

Vacuum/Low Pressure Diffusion Furnace Market, Global Outlook and Forecast 2022-2028

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Abstracts

The low-pressure diffusion furnace is based on the atmospheric closed-tube diffusion furnace, adding a series of enhanced functions such as vacuum control system and source pressure control system. Doping diffusion is carried out in a vacuum environment (absolute pressure 50~200mbar). In short, The low-pressure diffusion furnace is a comprehensive upgrade and strengthening on the basis of the conventional closed-tube diffusion furnace. However, because the reaction tail gas is rich in phosphorus pentoxide, metaphosphoric acid is rapidly generated after encountering water vapor, and metaphosphoric acid can even corrode 316L stainless steel. Under the condition of up to 800 °C, the vacuum system is sealed with non-metallic materials, which is a low-pressure diffusion furnace. The core difficult technology of manufacturing. After the introduction of the vacuum reaction system, the molecular free path of the gas will be increased, and the generation of turbulence will be greatly reduced, thereby greatly improving the uniformity of the diffusion resistance, which is the advantage of the low-pressure diffusion furnace different from the conventional closed-tube diffusion furnace.

This report contains market size and forecasts of Vacuum/Low Pressure Diffusion Furnace in global, including the following market information:

Global Vacuum/Low Pressure Diffusion Furnace Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Vacuum/Low Pressure Diffusion Furnace Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five Vacuum/Low Pressure Diffusion Furnace companies in 2021 (%)

The global Vacuum/Low Pressure Diffusion Furnace market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Horizontal Furnace Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Vacuum/Low Pressure Diffusion Furnace include SVCS, Axcelis, TEL, HKE, Mattson, Thermco Systems, Centrotherm, Sandvik and Shandong Liguan Microelectronics Equipment, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Vacuum/Low Pressure Diffusion Furnace manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Vacuum/Low Pressure Diffusion Furnace Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Vacuum/Low Pressure Diffusion Furnace Market Segment Percentages, by Type, 2021 (%)

Horizontal Furnace

Vertical Furnace

Global Vacuum/Low Pressure Diffusion Furnace Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Vacuum/Low Pressure Diffusion Furnace Market Segment Percentages, by

Application, 2021 (%)

Semiconductor

Optoelectronic Devices

Others

Global Vacuum/Low Pressure Diffusion Furnace Market, By Region and Country,
2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Vacuum/Low Pressure Diffusion Furnace Market Segment Percentages, By
Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Vacuum/Low Pressure Diffusion Furnace revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Vacuum/Low Pressure Diffusion Furnace revenues share in global market, 2021 (%)

Key companies Vacuum/Low Pressure Diffusion Furnace sales in global market, 2017-2022 (Estimated), (K Units)

Key companies Vacuum/Low Pressure Diffusion Furnace sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

SVCS

Axcelis

TEL

HKE

Mattson

Thermco Systems

Centrotherm

Sandvik

Shandong Liguan Microelectronics Equipment

Qingdao Yuhao Microelectronics Equipment

Wuxi Songyu Technology

ACM Research (Shanghai)

SHENZHEN SC

NAURA Technology Group

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