



Boiler Services

MAINTENANCE, REPAIR, UPGRADES, REPLACEMENT



SERVICING ALL MAJOR BRANDS FOR COMMERCIAL & INDUSTRIAL APPLICATIONS — 24/7/365

Carrier Boiler Services... A Comprehensive System Approach

"...safety and adherence to the highest operational standards are essential to our way of doing business."

When Willis Carrier introduced the first commercial air conditioning system in 1902, it would prove to be an innovation that significantly changed our world. His engineering expertise is the foundation of Carrier Corporation... the company that honors his legacy with revolutionary developments in systems technology, world-class equipment and customer-focused service for all of today's building applications. Today, more and more commercial and industrial enterprises are discovering the comprehensive products and services that now define

Carrier Corporation as the premiere company for HVAC equipment manufacture, installation and service. As you should expect, this includes ensuring economical, efficient, low-emission performance that is required of steam, hot water and process application boilers.

Important Factors In Selecting A Boiler Service Company

An AFE (Association for Facilities Engineering) survey shows that 54% of building engineers chose response time as the most important factor in selecting a boiler service company. Carrier understands that when you need help, you need it right now.

To engineers, the saying "time is money" really means "boiler downtime is lost money." To help you minimize any downtime, we respond with a nationwide network of commercial service representatives who are on call 24/7/365.

And not just for repairs. We're industry leaders in burner retrofits, controls upgrades, full system replacements, and routine maintenance. So, if response time is important to you, call Carrier.

Purchasing and installing a boiler of any type is an expensive proposition, but that expense is far surpassed by the lifetime expense of operation and maintenance. In order to protect and maximize your investment, you need to keep your boiler running safely and efficiently for as long as possible. And that's where Carrier comes in.

Our cross-discipline experience in the HVAC industry allows us to see the broader picture in every commercial and industrial application. When you call Carrier for chillers and other cooling and ventilation equipment service, you can also count on us to meet all your boiler and heating needs, integrating all the components for the very best overall comfort and performance. Carrier provides comprehensive boiler service for all major brands — 24/7/365. We invite you to consider the spectrum of our boiler services and also the depth of our reputation in the HVAC industry. When it comes to outstanding service of your boiler and heating equipment — from maintenance to repair or replacement to upgrades — you get the best when you contact Carrier. Regardless of your application, take advantage of Carrier's extensive equipment, controls and system knowledge to improve the efficiency and performance of your boiler.



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DANGER

AUTOMATIC EQUIPMENT

From Fast Response Time to Scheduled, Multi-Point Optimize Performance and Keep You Running

Your Carrier Service begins with a complete analysis of your boiler's elements, how each affects and interacts with other systems, and how your overall system is performing relative to safety, efficiency and reliability. From there we make recommendations that will help increase the operating efficiency and performance of your boiler. Whether your needs call for implementing a controls strategy, a burner retrofit or simple maintenance, your Carrier representative will provide you with expert engineering, excellent products and exceptional service in all applications of HVAC technology. Our problem-solving approach helps you get more out of your equipment. More control. More performance. More return on your investment.

Customizing Your Service Plan...

Carrier plans are customized to meet both your operational and financial needs. Your plan will be structured to maximize efficiency levels and prolong the life of your boiler system.

Carrier's Boiler Services include:

- Inspection & Start-up
- Emergency Service
- Controls Upgrades
- Boiler Rentals
- Remote Monitoring
- Repairs and Retubing
- Replacements
- Burner Repairs and Retrofits
- Preventive & Predictive Maintenance
- Combustion Analysis & Tuning
- Refractory Repair & Installation

CASE STUDY: Casino/Retrofit



Harrah's Hotel Casino complex in Reno, Nevada, was faced with gas prices that jumped 55% in a single year. They needed to improve boiler efficiency or endure the burden of escalating operational expenses. They chose Carrier to retrofit seven of their boilers with a Combustion Management System that is capable of increasing combustion efficiency to approximately 82%.

The Result

A recent analysis shows a 42% decrease in boiler emissions and tremendous savings in operating costs. The retrofit saved Harrah's \$67,614 in natural gas, \$41,064 in electricity, and \$20,000

Perhaps you are looking for service on an "as-needed" basis. Maybe you would rather have a multi-year coverage plan, or one that meets your own unique requirements. From one time to all the time for any major brand, you can always turn to the experts at Carrier for service solutions to match your specific needs.

MONITORING

Our service can be as basic as monitoring the operation of a single boiler. This includes identifying problem conditions, recording and tracking operating data, providing comprehensive reports, and dispatching emergency service when needed.

