
BURNHAM CORPORATION

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International Sales Product Selection Guide



International Manufacturer of:

Water Tube Boilers
Cast Iron Boilers
Firetube Boilers
Copper Boilers

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Burnham Corporation, a \$225 million heating equipment manufacturer headquartered in Lancaster, Pennsylvania, is a leading manufacturer of packaged boilers. Burnham Corporation consists of eight companies with manufacturing locations throughout the United States; there are eight distinct brand names, and products are marketed worldwide through authorized representatives. For over 140 years, Burnham Corporation's goal has been to produce high value, high quality products backed by superior service—a goal we strive to meet everyday.



Four types of boilers are produced by Burnham Corporation that produce hot water and low and high pressure steam for your heating or process application needs. These 4 types are:

**Water Tube
Firetube**

**Cast Iron
Copper**



These various types of boilers are produced by Burnham under four different brands.



These brands also include boiler room accessories for large commercial and industrial applications.

Underlying Burnham Corporation's long-term success is its development and engineering capability that ensures the Company's industry leadership with highly efficient, environmentally safe, state-of-the-art products. This combined with market coverage depth and extensive distribution channels makes Burnham Corporation not only "America's Boiler Company", but "**The World's Boiler Company**".

Burnham Corporation, for more than a decade, has maintained an office with a full-time staff dedicated to serving our worldwide network of authorized international sales representatives. For more information, contact us at intlsales@burnham.com or visit www.burnhamintl.com.

Water Tube Boilers



Bryan Steam is a pioneer and leader in the development of flexible water tube boilers. The company was established in 1916, as a steam powered tractor manufacturer, by its founder George Bryan—a locomotive engineer and steam power enthusiast. In 1922, the rising popularity of the gasoline engine forced Bryan to abandon the steam tractor, but the advantages of a flexible tube steam generator were not forgotten. Now Bryan Steam is able to apply the lessons learned from past experience to products to meet today's demanding requirements. That is why Bryan has been the leader in the production of flexible water tube boilers for more than 75 years.



K Series

Guarantee Against Thermal Shock:

The unique flexible bent tube design protects Bryan boilers against damage by thermal shock and related problems. In fact, all Bryan boilers are backed by a 20 year guarantee against damage caused by thermal shock. The flexible tubes in Bryan boilers are also easily removable and replaceable allowing for quick and simple boiler maintenance.



CL Series

Gas and Oil Fired:

Bryan features an extensive line of gas, oil, and dual-fired boilers for any hot water or steam application. Each boiler provides the durability and reliability associated with the Bryan name in a minimal amount of floor space. Bryan's product lines include atmospherically fired units in sizes from 250 to 6500 MBH and forced-draft fired units in sizes from 250 to 21000 MBH.

Electric Boilers:

Bryan's electric boilers are compact units that arrive completely packaged and wired. They feature automatic controls and incoloy sheathed heating elements and are available for a variety of steam and hot water applications. Capacities range from 15 to 3000 KW.



BH-Series Electric Boiler

Knockdown Units:

In addition to arriving fully packaged and ready to go, some Bryan boilers are provided in a knockdown configuration for on-site assembly. This option is ideal when space or building access is limited, for example in boiler replacement projects.

Boiler Room Accessories:

Bryan's complete line of boiler room accessories includes: shell and tube heat exchangers, condensate return and boiler feed pump systems, blowdown separators, deaerators, water softeners and chemical feed systems. Design your complete system using Bryan components for maximum reliability and value.



Multiple Pump Feed System



U-type Heat Exchanger

Cast Iron Boilers



Burnham Cast Iron boilers use castings that are poured, finished, and assembled at its own Zanesville, Ohio, USA foundry facility. This has been done for over 130 years—something no other competitor can say.



Cast Iron Section Assembly

Burnham's current line of heavy duty cast iron boilers range in capacity from 31 to 4,551 MBH. They arrive fully packaged or as a knockdown unit and are fired by either gas, oil, or combination gas and oil. These units are assembled with cast iron nipples that expand and contract at the same rate as the cast iron sections. This allows the best seal while remaining immune to petroleum-based chemicals and boiler flue gases that can deteriorate gaskets used in other boilers.

Series 2 Gas Boiler:

The Series 2 boiler combines cast iron durability with the simplicity of atmospheric draft design and has capacities of 31 - 244 MBH for hot water applications. The versatile Series 2 features a durable sectional cast iron heat exchanger, enhancing efficiency and improving performance, and is backed by a lifetime limited warranty.



Series 2

Series 8B Gas Boiler:

The Series 8B boiler delivers heating capacities of 212 - 475 MBH for hot water applications. This compact, atmospheric draft boiler is ideal for residential or commercial jobs either in a single or multiple boiler arrangement.

