

# Global Tangential Air Separators Market Growth 2026-2032

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## Abstracts

The global Tangential Air Separators market size is predicted to grow from US\$ 412 million in 2025 to US\$ 632 million in 2032; it is expected to grow at a CAGR of 6.3% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the 'Tangential Air Separators Industry Forecast' looks at past sales and reviews total world Tangential Air Separators sales in 2025, providing a comprehensive analysis by region and market sector of projected Tangential Air Separators sales for 2026 through 2032. With Tangential Air Separators sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Tangential Air Separators industry.

This Insight Report provides a comprehensive analysis of the global Tangential Air Separators landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Tangential Air Separators portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Tangential Air Separators market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Tangential Air Separators and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Tangential Air Separators.

This report presents a comprehensive overview, market shares, and growth opportunities of Tangential Air Separators market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Tangential Centrifugal Type

Coalescing Type

Microbubble Type

#### Segmentation by Connection Method:

Threaded Connection

Flange Connection

#### Segmentation by Material:

Cast Iron

Carbon Steel

Brass / Stainless Steel

Segmentation by Application:

Metallurgy

Cement

Electricity

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Tangential Air Separators market?

What factors are driving Tangential Air Separators market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Tangential Air Separators market opportunities vary by end market size?

How does Tangential Air Separators break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Tangential Air Separators Annual Sales 2021-2032
  - 2.1.2 World Current & Future Analysis for Tangential Air Separators by Geographic Region, 2021, 2025 & 2032
  - 2.1.3 World Current & Future Analysis for Tangential Air Separators by Country/Region, 2021, 2025 & 2032
- 2.2 Tangential Air Separators Segment by Type
  - 2.2.1 Tangential Centrifugal Type
  - 2.2.2 Coalescing Type
  - 2.2.3 Microbubble Type
  - 2.2.4 Tangential Air Separators Sales by Type
    - 2.2.4.1 Global Tangential Air Separators Sales Market Share by Type (2021-2026)
    - 2.2.4.2 Global Tangential Air Separators Revenue and Market Share by Type (2021-2026)
    - 2.2.4.3 Global Tangential Air Separators Sale Price by Type (2021-2026)
- 2.3 Tangential Air Separators Segment by Connection Method
  - 2.3.1 Threaded Connection
  - 2.3.2 Flange Connection
  - 2.3.3 Tangential Air Separators Sales by Connection Method
    - 2.3.3.1 Global Tangential Air Separators Sales Market Share by Connection Method (2021-2026)
    - 2.3.3.2 Global Tangential Air Separators Revenue and Market Share by Connection Method (2021-2026)
    - 2.3.3.3 Global Tangential Air Separators Sale Price by Connection Method

(2021-2026)

## 2.4 Tangential Air Separators Segment by Material

2.4.1 Cast Iron

2.4.2 Carbon Steel

2.4.3 Brass / Stainless Steel

2.4.4 Tangential Air Separators Sales by Material

2.4.4.1 Global Tangential Air Separators Sales Market Share by Material (2021-2026)

2.4.4.2 Global Tangential Air Separators Revenue and Market Share by Material

(2021-2026)

2.4.4.3 Global Tangential Air Separators Sale Price by Material (2021-2026)

## 2.5 Tangential Air Separators Segment by Application

2.5.1 Metallurgy

2.5.2 Cement

2.5.3 Electricity

2.5.4 Other

2.5.5 Tangential Air Separators Sales by Application

2.5.5.1 Global Tangential Air Separators Sale Market Share by Application

(2021-2026)

2.5.5.2 Global Tangential Air Separators Revenue and Market Share by Application

(2021-2026)

2.5.5.3 Global Tangential Air Separators Sale Price by Application (2021-2026)

## 3 GLOBAL BY COMPANY

### 3.1 Global Tangential Air Separators Breakdown Data by Company

3.1.1 Global Tangential Air Separators Annual Sales by Company (2021-2026)

3.1.2 Global Tangential Air Separators Sales Market Share by Company (2021-2026)

### 3.2 Global Tangential Air Separators Annual Revenue by Company (2021-2026)

3.2.1 Global Tangential Air Separators Revenue by Company (2021-2026)

3.2.2 Global Tangential Air Separators Revenue Market Share by Company

(2021-2026)