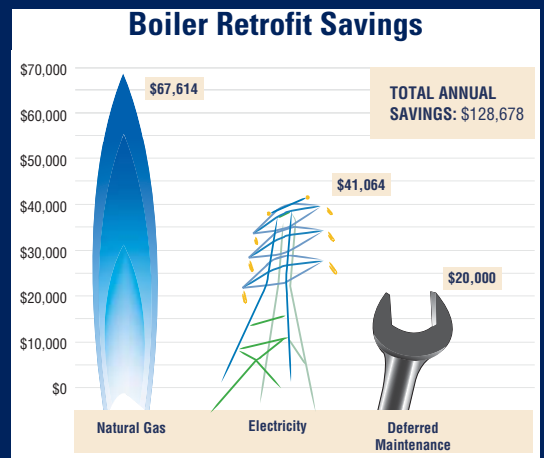
CONTROLS UPGRADES

Older, electromechanical controls can't offer the precision and versatility of today's integrated digital controls. In addition to greater control, an upgrade can allow you to continuously monitor and troubleshoot your entire system. These new, integrated controls permit more exact adjustments for improved performance, greater economy and safer operation.

REFRACTORY SERVICES

Whether it's inspection, repair or complete replacement, Carrier will ensure the refractory components of your boiler provides for adequate protection and safe operation.

in deferred maintenance. Total annual savings: \$128,678. And it doesn't stop there. Carrier replaced one of Harrah's boilers, saving the customer 30% in projected energy usage. That's what we're talking about when we say Carrier is "meeting needs and exceeding expectations."



1-Year Coverage – We'll Maximize Uptime, and Safely.

EMERGENCY SERVICE

Also known as "unscheduled service," our emergency service allows us to diagnose equipment conditions and perform minor adjustments or repairs. This is available to you on a 24-hour basis in combination with any of our other maintenance services.

BURNER RETROFITS

By installing a more advanced burner, we can modernize an old boiler to achieve better efficiencies and stricter compliance with emission regulations. A retrofitted burner helps reduce NOx levels by using combustion control techniques that are much more economical than post-combustion methods. Call Carrier for an energy-efficient, lower-emission retrofit burner.

PREVENTIVE MAINTENANCE

Carrier works with you to create a customizable preventive maintenance schedule that is designed to minimize downtime that requires disassembly. Minor repairs, leak testing, non-destructive testing and other services may be included to meet your unique needs. Our long-range preventive maintenance plan is perfect for providing whatever services you desire or require at intervals you determine, as well as repair or replacement of components that wear out as a result of normal usage.

REPLACEMENT

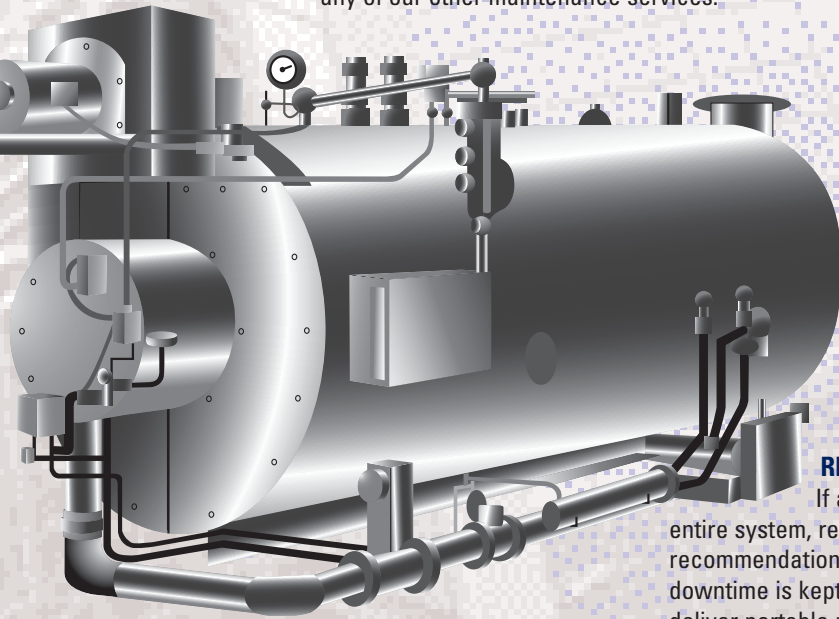
If and when the time comes to replace your current boiler or entire system, rest assured that Carrier will make equipment and controls recommendations that best fit your specific needs. And to make sure that downtime is kept at a minimum and comfort is kept at a maximum, we can deliver portable rental boilers on-site, usually within hours.

REPAIR & RETUBING

Whether it's a one time service call or part of a multi-year agreement, we come to the job with the same degree of expertise and commitment to quality workmanship. For a simple fix, non-destructive testing or boiler retubing, choose Carrier for reliable repair service.

INSPECTION MAINTENANCE

From basic equipment inspections, logging and adjustments, to equipment cleaning, replacement parts, materials and service that may require minimal disassembly — Carrier provides thorough reports and service recommendations that help operators monitor and forecast boiler operational efficiencies.



