

# Unrivalled experience meets unmatched service.

Boiler room solutions from the industry leader

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To learn more, contact Cleaver-Brooks Sales & Service at 800-331-1956 or visit [cbsevice.com](http://cbsevice.com).

CHICAGO | CORPUS CHRISTI | DALLAS | DES MOINES | GENESEO | HOUSTON  
KANSAS CITY | MCALLEN | SAN ANTONIO | ST. LOUIS

# Who We Are.

Our unique ability to address our customers' boiler room needs comes from a long history of **more than 65 years** of designing, fabricating, installing and maintaining boiler solutions across the globe. You'll find everything—new, used, remanufactured, rental and repair services—at a single source.

- » Culture of Safety First
- » 400 Employees based in the heartland of the US
- » 150 ASME Code welders who travel globally
- » Largest Cleaver-Brooks new equipment sales channel
- » World leading tubular product and rental boiler company







# We know boilers better than anyone.

And we'll bring our deep expertise directly to you.

Every business has unique needs, and we're the right choice to get you up and running—or to optimize your existing system—with as little downtime as possible. Whether it's an integrated system design, a turnkey retrofit or a quick service call, **Cleaver-Brooks Sales & Service has the expertise and experience you need to get the most out of any boiler system.** With a single call, you can make sure your boiler system remains safe and reliable for years to come.



Tube repair

Tube replacement

Boiler door rebuilds

Hydrostatic testing

Economizer upgrades

Burner retrofits

Blower repair

Piping repair

Manway resurfacing

Pump repair

Code welding

Parts installation

Online sealing

Open/close for  
boiler inspections

Mechanical  
troubleshooting

Tube cleaning:  
turbine & soot vacuum

Boiler re-tubing:  
watertube & firetube

Boiler rebuilding:  
watertube & firetube

Casing repair:  
inner & outer

Superheater  
fabrication & repair

Refractory repair

# Our expertise means we can do anything—really.

## CAPABILITIES BY APPLICATION

- » Building heat
- » Process steam
- » Industrial process sterilization
- » Humidification
- » Waste heat recovery

## CAPABILITIES BY MARKET

- |                               |                           |
|-------------------------------|---------------------------|
| » Alternative energy          | » Forest products         |
| Ethanol                       | » Government              |
| Biodiesel                     | » Healthcare/hospital     |
| » Beverage                    | » Institutions            |
| » Chemical/pharmaceutical     | » Laundry/dry cleaning    |
| » Commercial and office units | » Manufacturing           |
| » Dairy                       | » Metal plating           |
| » Education                   | » Petrochemical/oil sands |
| Universities                  | » Power/utility           |
| Primary/secondary             | » Rubber/fiber            |
| » Food processing             |                           |



# Dependability meets flexibility.

Our local service reps can supply  
and install ANY equipment.

We're equipped to handle anything you might need; since we're local, we already know your area and your facility. We offer a complete line of boiler services to help ensure that your equipment runs as smoothly and efficiently as possible.

**No service request is too big or too small**—we repair boilers, pressure vessels, heat exchangers and related components for any make, model and size of boiler system.

We also provide quick response from 150 fully equipped vehicles and 24/7/365 service with after hours and on-call supervisors, technicians and mechanics.



## RELY ON LOCAL CLEAVER-BROOKS SALES & SERVICE REPS FOR:

- Combustion tuning
- Boiler start-up; new,  
reconditioned & rentals
- Controls for safety checks
- Controls for safety boiler  
inspections
- Controls for combustion  
troubleshooting
- Controls and burner  
technical services

- Low NOx conversions
- System upgrades
- Efficiency upgrades
- Emergency service & repair
- Boiler Plant Optimization
- Preventive maintenance
- Rentals
- Training (on-site, online, classroom)





# Our expertise travels well.

## We'll bring excellent service directly to you.

Our special field project teams are made up of highly skilled boiler mechanics, ASME code welders, rig welders and pipe fitters. **We can perform services at your facility, or be deployed throughout the U.S. and around the world.** We offer emergency boiler repair service, repair on all types and brands of combustion control and burner management equipment, NBIC repairs, and alterations for carbon steel and high alloys. Our zero-injury culture means our safety record speaks for itself—in our shop and in the field.



