

Water Tube Chemical Boiler Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Capacity (Below 10 MW, 10-30 MW, 30-100 MW, Above 100 MW), By Configuration (Single Drum, Double Drum), By Fuel Type (Coal, Natural Gas & Oil, Biomass), By Application (Power Generation, Industrial, Commercial), By Region, By Competition, 2020-2030F

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Report description:

Market Overview

The Global Water Tube Chemical Boiler Market was valued at USD 2.36 Billion in 2024 and is projected to reach USD 3.17 Billion by 2030, growing at a CAGR of 4.88% during the forecast period. This market encompasses the development, supply, and deployment of water tube boilers used in industrial sectors for generating high-pressure steam. Unlike fire-tube boilers, water tube boilers feature a design where water flows through the tubes and is heated by external gases, allowing for superior thermal efficiency and the handling of higher pressures. These systems are essential in industries such as chemical processing, power generation, food and beverage production, and petrochemicals. Their ability to deliver efficient energy solutions and withstand demanding operating conditions makes them a preferred choice for high-capacity, continuous industrial operations.

Key Market Drivers

Rising Demand for Energy-Efficient and Environmentally Friendly Solutions

The growing need for energy-efficient and sustainable technologies is a key driver propelling the demand for water tube chemical boilers. As industries confront stricter energy regulations and pursue reduced emissions, these boilers offer significant advantages with their high thermal efficiency and reduced fuel consumption. Water tube designs are particularly well-suited for high-pressure steam generation with lower environmental impact, helping facilities meet green energy goals. Their adaptability to utilize alternative fuels such as biomass, waste heat, or hydrogen enhances their appeal amid rising environmental compliance standards. With global initiatives favoring decarbonization, more companies are opting to replace outdated systems with efficient

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and eco-conscious boilers, positioning water tube chemical boilers as a critical component in industrial sustainability strategies.

Key Market Challenges

High Initial Capital Investment

Despite their long-term benefits, the adoption of water tube chemical boilers is often hindered by high upfront costs. The advanced engineering, specialized materials, and custom fabrication required for these high-efficiency systems significantly elevate procurement and installation expenses. Furthermore, integrating these boilers into industrial infrastructure involves skilled labor and complex setup processes, making them financially burdensome for small to mid-sized enterprises. While the operational savings and environmental compliance benefits are substantial over time, the initial capital required remains a barrier to broader market penetration.

Key Market Trends

Integration of Renewable Energy Sources

An emerging trend in the water tube chemical boiler market is the increasing integration with renewable energy systems. Driven by global sustainability mandates and rising demand for cleaner industrial energy solutions, these boilers are being optimized for use with biomass and waste heat recovery, enabling industries to lower both emissions and energy costs. Adoption of biomass-fired boilers is growing particularly in North America and Europe, supported by favorable policies and incentives promoting green energy. This shift is encouraging manufacturers to innovate and enhance boiler designs for compatibility with renewable fuels, aligning with the global transition toward environmentally responsible energy systems.

Key Market Players

- ALFA LAVAL
- Ariston Holding N.V.
- Babcock & Wilcox Enterprises, Inc.
- Babcock Wanson
- BM GreenTech Berhad
- Bosch Industriekessel GmbH
- Clayton Industries
- Miura America Co., LTD.
- Rentech Boiler Systems, Inc.
- Thermax Limited

Report Scope:

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

- Water Tube Chemical Boiler Market, By Capacity:
 - o Below 10 MW
 - o 10-30 MW
 - o 30-100 MW
 - o Above 100 MW
- Water Tube Chemical Boiler Market, By Configuration:
 - o Single Drum
 - o Double Drum
- Water Tube Chemical Boiler Market, By Fuel Type:
 - o Coal
 - o Natural Gas & Oil
 - o Biomass
- Water Tube Chemical Boiler Market, By Application:
 - o Power Generation
 - o Industrial
 - o Commercial

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- Water Tube Chemical Boiler Market, By Region:

o North America

□ United States

□ Canada

□ Mexico

o Europe

□ France

□ United Kingdom

□ Italy

□ Germany

□ Spain

o Asia-Pacific

□ China

□ India

□ Japan

□ Australia

□ South Korea

o South America

□ Brazil

□ Argentina

□ Colombia

o Middle East & Africa

□ South Africa

□ Saudi Arabia

□ UAE

□ Kuwait

□ Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Water Tube Chemical Boiler Market.

