

Brazil Scrubber System Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)

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Report description:

Brazil scrubber system market size reached around USD 276.78 Million in 2024. The market is projected to grow at a CAGR of 4.30% between 2025 and 2034 to reach nearly USD 421.67 Million by 2034.

Brazil Scrubber System Market Growth

In 2022, the pharmaceutical sector experienced a remarkable surge in sales, reaching a total of USD 20.67 billion. This figure represents a significant increase of 26.2% compared to the sales figures from the previous year, 2021, as per industry reports. In the pharmaceutical sector, scrubber systems play a crucial role in managing and minimising the emissions of harmful gases and particulates produced during various manufacturing processes, consequently driving up the Brazil scrubber system market share. The utilisation of solvents and other chemicals in pharmaceutical production can result in the emission of volatile organic compounds (VOCs). Scrubber systems are implemented to capture and neutralise these VOCs prior to their release into the atmosphere, thereby ensuring adherence to environmental regulations. Additionally, processes such as chemical synthesis in pharmaceuticals frequently generate acid gases, including hydrochloric acid (HCl) and sulphur dioxide (SO₂). Scrubber systems are utilised to eliminate these gases from exhaust streams, typically employing a liquid absorbent that neutralises the acids, thus preventing their discharge into the environment.

The growth of oil production in Brazil is on the rise, having surged by 12% in 2023, reaching a total of 178 million tons. In the sectors of oil and gas processing, especially in refining and offshore drilling activities, the production of sulphur-containing gases is a common occurrence, leading to Brazil scrubber system market development. To mitigate this, scrubber systems are employed to eliminate sulphur oxides from exhaust emissions, thereby preventing their discharge into the atmosphere. This practice is essential for complying with environmental regulations and minimising the effects of acid rain.

Key Trends and Developments

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Stringent environment regulations, expansion of marine sector, and rising demand for scrubber systems in energy sector are leading to the Brazil scrubber system market growth.

Nov 2021

Wartsila, a technology group introduced its new exhaust gas treatment system, the IQ Series. The IQ Series scrubber's cutting-edge design enables it to clean exhaust gases just as well while taking up less space.

July 2021

Electrical equipment maker Fuji Electric proposed a smallest SOx Scrubber. This scrubber is used in the installation of Exhaust Gas Cleaning System (EGCS), which reduces installation time and space. Such innovations aid in Brazil scrubber system market development.

November 2019

The IMO 2020 scrubber rule was introduced by the Directorate of Ports and Coasts (DPC) of the Brazilian Navy. This allowed ships to utilise exhaust gas cleaning systems (EGCS) rather than low-sulphur fuel oils.

Strict Environmental Regulations

For businesses to meet air quality and pollution control regulations, there is a growing need for scrubber systems to decrease sulphur emissions, particularly in the maritime and industrial sectors. This has led to Brazil scrubber system market expansion.

Growth of the Maritime Sector

Brazil's maritime sector, especially in the oil and gas shipping sector, has expanded, which has increased demand for scrubber systems to control ship exhaust emissions, guaranteeing adherence to international laws and lessening environmental effect.

Rising Demand in Energy Sector

Scrubber systems are required to control emissions and minimise pollutants, in line with environmental goals and improving air quality. Brazil's expanding energy production, particularly through thermal power plants, has produced this need.

Rising Technological Innovations

As a result of improvements in scrubber technology, which provide more economical and effective solutions, Brazilian enterprises are being encouraged to use these systems for pollution control, which is fuelling the Brazil scrubber system market share.

Growth in Industrial Applications

Scrubber systems are employed extensively in Brazil's power generating, chemical, and food processing sectors in addition to their use in maritime applications. This usage across sectors is fuelling the market's expansion.

Brazil Scrubber System Market Trends

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Brazil's maritime industry is fast to adopt scrubber systems in the implementation of international pollution limits following the global adoption of IMO 2020 regulations. Scrubbers are high on the priority list for the shipping industry, especially cargo and oil tanker ships, who aim to achieve environmental compliance while minimizing sulphur emissions.

According to the Brazil scrubber system market analysis, sustainable technologies are getting much importance in the industrial sectors of Brazil. Scrubber systems are initiated by business due to the government measures along with public demand for cleaner operations as an effort towards reducing their environmental effect and better corrosion with corporate sustainability goals.

Advanced scrubber technologies, for example, hybrid scrubbers and much more efficient ones, help improve the market. Innovations that make scrubber systems cheaper and accessible drive their quest for high application levels among various sectors, like sector and power-generating sectors.

Brazil Scrubber System Industry Segmentation

The EMR's report titled "Brazil Scrubber System Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Type:

- Wet Scrubber System
- Dry Scrubber System

Market Breakup by End Use:

- Marine
- Oil and Gas
- Chemical and Petrochemical
- Pharmaceutical
- Power Generation
- Metal and Mining
- Others

Market Breakup by Region:

- Sao Paulo
- Minas Gerais
- Rio de Janeiro
- Bahia
- Rio Grande do Sul
- Others

Brazil Scrubber System Market Share

Based on the end user, the market is segmented into marine, oil and gas, chemical and petrochemical, pharmaceutical, power generation, and metal and mining, among others. The marine segment is projected to grow at a CAGR of 5.3% during the forecast period of 2025-2034. Scrubber systems play a vital role in the marine sector by minimising sulphur oxides (SOx) emissions from

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ship exhaust, thus assisting vessels in adhering to international regulations designed to mitigate air pollution.

Leading Companies in the Brazil Scrubber System Market

Major players in the Brazil scrubber system market are focusing on continuous advancement in scrubber technologies to gain a competitive edge in the market.

Alfa Laval AB

The company was established in 1883 and is headquartered in Lund, Sweden. It provides solutions for multiple sectors including energy, food, and environmental protection. It specialises in separation, heat transfer, and fluid handling technology.

Babcock & Wilcox Enterprises, Inc.

Babcock & Wilcox Enterprises, Inc. was founded in 1867 and is based in Ohio, United States. The company offers energy and environmental technologies, with an emphasis on renewable energy, waste-to-energy, and power generation systems.

Fuji Electric Co., Ltd.

Fuji Electric Co., Ltd. was founded in 1923 and is headquartered in Japan. It creates energy, automation, and power electronics products and solutions for the manufacturing, retail, and energy sectors, leading to the Brazil scrubber system market development.

Wartsila Corporation

Wartsila Corporation was established in 1834 and is headquartered in Helsinki, Finland. The company focuses on sustainable solutions to increase efficiency and lessen environmental effect. It facilitated smart technologies and services to the maritime and energy sector.

Other key players in the Brazil scrubber system market report are ANDRITZ AG, GEA Group AG, and Nilfisk Group, among others.

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