

CORE OFFERINGS

Cleaver-Brooks offers a
comprehensive range
of product solutions.



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Cleaver-Brooks Core Offerings

Cleaver-Brooks offers a comprehensive range of product solutions.

Packaged Boiler Solutions

Firetube Boilers



CBEX

- » 2 or 3 pass
- » Steam or hot water
- » 100 to 2,500 HP



CBLE

- » 4 pass
- » Steam or hot water
- » 50 to 800 HP



CBJT

- » 2, 3 or 4 pass
- » Steam or hot water
- » 50 to 1,600 HP



ICB

- » 3 pass
- » Steam or hot water
- » 100 to 800 HP

Packaged Watertube Boilers



FLX

- » Steam or hot water
- » 1,500 to 25,000 MBH



FLX-IB

- » Steam or hot water
- » 12,500 to 25,000 MBH



Model 5 / M5M

- » Steam or hot water
- » 1,500 to 8,000 MBH

Modular Steam Boilers



ClearFire®-H

- » Horizontal steam
- » 10 to 125 HP



CBT

- » Steam
- » 9.5 to 50 HP



Modular Steam Boiler Skid

- » 9.5 HP and up
- » Custom-engineered systems available



Custom Skid Solutions

- » Steam or hot water systems
- » Capacities to 800 HP

Condensing Hydronic Boilers



ClearFire®-CE

- » Firetube with TurboFer® technology
- » 500 to 6,000 MBH



SwitchFire®

- » Firetube with EX technology
- » 6,000 to 12,000 MBH



Modular Hydronic Skid

- » 500 to 24,000 MBH
- » Custom-engineered systems available

Electric / Electrode Boilers



Model S

- » Vertical steam
- » 12 to 2,250 kW, up to 600V



Model CR

- » Vertical steam
- » 12 to 563 kW, up to 600V



Model HSB

- » Horizontal steam
- » 1,560 to 3,375 kW



MVE

- » Electrode steam
- » 13.2kV



LVR

- » 90 to 540 kW
- » Up to 335 to 1,850 MBtu



WB

- » 12 to 3,360 kW
- » Up to 11.5 MBtu



Electric Boiler Skid



The power of total integration.

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Industrial Watertube Boiler Solutions

Watertube Boilers



CBCW

- » Saturated steam
- » 10,000 to 225,000 lb/hr



D-Type

- » Steam, temperatures to 1,050° F
- » 10,000 to 500,000 lb/hr



O-Type

- » Steam, temperatures to 1,050° F
- » 10,000 to 500,000 lb/hr



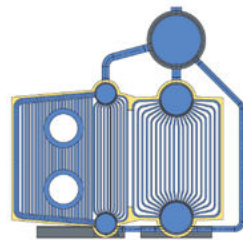
A-Type

- » Steam, temperatures to 1,050° F
- » 10,000 to 500,000 lb/hr



D-Type Elevated Drum

- » Superheated steam, up to 1,050° F
- » 200,000 to 1,000,000 lb/hr



Modular Industrial

- » Superheated steam, up to 1,050° F
- » 200,000 to 1,000,000 lb/hr

Heat Recovery Steam Generators (HRSG)



MaxFire®

- » Gas flow up to 1,000,000 lb/hr
- » Steam generation from 10,000 to 500,000 lb/hr



Slant Type/VC Series

- » Gas flow up to 400,000 lb/hr
- » Steam generation from 10,000 to 150,000 lb/hr



Modular

- » Gas flow from 500,000 to 1,000,000 lb/hr
- » Steam generation to 500,000+ lb/hr

Waste Heat Boilers



Fluid Heater

- » Gas flow up to 1,000,000+ lb/hr
- » Up to 200 MMBtu/hr



Max-Flow® Fluid Heater

- » Hot water or fluid heating
- » 20 to 200 MMBtu/hr



Waste Heat

- » Gas flow up to 1,000,000 lb/hr
- » 10,000 to 500,000 lb/hr

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Boiler Room Equipment

Deaerators (DA)



