

Compressed Air Filter and Dryer Market by Product Type (Air Dryer (Refrigeration, Desiccant, Deliquescent, Membrane), Air Filter (Particulate, Coalescing, Compressed Intake, Activated Carbon)), Industry, Region – Global Forecast to 2028

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Abstracts

The compressed air filter and dryer market is expected to reach USD 7.4 billion by 2028 from USD 5.6 billion in 2023, at a CAGR of 5.8% from 2023–2028. The growth of this market is attributed to the rising need to handle increasingly large and complex datasets and emerging industrial IoT and automation technologies.

“Refrigeration dryers segment to hold the largest market share throughout the forecast period”

Compressed air dryers are sub-segmented into four types of dryers: refrigeration dryers, desiccant/adsorption dryers, deliquescent dryers, and membrane dryers. Refrigeration dryers are the most used dryers in the manufacturing industry, having relatively low initial and operating costs. These dryers are used for corrosion prevention by removing moisture from compressed air systems at low ambient temperatures. They are essential for ensuring the proper functioning and longevity of various pneumatic equipment and processes that rely on compressed air. These dryers are extensively used in industries where the temperature of compressed air needs to be regulated and high dryness of the air is required. Therefore, refrigeration dryers accounted for a larger market share.

“Automotive Industry is to hold largest market share in 2023.”

The compressed air filter and dryer market is largely influenced by the automotive

industry, primarily due to its requirement for uncontaminated and dry compressed air in crucial manufacturing processes such as painting and assembly. Stringent regulations and the industry's high-volume production requirements drive the demand for reliable air filtration systems. This emphasis on innovation and compliance secures the automotive industry's prominent position in the compressed air filter and dryer market. Moreover, Growing industrialization and urbanization across the world have increased the demand for vehicles. In regions such as Asia Pacific and Europe, the demand for automobiles is growing rapidly, which is expected to propel the demand for compressed air filters and dryers.

“China is to dominate the compressed air filter and dryer market of Asia Pacific in 2023”

Asia Pacific consists of some of the fastest-growing economies—such as China, Japan, and India. China is a key manufacturing hub in the Asia Pacific region. The country is a major force of a compressed air filter and dryer in Asia Pacific. The growth in infrastructure development projects in China's tier one and tier two cities encourages companies to invest in compressed air systems. Compressed air filters and dryers are used for PCB manufacturing, cleaning of electronic equipment, maintaining a clean and dry environment around sensitive instruments, and packaging of electronics. Hence, the demand for compressed air filters and dryers is expected to be high in China.

The break-up of the profiles of primary participants:

By Company Type – Tier 1 – 45%, Tier 2 – 35%, and Tier 3 – 20%

By Designation – C-level Executives – 40%, Directors – 35%, and Others – 25%

By Region – North America - 30%, Europe – 25%, Asia Pacific – 35%, and Rest of the World – 10%

Major players in the compressed air filter and dryer market include Atlas Copco, Ingersoll Rand, PARKER HANNIFIN CORP, Pentair, and Donaldson Company, Inc. and others.

Research Coverage

The report segments the compressed air filter and dryer market by Product Type,

Compressed Air Filter and Dryer Market by Product Type (Air Dryer (Refrigeration, Desiccant, Deliquescent, Mem...

Industry, and Region. The report also comprehensively reviews drivers, restraints, opportunities, and challenges influencing market growth. The report also covers qualitative aspects in addition to the quantitative aspects of the market.

Reasons to buy the report:

The report will help the market leaders/new entrants with information on the closest approximate revenues for the overall compressed air filter and dryer market and related segments. This report will help stakeholders understand the competitive landscape and gain more insights to strengthen their position in the market and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of critical drivers (Increasing use of compressed air systems in various industrial processes to enhance productivity, Rising demand for compressed air solutions in food & beverage industry, Growing use of compressed air dryers to shield equipment in settings susceptible to hazardous and corrosive conditions, Surging demand for compressed air solutions in oil & gas exploration and production, and Increasing demand for compressed air filters to filter contaminants up to several microns), restraints (Requirement for periodic maintenance, Safety concerns associated with use of compressed air systems with high operating pressure), opportunities (Growing use of class 0 air in pharmaceutical packaging processes, Increasing adoption of advanced technologies and growing industrialization in developing nations, Growing use of Internet of Things (IoT)-enabled systems in compressed air industry), challenges (Need to maintain specific environmental conditions to ensure effective and reliable operation of air treatment systems, Lack of knowledge for proper utilization and maintenance of compressed air filters and dryers, Reluctance of small and medium-sized enterprises (SMEs) to shift from traditional air filtration systems to advanced compressed air filters) influencing the growth of the compressed air filter and dryer market.

Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the compressed air filter and dryer market.

Market Development: Comprehensive information about lucrative markets – the

report analyses the compressed air filter and dryer market across various regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the compressed air filter and dryer market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Atlas Copco (Sweden), Ingersoll Rand (US), PARKER HANNIFIN CORP (US), Pentair (UK), and Donaldson Company, Inc. (US).

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