

# **Fuel Gas Heater Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Application (Residential Heating, Commercial Heating, Industrial Heating, Water Heating), By Fuel Type (Natural Gas, Propane, Biogas, Butane), By Heating Capacity (Low Capacity, Medium Capacity, High Capacity), By Installation Type (Wall Mounted, Floor Standing, Portable), By Region, By Competition, 2020-2030F**

<https://marketpublishers.com/r/F140E850BB72EN.html>

Date: August 2025

Pages: 180

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

ID: F140E850BB72EN

## **Abstracts**

### **Market Overview**

Global Fuel Gas Heater Market was valued at USD 8.91 Billion in 2024 and is expected to reach USD 16.47 Billion by 2030 with a CAGR of 10.62%. The Fuel Gas Heater Market refers to the global industry involved in the design, manufacturing, distribution, and maintenance of systems used to heat gaseous fuels such as natural gas, propane, and biogas before their use in various industrial processes and combustion applications. Fuel gas heaters play a critical role in ensuring the safety, efficiency, and reliability of downstream systems by preventing condensation, freezing, and the accumulation of heavy hydrocarbons that can interfere with combustion or damage equipment. These heaters are commonly deployed in sectors such as oil and gas, power generation, petrochemicals, chemicals, and refining, where gas streams must be conditioned to precise temperature specifications to ensure optimal performance and compliance with process standards.

The market encompasses a range of technologies, including electric heaters, water bath

heaters, direct-fired heaters, and indirect line heaters, each selected based on factors such as fuel composition, required temperature rise, ambient conditions, and plant layout. Additionally, fuel gas heaters are integral to pre-heating gas used in turbines, boilers, furnaces, and other thermal systems, helping to maintain combustion stability and reduce emissions. As industrial operations increasingly seek energy-efficient and low-emission technologies, the market is witnessing a shift toward advanced heater designs featuring improved insulation, automated temperature control, modular configurations, and compatibility with renewable or hybrid energy inputs. The rising adoption of natural gas as a transitional fuel in global energy strategies, particularly in power plants and distributed energy systems, is further fueling market demand.

## **Key Market Drivers**

### **Increasing Demand for Natural Gas Across Industrial and Utility Sectors**

The rising global consumption of natural gas as a cleaner alternative to coal and oil is significantly driving demand for fuel gas heaters, which are critical for ensuring consistent gas temperatures and preventing condensation in pipeline and processing systems. As natural gas becomes a central pillar in national energy strategies aimed at reducing greenhouse gas emissions, industries such as petrochemicals, power generation, refining, and manufacturing are increasingly transitioning toward gas-based energy systems. This shift has led to the expansion of gas transmission and distribution infrastructure, including pipelines, compressor stations, and liquefied natural gas (LNG) terminals, all of which require fuel gas heaters to maintain optimal process efficiency and safety.

Fuel gas heaters play a crucial role in preheating gas before combustion in turbines, engines, or boilers, ensuring stable pressure and flow conditions, particularly in cold environments. In addition, the proliferation of combined heat and power (CHP) plants and gas-fired thermal power stations has reinforced the necessity of temperature regulation systems like gas heaters, which prevent hydrate formation and guarantee uninterrupted gas supply. The industrial sector, especially in emerging economies, is also witnessing rising demand for continuous, efficient energy supply, prompting large-scale installations of fuel gas heaters in district heating networks and chemical processing plants. Furthermore, governments across regions are supporting gas infrastructure development through favorable policies and public-private partnerships, leading to robust investment pipelines.

This increased deployment of gas-powered systems is also leading to more stringent efficiency and safety regulations, encouraging the adoption of advanced and high-performance fuel gas heaters. As a result, manufacturers are innovating to deliver compact, modular, and digitally integrated heater systems that enhance performance while reducing installation and operational costs, further fueling market expansion. The cumulative effect of infrastructure growth, energy transition policies, and industrial modernization is positioning fuel gas heaters as indispensable components in the evolving energy ecosystem. Global natural gas consumption is expected to surpass 4,500 billion cubic meters annually by the end of the decade. Industrial demand for natural gas accounts for over 40% of total global usage. The power generation sector utilizes nearly 37% of the world's natural gas supply. Over 60 countries are expanding their LNG import/export infrastructure to meet rising demand. Global LNG trade volume is projected to grow by more than 30% in the next five years. Natural gas usage in manufacturing processes is increasing at a CAGR of over 4%. Asia Pacific accounts for nearly 30% of global natural gas consumption and is the fastest-growing region.