### ASME CODE WELDING SERVICES

100+ WELDING PROCEDURES  
AND PQR'S

#### MATERIALS:

Monel  
Chrome  
Nickel  
Hastelloy  
Stainless Steel  
Inconel



## INDUSTRIAL FABRICATION CAPABILITY LOCATIONS



### HOUSTON, TEXAS

- » 36,000 sq. ft. shop
- » 100-ton overhead cranes
- » Strategic location with water access

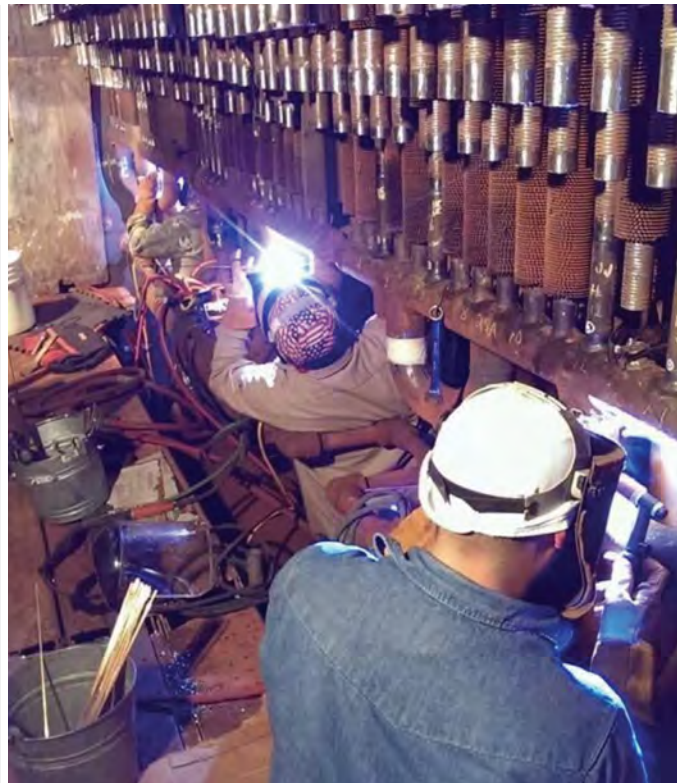
### DALLAS, TEXAS

- » 125,000 sq. ft. shop
- » Two 30-ton overhead cranes
- » 5-ton cranes overhead tube shop
- » In the heart of Dallas—easy in and out

## HEAT RECOVERY STEAM GENERATOR SERVICE

We provide complete Heat Recovery Steam Generator (HRSG) solutions. We can integrate and optimize existing systems or replace them with new state-of-the-art equipment to maximize energy efficiency and reliability, while minimizing emissions for virtually any sized system and application.

**Our trained specialists can serve or repair all HRSG systems.** We provide a broad spectrum of expertise in all facets of HRSG service, from standard annual inspections to entire HRSG installations, and can perform new construction or rebuilds either on site or at one of our facilities.



# Engineering excellence, every day.

Our in-house engineering and drafting staff uses **the most advanced technology available** and can meet your unique design needs.

## ENGINEERING SERVICES

- » Engineered tube drawing
- » Electrical engineering and automation
- » Combustion controls engineering
- » Environmental controls engineering
- » Project engineering support and organization
- » Value engineering alternatives and approaches

### ANALYSIS

- » Boiler performance
- » Energy efficiency
- » Root cause
- » Capacity, temperature and fuel

### DESIGN

- » Boiler room
- » Mechanical system

### SPECIALTY SERVICES

- » 3D laser scanning
- » 3D modeling and simulation
- » ASME calculations and code compliance

## Certifiably strong.

We proudly follow all NBIC rules and ASME codes, as well as maintain weld procedures and performance qualifications for emergency repairs.

