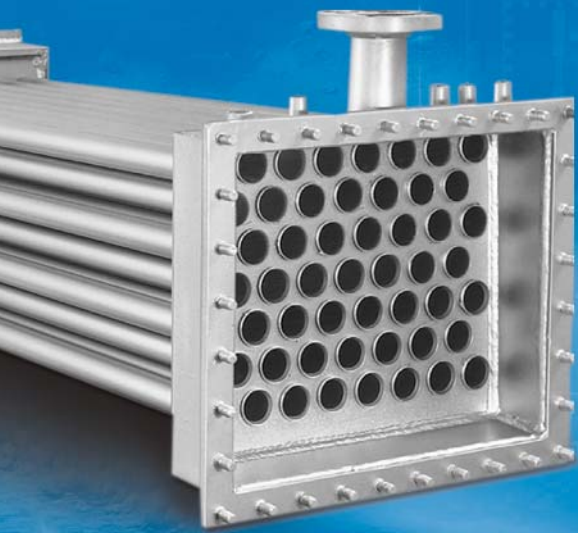




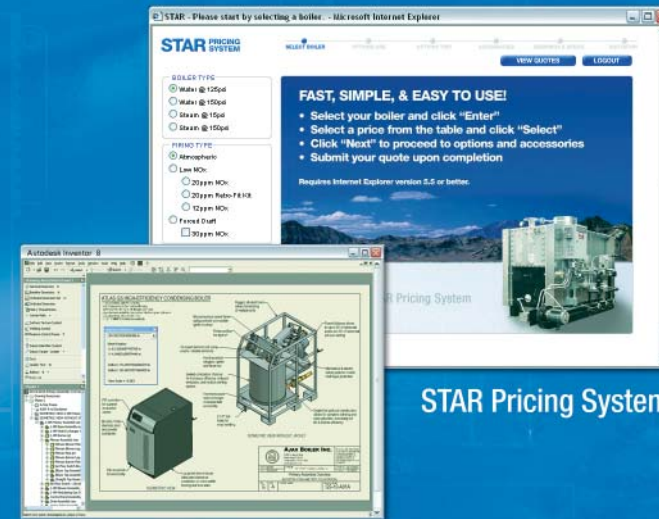
AJAX BOILER INC.

AJAX Series • ACE Series • ATLAS Series





Ajax Tube Bundle Assembly



Advanced 3D Modeling

STAR Pricing System



Interactive Website

One Company... Three Great Brands!

Ajax Boiler, Inc. designs and manufactures a comprehensive line of boiler and commercial water heating products. With over eight decades of experience, the company offers high quality, heavy duty products with reputations for reliability, serviceability, and cost effective operation.

The administrative offices and manufacturing facility of Ajax Boiler, Inc. are located in Santa Ana, California. All products are designed and engineered by our in-house engineering department. Their experience and expertise combine the disciplines of combustion and heat transfer technology, pressure vessel design, control and systems engineering, and computer aided design. Our on-site R&D facility has the capacity to test fire boilers up to 21 MMBTU/hr. under load conditions with calibrated test equipment that meet all UL certification testing requirements.

The company currently offers three distinct product lines; the Ajax Series for the commercial boiler market, the Ace Series for the water heating market, and the Atlas Series for the high-efficiency, condensing boiler and water heating markets. Product lines are distributed by more than 70 sales representatives located throughout the United States and Canada.



Factory Assembly Line - Santa Ana, California
Ace Series Water Heaters (Model B15)

Ajax Series (Space Heating and Process Steam & Hot Water)

- Inclined water tube boilers
- High & low pressure steam boilers
- Unfired steam boilers
- Heat Exchangers
- Tanks (Flash, Air Receiver, Expansion, Blow Down, and Condensate Return & Feedwater)

Ace Series (Plumbing and Domestic Hot Water)

- Mini-Pack semi-instantaneous, indirect water heaters
- Gas-fired conical copper fin water heaters
- Indirect storage water heaters
- Tanks (Storage)

Atlas Series

- High-efficiency, condensing boilers and water heaters

Fast, Simple, & Easy to Use

Ajax Boiler is driven by a commitment to provide solid products, great value, and outstanding customer service. Part of that commitment includes recent investments in our information systems infrastructure. By working closely with customers and end users, Ajax Boiler has developed a series of powerful, web-based tools to give you the right information, in the right format, at the right time.

