



# EXHAUST SOLUTIONS

The highest quality installation-ready and engineered freestanding stacks.

# The Quality Exhaust Systems you Need, Provided with Speed and Accuracy

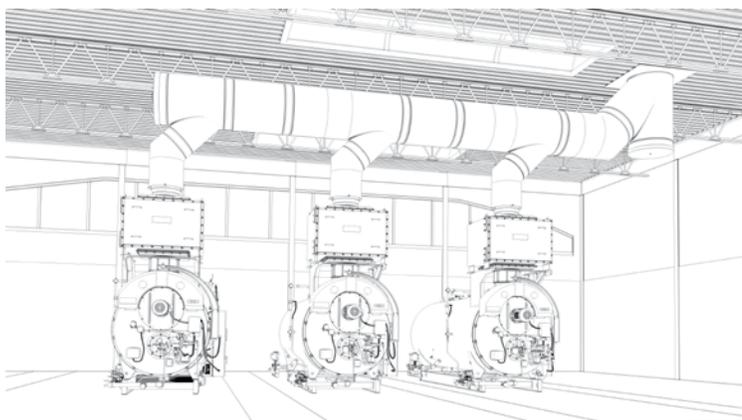
When you select an exhaust solution from Cleaver-Brooks, you're integrating the latest engineering and technology in gas venting. Our exhaust solutions allow you to have the greatest possible efficiency whether you have a Cleaver-Brooks system, another manufacturer's, or components from multiple manufacturers. We know that timely and accurate design and fabrication are paramount concerns to our customers. That's why we engineer and produce our exhaust systems to exacting standards quickly and efficiently. Because we use the latest technology and techniques in research and development, quality control, and manufacturing, you reap the benefit of this state-of-the-art approach with faster quotes, faster design, and faster installation.



## FASTER QUOTES

Our manufacturing and production process has been streamlined based on decades of experience and innovation. This expertise allows us to provide quotes on your projects faster than ever. Response times to requests for quotes and plans for standard products can literally be measured in hours.





## FASTER 3D RENDERINGS

Custom 3D and 2D CAD renderings with plans and a complete bill of materials are included with your quote in a matter of days, not weeks or months. Because you get your specs and plans faster, the other elements of your boiler room project won't need to wait on your exhaust system.



## FASTER INSTALLATION

Our exclusive male/female joining system on our installation-ready systems simplifies and accelerates the installation process by up to 40%, so you can be assured completion will be fast and easy. Manufacturing uses state-of-the-art processes, including precision laser cut and welding technology, ensuring a flawless fit. Not only will our precisely engineered products save you time and frustration, but also considerable labor costs.

Exclusive male to female joining system reduces installation time by 40%.

With a full line of installation-ready exhaust systems, freestanding stacks, special gas vents, chimney liners, and grease duct products that fit our complete line of boilers and the boilers of other manufacturers, Cleaver-Brooks exhaust solutions can add efficiency and value to any system you're considering or currently have installed.

Learn more and download technical specifications today at [cleaverbrooks.com/exhaustsolutions](https://cleaverbrooks.com/exhaustsolutions).

# Installation-Ready Exhaust Systems

## The Flexibility to Get the Most Out of Any Boiler

Cleaver-Brooks installation-ready boiler exhaust systems are more than the sum of their interchangeable male and female parts. They are complete solutions that provide the latest technology to enhance the performance of your boiler. Our CBI insulated exhaust systems are perfect for venting gases from liquid, oil, or solid fuel-fire boilers. Ranging from 6 to 48 inches in diameter, they are ideal for industrial and commercial applications.



### FEATURES:

- Exclusive, male/female jointing system eliminates the need for adapters, reducing installation time by up to 40%
- State-of-the-art laser cut and welded joints provide accurate fit and adherence to specifications
- Stainless steel material provides superior protection from corrosion and staining, and increases exhaust lifespan
- A full range of accessories ensures your exhaust system is customized for your application
- UL/ULc listed

| Products  |
|---|
| Model CBI:<br>Single wall stack or liner                          |
| Model CBILA:<br>1" air insulation<br>double wall stack            |
| Model CBIL1:<br>1" mineral fiber insulation<br>double wall stack  |
| Model CBIL1F:<br>1" ceramic fiber insulation<br>double wall stack |
| Model CBIL:<br>2" air insulation<br>double wall stack             |
| Model CBIL2:<br>2" mineral fiber insulation<br>double wall stack  |
| Model CBIL2F:<br>2" ceramic fiber insulation<br>double wall stack |
| Model CBIL4F:<br>4" ceramic fiber insulation<br>double wall stack |



# Freestanding Stacks

## Engineered to Excel in the Most Demanding Sites

Cleaver-Brooks manufactures freestanding stacks for customers with the most demanding applications. These systems are not only manufactured to American and Canadian standards and requirements, they're engineered to meet Cleaver-Brooks standard of perfection.

Our in-house engineering department will create the most efficient solution – no matter how demanding the application or type of boiler system employed. Designs are based on exhaust combustion products, thermal and chemical conditions, corrosion effects, structural analysis, seismic calculations, and vortex-induced load analysis. Our team will propose the appropriate composition, shape, and jointing method for your specific application, using the latest technology in combustion gas venting.

