

Industrial Boilers Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Fire-tube, Water-tube and Others), By Function (Hot Water and Steam), By Fuel Type (Natural Gas & Biomass, Oil and Coal), By End User (Food & Beverages, Chemical, Oil & Gas, Manufacturing and Others), By Region & Competition, 2021-2031F

<https://marketpublishers.com/r/I0816CD01BCAEN.html>

Date: May 2026

Pages: 180

Price: US\$ 4,500.00 (Single User License)

ID: I0816CD01BCAEN

Abstracts

The Global market for industrial boilers is expected to expand from USD 13.39 billion in 2025 to USD 17.87 billion by 2031, reflecting a compound annual growth rate (CAGR) of 4.93%. These closed pressure vessels, which generate steam or heat water through the combustion of diverse fuels, provide essential thermal energy for manufacturing operations and power generation. The market's worldwide growth is mainly fueled by rising energy needs in heavy manufacturing industries and extensive efforts to modernize outdated plant facilities. Additionally, strict regulatory requirements focused on energy efficiency are driving plants to implement modern thermal technologies.

Based on data from the American Boiler Manufacturers Association in 2025, most industrial boiler sales were concentrated in the capacity range of 5 to 100 million British thermal units per hour. Even with this robust demand, the industry encounters a major hurdle due to the steep upfront capital costs needed for environmental compliance and system transitions. The hefty expenses tied to the installation of low-emission solutions frequently discourage smaller businesses from modernizing their setups, ultimately hindering wider market growth.

Market Driver

Strict environmental laws requiring the use of low-emission boilers act as a major catalyst for the global market as governing bodies implement strict air quality rules. In an effort to reduce harmful emissions, regulators are compelling industrial facilities to modernize their outdated thermal equipment, necessitating the adoption of cleaner combustion technologies. As reported by Connell Foley LLP in March 2026 within the 'EPA Issues Final Rule on Oil fired Boiler and Area Source Boiler Emissions Standards', revised standards for area source boilers impact approximately 183,000 units across the United States. This extensive regulatory framework ensures a continuous replacement cycle, thereby broadening the market for compliant heating systems.

The rapid shift toward boilers fueled by natural gas and biomass serves as another crucial driver of market expansion. To meet corporate decarbonization goals, heavy industries are progressively swapping out coal-dependent heating systems for more sustainable fuel alternatives. These greener fuels deliver strong thermal performance while reducing carbon emissions, necessitating the use of specialized combustion chambers. As noted by Babcock and Wilcox in November 2025 in 'Babcock and Wilcox to supply natural gas fired boilers', the firm won a contract worth over \$1.5 billion to provide four natural gas-fired boiler facilities. Moreover, the sector shows strong financial readiness to back these infrastructure improvements. In 2026, Babcock and Wilcox announced a global continuing operations backlog of \$2.8 billion, a figure that highlights the substantial funds currently dedicated to upgrading thermal systems on a global scale.

Market Challenge

The heavy capital outlay necessary for achieving environmental compliance and upgrading to modern thermal systems forms a significant financial obstacle within the global industrial boilers market. Modernizing plant infrastructure to comply with stringent emission rules necessitates massive initial spending. Because small and medium-sized businesses function on tight capital constraints, the steep price of implementing low-emission technologies directly limits their buying ability. Consequently, these monetary constraints postpone equipment replacement cycles, compelling organizations to prolong the use of aging thermal systems rather than purchasing new equipment.

Based on a 2025 report from the Council of Industrial Boiler Owners, organizations might encounter environmental compliance expenses that account for roughly 5 percent of their yearly earnings. This fiscal strain diminishes the funds accessible for more

extensive infrastructure improvements. By reducing the number of purchasers who can finance total system replacements, these regulatory expenses methodically decelerate the rate of market adoption. Ultimately, the necessity to bear such steep upfront financial burdens hinders regional market expansion, placing new boiler systems beyond the financial grasp of numerous industrial users.

