

Global Vacuum & Low Pressure Diffusion Furnace Market Growth 2023-2029

<https://marketpublishers.com/r/G898B861950DEN.html>

Date: February 2023

Pages: 108

Price: US\$ 3,660.00 (Single User License)

ID: G898B861950DEN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

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.

LPI (LP Information)' newest research report, the "Vacuum & Low Pressure Diffusion Furnace Industry Forecast" looks at past sales and reviews total world Vacuum & Low Pressure Diffusion Furnace sales in 2022, providing a comprehensive analysis by region and market sector of projected Vacuum & Low Pressure Diffusion Furnace sales for 2023 through 2029. With Vacuum & Low Pressure Diffusion Furnace sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vacuum & Low Pressure Diffusion Furnace industry.

This Insight Report provides a comprehensive analysis of the global Vacuum & Low Pressure Diffusion Furnace landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Vacuum & Low Pressure Diffusion Furnace portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vacuum & Low Pressure Diffusion Furnace market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vacuum & Low Pressure Diffusion Furnace and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Vacuum & Low Pressure Diffusion Furnace.

The global Vacuum & Low Pressure Diffusion Furnace market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

United States market for Vacuum & Low Pressure Diffusion Furnace is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for Vacuum & Low Pressure Diffusion Furnace is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for Vacuum & Low Pressure Diffusion Furnace is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key Vacuum & Low Pressure Diffusion Furnace players cover SVCS, Axcelis, TEL, HKE, Mattson, Thermco Systems, Centrotherm, Sandvik and Shandong Liguang Microelectronics Equipment, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

This report presents a comprehensive overview, market shares, and growth

opportunities of Vacuum & Low Pressure Diffusion Furnace market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Horizontal Furnace

Vertical Furnace

Segmentation by application

Semiconductor

Optoelectronic Devices

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Vacuum & Low Pressure Diffusion Furnace market?

What factors are driving Vacuum & Low Pressure Diffusion Furnace market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Vacuum & Low Pressure Diffusion Furnace market opportunities vary by end market size?

How does Vacuum & Low Pressure Diffusion Furnace break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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