CASE STUDY: Hospital/Replacement



The American Legion Hospital in Crowley, Louisiana, was attempting to service their two old boilers when they discovered one of them had a leak. Before they could process a purchase order for replacements, the second boiler failed, leaving the Hospital without heat and dehumidification. Carrier got the news on Friday morning and immediately sent a crew to set up temporary boilers on-site and tear out the old boilers. We installed new boilers, air handlers, inter-

connecting pipe and had the Hospital back up and running by midnight on Saturday. That's removal and installation in less than 2 days.

The Result

Carrier's fast response time was crucial in this crisis situation. Normal delivery on the new boilers was estimated at 3 to 4 weeks, but we had them on the way in a matter of hours. This greatly reduced the rental time and expense of the portables, and got the Hospital up and running with the new, more economical, lower emission boilers. At best, the old boilers we replaced could only achieve 80% efficiency, but we replaced them with fin tube boilers rated at 93% efficiency. So, we not only met the Hospital's urgent needs, we also lowered operating expenses and protected air quality for years to come. And let's not forget the intangible benefit enjoyed by the customer — knowing that when you turn to the experts... you get results.

Turn to the Experts to Optimize System Performance!

Safety

While we pride ourselves on our rapid response 24/7/365 boiler service, we also have an uncompromising commitment to safety. Getting there quickly is important, but safety is absolutely essential on

Safety 1st

every service call. Whether it's for replacements, repairs, retrofits, upgrades or preventive maintenance, Carrier pledges to meet your servicing needs responsibly, responsibly and safely.

Repair

Scheduled maintenance goes a long way toward keeping your boiler operating at its peak performance. But things break. Emergencies occur. As with all equipment, boiler systems are susceptible to operational wear. Eventually, original operating specifications can only be maintained by repairing or replacing components. When this happens, Carrier offers everything you need to get your system up and running in the shortest possible time with the best possible results.

Replacement

So, your trusted boiler isn't doing the job anymore and an unexpected failure would shut down your building or jeopardize your business. Repairs have extended the life of the system somewhat, but now it's time for replacement. Carrier is ready with the equipment — control retrofits, boiler upgrades or entire system replacement — we can handle it. We even have rental boilers to help prevent downtime of your comfort or process heating system.



Retrofits & Upgrades

Burner retrofits and modifications can improve operating efficiencies while bringing an older boiler into compliance with newer, more stringent emission regulations. We can also upgrade your system with integrated boiler controls that are more intelligent, more accurate, more reliable and faster than older controls. This upgrade gives you precise control of the system and makes troubleshooting easier when an adjustment or repair is needed. And, with continuous system monitoring, it's easier to avoid downtime and improve performance efficiencies for lower operating costs.



And More...

In addition to maintenance, repairs and replacements, we provide system inspections, operational analyses and equipment enhancements. We service all major brands and we're ready to customize a service plan to meet your specific needs. It's exactly what you should expect when you turn to the experts!



We Know Boilers, Inside & Out

When you need immediate help with a boiler problem, you don't have time to sort through a list of companies that may or may not have serviced the equipment at one time or another. You need Carrier.

Simply reading a manufacturer's instruction book and going through a troubleshooting checklist is not enough. Carrier understands your needs as well as your boiler's capabilities, regardless of the manufacturer, and we strive for increased uptime of your boiler system. We partner with you to maintain safety, improve efficiency of operation and prolong the life of your equipment, and we do this in both emergency and routine servicing of your system.

We Provide...

- Maintenance & Repairs
- 24/7/365 Service
- System Optimization
- Retubing
- Burner Retrofits (low NOx)
- Controls Upgrades
- Replacement
- Monitoring
- Refractory Services

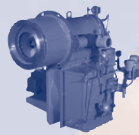
You Get...

- Safe Operation
- Maximized Uptime
- Reduced Operating Costs
- Prolonged Equipment Life
- Reduced Emissions
- Peace of Mind!

Experience all the advantages when you place your confidence — and your HVAC/R equipment — in the hands of the industry leader. To learn more about Carrier's comprehensive list of products, services and successes, or to find an office nearest you, visit us online at: www.commercialhvacservic.carrier.com

Carrier Boiler Services...

And you thought we just kept you cool!



As the world leader in Heating, Ventilation and Air Conditioning, Carrier is committed to continually improving the quality of comfort we provide to our customers.

But our level of responsibility extends well beyond...

Carrier Corporation has identified six specific areas which directly impact how we, as a world manufacturer, balance our customers' needs for comfort with the environment's needs for responsible consumption.

These symbols graphically represent our six areas of concentration and will serve as visual reminders of the importance of managing our finite resources.

Each one of us at Carrier Corporation believes that, for generations to come, success will not only be measured by the quality of our products and systems, but also by how we have improved the quality of life.

