard
	Interior Lighting	Standard
	Exterior Lights at Man Doors	Standard
	Additional Interior and Exterior Lighting	Option
	Standard Container Size: 8' W x 9' 6" H x 40' L*	Standard
	Emergency Stop	Standard
	Electrical Receptacles (Four)	Standard
	Container Mounted on Skid for Rigging on Roll Backs (18" to 24" High)	Option
	Container Size: 11' 6" W x 9' 6" H x 40' L*	Option

\*Does not include skid

Numbers coordinate to picture below





## Total Integration goes far beyond boilers.

For more than 80 years, Cleaver-Brooks has built a reputation for innovation in the boiler solutions industry. We remain committed to introducing technology and products that enable a more energy-efficient and environmentally friendly generation of steam and hot water.

When you come to us for boilers, you can know that each element is created to the highest standards and all will work together seamlessly to give you a highly efficient and reliable solution. To learn more, please call or visit us online.



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