

Global Tangential Air Separators Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Tangential Air Separators market size was valued at US\$ 434 million in 2025 and is forecast to a readjusted size of US\$ 651 million by 2032 with a CAGR of 6.0% during review period.

In 2025, global sales of tangential air separators reached 620,000 units, with an average selling price of \$680 per unit. A tangential air separator is a device that utilizes the principle of fluid cyclonic flow to separate and remove air or gases from piping systems. Typically installed within the pipelines of heating, cooling, or industrial circulating water systems, the device employs a tangential inlet structure to generate a high-velocity rotating flow field inside its vessel. Under the influence of centrifugal force, air bubbles are separated from the liquid and concentrated at a top-mounted air vent, thereby enhancing system operational efficiency and preventing issues such as air binding, noise, and equipment corrosion. The device's structure typically comprises a carbon steel or stainless steel housing, a tangential inlet assembly, internal guide components, and an automatic air vent valve. Characterized by its simple structure, low pressure loss, high separation efficiency, and ease of maintenance, it is widely utilized in HVAC systems, boiler systems, district heating networks, industrial cooling water circulation systems, and energy station projects.

The industry's total production capacity stands at approximately 950,000 units per year, with an average gross profit margin of around 29%. Upstream raw materials primarily include carbon steel plates, stainless steel plates, welding consumables, automatic air vent valve assemblies, and anti-corrosion coating materials. Downstream demand is driven primarily by HVAC systems, district heating networks, industrial circulating water systems, energy stations, and integrated utility tunnel projects. Driven by global

initiatives in energy-efficient building retrofitting, upgrades to district heating systems, and the growing demand for energy conservation in industrial circulating water systems, the application of tangential air separators within high-efficiency HVAC systems and energy infrastructure continues to expand. In the future, product development is expected to trend toward higher separation efficiency, lower pressure loss, and modular design, presenting stable market demand and significant business opportunities within the fields of green building and energy system optimization.

As a critical component for enhancing fluid system performance, tangential air separators play a vital role across numerous industries. Driven by growing demands for energy-efficient buildings, industrial water treatment, and optimized energy utilization, the market outlook for tangential air separators is becoming increasingly promising. In HVAC systems, boilers, and district heating networks, these separators effectively remove air and gas bubbles from the fluid stream, thereby preventing airlocks and corrosion while boosting overall operational efficiency and stability. Within industrial circulating water systems, air separators extend equipment lifespan and enhance system reliability by eliminating gaseous contaminants. Consequently, as nations worldwide place greater emphasis on energy-efficient building retrofits and energy optimization, the demand for tangential air separators continues to rise.

Furthermore, as industrial automation and intelligence levels advance, so too does the demand for intelligent equipment control and performance optimization. In the future, tangential air separators are expected to integrate a wider range of smart features—such as automated air content monitoring and remote air-venting capabilities—to meet the requirements of increasingly efficient and precision-driven systems. Notably, propelled by the objectives of green building initiatives and sustainable development, tangential air separators are poised to not only maintain their prominent position in existing markets but also unlock new commercial opportunities within emerging markets and the broader field of high-efficiency energy utilization. In summary, tangential air separators are set to experience sustained long-term growth, driven by evolving global energy demands, building energy conservation policies, and the ever-increasing need for water conservation in industrial sectors.

This report is a detailed and comprehensive analysis for global Tangential Air Separators market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market

share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Tangential Air Separators market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Tangential Air Separators market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Tangential Air Separators market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Tangential Air Separators market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Tangential Air Separators

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Tangential Air Separators market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AMTROL, Wessels, John Wood Company, LLC, American Wheatley, Elbi Of America, Inc., TACO Comfort, Penn Pump & Equipment Company, Inc., South Gate Engineering, Thrush, Flo Fab, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Tangential Air Separators market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Tangential Centrifugal Type

Coalescing Type

Microbubble Type

Market segment by Connection Method

Threaded Connection

Flange Connection

Market segment by Material

Cast Iron

Carbon Steel

Brass / Stainless Steel

Market segment by Application

Metallurgy

Cement

Electricity

Other

Major players covered

AMTROL

Wessels

John Wood Company, LLC

American Wheatley

Elbi Of America, Inc.

TACO Comfort

Penn Pump & Equipment Company, Inc.

South Gate Engineering

Thrush

Flo Fab

EMERALD

Ferguson

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Tangential Air Separators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Tangential Air Separators, with price, sales quantity, revenue, and global market share of Tangential Air Separators from 2021 to 2026.

Chapter 3, the Tangential Air Separators competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Tangential Air Separators breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Tangential Air Separators market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Tangential Air Separators.

Chapter 14 and 15, to describe Tangential Air Separators sales channel, distributors, customers, research findings and conclusion.

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