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Industrial Filtration Market by Type (Air & Liquid), Product (Filter Press, Bag, Drum, Depth, Cartridge, HEPA, ULPA), Filter Media (Activated Charcoal, Fiberglass, Filter Paper, Metal, Nonwoven Fabric), Industry and Region - Global Forecast to 2029

https://marketpublishers.com/r/IB850B82DC0EN.html
Date: March 2024
Pages: 294
Price: US$ 3,217.50 (Single User License)
ID: IB850B82DC0EN

Abstracts

The Industrial filtration market is estimated to grow from USD 47.1 billion by 2029 from an estimated USD 37.1 billion in 2024, at a CAGR of 4.9% during the forecast period. Stringent environmental regulations is one of the major driver in the industrial filtration market, Environmental protection laws and mandates are gaining importance globally to reduce the impact of industrial emissions. Innovative filtration systems designed to facilitate regulatory compliance have become a priority in heavy industries. These standards focus on promoting the use of non-toxic substances, modifying production processes, and implementing conservation techniques.

“Pressure Filtration segment is the largest segment, by liquid filtration of the Industrial filtration market, by type”

Based on type, the Industrial filtration market has been split into two types: air, and liquid. Pressure filtration involves the separation of suspended solids from a liquid by forcing the liquid through a porous medium under pressure, effectively trapping the solid materials in the filter media, forming a filter cake. These features are driving the segment for liquid filtration systems.

“Cartridge Filter segment is expected to be the second largest segment based on product”

Based on product, the Industrial filtration market has been segmented into Filter Press,

Bag Filter, Drum Filter, Depth Filter, Cartridge Filter, HEPA Filter, ULPA Filter, Electrostatic Precipitator, and Other products. Cartridge filters play a crucial role in liquid filtration for the removal of contaminants from water. In this filtration process, liquid flows from the outside to the inside of the filter cartridge, facilitating the collection of dirt particles that adhere to the surface of the filter medium. The resulting clean liquid is then discharged into the system. Featuring a porous filter medium, cartridge filters effectively capture unwanted impurities on the fiber's surface. These features are expected to drive the market for this product.

“Europe is expected to emerge as the second-largest region based on Industrial filtration market”

By region, the Industrial filtration market has been segmented into Asia Pacific, North America, South America, Europe, and Middle East & Africa. The stringent emission regulations enforced by the European Commission have spurred substantial demand for industrial filtration solutions across diverse sectors, including manufacturing, process industries, oil & gas, power generation, pharmaceuticals, and metals & mining. Advancements in machinery and increased industrial equipment deployment in the region are anticipated to be key drivers for the industrial filtration market's growth in Europe. These trends are expected to drive the market in Europe.

Breakdown of Primaries:

In-depth interviews have been conducted with various key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, to obtain and verify critical qualitative and quantitative information, as well as to assess future market prospects. The distribution of primary interviews is as follows:

By Company Type: Tier 1- 65%, Tier 2- 24%, and Tier 3- 11%

By Designation: C-Level- 30%, Director Levels- 25%, and Others- 45%

By Region: North America- 27%, Europe- 20%, Asia Pacific- 33%, the Middle East & Africa- 12%, and South America- 8%

Note: Others include product engineers, product specialists, and engineering leads.

Note: The tiers of the companies are defined on the basis of their total revenues as of

2021. Tier 1: > USD 1 billion, Tier 2: From USD 500 million to USD 1 billion, and Tier 3: The Industrial filtration market is dominated by a few major players that have a wide regional presence. The leading players in the Industrial filtration market are Huawei Technologies Co., Ltd. (China), SUNGROW (China), SMA Solar Technology AG (Germany), Power Electronics S.L. (Spain), and Fimer Group (Italy).

Research Coverage:

The report defines, describes, and forecasts the Industrial filtration market, by output power rating, end user, output voltage, type, connection type, sales channel and region. It also offers a detailed qualitative and quantitative analysis of the market. The report provides a comprehensive review of the major market drivers, restraints, opportunities, and challenges. It also covers various important aspects of the market. These include an analysis of the competitive landscape, market dynamics, market estimates, in terms of value, and future trends in the Industrial filtration market.

Key Benefits of Buying the Report

Increased demand for equipment reliability and extended lifecycle, Increasing expenditure on refinery and petrochemical infrastructure development and Stringent environmental regulations are driving the market. Availability of low-cost and inferior-quality industrial filtration products is a restraints faced in the market. Material Innovations in the industrial filters systems and Advancements in the filter technologies are the opportunities in the market. Frequent replacement and disposal of industrial filters, Limited Functionalities are the challenges in the market.

Product Development/ Innovation: The trends such as advanced filter monitoring, and material innovations for filters

Market Development: The field of filter media is undergoing significant advancements driven by industry demands for finer particle capture and compatibility with harsh environments. Research focuses on developing new materials, including fine fibers (below 100 nanometers) that enable capturing smaller particles and protect sensitive equipment.

Market Diversification: Increased air pollution control legislation and manufacturing industry investments targeted at lowering harmful particle emissions are driving the region's industrial filtration market.

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Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Eaton (US), Danaher (US), Parker-Hannifin (US), 3M (US), Cummins (US) among others in the Industrial filtration market.

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