Online Tools: New & Improved Content

The Ajax Boiler information system begins with its website (www.ajaxboiler.com). As an information portal, the site is rich with product information and offers two distinct areas. The public area is for the general public and highlights our products and company. The area includes case studies, product specs., submittal & sizing tools, wiring & piping diagrams, hook-up diagrams, and more! The representative area maintains the same look & feel, but offers even more information tools. From the latest technical and marketing documentation to CAD drawings and diagrams, pricing and configuration tools, and our brand new online parts database, the Ajax Boiler website is a valuable information resource.

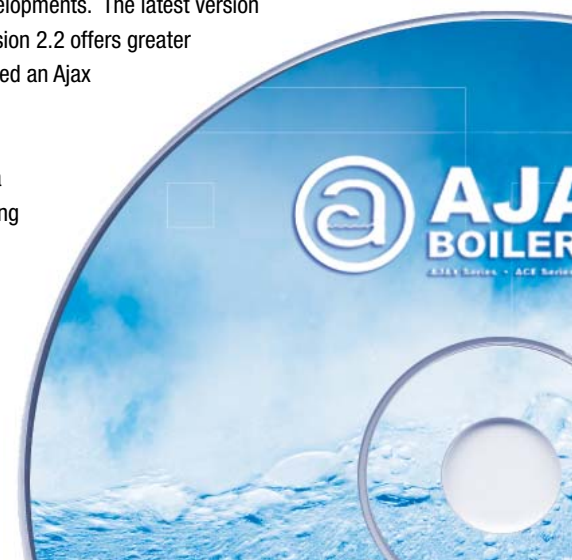
STAR Sizing and Submittal Programs

The STAR family of web-enabled sizing and submittal tools has been expanded with several recent developments. The latest version of the Ajax product configuration program was launched in January, 2004. Now fully web-enabled, version 2.2 offers greater functionality and more flexibility. The interface was designed with help from industry experts who wanted an Ajax configuration tool that was fast, simple, and easy-to-use.

Another innovation is the development of our computerized, online sizing program. Whether you need a semi-instantaneous water heater, a process heat exchanger, or an unfired steam generator, the new sizing program combines a powerful sizing engine with a simple user interface. In just two minutes and a couple of clicks, you can optimally configure a product that's right for your application.

Electronic Documentation

Printed literature are available upon request and updated annually. Documentation and drawing is also available online in a variety of file formats. Visit our website for periodic version updates.



ATLAS SERIES

AJAX SERIES



Second Generation
Atlas Series Condensing Boiler

High Efficiency Condensing Boilers

Launched in 2003, the Atlas Series is Ajax Boiler's newest product line and represents the company's most extensive R&D project to date. Adding condensing boiler applications to the company's capabilities, the new second generation Atlas Series boilers are currently available from .50 to 3.0 MMBTU/hr. sizes and provide high performance, feature rich, low NOx operation.

The development history of the company's first condensing boiler is impressive. Over the span of several years, Ajax engineers worked extensively with application experts to refine the Atlas project. The Atlas Series boiler combines solid engineering and innovative design with the highest quality components in the industry.



5 Atlas Series condensing boilers installed at the downtown Los Angeles Hilton (Models GS 1.0)

Product Highlights

- 98% thermal efficiency
- Up to 7.5 to 1 turndown
- Fully modulating PID controller
- Brushed aluminum & powder-coated jacket
- Front removable heat exchanger assembly for easy serviceability
- Equipped with 5 temperature inputs (inlet, outlet, header, stack and outdoor temp.) and can be viewed on the front panel LCD display.
- Single pass coil construction allows for complete delimiting
- Sealed combustion chamber for increased efficiency and reduced emissions
- ETL listed to UL 795 and CAN1-3.1
- ASME Section IV HLW rated to 160 psig.

