

# **Compressed Air Treatment Equipment Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034**

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## **Abstracts**

The Global Compressed Air Treatment Equipment Market reached USD 9.3 billion in 2024 and is projected to grow at a CAGR of 7.4% between 2025 and 2034. This growth is fueled by rapid industrialization, stringent environmental regulations, and a rising demand for energy-efficient solutions across multiple industries. Sectors such as automotive, food and beverage, pharmaceuticals, and electronics are driving market demand as they increasingly rely on clean, high-quality compressed air for production processes. With automation and robotics becoming more prevalent in manufacturing, the need for reliable compressed air treatment solutions is more critical than ever.

Beyond traditional manufacturing, industries such as agriculture, construction, mining, and HVAC are significantly contributing to market expansion. These sectors rely on compressed air for various applications, from powering heavy machinery to ensuring climate control. As global industrial activity intensifies, preventing contamination and maintaining air purity remain top priorities, particularly in food processing and pharmaceutical production, where even minor air impurities can compromise product quality. Companies are prioritizing energy-efficient air treatment solutions to enhance operational efficiency, reduce costs, and comply with increasingly stringent emissions standards.

Innovation plays a key role in market expansion, with manufacturers focusing on developing smarter, more efficient air treatment equipment. Advancements in filtration, drying, and purification technologies are driving the adoption of solutions that optimize compressed air systems while lowering energy consumption. Smart monitoring systems, integrated sensors, and AI-driven predictive maintenance features are also gaining traction, ensuring enhanced system reliability and reduced downtime. As

industries continue shifting toward sustainable practices, the demand for eco-friendly air treatment solutions is expected to grow, further fueling market expansion over the next decade.

The dryers segment remains a dominant force in the compressed air treatment equipment market, accounting for USD 4 billion in 2024 and projected to grow at a CAGR of 7.3% through 2034. Compressed air dryers play a crucial role in removing moisture, which can lead to system corrosion, contamination, or freezing in colder environments. The increasing focus on energy efficiency has led to greater adoption of advanced drying technologies, including heatless and desiccant dryers, designed to minimize power consumption without compromising performance. These solutions help companies lower operational costs while maintaining optimal air quality for critical applications.

Plant air and shop air applications commanded a significant 42% market share in 2024 and are anticipated to grow at a CAGR of 7.2% between 2025 and 2034. Industries rely on plant air to power tools, machinery, and automated equipment, making energy efficiency a major priority. The adoption of Variable Speed Drive compressors and energy-saving dryers continues to rise as businesses seek ways to cut energy consumption and enhance sustainability. The push for smarter, digitally controlled air systems is further contributing to growth in this segment.

The U.S. compressed air treatment equipment market generated USD 2 billion in 2024 and is set to grow at a rate of 7.5% over the next decade. Industrialization, manufacturing expansion, and strict regulatory compliance drive demand, with companies increasingly investing in greener technologies to meet sustainability goals. Energy-efficient air treatment systems featuring waste heat recovery, eco-friendly refrigerants, and low-impact filtration are gaining traction as businesses work to reduce their carbon footprints. With ongoing advancements in air purification technology and a heightened focus on operational efficiency, the U.S. market is poised for substantial growth in the coming years.

## Contents

### CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculations.
- 1.4 Data sources
  - 1.4.1 Primary
  - 1.4.2 Secondary
    - 1.4.2.1 Paid sources
    - 1.4.2.2 Public sources

### CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021-2034

### CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
  - 3.1.1 Factor affecting the value chain.
  - 3.1.2 Profit margin analysis.
  - 3.1.3 Disruptions
  - 3.1.4 Future outlook
  - 3.1.5 Manufacturers
  - 3.1.6 Distributors
- 3.2 Supplier landscape
- 3.3 Profit margin analysis.
- 3.4 Key news & initiatives
- 3.5 Regulatory landscape
- 3.6 Impact forces
  - 3.6.1 Growth drivers
    - 3.6.1.1 Industrialization and manufacturing growth
    - 3.6.1.2 Advancements in air filtration technology
  - 3.6.2 Industry pitfalls & challenges
    - 3.6.2.1 High operational and maintenance costs
    - 3.6.2.2 Regular service is required to prevent compressed air losses
- 3.7 Technological overview
- 3.8 Growth potential analysis

