

Global Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device 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 Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device market size was valued at US\$ 250 million in 2024 and is forecast to a readjusted size of USD 1059 million by 2031 with a CAGR of 22.8% during review period.

Cryoablation refers to a method of freezing diseased tissue through low-temperature technology to achieve in situ inactivation of solid tissue. The working principle is to use low temperature to quickly cool down the diseased tissue to destroy cells, causing cell necrosis or apoptosis, thereby achieving the purpose of treatment. Since cryoablation uses the physical method of energy exchange to achieve the purpose of treatment, its trauma and side effects to the human body are much lower than conventional radiotherapy and chemotherapy, so it is hailed as a 'green therapy'.

In the 1990s, Endocare, an American company, developed a new type of cryotherapy equipment using the Joule-Thomson throttling refrigeration principle. The equipment uses argon throttling refrigeration and helium throttling heating rewarming to achieve rapid freezing treatment and rewarming needle removal. It is used for ablation treatment of various solid tumors such as lung cancer and liver cancer. China has become the most active country in the world in clinical research on cryoablation tumors.

This report is a detailed and comprehensive analysis for global Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device 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 Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device 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 Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device 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 Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device

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 Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device 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 Boston Scientific, Metrum Cryoflex, Siemens, AccuTarget MediPharma, etc.

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

Market Segmentation

Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device 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

Liquid Nitrogen

Argon and Helium

Carbon Dioxide and Nitrous Oxide

Others

Market segment by Application

Tumor Treatment

Heart Treatment

Others

Major players covered

Boston Scientific

Metrum Cryoflex

Siemens

AccuTarget MediPharma

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 Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device, with price, sales quantity, revenue, and global market share of Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device from 2020 to 2025.

Chapter 3, the Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device 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 Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device 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 Joule-

Thomson Throttling Refrigeration Cryotherapy Ablation Device.

Chapter 14 and 15, to describe Joule-Thomson Throttling Refrigeration Cryotherapy Ablation Device sales channel, distributors, customers, research findings and conclusion.

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