### FEATURES:

- Factory-welded joints provide strength, and avoid costly third-party welding
- Available in carbon steel, COR-TEN® steel or stainless steel configurations, as required by your installation's needs
- High-temperature insulation provides protection from the extreme heat associated with exhaust stacks
- Metal jacket is available as an option when required

### Products

Model CBS:  
Single structural shell stack

Model CBS2:  
Cylindrical double wall stack –  
inner structural shell insulation  
and outer metal jacket

Model CBS3:  
Cylindrical double wall stack –  
outer structural shell with air  
space, insulation, and steel lining

Model CBSR:  
Cylindrical refractory-lined free-  
standing stack – outer structural  
shell with refractory lining

# Special Gas Vents

Condensing high-efficiency boilers require cutting-edge technology specially engineered for the highest-efficiency boilers. Our special gas vents provide flue venting for industrial, institutional, and commercial applications, and are well suited for condensing-boiler applications. Like our other lines of chimneys and vents, they come installation-ready with male and female joints, allowing for an easy and efficient installation as well as reducing installation time by up to 40%.



## FEATURES:

- Exclusive male/female slip-type jointing system reduces installation time by up to 40%
- Stainless steel as per UL1738 (24-gauge 6" to 48" diameter)
- Full range of accessories, including elbows, fittings, guides, and supports
- Laser welding
- UL/ULc listed

| Products  |
|---|
| Model CBH:<br>Single wall stack/liner                         |
| Model CBHLA:<br>1" air insulation double wall stack           |
| Model CBHL1:<br>1" mineral fiber insulation double wall stack |
| Model CBHL:<br>2" air insulation double wall stack            |
| Model CBHL2:<br>2" mineral fiber insulation double wall stack |



# Chimney Liners

Masonry chimneys require special products to maximize safety and efficiency. Cleaver-Brooks offers an entire line of products designed specifically for these types of chimneys. These systems are perfect for venting category 1 gases and oil-fired appliances equipped with draft hoods or type B gas vents. Like all our products, they are custom engineered and fabricated to ensure precise fit for quick installation and a lifetime of efficient performance.



## FEATURES:

- Male/female slip-type jointing reduces installation time by 40%
- Laser welding
- Stainless steel material
- UL/ULc listed

| Products  |
|---|
| Model CBI:<br>Single wall liner, 20-gauge<br>6" to 24" diameter |
| Model CBH:<br>Single wall liner, 24-gauge<br>6" to 48" diameter |

# Grease Duct Products

When removing smoke and grease vapors, it is important to have the best-engineered product available to improve indoor environments and ensure the safest possible solution. These chimney systems are designed for exhaust of combustion gases under positive, negative, or neutral pressure, emanating from a variety of appliances. Our grease duct products use the same male/female design and plasma welding construction as our larger systems, ensuring fast delivery and efficient installations.

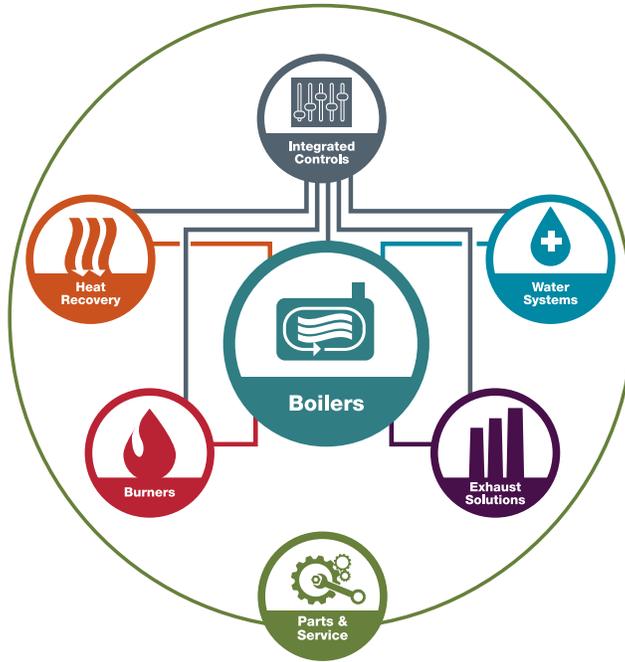


## FEATURES:

- Male/female slip-type jointing system decreases installation time by 40%
- Laser welding
- Stainless steel material
- Industrial, institutional, and commercial applications
- UL/ULc listed

| Products  |
|---|
| Model CBG:<br>Single wall grease duct                                   |
| Model CBGLA:<br>1" air insulation double wall<br>grease duct            |
| Model CBGL1F:<br>1" ceramic fiber insulation<br>double wall grease duct |
| Model CBGL:<br>2" air insulation double wall<br>grease duct             |
| Model CBGL2F:<br>2" ceramic fiber insulation<br>double wall grease duct |
| Model CBGL4F:<br>4" ceramic fiber insulation<br>double wall grease duct |

*These models are suitable for continuous operation at temperatures not exceeding 500°F (260°C).*



# Total Integration goes far beyond Exhaust Solutions.

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 Exhaust Solutions, 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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