### 3.3 Global Tangential Air Separators Sale Price by Company

### 3.4 Key Manufacturers Tangential Air Separators Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Tangential Air Separators Product Location Distribution

3.4.2 Players Tangential Air Separators Products Offered

### 3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

## **4 WORLD HISTORIC REVIEW FOR TANGENTIAL AIR SEPARATORS BY GEOGRAPHIC REGION**

4.1 World Historic Tangential Air Separators Market Size by Geographic Region (2021-2026)

4.1.1 Global Tangential Air Separators Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Tangential Air Separators Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Tangential Air Separators Market Size by Country/Region (2021-2026)

4.2.1 Global Tangential Air Separators Annual Sales by Country/Region (2021-2026)

4.2.2 Global Tangential Air Separators Annual Revenue by Country/Region (2021-2026)

4.3 Americas Tangential Air Separators Sales Growth

4.4 APAC Tangential Air Separators Sales Growth

4.5 Europe Tangential Air Separators Sales Growth

4.6 Middle East & Africa Tangential Air Separators Sales Growth

## **5 AMERICAS**

5.1 Americas Tangential Air Separators Sales by Country

5.1.1 Americas Tangential Air Separators Sales by Country (2021-2026)

5.1.2 Americas Tangential Air Separators Revenue by Country (2021-2026)

5.2 Americas Tangential Air Separators Sales by Type (2021-2026)

5.3 Americas Tangential Air Separators Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Tangential Air Separators Sales by Region

6.1.1 APAC Tangential Air Separators Sales by Region (2021-2026)

6.1.2 APAC Tangential Air Separators Revenue by Region (2021-2026)

- 6.2 APAC Tangential Air Separators Sales by Type (2021-2026)
- 6.3 APAC Tangential Air Separators Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

## **7 EUROPE**

- 7.1 Europe Tangential Air Separators by Country
  - 7.1.1 Europe Tangential Air Separators Sales by Country (2021-2026)
  - 7.1.2 Europe Tangential Air Separators Revenue by Country (2021-2026)
- 7.2 Europe Tangential Air Separators Sales by Type (2021-2026)
- 7.3 Europe Tangential Air Separators Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

- 8.1 Middle East & Africa Tangential Air Separators by Country
  - 8.1.1 Middle East & Africa Tangential Air Separators Sales by Country (2021-2026)
  - 8.1.2 Middle East & Africa Tangential Air Separators Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Tangential Air Separators Sales by Type (2021-2026)
- 8.3 Middle East & Africa Tangential Air Separators Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

- 9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Tangential Air Separators

10.3 Manufacturing Process Analysis of Tangential Air Separators

10.4 Industry Chain Structure of Tangential Air Separators

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Tangential Air Separators Distributors

11.3 Tangential Air Separators Customer

## **12 WORLD FORECAST REVIEW FOR TANGENTIAL AIR SEPARATORS BY GEOGRAPHIC REGION**

12.1 Global Tangential Air Separators Market Size Forecast by Region

12.1.1 Global Tangential Air Separators Forecast by Region (2027-2032)

12.1.2 Global Tangential Air Separators Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Tangential Air Separators Forecast by Type (2027-2032)