Market Trends

The incorporation of Internet of Things (IoT) and smart boiler innovations is a prominent trend reshaping industrial thermal management. Plants are currently outfitting their pressure vessels with intelligent sensors and digital interfaces, shifting from reactive repairs to predictive monitoring. This digital transformation grants operators real-time insights into essential metrics, allowing for the continuous optimization of combustion processes. Such automation not only cuts down on fuel costs but also improves safety in the workplace. As detailed in the 'HARDWARIO Press Release HPR.251219.01' from December 2025, the company revealed a partnership aimed at creating a smart boiler room network, backed by a grant of roughly CZK 24 million.

The shift toward modular and packaged boiler configurations is modifying purchasing approaches throughout the manufacturing industry. Instead of building custom-engineered setups directly on the premises, companies are opting for pre-assembled units built in controlled factory settings. This method significantly reduces installation times and labor costs while providing exceptional scalability. Industrial sites can link several compact modules in a parallel setup, running exactly the number needed to accommodate varying thermal demands. As stated by Taishan Group in September 2025 under the title 'How Much Does an Industrial Gas Fired Boiler Cost', acquiring small packaged boilers capable of producing up to 5 tons per hour involves an investment between \$100,000 and \$200,000.

Key Market Players

Mitsubishi Heavy Industries Marine Machinery & Equipment Co. Ltd.

General Electric Company

Harbin Power Equipment Co. Ltd.

IHI Corporation

Babcock & Wilcox Co.

Thermax Ltd.

Doosan Heavy Industries & Construction

Dongfang Electric Corporation Ltd.

Bharat Heavy Electricals Ltd.

Robert Bosch GMBH

Report Scope

In this report, the Global Industrial Boilers Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Industrial Boilers Market, By Type

Fire-tube

Water-tube

Others

Industrial Boilers Market, By Function

Hot Water

Steam

Industrial Boilers Market, By Fuel Type

Natural Gas & Biomass

Oil

Coal

Industrial Boilers Market, By End User

Food & Beverages

Chemical

Oil & Gas

Manufacturing

Others

Industrial Boilers Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Industrial Boilers Market.

Available Customizations:

Global Industrial Boilers Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL INDUSTRIAL BOILERS MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Fire-tube, Water-tube, Others)
 - 5.2.2. By Function (Hot Water, Steam)
 - 5.2.3. By Fuel Type (Natural Gas & Biomass, Oil, Coal)
 - 5.2.4. By End User (Food & Beverages, Chemical, Oil & Gas, Manufacturing, Others)

- 5.2.5. By Region
- 5.2.6. By Company (2025)
- 5.3. Market Map

6. NORTH AMERICA INDUSTRIAL BOILERS MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Type
 - 6.2.2. By Function
 - 6.2.3. By Fuel Type
 - 6.2.4. By End User
 - 6.2.5. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Industrial Boilers Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Type
 - 6.3.1.2.2. By Function
 - 6.3.1.2.3. By Fuel Type
 - 6.3.1.2.4. By End User
 - 6.3.2. Canada Industrial Boilers Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Type
 - 6.3.2.2.2. By Function
 - 6.3.2.2.3. By Fuel Type
 - 6.3.2.2.4. By End User
 - 6.3.3. Mexico Industrial Boilers Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Type
 - 6.3.3.2.2. By Function
 - 6.3.3.2.3. By Fuel Type
 - 6.3.3.2.4. By End User

7. EUROPE INDUSTRIAL BOILERS MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Type

7.2.2. By Function

7.2.3. By Fuel Type

7.2.4. By End User

7.2.5. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Industrial Boilers Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Type

