

Water-Tube Food Processing Boiler Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 to 2034

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Abstracts

The Global Water-Tube Food Processing Boiler Market reached USD 843.9 million in 2024 and is expected to grow at a CAGR of 3.8% from 2025 to 2034. The industry's growth is driven by the rising shift toward sustainable and energy-efficient technologies, alongside advancements in boiler systems that focus on improving efficiency while minimizing emissions. Accelerated industrialization in major economies and substantial investments in energy infrastructure further bolster the market's potential.

Water-tube food processing boilers are innovative industrial systems where water flows through tubes heated externally by combustion gases. The increasing focus on modernizing and optimizing existing systems to comply with stringent environmental standards is a significant factor influencing market growth. Moreover, the integration of digital technologies and energy-efficient heating solutions in these boilers is propelling product adoption.

The 175–250 MMBtu/hr capacity segment is poised to generate USD 200 million by 2034, catering to small and medium-sized food processing enterprises. These boilers align with sustainability goals, helping industries reduce energy consumption and lower greenhouse gas emissions. Intelligent control systems offering real-time monitoring, predictive maintenance, and operational efficiency further enhance their appeal. Investments from both the public and private sectors in upgrading aging boiler systems to meet stricter environmental and efficiency requirements will accelerate demand.

Non-condensing water-tube boilers are expected to grow at a CAGR of 3.5% through 2034. Their growth is fueled by the adoption of advanced technologies and the increasing need for operational efficiency. Regulatory measures targeting emission

reductions and air quality improvements are driving product deployment alongside the introduction of innovative emission control technologies. Rapid urbanization, changing dietary habits, and the enforcement of stringent food safety standards are also creating favorable opportunities for the market.

U.S. water-tube food processing boiler market is anticipated to generate USD 180 million by 2034. Regulatory bodies like the Environmental Protection Agency are imposing stricter emission standards, encouraging the upgrade of existing infrastructure. Simultaneously, the rising demand for ready-to-eat meals, organic products, and frozen foods drives market expansion. Advancements in emissions-reduction technologies are also positively shaping the industry landscape.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definitions
- 1.2 Market estimates & forecast parameters
- 1.3 Forecast calculation
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid
 - 1.4.2.2 Public

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021 - 2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
 - 3.3.1 Growth drivers
 - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's analysis
 - 3.5.1 Bargaining power of suppliers
 - 3.5.2 Bargaining power of buyers
 - 3.5.3 Threat of new entrants
 - 3.5.4 Threat of substitutes
- 3.6 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Strategic outlook
- 4.3 Innovation & sustainability landscape

CHAPTER 5 MARKET SIZE AND FORECAST, BY CAPACITY, 2021 - 2034 (USD MILLION, MMBTU/HR & UNITS)

- 5.1 Key trends
- 5.2 5.3 10 - 25 MMBtu/hr
- 5.4 25 - 50 MMBtu/hr
- 5.5 50 - 75 MMBtu/hr
- 5.6 75 - 100 MMBtu/hr
- 5.7 100 - 175 MMBtu/hr
- 5.8 175 - 250 MMBtu/hr
- 5.9 > 250 MMBtu/hr

CHAPTER 6 MARKET SIZE AND FORECAST, BY TECHNOLOGY, 2021 - 2034 (USD MILLION, MMBTU/HR & UNITS)

- 6.1 Key trends
- 6.2 Condensing
- 6.3 Non-condensing

CHAPTER 7 MARKET SIZE AND FORECAST, BY FUEL, 2021 - 2034 (USD MILLION, MMBTU/HR & UNITS)

- 7.1 Key trends
- 7.2 Natural gas
- 7.3 Oil
- 7.4 Coal
- 7.5 Others

CHAPTER 8 MARKET SIZE AND FORECAST, BY REGION, 2021 - 2034 (USD MILLION, MMBTU/HR & UNITS)

- 8.1 Key trends
- 8.2 North America
 - 8.2.1 U.S.
 - 8.2.2 Canada
 - 8.2.3 Mexico
- 8.3 Europe
 - 8.3.1 UK

- 8.3.2 France
- 8.3.3 Germany
- 8.3.4 Italy
- 8.3.5 Russia
- 8.3.6 Spain
- 8.4 Asia Pacific
 - 8.4.1 China
 - 8.4.2 Australia
 - 8.4.3 India
 - 8.4.4 Japan
 - 8.4.5 South Korea
- 8.5 Middle East & Africa
 - 8.5.1 Saudi Arabia
 - 8.5.2 UAE
 - 8.5.3 Turkey
 - 8.5.4 South Africa
 - 8.5.5 Egypt
- 8.6 Latin America
 - 8.6.1 Brazil
 - 8.6.2 Argentina

CHAPTER 9 COMPANY PROFILES

- 9.1 Alfa Laval
- 9.2 Babcock and Wilcox
- 9.3 Babcock Wanson
- 9.4 Bosch Thermotechnology
- 9.5 Clayton Industries
- 9.6 Cleaver-Brooks
- 9.7 Forbes Marshall
- 9.8 Fulton
- 9.9 Hoval
- 9.10 Hurst Boiler
- 9.11 Johnston Boiler
- 9.12 Miura America
- 9.13 Par Techno-Heat
- 9.14 Rentech Boilers
- 9.15 Richard Kablitz
- 9.16 Thermax

9.17 Thermodyne Boilers

9.18 Viessmann

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