The second generation Atlas Series condensing boiler is now available in 7 models with a variety of options and configurations. Please contact your local sales representative for complete product specifications, product literature, and technical documentation.



Quality, value, and service since 1919.

WRFG-3770



Proven Design & Reliability

For over eight decades, the Ajax name has meant solid construction and lasting durability. Whether specified for space heating, domestic water with secondary heating coil, process steam or hot water, Ajax Boiler has consistently offered products that provide for low maintenance and decades of reliable service. For Ajax products, easy maintenance means using only non-proprietary water tubes. Ajax water tubes are individually serviceable, can be visually inspected, and mechanically cleaned in place. Boilers are UL & ETL listed for natural gas, oil, and propane fuels.

Water Boilers: Solid & Reliable

With capacities that range from .15 to 21 MMBTU/hr., Ajax inclined water tube boilers feature water tubes that are individually rolled into a header assembly and supported by a rugged steel frame. Built-in expansion joints prevent thermal shock by allowing the tube bundle to float freely during expansion and contraction. The inclined tube configuration eliminates air bubbles and provides low pressure drop circulation.

High & Low Pressure Steam Boilers

The Ajax Series also includes a comprehensive line of high and low pressure steam boilers ideal for a variety of applications. Available in sizes up to 300 BHP, Ajax steam boilers feature a large steam drum design to enhance performance by providing a more stable water level and larger vapor space. This allows for more consistent feed water and blowdown operations while reducing water level fluctuations inherent in other water tube designs.

Low NOx: Premix 12 & 20 ppm NOx Systems

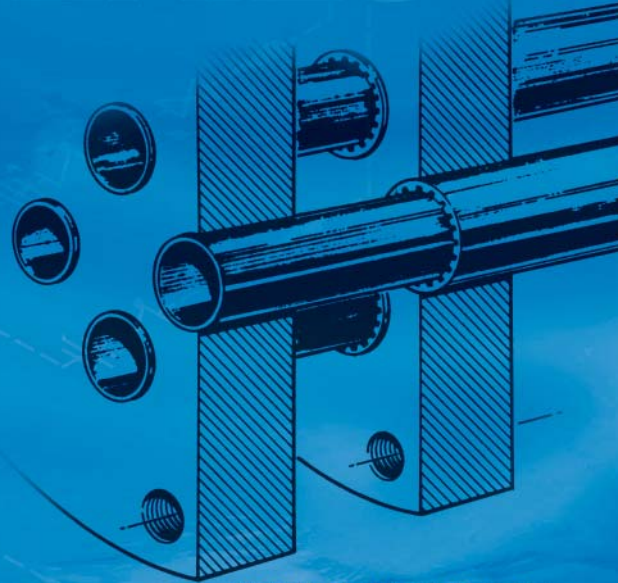
Ajax Boiler has been offering low NOx boiler systems since 1989. As a leading supplier of gas-fired boilers and water heaters with reduced NOx combustion, Ajax Boiler continues to meet the tough requirements set by the California's South Coast Air Quality Management District; the benchmark for emissions standards. Simple and reliable, our advanced premix 12 and 20 ppm NOx burners are designed specifically for low NOx Ajax Series boilers and Ace Series water heaters. 20 ppm systems are available up to 7 MMBTU/hr. 12 ppm systems are available from 2 to 7 MMBTU/hr. 30 ppm forced draft systems are also available. All are Rule 1146.2 pre-certified up to 2 MMBTU/hr. by the SCAQMD. As emission control standards become more restrictive, let our 15 years of low NOx experience meet all of your low emission needs.



The cast iron, atmospheric burner provides a shorter flame and cleaner combustion.



