

Global Semiconductor Exhaust Gas Treatment Scrubbers Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Semiconductor Exhaust Gas Treatment Scrubbers market size is expected to reach \$ 2767.8 million by 2029, rising at a market growth of 13.7% CAGR during the forecast period (2023-2029).

The market for Semiconductor Exhaust Gas Treatment Scrubbers was growing due to the increasing demand for semiconductor devices and the strict environmental regulations governing the semiconductor manufacturing process. Semiconductor manufacturing involves various chemical processes that can release hazardous gases, such as volatile organic compounds (VOCs) and acidic gases. Exhaust gas treatment scrubbers are crucial for capturing and treating these emissions before they are released into the atmosphere.

Here are some trends and factors that were influencing the Semiconductor Exhaust Gas Treatment Scrubbers market up to that point:

Environmental Regulations: Stringent environmental regulations aimed at reducing air pollution and emissions of hazardous substances drove the adoption of exhaust gas treatment solutions in semiconductor manufacturing facilities.

Chemical Processes: Semiconductor fabrication involves multiple chemical processes, including etching, deposition, and cleaning, which can release harmful gases. Exhaust gas treatment scrubbers are used to mitigate the environmental impact of these processes.

Gas Abatement: Exhaust gas treatment scrubbers play a key role in gas abatement by

removing hazardous gases such as hydrogen fluoride (HF), hydrochloric acid (HCl), ammonia (NH₃), and other volatile organic compounds (VOCs).

Advanced Semiconductor Technologies: The transition to advanced semiconductor technologies, such as smaller nodes and 3D structures, has led to more complex manufacturing processes that can produce new types of emissions. Scrubbers are designed to address these evolving challenges.

Purification and Recycling: Some exhaust gas treatment systems include purification and recycling capabilities, allowing semiconductor manufacturers to recover valuable materials and reduce waste.

Cost Efficiency and Sustainability: Scrubber systems that offer high efficiency in gas removal while being energy-efficient and environmentally sustainable were preferred by semiconductor manufacturers.

Global Market Growth: The global demand for semiconductor devices was consistently increasing, leading to the expansion of manufacturing facilities and consequently, the adoption of exhaust gas treatment solutions.

R&D and Innovation: Companies in the exhaust gas treatment scrubbers market were investing in research and development to create more effective, efficient, and adaptable solutions for semiconductor manufacturing.

Collaboration with Semiconductor Manufacturers: Exhaust gas treatment solution providers collaborated closely with semiconductor manufacturers to develop tailored solutions that met specific process requirements.

Supply Chain and Technological Challenges: Similar to other sectors, the semiconductor industry faced supply chain disruptions and technological challenges that impacted the adoption of solutions.

Market Consolidation: The market saw some degree of consolidation through acquisitions and partnerships as companies sought to offer comprehensive solutions.

Regional Variations: Environmental regulations and priorities varied across regions, influencing the demand for scrubber solutions and their specific features.

A scrubber is a type of air pollution control equipment that is used to remove harmful

pollutants from industrial exhaust gases before they are released into the atmosphere. In the semiconductor industry, scrubbers are used to remove gaseous and particulate contaminants generated during various process steps, such as chemical vapor deposition (CVD) and etching, to ensure that the exhaust gases are clean and safe to release into the environment. Scrubbers typically consist of a housing that contains a scrubbing solution, such as water or a specialized chemical, which is used to remove the pollutants from the exhaust gases. The exhaust gases are passed through the scrubbing solution, and the pollutants are absorbed and neutralized, resulting in clean and safe exhaust gases.

This report studies the global Semiconductor Exhaust Gas Treatment Scrubbers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Exhaust Gas Treatment Scrubbers, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor Exhaust Gas Treatment Scrubbers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Exhaust Gas Treatment Scrubbers total production and demand, 2018-2029, (K Units)

Global Semiconductor Exhaust Gas Treatment Scrubbers total production value, 2018-2029, (USD Million)

Global Semiconductor Exhaust Gas Treatment Scrubbers production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Semiconductor Exhaust Gas Treatment Scrubbers consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Semiconductor Exhaust Gas Treatment Scrubbers domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Exhaust Gas Treatment Scrubbers production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Semiconductor Exhaust Gas Treatment Scrubbers production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Semiconductor Exhaust Gas Treatment Scrubbers production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global Semiconductor Exhaust Gas Treatment Scrubbers market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ebara, GST (Global Standard Technology), Unisem, Busch Vacuum Solutions, CSK (Atlas Copco), Edwards Vacuum (Atlas Copco), Kanken Techno, Ecosys Abatement and DAS Environmental Expert, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Semiconductor Exhaust Gas Treatment Scrubbers market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Semiconductor Exhaust Gas Treatment Scrubbers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Exhaust Gas Treatment Scrubbers Market, Segmentation by Type

Burn Scrubber

Plasma Scrubber

Heat Wet Scrubber

Dry Scrubber

Global Semiconductor Exhaust Gas Treatment Scrubbers Market, Segmentation by Application

CVD

Diffusion

Etch

Others

Companies Profiled:

Ebara

GST (Global Standard Technology)

Unisem

Busch Vacuum Solutions

CSK (Atlas Copco)

Edwards Vacuum (Atlas Copco)

Kanken Techno

Ecosys Abatement

DAS Environmental Expert

GNBS Engineering

YOUNGJIN IND

Highvac

Integrated Plasma Inc (IPI)

M.A.T Plus

KC Innovation

CS Clean Solutions

Triple Cores Technology

Taiyo Nippon Sanso

Shanghai Sheng Jian Environment

Key Questions Answered

1. How big is the global Semiconductor Exhaust Gas Treatment Scrubbers market?

2. What is the demand of the global Semiconductor Exhaust Gas Treatment Scrubbers market?
3. What is the year over year growth of the global Semiconductor Exhaust Gas Treatment Scrubbers market?
4. What is the production and production value of the global Semiconductor Exhaust Gas Treatment Scrubbers market?
5. Who are the key producers in the global Semiconductor Exhaust Gas Treatment Scrubbers market?
6. What are the growth factors driving the market demand?

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