12.7 Global Tangential Air Separators Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

13.1 AMTROL

13.1.1 AMTROL Company Information

13.1.2 AMTROL Tangential Air Separators Product Portfolios and Specifications

13.1.3 AMTROL Tangential Air Separators Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.1.4 AMTROL Main Business Overview
- 13.1.5 AMTROL Latest Developments
- 13.2 Wessels
  - 13.2.1 Wessels Company Information
  - 13.2.2 Wessels Tangential Air Separators Product Portfolios and Specifications
  - 13.2.3 Wessels Tangential Air Separators Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.2.4 Wessels Main Business Overview
  - 13.2.5 Wessels Latest Developments
- 13.3 John Wood Company, LLC
  - 13.3.1 John Wood Company, LLC Company Information
  - 13.3.2 John Wood Company, LLC Tangential Air Separators Product Portfolios and Specifications
  - 13.3.3 John Wood Company, LLC Tangential Air Separators Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.3.4 John Wood Company, LLC Main Business Overview
  - 13.3.5 John Wood Company, LLC Latest Developments
- 13.4 American Wheatley
  - 13.4.1 American Wheatley Company Information
  - 13.4.2 American Wheatley Tangential Air Separators Product Portfolios and Specifications
  - 13.4.3 American Wheatley Tangential Air Separators Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.4.4 American Wheatley Main Business Overview
  - 13.4.5 American Wheatley Latest Developments
- 13.5 Elbi Of America, Inc.
  - 13.5.1 Elbi Of America, Inc. Company Information
  - 13.5.2 Elbi Of America, Inc. Tangential Air Separators Product Portfolios and Specifications
  - 13.5.3 Elbi Of America, Inc. Tangential Air Separators Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.5.4 Elbi Of America, Inc. Main Business Overview
  - 13.5.5 Elbi Of America, Inc. Latest Developments
- 13.6 TACO Comfort
  - 13.6.1 TACO Comfort Company Information
  - 13.6.2 TACO Comfort Tangential Air Separators Product Portfolios and Specifications
  - 13.6.3 TACO Comfort Tangential Air Separators Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.6.4 TACO Comfort Main Business Overview

- 13.6.5 TACO Comfort Latest Developments
- 13.7 Penn Pump & Equipment Company, Inc.
  - 13.7.1 Penn Pump & Equipment Company, Inc. Company Information
  - 13.7.2 Penn Pump & Equipment Company, Inc. Tangential Air Separators Product Portfolios and Specifications
  - 13.7.3 Penn Pump & Equipment Company, Inc. Tangential Air Separators Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.7.4 Penn Pump & Equipment Company, Inc. Main Business Overview
  - 13.7.5 Penn Pump & Equipment Company, Inc. Latest Developments
- 13.8 South Gate Engineering
  - 13.8.1 South Gate Engineering Company Information
  - 13.8.2 South Gate Engineering Tangential Air Separators Product Portfolios and Specifications
  - 13.8.3 South Gate Engineering Tangential Air Separators Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.8.4 South Gate Engineering Main Business Overview
  - 13.8.5 South Gate Engineering Latest Developments
- 13.9 Thrush
  - 13.9.1 Thrush Company Information
  - 13.9.2 Thrush Tangential Air Separators Product Portfolios and Specifications
  - 13.9.3 Thrush Tangential Air Separators Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.9.4 Thrush Main Business Overview
  - 13.9.5 Thrush Latest Developments
- 13.10 Flo Fab
  - 13.10.1 Flo Fab Company Information
  - 13.10.2 Flo Fab Tangential Air Separators Product Portfolios and Specifications
  - 13.10.3 Flo Fab Tangential Air Separators Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.10.4 Flo Fab Main Business Overview
  - 13.10.5 Flo Fab Latest Developments
- 13.11 EMERALD
  - 13.11.1 EMERALD Company Information
  - 13.11.2 EMERALD Tangential Air Separators Product Portfolios and Specifications
  - 13.11.3 EMERALD Tangential Air Separators Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.11.4 EMERALD Main Business Overview
  - 13.11.5 EMERALD Latest Developments
- 13.12 Ferguson

- 13.12.1 Ferguson Company Information
- 13.12.2 Ferguson Tangential Air Separators Product Portfolios and Specifications
- 13.12.3 Ferguson Tangential Air Separators Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.12.4 Ferguson Main Business Overview
- 13.12.5 Ferguson Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Tangential Air Separators Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Tangential Air Separators Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Tangential Centrifugal Type

Table 4. Major Players of Coalescing Type

Table 5. Major Players of Microbubble Type

Table 6. Global Tangential Air Separators Sales by Type (2021-2026) & (K Units)

Table 7. Global Tangential Air Separators Sales Market Share by Type (2021-2026)

Table 8. Global Tangential Air Separators Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Tangential Air Separators Revenue Market Share by Type (2021-2026)

Table 10. Global Tangential Air Separators Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Threaded Connection

Table 12. Major Players of Flange Connection

Table 13. Global Tangential Air Separators Sales by Connection Method (2021-2026) & (K Units)