Mini-Pack



360° Vented Leak Detection

Engineered Hot Water Systems

Mini-Pack: Semi-Instantaneous, Potable Water Heater

As one of Ajax Boiler's most successful products, the Ace Series Mini-Pack is a cost-effective, low maintenance domestic water heating package. Features include: single or double-wall copper tubing, extensive use of stainless steel and copper, an easily accessible tube bundle, and a high efficiency, sub-cooled design. Units are available with multiple trim options and are compatible with a variety of self-operated, pneumatic, electric, and magnetic control valves. The Mini-Pack is offered in both the space-saving vertical configuration and a rack-mounted, single or multi-unit horizontal configuration. All Mini-Packs benefit from a time-tested, proven design and thousands of successful field applications.

Gas-Fired Water Heaters and Packaged Systems

Ace Series packaged water heating systems are engineered to handle a wide range of load demands in a variety of applications. Whether for apartments, motels, schools, hospitals, or restaurants, our packaged systems are the perfect choice when meeting peak load demand is an important selection criteria.



Ace Series Copper Fin Conical Coil

Storage Water Heaters

The Ace Series storage water heaters provide for peak load output and use off-peak boiler capacity. Units are available in a variety of configurations to meet a wide range of requirements for temperature rise and G.P.H. recovery. Features include: tube bundle or electric heating elements, control valves, wiring, piping, circulating system, insulation, and skid mounting with a compatible gas-fired heater.

Tanks

Through its Ace Series, Ajax Boiler specializes in the design and manufacture of A.S.M.E. code "hot water storage" tanks for all types of volume hot water requirements. We currently offer a broad selection of tank linings to extend the life of the tank and insure clean, safe, potable water.



Ace Series Packaged Storage Water Heater with Gas Fired Heater (Models VG4205 & B11G)

CASE STUDIES

Space Heating for Convention Center

Challenge

The Anaheim Convention Center, home of the 2004 AHR Expo, recently celebrated the completion of a multi-year, \$177 million redesign and expansion. The expansion increased the size of the convention center by 40% to 1.7 million sq. ft. With glass walls in the main lobby soaring an impressive 190 feet, the facility offers more than 800,000 sq. ft. of exhibit space, 200,000 sq. ft. of pre-function space, and 130,000 sq. ft. of meeting space. As part of the redesign, facility engineers needed new boilers to handle the facility's expanded space heating requirements.

Solution

Ajax Boiler supplied three WFG-11500 boilers (11.5 MMBTU/hr. per unit). The facility manager uses the three boilers in a lead/lag configuration which gives the convention center the ability to turn boilers on and off to meet varying heat load requirements. Additional benefits include a substantial savings on gas expenses and the ability to shut down a single boiler for service without any interruption in heat for convention center attendees.



Anaheim Convention Center: 3 WFG-11500 Boilers

Domestic Hot Water for Marriott Hotel

Challenge

The San Francisco Marriott boasts 1,500,000 sq. ft., 1,500 luxury guest rooms, and 100,000 sq. ft. of meeting space. Every day, the hotel consumes an average of 165,000 gallons of water. Peak loads average 9,500 to 12,500 gallons per hour. The static hydraulic pressure created by locating the boiler room at the basement level of the 39-story high-rise building required the use of high pressure vessels.



Two 10,000 gallon storage water heaters installed at the San Francisco Marriott Hotel

Solution

Seven Ace products were selected to meet the project's demanding needs. The equipment featured high-pressure, double-wall heating tube bundles to keep the hotel's water usage operating at maximum efficiency and safety. Domestic hot water is supplied by two 10,000 gallon storage water heaters. Two 770 gallon storage water heaters supply the banquet and ballroom facilities. Water heating for the pool and Jacuzzi is provided by two Ace heat exchangers. According to Bill Kane, Director of Energy Management at the Marriott, "The Ace products have required little more than

daily meter readings and some control adjustments," Mr. Kane reports. "Temperatures are tracked closely, and Ace equipment continues to perform on target." The boiler room's performance has not gone unnoticed. Tours are conducted regularly by visiting engineers from all over the world.

DISTRIBUTED BY

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