## **Key Market Challenges**

### **Stringent Environmental Regulations and Transition to Cleaner Energy Sources**

One of the most pressing challenges facing the fuel gas heater market is the intensifying global focus on environmental sustainability, which is driving stricter emissions regulations and accelerating the transition toward cleaner and renewable energy sources. Governments across developed and emerging economies are implementing progressively tighter standards for NO<sub>x</sub>, CO<sub>2</sub>, and particulate matter emissions, which directly impact the operation and manufacturing of fuel gas heaters that rely on natural gas or other fossil fuels.

These regulatory changes often necessitate costly technological upgrades, the adoption of low-emission burners, or the integration of complex emission control systems, thereby increasing capital and operational expenses for manufacturers and end-users alike. Furthermore, the fuel gas heater market is facing growing competition from electric heating systems, heat pumps, and renewable energy-powered alternatives, which are gaining traction due to policy incentives, declining costs, and their perceived environmental benefits. As industries and utilities align with net-zero carbon goals and green building certifications, there is a noticeable shift in investment away from gas-fired heating infrastructure toward electric or hybrid solutions, undermining long-term demand for traditional fuel gas heaters.

This trend is particularly pronounced in sectors such as commercial real estate, institutional facilities, and urban district heating networks, where electrification is both technically viable and politically encouraged. Additionally, public pressure and ESG (Environmental, Social, and Governance) considerations are compelling industrial operators to reduce their reliance on gas-based systems, posing reputational risks for companies that continue to operate large fleets of fuel gas heaters. For market players, the challenge lies in balancing compliance costs, maintaining product competitiveness, and innovating within a tightening regulatory landscape while simultaneously navigating a long-term market shift that threatens the core relevance of fossil-fuel-based heating solutions.

## **Key Market Trends**

### **Growing Adoption of Fuel Gas Heaters in Industrial Process Heating Applications**

The demand for fuel gas heaters is witnessing a significant upward trend driven by their expanding role in industrial process heating across sectors such as petrochemicals, oil & gas, chemicals, and power generation. As industries aim to enhance operational efficiency and ensure optimal performance of downstream equipment, fuel gas heaters are increasingly being deployed to preheat and condition natural gas prior to combustion, separation, or distribution. The need for consistent thermal performance, especially in harsh or remote environments, has made these heaters indispensable in managing gas viscosity, preventing hydrate formation, and ensuring smooth flow in pipelines and turbines. Industries are also focusing on reliability and uptime, and fuel gas heaters offer a cost-effective solution with low maintenance requirements compared to electric heating alternatives in high-load operations.

This trend is further reinforced by the rising installation of combined-cycle power plants and gas-based captive generation units, which require consistent fuel quality and pre-treatment for operational integrity. The use of high-efficiency burners, enhanced heat exchanger materials, and modular heater configurations is improving the performance-to-footprint ratio of these systems. Moreover, the global shift toward cleaner-burning fuels like natural gas has further expanded the adoption of gas heaters, particularly in regions with tight emission regulations and decarbonization mandates. As industries modernize their facilities with automation and IoT-enabled monitoring, newer fuel gas heater models are being integrated with smart sensors and remote diagnostics to ensure precise thermal control, proactive maintenance, and energy-efficient operation. The growth in industrial infrastructure projects, especially in Asia Pacific and the Middle East, will continue to boost the demand for fuel gas heaters as key enablers of safe and

efficient process heat delivery.

### **Key Market Players**

Chromalox, Inc.

Watlow Electric Manufacturing Company

Exotherm Corporation

Heatec, Inc.

Thermon Group Holdings, Inc.

Sigma Thermal, Inc.