Table 14. Global Tangential Air Separators Sales Market Share by Connection Method (2021-2026)

Table 15. Global Tangential Air Separators Revenue by Connection Method (2021-2026) & (\$ million)

Table 16. Global Tangential Air Separators Revenue Market Share by Connection Method (2021-2026)

Table 17. Global Tangential Air Separators Sale Price by Connection Method (2021-2026) & (US\$/Unit)

Table 18. Major Players of Cast Iron

Table 19. Major Players of Carbon Steel

Table 20. Major Players of Brass / Stainless Steel

Table 21. Global Tangential Air Separators Sales by Material (2021-2026) & (K Units)

Table 22. Global Tangential Air Separators Sales Market Share by Material (2021-2026)

Table 23. Global Tangential Air Separators Revenue by Material (2021-2026) & (\$ million)

Table 24. Global Tangential Air Separators Revenue Market Share by Material (2021-2026)

Table 25. Global Tangential Air Separators Sale Price by Material (2021-2026) &

(US\$/Unit)

Table 26. Global Tangential Air Separators Sale by Application (2021-2026) & (K Units)

Table 27. Global Tangential Air Separators Sale Market Share by Application (2021-2026)

Table 28. Global Tangential Air Separators Revenue by Application (2021-2026) & (\$ million)

Table 29. Global Tangential Air Separators Revenue Market Share by Application (2021-2026)

Table 30. Global Tangential Air Separators Sale Price by Application (2021-2026) & (US\$/Unit)

Table 31. Global Tangential Air Separators Sales by Company (2021-2026) & (K Units)

Table 32. Global Tangential Air Separators Sales Market Share by Company (2021-2026)

Table 33. Global Tangential Air Separators Revenue by Company (2021-2026) & (\$ millions)

Table 34. Global Tangential Air Separators Revenue Market Share by Company (2021-2026)

Table 35. Global Tangential Air Separators Sale Price by Company (2021-2026) & (US\$/Unit)

Table 36. Key Manufacturers Tangential Air Separators Producing Area Distribution and Sales Area

Table 37. Players Tangential Air Separators Products Offered

Table 38. Tangential Air Separators Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 39. New Products and Potential Entrants

Table 40. Market M&A Activity & Strategy

Table 41. Global Tangential Air Separators Sales by Geographic Region (2021-2026) & (K Units)

Table 42. Global Tangential Air Separators Sales Market Share Geographic Region (2021-2026)

Table 43. Global Tangential Air Separators Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 44. Global Tangential Air Separators Revenue Market Share by Geographic Region (2021-2026)

Table 45. Global Tangential Air Separators Sales by Country/Region (2021-2026) & (K Units)

Table 46. Global Tangential Air Separators Sales Market Share by Country/Region (2021-2026)

Table 47. Global Tangential Air Separators Revenue by Country/Region (2021-2026) &

(\$ millions)

Table 48. Global Tangential Air Separators Revenue Market Share by Country/Region (2021-2026)

Table 49. Americas Tangential Air Separators Sales by Country (2021-2026) & (K Units)

Table 50. Americas Tangential Air Separators Sales Market Share by Country (2021-2026)

Table 51. Americas Tangential Air Separators Revenue by Country (2021-2026) & (\$ millions)

Table 52. Americas Tangential Air Separators Sales by Type (2021-2026) & (K Units)

Table 53. Americas Tangential Air Separators Sales by Application (2021-2026) & (K Units)

Table 54. APAC Tangential Air Separators Sales by Region (2021-2026) & (K Units)

Table 55. APAC Tangential Air Separators Sales Market Share by Region (2021-2026)

Table 56. APAC Tangential Air Separators Revenue by Region (2021-2026) & (\$ millions)

Table 57. APAC Tangential Air Separators Sales by Type (2021-2026) & (K Units)

Table 58. APAC Tangential Air Separators Sales by Application (2021-2026) & (K Units)

Table 59. Europe Tangential Air Separators Sales by Country (2021-2026) & (K Units)

Table 60. Europe Tangential Air Separators Revenue by Country (2021-2026) & (\$ millions)