### ASME certifications:



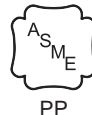
**UNFIRED  
PRESSURE  
VESSELS**



**POWER  
BOILERS**



**NATIONAL  
BOARD  
(REPAIRS)**



**POWER  
PIPING**



**ASSEMBLY  
FIELD ERECTED  
BOILERS**



**HEATING  
BOILERS**



## **RELY ON LOCAL CLEAVER-BROOKS SALES & SERVICE ENGINEERING FOR:**

Structural and mechanical drafting for presentation and/or manufacturing

Analyzing and designing replacement equipment

Preparing all production design drawings and data for replacement equipment

Replicating all or part of an existing field erect boiler

Boiler control upgrade for both combustion and steam/hot water

Improving and controlling NOx emissions

Designing of fuel system retrofits

Designing and/or retrofit of economizer systems

System troubleshooting and issue analysis with complete solution and support design write up

Analyzing and reporting for insurance companies and repair or replacement proposals

3D Modeling and drawings for simulations, maintenance or training

Pressure capacity analysis and superheat temperature calculations





# Our expertise is just as extensive as our inventory.



## BOILERS

We offer the industry's widest range of fully-integrated boiler systems in any size and application. All our boilers are designed for maximum efficiency, reliability and low emissions.



## BURNERS

Discover our full line of high-quality, high-efficiency, low and ultra-low emission burners for all makes, models and sizes of boilers.



## HEAT RECOVERY

Save energy dollars, raise your fuel-to-steam efficiency up to 90% and reduce your environmental impact by recovering waste heat or steam and using it for other system applications.



## CONTROLS

Increase efficiency, reduce energy usage and reach the lowest achievable emissions with control systems designed to get the most efficient performance from your boiler room.



## WATER SYSTEMS

Increase the safety, reliability and life of your system with our deaerators, surge tanks, feedwater systems and water treatment that can be integrated into your system, regardless of size or application.



## EXHAUST SOLUTIONS

Selective Catalytic Reduction (SCR) and high-quality, installation-ready and engineered free-standing stacks feature the latest engineering and technology in combustion gas venting.



## REPLACEMENT PARTS

We have the parts and maintenance solutions to keep every make, model and size boiler system operating safely and reliably at peak efficiency.





# When downtime isn't an option, Boiler rentals keep you up and running.

**Renting a high-efficiency, low-emission boiler system** offers your company an easy, cost-effective way to instantly adapt to changing business demands.

## BOILER RENTAL & SERVICE DETAILS

- » **Firetubes** from 5-2,000 HP
- » **Watertube boilers** to 150,000lbs/hour
- » **High-pressure, low-pressure and superheated systems**
- » **Boiler consultation** to assess your needs
- » **Turnkey installation** to cut the ramp-up time
- » **Ongoing 24/7 service** to assist you throughout the rental period
- » **Onsite training** by our experienced staff
- » **Fully equipped mobile plants** to provide reliable steam anywhere
- » **Trailer and skid-mounted package boiler** for peak load periods and emergencies
- » **A skilled staff** to assist you with tie-in to your system
- » **Large section** of new and used inventory for purchase



For Emergency Rentals contact **888.923.6907**

# Installation is just the beginning.

**Our network is available 24/7/365** with over 4,000 stocked parts ready for next-day shipment in one of our 13 warehouses—and 150 service vehicles ready to dispatch.

- » Controls
- » Electrical components
- » Fuel components
- » Gaskets
- » Gauges
- » Impellers
- » Motors

- » Pumps
- » Refractory
- » Tubes
- » Valves
- » Kits
- » Accessories
- » Hardware

- » Maintenance equipment including open/close kits
- » Pretreatment and feedwater parts
- » New and reconditioned boiler doors—or we'll recondition yours at your facility