SprayMaster

- » Spray-type deaerator
- » 7,000 to 280,000 lb/hr



Duo Tank

- » SprayMaster deaerator and surge tank
- » 7,000 to 280,000 lb/hr



BoilerMate®

- » Packed column-type deaerator
- » 1,500 to 135,000 lb/hr



MiniMate®

- » Packed column-type deaerator
- » 2,000 to 7,000 lb/hr



TrayMaster

- » Tray-type deaerator
- » TMV - 500,000 lb/hr or less
- » TMH - 1,000,000 lb/hr or less



Boiler Feed System

- » Engineered atmospheric feed system
- » Up to 2,200 gallons



FSH / FSV

- » Compact atmospheric feed system
- » 30 to 1,054 gallons



SRG / CST

- » Handles water volume swings
- » 300 to 10,000 gallons

Boiler Economizers



CRE

- » Single-stage non-condensing
- » Includes bypass damper
- » Up to 2,500 boiler HP



CCE Cylindrical

- » Steam or hot water
- » Up to 250 HP



C2X-HE Economizer

- » Two-stage condensing economizer
- » Up to 2,500 boiler HP



C1X

- » Single-stage condensing

Boiler Economizers (cont.)



CRB

- » Single-stage non-condensing



ECF

- » Small footprint
- » 10 to 80 HP boilers

Water Treatment



Water Softeners

- » Steam or hot water
- » 20,000 to 1,500,000 grains
- » Steel or fiberglass



Chemical Feed Systems

- » Steam or hot water
- » Treat boiler feedwater, steam and condensate



Dealkalizers

- » Steam or hot water
- » 10,000 to 1,000,000 grains



Filtration Systems

- » Steam or hot water
- » 50,000 to 1,000,000 grains

Boiler Blowdown Systems and Tanks



Blowdown Systems

- » Steam
- » For boilers up to 1,600 psig design pressure



Surface Blowdown Heat Recovery

- » Specialized for continuous surface blowdown
- » Up to 22 gpm blowdown water
- » Up to 180 gpm



Flash Tank Heat Recovery

- » Up to 30 gpm blowdown water
- » Up to 150 gpm makeup water

Accessories



Condensate Return System (CRSS)

- » Simplex or duplex design
- » 12 to 135 gallons



HxO Tankless Water Heater

- » Domestic hot water or process water heating
- » Up to 10,000 MBH



Sample Coolers

- » Steam or hot water
- » Any boiler size



Steam Exhaust Silencers

- » Noise attenuation when venting steam
- » Noise reduction range 24.4 to 48.4 dB

Heat Pumps



ClearAir® Air-to-Water Heat Pump

- » Maximum leaving water temperature: 176°F (80°C)
- » Nominal COP: 2.7
- » Nominal Capacity: 350 MBH (102.6 kW)



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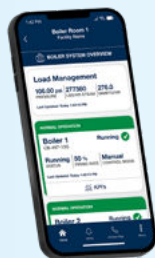
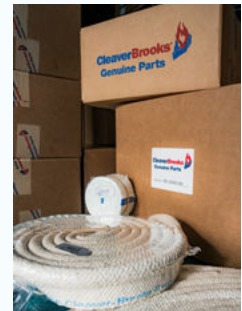
Asset Lifecycle Management

myBoilerRoom

- » Centralized data hub accessed via mobile phone or PC
- » Lowers total cost of ownership by providing:
 - Accurate documentation and complete spare parts list
 - Individualized training programs
 - List of scheduled maintenance activities

Genuine Parts

- » Cleaver-Brooks maintains inventory of:
 - Replacement parts for all Cleaver-Brooks equipment
 - Most parts for other manufacturers' boiler equipment



promētha

Prometha®

- Harnesses the power of real-time data to optimize operations
- Provides actionable insights to increase efficiency and reduce unplanned downtime
- Displays key performance indicators and sends alerts