Available Customizations:

Global Water Tube Chemical Boiler 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).

Table of 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

1.3. Key Market Segmentations

2. Research Methodology

2.1. Objective of the Study

2.2. Baseline Methodology

2.3. Formulation of the Scope

2.4. Assumptions and Limitations

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- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation
- 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, and Trends
- 4. Voice of Customer
- 5. Global Water Tube Chemical Boiler Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value
 - 5.2. Market Share & Forecast
 - 5.2.1. By Capacity (Below 10 MW, 10-30 MW, 30-100 MW, Above 100 MW)
 - 5.2.2. By Configuration (Single Drum, Double Drum)
 - 5.2.3. By Fuel Type (Coal, Natural Gas & Oil, Biomass)
 - 5.2.4. By Application (Power Generation, Industrial, Commercial)
 - 5.2.5. By Region
 - 5.3. By Company (2024)
 - 5.4. Market Map
- 6. North America Water Tube Chemical Boiler Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Capacity
 - 6.2.2. By Configuration
 - 6.2.3. By Fuel Type
 - 6.2.4. By Application
 - 6.2.5. By Country
 - 6.3. North America: Country Analysis
 - 6.3.1. United States Water Tube Chemical Boiler 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 Capacity
 - 6.3.1.2.2. By Configuration
 - 6.3.1.2.3. By Fuel Type
 - 6.3.1.2.4. By Application
 - 6.3.2. Canada Water Tube Chemical Boiler Market Outlook
 - 6.3.2.1. Market Size & Forecast

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- 6.3.2.1.1. By Value
- 6.3.2.2. Market Share & Forecast
- 6.3.2.2.1. By Capacity
- 6.3.2.2.2. By Configuration
- 6.3.2.2.3. By Fuel Type
- 6.3.2.2.4. By Application
- 6.3.3. Mexico Water Tube Chemical Boiler 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 Capacity
- 6.3.3.2.2. By Configuration
- 6.3.3.2.3. By Fuel Type
- 6.3.3.2.4. By Application
- 7. Europe Water Tube Chemical Boiler Market Outlook
- 7.1. Market Size & Forecast
- 7.1.1. By Value
- 7.2. Market Share & Forecast
- 7.2.1. By Capacity
- 7.2.2. By Configuration
- 7.2.3. By Fuel Type
- 7.2.4. By Application
- 7.2.5. By Country
- 7.3. Europe: Country Analysis
- 7.3.1. Germany Water Tube Chemical Boiler 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 Capacity
- 7.3.1.2.2. By Configuration
- 7.3.1.2.3. By Fuel Type
- 7.3.1.2.4. By Application
- 7.3.2. United Kingdom Water Tube Chemical Boiler 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 Capacity
- 7.3.2.2.2. By Configuration
- 7.3.2.2.3. By Fuel Type
- 7.3.2.2.4. By Application
- 7.3.3. Italy Water Tube Chemical Boiler 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 Capacity
- 7.3.3.2.2. By Configuration
- 7.3.3.2.3. By Fuel Type

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- 7.3.3.2.4. By Application
- 7.3.4. France Water Tube Chemical Boiler 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 Capacity
 - 7.3.4.2.2. By Configuration
 - 7.3.4.2.3. By Fuel Type
 - 7.3.4.2.4. By Application
- 7.3.5. Spain Water Tube Chemical Boiler 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 Capacity
 - 7.3.5.2.2. By Configuration
 - 7.3.5.2.3. By Fuel Type
 - 7.3.5.2.4. By Application
- 8. Asia-Pacific Water Tube Chemical Boiler Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By Capacity
 - 8.2.2. By Configuration
 - 8.2.3. By Fuel Type
 - 8.2.4. By Application
 - 8.2.5. By Country
 - 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Water Tube Chemical Boiler 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 Capacity
 - 8.3.1.2.2. By Configuration
 - 8.3.1.2.3. By Fuel Type
 - 8.3.1.2.4. By Application
 - 8.3.2. India Water Tube Chemical Boiler 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 Capacity
 - 8.3.2.2.2. By Configuration
 - 8.3.2.2.3. By Fuel Type
 - 8.3.2.2.4. By Application
 - 8.3.3. Japan Water Tube Chemical Boiler Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast