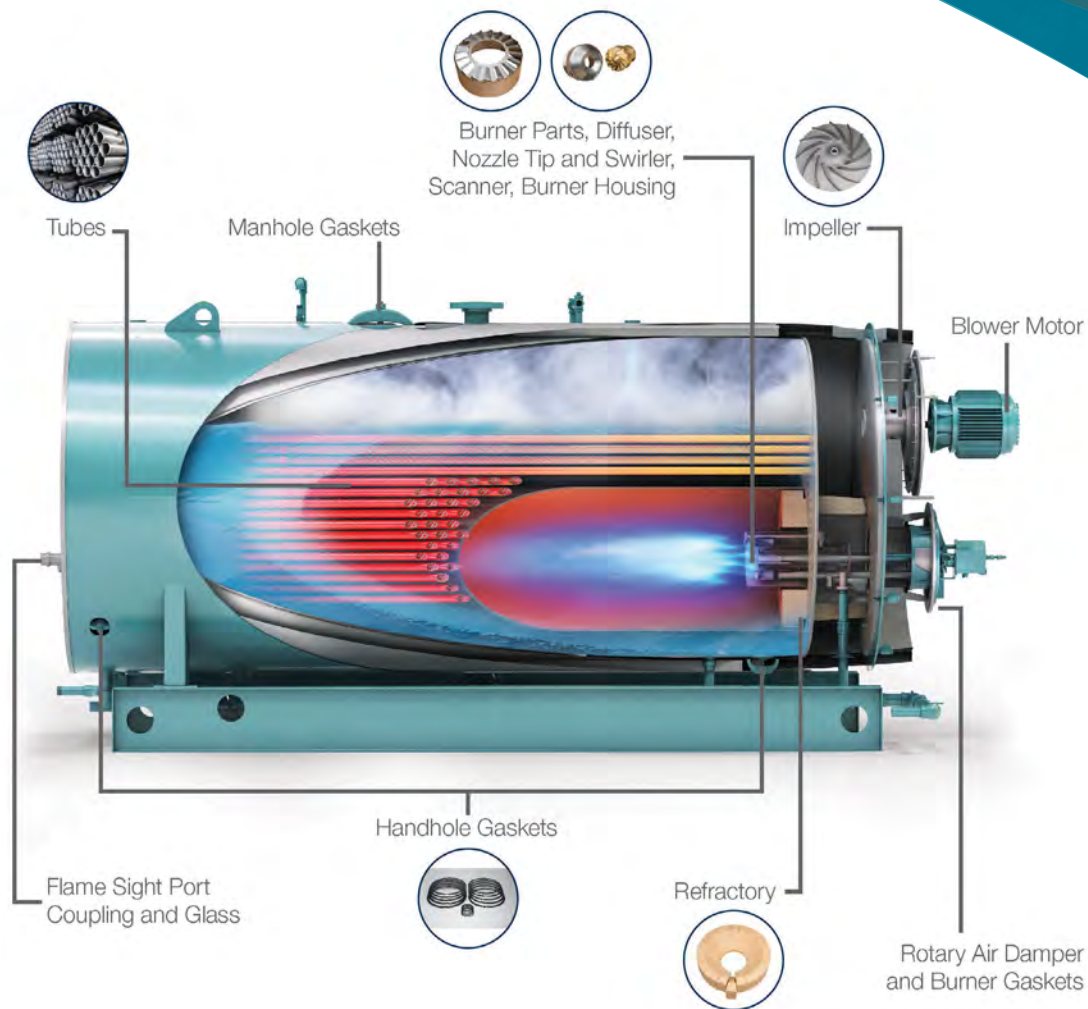
**EVERY PART IS ENGINEERED AND MANUFACTURED SPECIFICALLY TO YOUR EQUIPMENT'S ORIGINAL SPECIFICATIONS, NO MATTER THE BRAND OR TYPE OF YOUR ANCILLARY EQUIPMENT:**

Honeywell  
McDonald Miller  
Siemens  
Kunkle  
Nat-Com  
Industrial Controls  
Zeeco

Worcester  
United Brass  
Power Flame  
Crane  
Burks Pumps  
Dwyer  
Refractory

ASCO  
Gordon-Platt  
Kewanee  
Fire Brick  
and many more

Contact us at [parts@cbsevice.com](mailto:parts@cbsevice.com) or visit [parts.cleaverbrooks.com](http://parts.cleaverbrooks.com) to shop online.



### **Experience quality parts, service and upgrades.**

Maximize savings, performance and efficiency with our unparalleled expertise. Whether for a Cleaver-Brooks boiler or a boiler from another manufacturer, we have the parts and maintenance solutions to keep your boiler system operating safely and reliably at peak efficiency.

### **Maximize uptime with critical spare parts.**

Keep your boiler online by stocking critical parts for wearable components and proper maintenance. Only Cleaver-Brooks Sales & Service can offer a customized spare parts list for genuine Cleaver-Brooks parts to care for your specific boiler system.

### **Avoid downtime with routine maintenance.**

A boiler that's down can cripple business. Count on Cleaver-Brooks Sales & Service to help you find the parts, training and maintenance plans (monthly, quarterly or annual) needed to keep your boiler room running smoothly. You can add years to your boiler's life and save thousands of dollars through reliable, efficient operation.