7.3.1.2.2. By Function

7.3.1.2.3. By Fuel Type

7.3.1.2.4. By End User

7.3.2. France Industrial Boilers Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Type

7.3.2.2.2. By Function

7.3.2.2.3. By Fuel Type

7.3.2.2.4. By End User

7.3.3. United Kingdom Industrial Boilers Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Type

7.3.3.2.2. By Function

7.3.3.2.3. By Fuel Type

7.3.3.2.4. By End User

7.3.4. Italy Industrial Boilers Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Type

7.3.4.2.2. By Function

7.3.4.2.3. By Fuel Type

7.3.4.2.4. By End User

7.3.5. Spain Industrial Boilers Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Type

7.3.5.2.2. By Function

7.3.5.2.3. By Fuel Type

7.3.5.2.4. By End User

8. ASIA PACIFIC INDUSTRIAL BOILERS MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Type

8.2.2. By Function

8.2.3. By Fuel Type

8.2.4. By End User

8.2.5. By Country

8.3. Asia Pacific: Country Analysis

8.3.1. China Industrial Boilers Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Type

8.3.1.2.2. By Function

8.3.1.2.3. By Fuel Type

8.3.1.2.4. By End User

8.3.2. India Industrial Boilers Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Type

8.3.2.2.2. By Function

- 8.3.2.2.3. By Fuel Type
- 8.3.2.2.4. By End User
- 8.3.3. Japan Industrial Boilers Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Function
 - 8.3.3.2.3. By Fuel Type
 - 8.3.3.2.4. By End User
- 8.3.4. South Korea Industrial Boilers Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By Function
 - 8.3.4.2.3. By Fuel Type
 - 8.3.4.2.4. By End User
- 8.3.5. Australia Industrial Boilers Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By Function
 - 8.3.5.2.3. By Fuel Type
 - 8.3.5.2.4. By End User

9. MIDDLE EAST & AFRICA INDUSTRIAL BOILERS MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Function
 - 9.2.3. By Fuel Type
 - 9.2.4. By End User
 - 9.2.5. By Country
- 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Industrial Boilers Market Outlook

- 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
- 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Type
 - 9.3.1.2.2. By Function
 - 9.3.1.2.3. By Fuel Type
 - 9.3.1.2.4. By End User
- 9.3.2. UAE Industrial Boilers Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type
 - 9.3.2.2.2. By Function
 - 9.3.2.2.3. By Fuel Type
 - 9.3.2.2.4. By End User
- 9.3.3. South Africa Industrial Boilers Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Type
 - 9.3.3.2.2. By Function
 - 9.3.3.2.3. By Fuel Type
 - 9.3.3.2.4. By End User

10. SOUTH AMERICA INDUSTRIAL BOILERS MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By Function
 - 10.2.3. By Fuel Type
 - 10.2.4. By End User
 - 10.2.5. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Industrial Boilers Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast

- 10.3.1.2.1. By Type
- 10.3.1.2.2. By Function
- 10.3.1.2.3. By Fuel Type
- 10.3.1.2.4. By End User
- 10.3.2. Colombia Industrial Boilers Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By Function
 - 10.3.2.2.3. By Fuel Type
 - 10.3.2.2.4. By End User
- 10.3.3. Argentina Industrial Boilers Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type
 - 10.3.3.2.2. By Function
 - 10.3.3.2.3. By Fuel Type
 - 10.3.3.2.4. By End User

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. GLOBAL INDUSTRIAL BOILERS MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers

- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

- 15.1. Mitsubishi Heavy Industries Marine Machinery & Equipment Co. Ltd.
 - 15.1.1. Business Overview
 - 15.1.2. Products & Services
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. SWOT Analysis
- 15.2. General Electric Company
- 15.3. Harbin Power Equipment Co. Ltd.
- 15.4. IHI Corporation
- 15.5. Babcock & Wilcox Co.
- 15.6. Thermax Ltd.
- 15.7. Doosan Heavy Industries & Construction
- 15.8. Dongfang Electric Corporation Ltd.
- 15.9. Bharat Heavy Electricals Ltd.
- 15.10. Robert Bosch GMBH

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

I would like to order

Product name: Industrial Boilers Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Fire-tube, Water-tube and Others), By Function (Hot Water and Steam), By Fuel Type (Natural Gas & Biomass, Oil and Coal), By End User (Food & Beverages, Chemical, Oil & Gas, Manufacturing and Others), By Region & Competition, 2021-2031F

Product link: <https://marketpublishers.com/r/I0816CD01BCAEN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/I0816CD01BCAEN.html>