



Ohio Compliant Firetube Boilers

# OHIO SPECIAL

MODELS CB & CEW

100 TO 225 HP

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## Dryback/Wetback Firetube Boilers

Up to 225 horsepower

15, 150, 200, and 250 psig steam

105 models

Full modulation

Low and high pressure steam

Oil, gas or combination fired

Less than 360 square feet of heating surface for unattended operation

Dryback or Wetback design

Dual low water cutoffs for ultimate water level safety

## Model CB Ohio Special Exclusive Features

C-B's ACCU-LINK cam, a variable contour device, which controls the fuel and air flows with its single point positioning system, is designed to match fuel and air ratios for combustion.

Results: Highest fuel-to-steam efficiency maintained throughout firing range.

Dimpled Tubes, along with the furnace, total 358 square feet of heating surface - greatest amount offered for unattended steam boiler operation in Ohio.

Results: Long life and years of service at the highest guaranteed fuel-to-steam efficiency in the industry.

Low Furnace, keeps hottest combustion gases well below water level with generous clearance from the bottom to allow full circulation.

Results: A great safety margin between furnace and water level - critical should a low water condition occur, ensures updraft design allowing heat to rise naturally.

Large Diameter Boiler, offers a high steam volume and a large steam disengaging area.

Results: Less water carryover with drier, higher quality steam.

Unique Front Door, serves as a windbox, preheating the combustion air.

Results: in a cooler front boiler, less radiation losses/higher thermal efficiency.

## AVAILABLE FEATURES

### Air Compressor Module

Mounted, piped and wired on the boiler's base in lieu of belt drive.

### Hawk Microprocessor Boiler Control

to enhance efficiency, safety and communication.

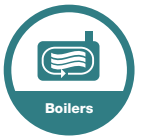
### Sequence Controller

to stage several boilers in response to system demand.

### Flue Gas Economizer

to recover waste heat from exhaust gases, improve fuel-to-steam efficiency.





## MODEL CB OHIO SPECIAL

### Integral C-B Burner Provides Complete, Clean Combustion

#### Safe Automatic Operation

Every Cleaver-Brooks burner is designed to deliver optimum fuel-to-steam efficiency. The air atomizing oil burner provides a high degree of atomization misting - compared to pressure atomizing equipment.

An air compressor supplies low pressure atomizing air to the oil burner and, with close contact of oil and air, the oil burns like gas - cleanly and completely.

The high velocity burner uses an adjustable cam to control metering of proper fuel/air mixtures.

- Cleaver-Brooks high pressure drop design provides high turbulence and complete combustion. Our burner can handle stack conditions from  $-0,25''$  W.c. to  $+0.25''$  W.c. without affecting combustion or output.
- Full modulation with a guaranteed 4:1 turndown ratio conserves fuel and assures reduced operating and maintenance costs, when compared to high/low firing.

With the combination burner, you can use the least expensive fuel or cope with a shortage of either oil or gas. Changeover occurs in less than a minute.

- Located at eye level for easy inspection and service, the centralized control panel contains motor starter, computerized flame safeguard controller, and fuel/oil selector switch. Operating and safety controls are adjacent to the panel.
- If a problem occurs, it's annunciated immediately on the CB780's alphanumeric display and by available audible alarm. The CB780 uses a plain English, easy-to-read, LED display that can be used to access operational, troubleshooting and fault history information.
- And, more than 400 safety checks each second verify critical system functions. Self-checks include flame detection, ignition and fuel status, valve closure during standby and prepurge and assured low fire start.

## MODEL CEW OHIO SPECIAL

### PACKAGED BURNER V-SERIES

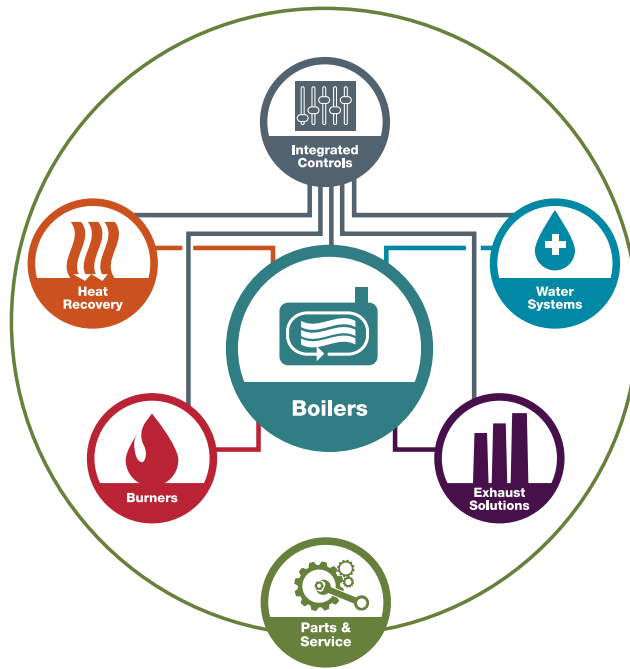
#### The Ultimate in Performance



#### ProFire-V Burner Offers:

- Low fan motor HP Requirements
- High resistance to stack draft fluctuations
- Quiet operation
- Ease of combustion setup with unique air damper
- 4:1 Turndown on Natural Gas and 3:1 Turndown on #2 Oil with standard emissions;





# Total Integration goes far beyond boilers.

Efficiency and quality don't end with our boilers. Cleaver-Brooks complete integration produces the most efficient boiler solutions in the world. Completely designed, engineered, manufactured, integrated, and serviced by one company, our systems don't have a single outsourced component to jeopardize compatibility or performance. If you're looking for the best-quality boiler systems with the lowest emissions and highest efficiencies, you're looking for Cleaver-Brooks.



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