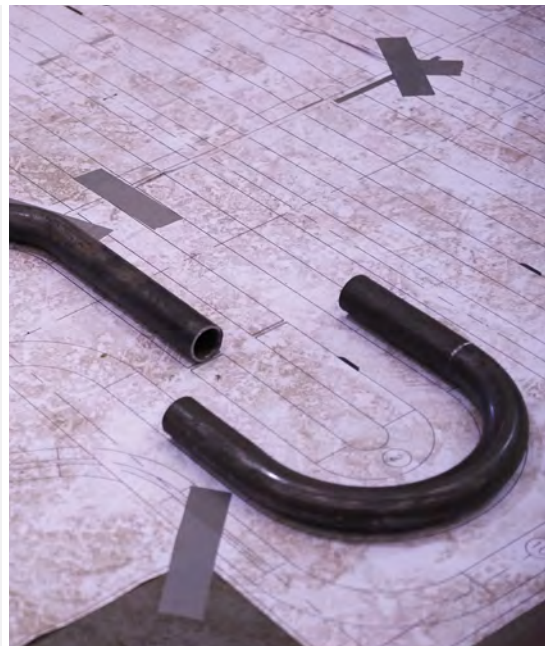
# Our full range of tubular products

includes straight, bent and custom designed tubes and tube assemblies.

## FABRICATED TUBE SERVICES

Our extensive inventory of tooling can produce tubes for almost every model manufactured.

- » We bend from customer supplied tube patterns that have been removed from an existing boiler
- » We'll bend tubes from engineered drawings produced by our Engineering Department
- » We can provide a site visit when necessary measurements are taken to fabricate your tubes
- » Boost, mandrel or hot bending techniques are used to ensure **constant uniform** tube wall thickness and precision



## HEAT EXCHANGERS

- » **Bending capabilities** include  $\frac{3}{4}$ " to 1  $\frac{1}{2}$ " OD tubes and radius sizes ranges from  $\frac{3}{4}$ " to 15  $\frac{1}{2}$ "
- » We use a **variety of materials** including stainless and mild steel





## TUBE REPLACEMENT

- » Hot and cold bending capabilities include 1 ½" up to 4" OD
- » Straight tubes cut to length
- » Membrane tubes
- » Tube panels
- » Economizer tubes
- » Superheater tubes
- » Swaging



## SUPERHEATERS

- » We have extensive experience with convective and radiant superheaters.
- » We have the expertise to assemble a vast assortment of quality superheaters from tubes ready for assembly to complete unit ready to install.



## FIN WELDING

- » We can membrane a wide variety of tubes for replacement, initial installation or conversion of your existing boiler.



## SWAGE TUBES

- » We have the ability to reduce the diameter of a tremendous variety of tube sizes without compromising the tube wall thickness. Our swage tube machine ensures uniform tube thickness.



## STOCK TUBING

- » Our inventory of SA-178A tubes is one of the largest in North America.
- » We will cut, ream and bundle your order for quick delivery.



# Local reps with global reach.

## Contact us today.

If your service area is not listed, visit [www.cleaverbrooks.com/rep](http://www.cleaverbrooks.com/rep) for a full listing of Cleaver-Brooks reps in your area and around the world.