Table 61. Europe Tangential Air Separators Sales by Type (2021-2026) & (K Units)

Table 62. Europe Tangential Air Separators Sales by Application (2021-2026) & (K Units)

Table 63. Middle East & Africa Tangential Air Separators Sales by Country (2021-2026) & (K Units)

Table 64. Middle East & Africa Tangential Air Separators Revenue Market Share by Country (2021-2026)

Table 65. Middle East & Africa Tangential Air Separators Sales by Type (2021-2026) & (K Units)

Table 66. Middle East & Africa Tangential Air Separators Sales by Application (2021-2026) & (K Units)

Table 67. Key Market Drivers & Growth Opportunities of Tangential Air Separators

Table 68. Key Market Challenges & Risks of Tangential Air Separators

Table 69. Key Industry Trends of Tangential Air Separators

Table 70. Tangential Air Separators Raw Material

Table 71. Key Suppliers of Raw Materials

Table 72. Tangential Air Separators Distributors List

Table 73. Tangential Air Separators Customer List

Table 74. Global Tangential Air Separators Sales Forecast by Region (2027-2032) & (K

Units)

Table 75. Global Tangential Air Separators Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 76. Americas Tangential Air Separators Sales Forecast by Country (2027-2032) & (K Units)

Table 77. Americas Tangential Air Separators Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 78. APAC Tangential Air Separators Sales Forecast by Region (2027-2032) & (K Units)

Table 79. APAC Tangential Air Separators Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 80. Europe Tangential Air Separators Sales Forecast by Country (2027-2032) & (K Units)

Table 81. Europe Tangential Air Separators Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. Middle East & Africa Tangential Air Separators Sales Forecast by Country (2027-2032) & (K Units)

Table 83. Middle East & Africa Tangential Air Separators Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Global Tangential Air Separators Sales Forecast by Type (2027-2032) & (K Units)

Table 85. Global Tangential Air Separators Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 86. Global Tangential Air Separators Sales Forecast by Application (2027-2032) & (K Units)

Table 87. Global Tangential Air Separators Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 88. AMTROL Basic Information, Tangential Air Separators Manufacturing Base, Sales Area and Its Competitors

Table 89. AMTROL Tangential Air Separators Product Portfolios and Specifications

Table 90. AMTROL Tangential Air Separators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 91. AMTROL Main Business

Table 92. AMTROL Latest Developments

Table 93. Wessels Basic Information, Tangential Air Separators Manufacturing Base, Sales Area and Its Competitors

Table 94. Wessels Tangential Air Separators Product Portfolios and Specifications

Table 95. Wessels Tangential Air Separators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 96. Wessels Main Business

Table 97. Wessels Latest Developments

Table 98. John Wood Company, LLC Basic Information, Tangential Air Separators Manufacturing Base, Sales Area and Its Competitors

Table 99. John Wood Company, LLC Tangential Air Separators Product Portfolios and Specifications

Table 100. John Wood Company, LLC Tangential Air Separators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 101. John Wood Company, LLC Main Business

Table 102. John Wood Company, LLC Latest Developments

Table 103. American Wheatley Basic Information, Tangential Air Separators Manufacturing Base, Sales Area and Its Competitors

Table 104. American Wheatley Tangential Air Separators Product Portfolios and Specifications

Table 105. American Wheatley Tangential Air Separators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 106. American Wheatley Main Business

Table 107. American Wheatley Latest Developments

Table 108. Elbi Of America, Inc. Basic Information, Tangential Air Separators Manufacturing Base, Sales Area and Its Competitors

Table 109. Elbi Of America, Inc. Tangential Air Separators Product Portfolios and Specifications

Table 110. Elbi Of America, Inc. Tangential Air Separators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 111. Elbi Of America, Inc. Main Business

Table 112. Elbi Of America, Inc. Latest Developments

Table 113. TACO Comfort Basic Information, Tangential Air Separators Manufacturing Base, Sales Area and Its Competitors

Table 114. TACO Comfort Tangential Air Separators Product Portfolios and Specifications

Table 115. TACO Comfort Tangential Air Separators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 116. TACO Comfort Main Business