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- 8.3.3.2.1. By Capacity
- 8.3.3.2.2. By Configuration
- 8.3.3.2.3. By Fuel Type
- 8.3.3.2.4. By Application
- 8.3.4. South Korea Water Tube Chemical Boiler 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 Capacity
 - 8.3.4.2.2. By Configuration
 - 8.3.4.2.3. By Fuel Type
 - 8.3.4.2.4. By Application
- 8.3.5. Australia Water Tube Chemical Boiler 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 Capacity
 - 8.3.5.2.2. By Configuration
 - 8.3.5.2.3. By Fuel Type
 - 8.3.5.2.4. By Application
- 9. South America Water Tube Chemical Boiler Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By Capacity
 - 9.2.2. By Configuration
 - 9.2.3. By Fuel Type
 - 9.2.4. By Application
 - 9.2.5. By Country
 - 9.3. South America: Country Analysis
 - 9.3.1. Brazil Water Tube Chemical Boiler 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 Capacity
 - 9.3.1.2.2. By Configuration
 - 9.3.1.2.3. By Fuel Type
 - 9.3.1.2.4. By Application
 - 9.3.2. Argentina Water Tube Chemical Boiler 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 Capacity
 - 9.3.2.2.2. By Configuration
 - 9.3.2.2.3. By Fuel Type
 - 9.3.2.2.4. By Application
 - 9.3.3. Colombia Water Tube Chemical Boiler Market Outlook

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- 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 Capacity
 - 9.3.3.2.2. By Configuration
 - 9.3.3.2.3. By Fuel Type
 - 9.3.3.2.4. By Application
- 10. Middle East and Africa Water Tube Chemical Boiler Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value
 - 10.2. Market Share & Forecast
 - 10.2.1. By Capacity
 - 10.2.2. By Configuration
 - 10.2.3. By Fuel Type
 - 10.2.4. By Application
 - 10.2.5. By Country
 - 10.3. Middle East and Africa: Country Analysis
 - 10.3.1. South Africa Water Tube Chemical Boiler 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 Capacity
 - 10.3.1.2.2. By Configuration
 - 10.3.1.2.3. By Fuel Type
 - 10.3.1.2.4. By Application
 - 10.3.2. Saudi Arabia Water Tube Chemical Boiler 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 Capacity
 - 10.3.2.2.2. By Configuration
 - 10.3.2.2.3. By Fuel Type
 - 10.3.2.2.4. By Application
 - 10.3.3. UAE Water Tube Chemical Boiler 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 Capacity
 - 10.3.3.2.2. By Configuration
 - 10.3.3.2.3. By Fuel Type
 - 10.3.3.2.4. By Application
 - 10.3.4. Kuwait Water Tube Chemical Boiler Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Capacity
 - 10.3.4.2.2. By Configuration

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- 10.3.4.2.3. By Fuel Type
- 10.3.4.2.4. By Application
- 10.3.5. Turkey Water Tube Chemical Boiler Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Capacity
 - 10.3.5.2.2. By Configuration
 - 10.3.5.2.3. By Fuel Type
 - 10.3.5.2.4. By Application
- 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. Company Profiles
 - 13.1. ALFA LAVAL
 - 13.1.1. Business Overview
 - 13.1.2. Key Revenue and Financials
 - 13.1.3. Recent Developments
 - 13.1.4. Key Personnel/Key Contact Person
 - 13.1.5. Key Product/Services Offered
 - 13.2. Ariston Holding N.V.
 - 13.3. Babcock & Wilcox Enterprises, Inc.
 - 13.4. BM GreenTech Berhad
 - 13.5. Babcock Wanson
 - 13.6. Bosch Industriekessel GmbH
 - 13.7. Clayton Industries
 - 13.8. Miura America Co., LTD.
 - 13.9. Rentech Boiler Systems, Inc.
 - 13.10. Thermax Limited
- 14. Strategic Recommendations
- 15. About Us & Disclaimer

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