GE Power (a division of General Electric Company)

ACME Engineering Products Ltd.

Durex Industries

Process Heating Company, Inc. (PHECO)

### **Report Scope:**

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

Fuel Gas Heater Market, By Application:

Residential Heating

Commercial Heating

Industrial Heating

Water Heating

### Fuel Gas Heater Market, By Fuel Type:

Natural Gas

Propane

Biogas

Butane

### Fuel Gas Heater Market, By Heating Capacity:

Low Capacity

Medium Capacity

High Capacity

### Fuel Gas Heater Market, By Installation Type:

Wall Mounted

Floor Standing

Portable

### Fuel Gas Heater 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

Kuwait

## Turkey

### **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies presents in the Global Fuel Gas Heater Market.

Available Customizations:

Global Fuel Gas Heater Market report with the given Market data, Tech Sci 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
- 1.3. 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
- 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 FUEL GAS HEATER MARKET OUTLOOK**

- 5.1. Market Size & Forecast

- 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Application (Residential Heating, Commercial Heating, Industrial Heating, Water Heating)
  - 5.2.2. By Fuel Type (Natural Gas, Propane, Biogas, Butane)
  - 5.2.3. By Heating Capacity (Low Capacity, Medium Capacity, High Capacity)
  - 5.2.4. By Installation Type (Wall Mounted, Floor Standing, Portable)
  - 5.2.5. By Region
- 5.3. By Company (2024)
- 5.4. Market Map

## **6. NORTH AMERICA FUEL GAS HEATER MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Application
  - 6.2.2. By Fuel Type
  - 6.2.3. By Heating Capacity
  - 6.2.4. By Installation Type
  - 6.2.5. By Country
- 6.3. North America: Country Analysis
  - 6.3.1. United States Fuel Gas Heater 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 Application
      - 6.3.1.2.2. By Fuel Type
      - 6.3.1.2.3. By Heating Capacity
      - 6.3.1.2.4. By Installation Type
  - 6.3.2. Canada Fuel Gas Heater 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 Application
      - 6.3.2.2.2. By Fuel Type
      - 6.3.2.2.3. By Heating Capacity
      - 6.3.2.2.4. By Installation Type
  - 6.3.3. Mexico Fuel Gas Heater 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 Application
  - 6.3.3.2.2. By Fuel Type
  - 6.3.3.2.3. By Heating Capacity
  - 6.3.3.2.4. By Installation Type

## **7. EUROPE FUEL GAS HEATER MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Application
  - 7.2.2. By Fuel Type
  - 7.2.3. By Heating Capacity
  - 7.2.4. By Installation Type
  - 7.2.5. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. Germany Fuel Gas Heater 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 Application
      - 7.3.1.2.2. By Fuel Type
      - 7.3.1.2.3. By Heating Capacity
      - 7.3.1.2.4. By Installation Type
  - 7.3.2. United Kingdom Fuel Gas Heater 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 Application
      - 7.3.2.2.2. By Fuel Type
      - 7.3.2.2.3. By Heating Capacity
      - 7.3.2.2.4. By Installation Type
  - 7.3.3. Italy Fuel Gas Heater 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 Application
- 7.3.3.2.2. By Fuel Type
- 7.3.3.2.3. By Heating Capacity
- 7.3.3.2.4. By Installation Type
- 7.3.4. France Fuel Gas Heater 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 Application
    - 7.3.4.2.2. By Fuel Type
    - 7.3.4.2.3. By Heating Capacity
    - 7.3.4.2.4. By Installation Type
- 7.3.5. Spain Fuel Gas Heater 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 Application
    - 7.3.5.2.2. By Fuel Type
    - 7.3.5.2.3. By Heating Capacity
    - 7.3.5.2.4. By Installation Type

## **8. ASIA-PACIFIC FUEL GAS HEATER MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Application
  - 8.2.2. By Fuel Type
  - 8.2.3. By Heating Capacity
  - 8.2.4. By Installation Type
  - 8.2.5. By Country
- 8.3. Asia-Pacific: Country Analysis
  - 8.3.1. China Fuel Gas Heater 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 Application
      - 8.3.1.2.2. By Fuel Type
      - 8.3.1.2.3. By Heating Capacity