Table 117. TACO Comfort Latest Developments

Table 118. Penn Pump & Equipment Company, Inc. Basic Information, Tangential Air Separators Manufacturing Base, Sales Area and Its Competitors

Table 119. Penn Pump & Equipment Company, Inc. Tangential Air Separators Product Portfolios and Specifications

Table 120. Penn Pump & Equipment Company, Inc. Tangential Air Separators Sales (K

- Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 121. Penn Pump & Equipment Company, Inc. Main Business
- Table 122. Penn Pump & Equipment Company, Inc. Latest Developments
- Table 123. South Gate Engineering Basic Information, Tangential Air Separators Manufacturing Base, Sales Area and Its Competitors
- Table 124. South Gate Engineering Tangential Air Separators Product Portfolios and Specifications
- Table 125. South Gate Engineering Tangential Air Separators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 126. South Gate Engineering Main Business
- Table 127. South Gate Engineering Latest Developments
- Table 128. Thrush Basic Information, Tangential Air Separators Manufacturing Base, Sales Area and Its Competitors
- Table 129. Thrush Tangential Air Separators Product Portfolios and Specifications
- Table 130. Thrush Tangential Air Separators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 131. Thrush Main Business
- Table 132. Thrush Latest Developments
- Table 133. Flo Fab Basic Information, Tangential Air Separators Manufacturing Base, Sales Area and Its Competitors
- Table 134. Flo Fab Tangential Air Separators Product Portfolios and Specifications
- Table 135. Flo Fab Tangential Air Separators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 136. Flo Fab Main Business
- Table 137. Flo Fab Latest Developments
- Table 138. EMERALD Basic Information, Tangential Air Separators Manufacturing Base, Sales Area and Its Competitors
- Table 139. EMERALD Tangential Air Separators Product Portfolios and Specifications
- Table 140. EMERALD Tangential Air Separators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 141. EMERALD Main Business
- Table 142. EMERALD Latest Developments
- Table 143. Ferguson Basic Information, Tangential Air Separators Manufacturing Base, Sales Area and Its Competitors
- Table 144. Ferguson Tangential Air Separators Product Portfolios and Specifications
- Table 145. Ferguson Tangential Air Separators Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 146. Ferguson Main Business
- Table 147. Ferguson Latest Developments



## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Tangential Air Separators
- Figure 2. Tangential Air Separators Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Tangential Air Separators Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Tangential Air Separators Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Tangential Air Separators Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Tangential Air Separators Sales Market Share by Country/Region (2025)
- Figure 10. Tangential Air Separators Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Tangential Centrifugal Type
- Figure 12. Product Picture of Coalescing Type
- Figure 13. Product Picture of Microbubble Type
- Figure 14. Global Tangential Air Separators Sales Market Share by Type in 2026
- Figure 15. Global Tangential Air Separators Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Threaded Connection
- Figure 17. Product Picture of Flange Connection
- Figure 18. Global Tangential Air Separators Sales Market Share by Connection Method in 2026
- Figure 19. Global Tangential Air Separators Revenue Market Share by Connection Method (2021-2026)
- Figure 20. Product Picture of Cast Iron
- Figure 21. Product Picture of Carbon Steel
- Figure 22. Product Picture of Brass / Stainless Steel
- Figure 23. Global Tangential Air Separators Sales Market Share by Material in 2026
- Figure 24. Global Tangential Air Separators Revenue Market Share by Material (2021-2026)
- Figure 25. Tangential Air Separators Consumed in Metallurgy
- Figure 26. Global Tangential Air Separators Market: Metallurgy (2021-2026) & (K Units)
- Figure 27. Tangential Air Separators Consumed in Cement
- Figure 28. Global Tangential Air Separators Market: Cement (2021-2026) & (K Units)