### ILLINOIS

#### CHICAGO

502 Crossen Ave.  
Elk Grove Village, IL 60007

**Phone:** 847-434-1477

**Fax:** 841-434-1485

**24/7 Service:** 800-535-4652

#### GENESEO

4169 S. Oakwood Ave.  
Geneseo, IL 61254

**Phone:** 309-944-3149

**Fax:** 309-944-3199

**24/7 Service:** 800-535-4652

### IOWA

#### DES MOINES

1840 Fuller Rd.  
West Des Moines, IA

**Phone:** 515-223-9034

**Fax:** 515-223-8984

**24/7 Service:** 800-886-9034

### KANSAS

#### KANSAS CITY

9862 Pflumm Rd.  
Lenexa, KS 66215

**Phone:** 913-888-4672

**Fax:** 813-888-9562

**24/7 Service:** 800-886-4672

### MISSOURI

#### ST. LOUIS

1626 Headland Dr.  
Fenton, MO 63026

**Phone:** 314-968-1177

**Fax:** 314-968-7927

**24/7 Service:** 800-886-1178

### TEXAS

#### CORPUS CHRISTI

6527 Teamwork Trail  
Corpus Christi, TX 78415

**Phone:** 361-884-0411

**Fax:** 361-884-8478

**24/7 Service:** 800-662-4747

#### DALLAS

1956 Singleton Blvd.  
Dallas, TX 75212

**Phone:** 214-637-0020

**Fax:** 214-637-2539

**24/7 Service:** 800-331-1956

### HOUSTON

2403 Appelt Dr.  
