

Global Thermal Mass Flow Controller (MFC) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Thermal Mass Flow Controller (MFC) market size was valued at US\$ 343 million in 2024 and is forecast to a readjusted size of USD 486 million by 2031 with a CAGR of 5.2% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

The principle of thermal mass flow controller is to detect and control the gas mass flow by using airflow through the capillary to cause the temperature difference between the upper and lower reaches of the capillary. The mass flow controller can precisely control the gas mass flow. Its function is to precisely control the flow rate of the carrier gas and reaction gas entering the cavity per unit time to achieve the required mixing ratio for the reaction.

The main thermal mass flow controller manufacturers in the market include HORIBA, Bronkhorst, MKS Instruments, etc. The top three companies in the world account for about 25% of the market. The high-end market is mostly monopolized by foreign companies, and the low-end market products are highly homogenized. Price competition is fierce.

The main consumer regions of thermal mass flow controllers are the United States, China, Germany, Japan and other countries and regions with industrial development systems and awareness of measurement control. These regions account for more than most of the global market.

From the type of the product, thermal mass flow controller can be divided into Digital, Analog, of which Analog dominates the market, accounting for about 56% of the total market share. From an application perspective, Semiconductor Manufacturing accounts for the largest market share, followed by the FPD Industry and Vacuum Coating.

This report is a detailed and comprehensive analysis for global Thermal Mass Flow Controller (MFC) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Thermal Mass Flow Controller (MFC) market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Thermal Mass Flow Controller (MFC) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Thermal Mass Flow Controller (MFC) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Thermal Mass Flow Controller (MFC) market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Thermal Mass Flow Controller (MFC)
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Thermal Mass Flow Controller (MFC)

market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include HORIBA, Fujikin, MKS Instruments, Sevenstar, Hitachi Metals, Ltd, Pivotal Systems, MKP, AZBIL, Bronkhorst, Lintec, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Thermal Mass Flow Controller (MFC) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Metal Sealed Thermal Mass Flow Controller

Rubber Sealed Thermal Mass Flow Controller

Market segment by Application

Petroleum and Chemical Industry

Semiconductor Industry

Medical Equipment

Aerospace

Food Industry

Metallurgical Industry

Environmental Monitoring

Scientific Research

Other

Major players covered

HORIBA

Fujikin

MKS Instruments

Sevenstar

Hitachi Metals, Ltd

Pivotal Systems

MKP

AZBIL

Bronkhorst

Lintec

Kofloc

Brooks

Sensirion

ACCU

Sierra Instruments

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Thermal Mass Flow Controller (MFC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermal Mass Flow Controller (MFC), with price, sales quantity, revenue, and global market share of Thermal Mass Flow Controller (MFC) from 2020 to 2025.

Chapter 3, the Thermal Mass Flow Controller (MFC) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermal Mass Flow Controller (MFC) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Thermal Mass Flow Controller (MFC) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thermal Mass Flow Controller (MFC).

Chapter 14 and 15, to describe Thermal Mass Flow Controller (MFC) sales channel, distributors, customers, research findings and conclusion.

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