- Figure 29. Tangential Air Separators Consumed in Electricity
- Figure 30. Global Tangential Air Separators Market: Electricity (2021-2026) & (K Units)
- Figure 31. Tangential Air Separators Consumed in Other
- Figure 32. Global Tangential Air Separators Market: Other (2021-2026) & (K Units)
- Figure 33. Global Tangential Air Separators Sale Market Share by Application (2025)
- Figure 34. Global Tangential Air Separators Revenue Market Share by Application in 2025
- Figure 35. Tangential Air Separators Sales by Company in 2025 (K Units)
- Figure 36. Global Tangential Air Separators Sales Market Share by Company in 2025
- Figure 37. Tangential Air Separators Revenue by Company in 2025 (\$ millions)
- Figure 38. Global Tangential Air Separators Revenue Market Share by Company in 2025
- Figure 39. Global Tangential Air Separators Sales Market Share by Geographic Region (2021-2026)
- Figure 40. Global Tangential Air Separators Revenue Market Share by Geographic Region in 2025
- Figure 41. Americas Tangential Air Separators Sales 2021-2026 (K Units)
- Figure 42. Americas Tangential Air Separators Revenue 2021-2026 (\$ millions)
- Figure 43. APAC Tangential Air Separators Sales 2021-2026 (K Units)
- Figure 44. APAC Tangential Air Separators Revenue 2021-2026 (\$ millions)
- Figure 45. Europe Tangential Air Separators Sales 2021-2026 (K Units)
- Figure 46. Europe Tangential Air Separators Revenue 2021-2026 (\$ millions)
- Figure 47. Middle East & Africa Tangential Air Separators Sales 2021-2026 (K Units)
- Figure 48. Middle East & Africa Tangential Air Separators Revenue 2021-2026 (\$ millions)
- Figure 49. Americas Tangential Air Separators Sales Market Share by Country in 2025
- Figure 50. Americas Tangential Air Separators Revenue Market Share by Country (2021-2026)
- Figure 51. Americas Tangential Air Separators Sales Market Share by Type (2021-2026)
- Figure 52. Americas Tangential Air Separators Sales Market Share by Application (2021-2026)
- Figure 53. United States Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Canada Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)
- Figure 55. Mexico Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)
- Figure 56. Brazil Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)
- Figure 57. APAC Tangential Air Separators Sales Market Share by Region in 2025
- Figure 58. APAC Tangential Air Separators Revenue Market Share by Region

(2021-2026)

Figure 59. APAC Tangential Air Separators Sales Market Share by Type (2021-2026)

Figure 60. APAC Tangential Air Separators Sales Market Share by Application (2021-2026)

Figure 61. China Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 62. Japan Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 63. South Korea Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 64. Southeast Asia Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 65. India Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 66. Australia Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 67. China Taiwan Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 68. Europe Tangential Air Separators Sales Market Share by Country in 2025

Figure 69. Europe Tangential Air Separators Revenue Market Share by Country (2021-2026)

Figure 70. Europe Tangential Air Separators Sales Market Share by Type (2021-2026)

Figure 71. Europe Tangential Air Separators Sales Market Share by Application (2021-2026)

Figure 72. Germany Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 73. France Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 74. UK Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 75. Italy Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 76. Russia Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 77. Middle East & Africa Tangential Air Separators Sales Market Share by Country (2021-2026)

Figure 78. Middle East & Africa Tangential Air Separators Sales Market Share by Type (2021-2026)

Figure 79. Middle East & Africa Tangential Air Separators Sales Market Share by Application (2021-2026)

Figure 80. Egypt Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 81. South Africa Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 82. Israel Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 83. Turkey Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 84. GCC Countries Tangential Air Separators Revenue Growth 2021-2026 (\$ millions)

Figure 85. Manufacturing Cost Structure Analysis of Tangential Air Separators in 2026

Figure 86. Manufacturing Process Analysis of Tangential Air Separators

Figure 87. Industry Chain Structure of Tangential Air Separators

Figure 88. Channels of Distribution

Figure 89. Global Tangential Air Separators Sales Market Forecast by Region  
(2027-2032)

Figure 90. Global Tangential Air Separators Revenue Market Share Forecast by Region  
(2027-2032)

Figure 91. Global Tangential Air Separators Sales Market Share Forecast by Type  
(2027-2032)

Figure 92. Global Tangential Air Separators Revenue Market Share Forecast by Type  
(2027-2032)

Figure 93. Global Tangential Air Separators Sales Market Share Forecast by  
Application (2027-2032)

Figure 94. Global Tangential Air Separators Revenue Market Share Forecast by  
Application (2027-2032)

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