- 8.3.1.2.4. By Installation Type
- 8.3.2. India Fuel Gas Heater 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 Application
    - 8.3.2.2.2. By Fuel Type
    - 8.3.2.2.3. By Heating Capacity
    - 8.3.2.2.4. By Installation Type
- 8.3.3. Japan Fuel Gas Heater 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 Application
    - 8.3.3.2.2. By Fuel Type
    - 8.3.3.2.3. By Heating Capacity
    - 8.3.3.2.4. By Installation Type
- 8.3.4. South Korea Fuel Gas Heater 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 Application
    - 8.3.4.2.2. By Fuel Type
    - 8.3.4.2.3. By Heating Capacity
    - 8.3.4.2.4. By Installation Type
- 8.3.5. Australia Fuel Gas Heater 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 Application
    - 8.3.5.2.2. By Fuel Type
    - 8.3.5.2.3. By Heating Capacity
    - 8.3.5.2.4. By Installation Type

## **9. SOUTH AMERICA FUEL GAS HEATER MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast

- 9.2.1. By Application
- 9.2.2. By Fuel Type
- 9.2.3. By Heating Capacity
- 9.2.4. By Installation Type
- 9.2.5. By Country
- 9.3. South America: Country Analysis
  - 9.3.1. Brazil Fuel Gas Heater 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 Application
      - 9.3.1.2.2. By Fuel Type
      - 9.3.1.2.3. By Heating Capacity
      - 9.3.1.2.4. By Installation Type
  - 9.3.2. Argentina Fuel Gas Heater 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 Application
      - 9.3.2.2.2. By Fuel Type
      - 9.3.2.2.3. By Heating Capacity
      - 9.3.2.2.4. By Installation Type
  - 9.3.3. Colombia Fuel Gas Heater 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 Application
      - 9.3.3.2.2. By Fuel Type
      - 9.3.3.2.3. By Heating Capacity
      - 9.3.3.2.4. By Installation Type

## **10. MIDDLE EAST AND AFRICA FUEL GAS HEATER MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Application
  - 10.2.2. By Fuel Type
  - 10.2.3. By Heating Capacity

- 10.2.4. By Installation Type
- 10.2.5. By Country
- 10.3. Middle East and Africa: Country Analysis
  - 10.3.1. South Africa Fuel Gas Heater 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 Application
      - 10.3.1.2.2. By Fuel Type
      - 10.3.1.2.3. By Heating Capacity
      - 10.3.1.2.4. By Installation Type
  - 10.3.2. Saudi Arabia Fuel Gas Heater 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 Application
      - 10.3.2.2.2. By Fuel Type
      - 10.3.2.2.3. By Heating Capacity
      - 10.3.2.2.4. By Installation Type
  - 10.3.3. UAE Fuel Gas Heater 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 Application
      - 10.3.3.2.2. By Fuel Type
      - 10.3.3.2.3. By Heating Capacity
      - 10.3.3.2.4. By Installation Type
  - 10.3.4. Kuwait Fuel Gas Heater 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 Application
      - 10.3.4.2.2. By Fuel Type
      - 10.3.4.2.3. By Heating Capacity
      - 10.3.4.2.4. By Installation Type
  - 10.3.5. Turkey Fuel Gas Heater 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 Application
- 10.3.5.2.2. By Fuel Type
- 10.3.5.2.3. By Heating Capacity
- 10.3.5.2.4. By Installation Type

## **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. Chromalox, Inc.
  - 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. Watlow Electric Manufacturing Company
- 13.3. Exotherm Corporation
- 13.4. Heatec, Inc.
- 13.5. Thermon Group Holdings, Inc.
- 13.6. Sigma Thermal, Inc.
- 13.7. GE Power (a division of General Electric Company)
- 13.8. ACME Engineering Products Ltd.
- 13.9. Durex Industries
- 13.10. Process Heating Company, Inc. (PHECO)

## **14. STRATEGIC RECOMMENDATIONS**

## **15. ABOUT US & DISCLAIMER**

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