Channelview, TX 77015

**Phone:** 281-452-0300

**Fax:** 281-452-0313

**24/7 Service:** 888-777-4421

### McALLEN

401 E. Cedar Ave. Ste. H  
McAllen, TX 78501

**Phone:** 956-682-1319

**Fax:** 956-682-1338

**24/7 Service:** 877-662-4747

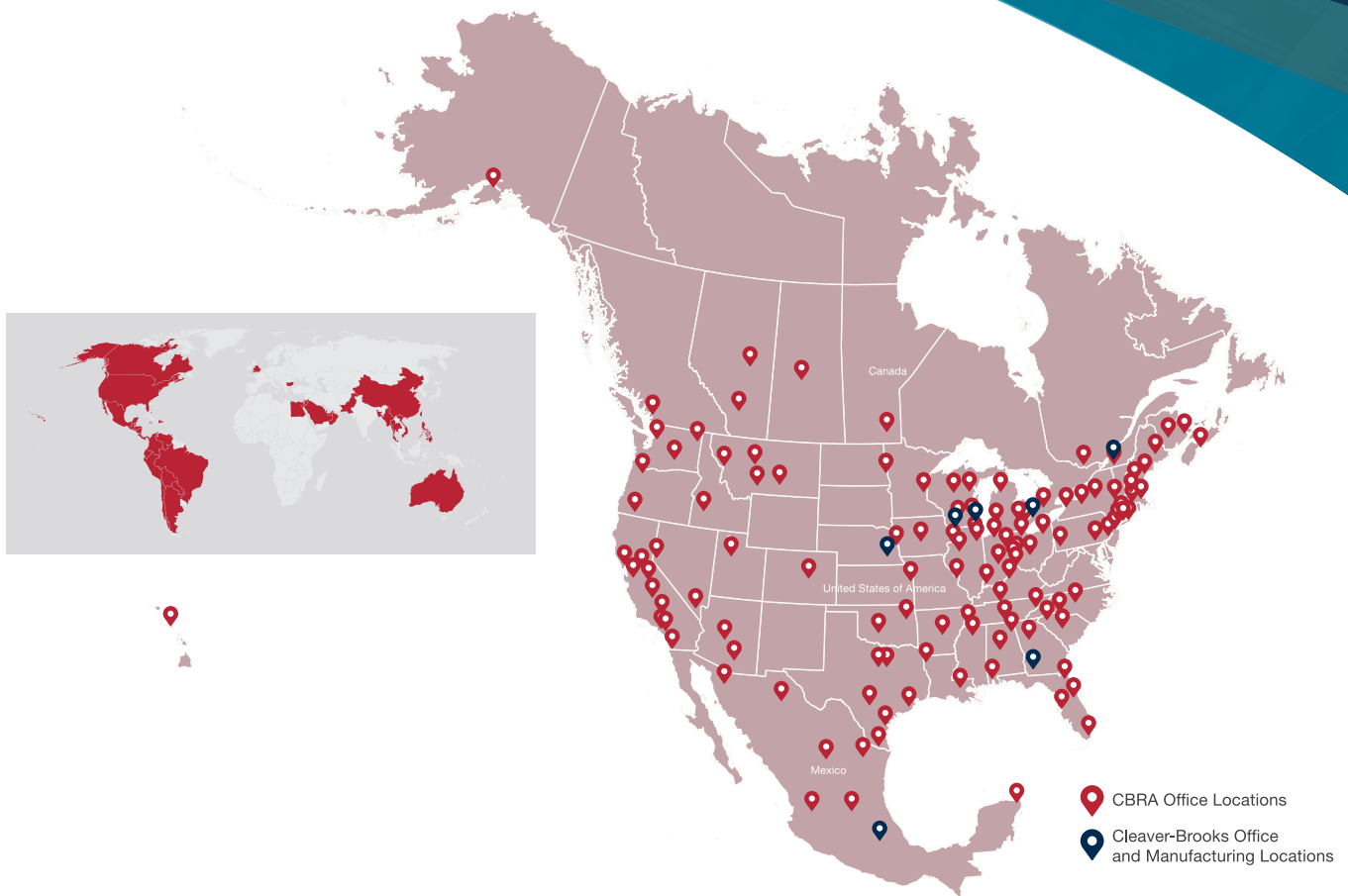
### SAN ANTONIO/AUSTIN

12019 Starcrest Dr.  
San Antonio, TX 78247

**Phone:** 210-798-1808

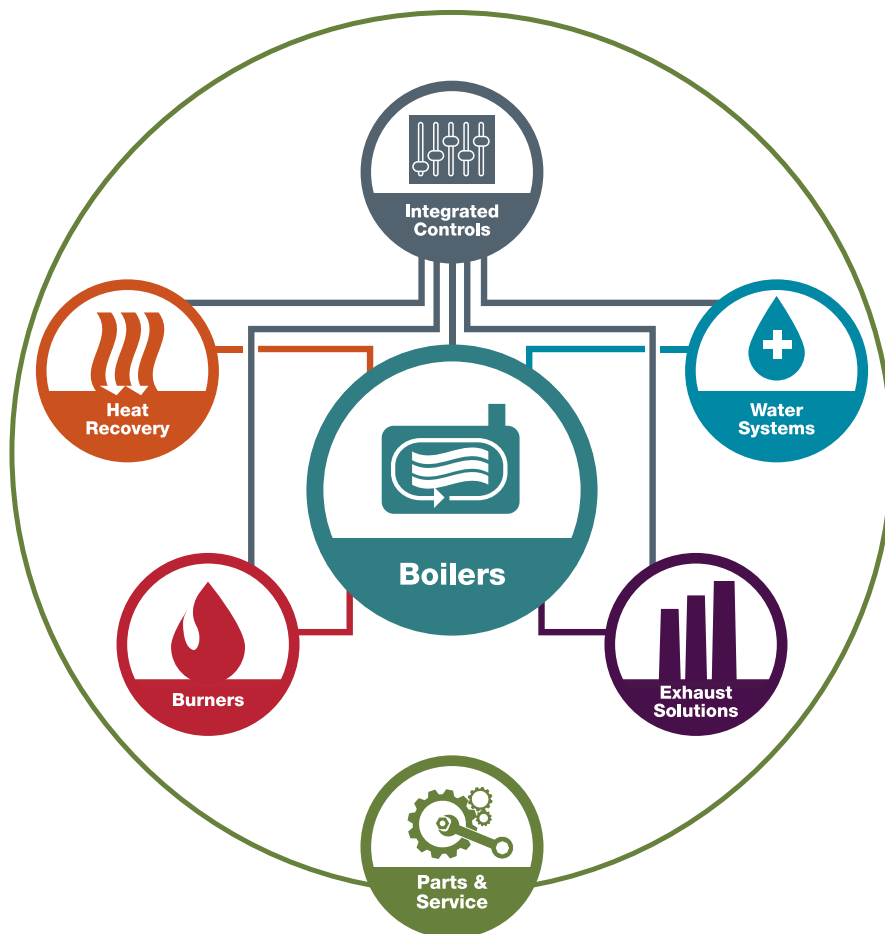
**Fax:** 210-798-1812

**24/7 Service:** 866-798-1808



**Cleaver-Brooks is the only boiler manufacturer with worldwide representation.**

The Cleaver-Brooks Representatives Association (CBRA) is the first and only dedicated alliance of boiler room sales and service representatives in the industry. More than 1,500 CBRA representatives across the globe provide unparalleled, ongoing support—from commissioning your system, to providing genuine parts and turnkey after-sale solutions, to extensive product training and knowledge sharing.



1956 Singleton Blvd.  
Dallas, TX 75212

**Phone:** 214-637-0020  
**24/7 Service:** 800-331-1956