Series 5B Gas Boiler:

Burnham's Series 5B offers the capacities and features that make it ideal for commercial, institutional, and high rise heating applications. This knockdown unit features heating capacities of 320 - 1560 MBH for steam or hot water applications.



Iron Nipples

V-9 Series Gas, Oil, or Combination Forced Draft Boiler:

Burnham's V-9 forced draft boiler can arrive fully packaged or as a knockdown unit, and the assembled V-9 will fit through a 36" doorway. It features heating capacities of 346 - 1,900 MBH for low pressure steam or hot water applications. It can also be vented from the top or rear enabling easy chimney or outside-wall venting for maximum installation flexibility.

V-11 Series Gas, Oil, or Combination Forced Draft Boiler:

The V-11 forced draft boiler is available as a packaged or knockdown unit and is available in twenty sizes ranging from 667 - 4,551 MBH for steam or hot water applications. The V-11 provides optimum draft for controlled combustion and maximum efficiency which eliminates the need for high chimneys or induced draft fans.



V9 Series

Firetube Boilers

For years, specifying engineers and contractors have turned to Burnham Industrial for quality steel firetube boilers when their jobs have called for reliable, durable equipment. Ideal in commercial and industrial applications, Burnham Industrial has nearly 140 years of manufacturing expertise in producing boilers for steam and hot water systems.

This tradition of excellence continues today with Burnham Industrial's Scotch Marine and Firebox product lines and accessories. When you compare both quality and features with competitive boilers, you'll see why Burnham Industrial is the source for dependable firetube boilers.

Scotch Marine:

Burnham Industrial offers Scotch Marine boilers from 40 - 1000 BHP. They are available in forced-draft firing with oil (No. 2-6), gas, or a combination of gas/oil in both high and low pressure steam and hot water applications. This is the **three-pass wetback** boiler that provides you with the hi-efficiency and low maintenance costs you've come to expect from this superior design.

Firebox:

Burnham Industrial offers a variety of Firebox boilers including the Series 4F—the consistent sales leader in the commercial heating industry. The Series 4F is available in sizes ranging from 12 - 619 BHP and features a compact and efficient **three-pass wetback** design that allows it to fit in jobs where other boilers of similar capacities cannot.

The Series E (20 - 80 BHP) for gas, oil, or combination features a high-efficiency **three-pass** design and the Thermablok reversing chamber. This is designed to fit through a 36" opening making it ideal for replacements.

Boiler Room Accessories:

Burnham Industrial's complete line of boiler room accessories includes: deaerator systems, water softener systems, boiler feedwater systems, compact feed systems, chemical feed systems, bottom blowdown, and surface blowdown / heat recovery systems.



Series 3
Scotch Marine



Series 4F
Firebox



Series E
Firebox



Compact Feed



Copper Boilers

Thermal Solutions draws upon over 125 years of proven heat transfer engineering and product experience and manufactures a complete line of high efficiency copper-tubed boilers. These products meet the growing concerns of today's commercial and industrial applications and are simply the first of many technological innovations in the company's effort. Thermal Solutions is always exploring new and better ways to approach the unique challenges of today's engineers, architects, and building owners.

Without question, Thermal Solutions' products are the most advanced, best-designed copper-finned boilers on the market. Each boiler undergoes a rigorous series of quality control tests including a complete factory fire-test. They operate at 88% thermal efficiency with NOx ratings as low as 9.9 ppm and are available in space-saving footprint sizes ranging from 250,000 to 2,000,000 BTU with full modulating and outdoor usage options. It's easy to see why Thermal Solutions boilers are becoming the most widely accepted and installed copper boiler today.



Water Boiler

High Efficiency Water Boiler (EVH):

Thermal Solutions' heating boiler takes the very best of existing copper-finned boiler technology and combines real-life serviceability, unique timesaving controls, advanced yet simple combustion, and exceptional heat transfer. This advanced design results in a compact, quick-connect package.



Outdoor Unit

Water Heater (EVHW):

This water heater uses all non-ferrous construction, including cast bronze upper and lower manifolds, to heat domestic (potable) hot water. While still using the copper-finned boiler technology, it offers you superior value in the widest capacity range (120 - 2,500 gallons) in the industry.

ECCS Control System:

Thermal Solutions' designed ECCS Control System allows the user to operate multiple boilers and pumps using a programmable logic controller. The self-contained PLC-based system uses modbus software for outside communication that can be tied into DDC systems and the Internet. The ECCS is equipped with a boiler and pump sequencing control that provides maximum efficiency and performance of the system. The system also allows for monitoring and customization through a user-friendly touch screen.