- 3.9 Porter's analysis
- 3.10 PESTEL analysis

## **CHAPTER 4 COMPETITIVE LANDSCAPE, 2024**

- 4.1 Introduction
- 4.2 Company market share analysis
- 4.3 Competitive positioning matrix
- 4.4 Strategic outlook matrix

## **CHAPTER 5 MARKET ESTIMATES & FORECAST, BY EQUIPMENT TYPE, 2021-2034 (USD BILLION) (THOUSAND UNITS)**

- 5.1 Key trends
- 5.2 Filters
  - 5.2.1 Particulate filter/pre-filter
  - 5.2.2 Coalescing filter/oil removal
  - 5.2.3 Adsorber filter/oil vapor removal
  - 5.2.4 Filtered centrifugal separator
  - 5.2.5 High temperature after filters
  - 5.2.6 Others (moisture separators etc.)
- 5.3 Dryers
  - 5.3.1 Refrigerated dryers
  - 5.3.2 Desiccant air dryers
  - 5.3.3 Membrane dryers
  - 5.3.4 Others (deliquescent dryers etc.)
- 5.4 Aftercoolers
- 5.5 Others (drains etc.)

## **CHAPTER 6 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021-2034 (USD BILLION) (THOUSAND UNITS)**

- 6.1 Key trends
- 6.2 Plant air/shop air
- 6.3 Instrument air
- 6.4 Process air
- 6.5 Others (breathing air etc.)

## **CHAPTER 7 MARKET ESTIMATES & FORECAST, BY END USE INDUSTRY,**

## **2021-2034 (USD BILLION) (THOUSAND UNITS)**

- 7.1 Key trends
- 7.2 Aerospace
- 7.3 Automotive
- 7.4 Construction
- 7.5 Chemical
- 7.6 Food & beverage
- 7.7 Healthcare
- 7.8 Others (steel, paper and pulp etc.)

## **CHAPTER 8 MARKET ESTIMATES & FORECAST, BY DISTRIBUTION CHANNEL, 2021-2034 (USD BILLION) (THOUSAND UNITS)**

- 8.1 Key trends
- 8.2 Direct sales
- 8.3 Indirect sales

## **CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2034 (USD BILLION) (THOUSAND UNITS)**

- 9.1 Key trends
- 9.2 North America
  - 9.2.1 U.S.
  - 9.2.2 Canada
- 9.3 Europe
  - 9.3.1 UK
  - 9.3.2 Germany
  - 9.3.3 France
  - 9.3.4 Italy
  - 9.3.5 Spain
  - 9.3.6 Russia
- 9.4 Asia Pacific
  - 9.4.1 China
  - 9.4.2 India
  - 9.4.3 Japan
  - 9.4.4 South Korea
  - 9.4.5 Australia
- 9.5 Latin America

9.5.1 Brazil

9.5.2 Mexico

9.6 MEA

9.6.1 UAE

9.6.2 Saudi Arabia

9.6.3 South Africa

## **CHAPTER 10 COMPANY PROFILES**

10.1 Alpha-Pure

10.2 Atlas Copco

10.3 Beko Technologies

10.4 Chicago Pneumatic

10.5 Elgi Compressors

10.6 Emerson Climate

10.7 Gardner Denver

10.8 Mann+Hummel

10.9 Mikropor

10.10 Omega Air

10.11 Parker Hannifin

10.12 SPX Flow

10.13 Walker Filtration

10.14 Wilkerson

10.15 ZEKS Compressed Air

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