Boiler Plant Optimization™ (BPO)

- Identifies areas of improvement to increase safety, efficiency, reliability and sustainability
- Three evaluation levels: BPO Scorecard, BPO Overview and BPO Assessment

Note: Rental and containerized options available

ProFire® Commercial Burners



SBR-30

- » 16.8 to 54.6 MMBtu/hr on natural gas
- » #2 oil as backup
- » 30 ppm NOx without FGR



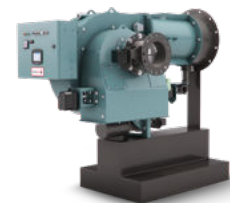
SBR-5

- » 10.5 to 42 MMBTU/hr on natural gas
- » Dual-fuel capability
- » 5 ppm NOx with FGR



D Series

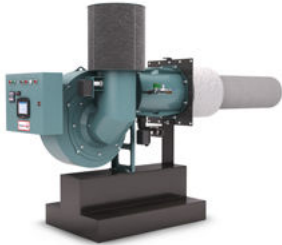
- » Gas, #2 and #6 oils, combination or alternative fuels
- » 3.4 to 42.0 MMBtu/hr



E Series

- » Gas, #2 oil or combination
- » 16.8 to 42.0 MMBtu/hr

ProFire® Commercial Burners (cont.)



MTH Series

- » Natural gas or propane
- » 2.5 to 63 MMBtu/hr
- » 9 ppm NOx without FGR



V Series

- » Gas, oil or combination
- » 1.3 to 16.8 MMBtu/hr



Q Series

- » Natural gas, propane or digester gas
- » 0.375 to 3.8 MMBtu/hr

ProFire® Industrial Burners



XL Series

- » Gas, oil or combination
- » 37.8 to 92.4 MMBtu/hr



S1 Series

- » Gas, #2 and #6 oils or combination
- » 46.2 to 63.0 MMBtu/hr



NT Burner

- » Gas, #2 oil or combination
- » 1.5 to 92.4 MMBtu/hr
- » 9 ppm NOx with FGR

Natcom® Engineered



NCB Burner System

- » Natural gas or light oil
- » 12 to 360 MMBtu/hr



Duct Burner

- » Natural gas or propane
- » 10 to 500 MMBtu/hr



Fuel Train

- » Natural, refinery, digester or tail gas, hydrogen, landfill, or other alternative gaseous or liquid fuels
- » Carbon steel or stainless steel piping



Selective Catalytic Reduction (SCR)

- » Works with firetube, IWT, HRSG and retrofit boilers
- » Reduces NOx by up to 95%, down to 1 ppm



Specialty Burner Systems

- » Natural, refinery, digester or tail gas, hydrogen landfill, or other alternative gaseous or liquid fuels
- » 50 to 400 MMBtu/hr

Controls - Boiler



Hawk 1000 / 4000

- » Steam or hot water
- » Packaged firetube and watertube



Hawk 4500

- » Industrial watertube conversions



Accu-Trim

- » Steam or hot water
- » Stand-alone O₂ trim control

Controls - Boiler Room Equipment



ADAC 1000 / 4000

- » Deaerator and surge tank control
- » Steam



LCS

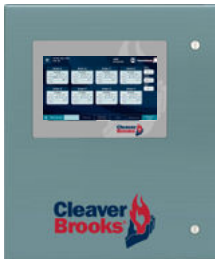
- » Pressurized or atmospheric tank level control



PCS

- » Pump control

Controls - Plant



Hawk Host Panel

- » Lead-lag for up to eight boilers
- » 4- and 8-boiler versions



Customized Industrial Controls

- » Any size boiler or application



The power of total integration.



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The **Power of Total Integration** is how Cleaver-Brooks delivers the world's broadest range of integrated, sustainable boiler plant solutions. In addition to our products, this includes our global representative and service network, training resources, and trusted expertise that add significant value to your Cleaver-Brooks investment.



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