

Air Ducts Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Air Ducts Market was valued at USD 5 billion in 2024 and is projected to register a CAGR of 3.9% between 2025 and 2034. This growth is largely driven by the rapid pace of urbanization worldwide and the rising adoption of stringent energy efficiency regulations. As global cities continue to expand, the need for residential, commercial, and industrial infrastructure has surged, directly impacting demand for advanced HVAC systems. These systems rely heavily on air ducts to maintain optimal indoor temperatures and air quality. The growing construction activity across developing and developed regions alike is boosting the installation of modern HVAC systems, consequently fueling the demand for air ducts that are efficient, sustainable, and easy to maintain.

HVAC systems are now a core feature in new buildings, primarily to ensure thermal comfort and energy efficiency. The growing emphasis on green construction practices is creating fresh opportunities in the air ducts industry, with a particular focus on products made from eco-friendly materials. In regions with extreme climates, especially where cooling and ventilation systems are indispensable, there is an evident rise in the use of durable and efficient air duct systems. Commercial buildings are leading adopters of these systems, as air ducts are critical to maintaining indoor air quality in high-traffic zones such as offices, retail stores, transit stations, and multi-use complexes. These areas require round-the-clock air circulation, increasing the necessity for high-performance ducts that are both functional and visually compatible with the architecture.

In 2024, galvanized steel air ducts held the largest share of the market, generating revenue of over USD 2.8 billion. This material remains a preferred choice among contractors and builders due to its exceptional durability and resistance to wear over time. Galvanized steel ducts require minimal upkeep and offer prolonged performance,

making them cost-effective over the long term. Polymer-based air ducts are also gaining traction and are expected to register a CAGR of around 3.6% from 2025 to 2034. These ducts are primarily made from cost-efficient and durable plastics such as PVC and polyethylene. They are lightweight, corrosion-resistant, and easy to install, providing a reliable solution for projects with tight budgets and strict timelines. Their smooth inner surfaces also minimize air resistance, leading to improved airflow and better overall HVAC performance.

The commercial sector dominated the air ducts market in 2024, accounting for about 47% of the global revenue share. Commercial facilities, especially those in urban centers, are prioritizing HVAC systems that support energy efficiency and air quality compliance. In these spaces, aesthetics also play a key role, pushing demand for air ducts that seamlessly integrate with modern interior designs. Ducts used in commercial setups must provide optimal airflow while being adaptable to various layouts and structural configurations.

By shape, round air ducts took the lead in 2024, capturing over 51% of the total market. Their aerodynamic design ensures efficient airflow with reduced noise and minimal pressure drop, making them ideal for both residential and commercial applications. Round ducts are also easier to clean and maintain, offering better long-term reliability and installation flexibility. Rectangular ducts, typically manufactured from metals like galvanized steel, are favored for large-scale commercial and industrial projects due to their structural robustness and compatibility with standardized building designs. These ducts are often integrated into ceilings or wall systems, offering a more compact footprint. Oval ducts, combining the features of both round and rectangular types, are also becoming increasingly popular. They offer a sleek appearance while maintaining strong airflow efficiency, making them ideal for modern buildings where performance and design go hand in hand.

North America represented a significant share of the global air ducts market in 2024, with the United States alone contributing approximately USD 930 million in revenue, which equated to nearly 80% of the regional share. The robust growth in construction and infrastructure development across the U.S. has spurred demand for advanced HVAC installations, particularly systems that support long-term sustainability goals. Builders are actively adopting ducts made from eco-conscious materials to comply with green building regulations and certifications. Moreover, the increased incorporation of smart HVAC systems is driving the need for compatible air ducts that can support connected technologies. This is resulting in a shift toward retrofitting older buildings with new-generation ductwork to enhance air quality, energy efficiency, and temperature

control.

Key players in the industry are investing in technology upgrades, facility expansions, and strategic partnerships to expand their market presence and meet evolving customer needs. These moves are enabling them to deliver high-performance air duct solutions that align with changing building codes, energy norms, and design expectations across global markets.

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 Manufactures
 - 3.1.6 Distributors
- 3.2 Supplier landscape
- 3.3 Key news & initiatives
- 3.4 Regulatory landscape
- 3.5 Impact forces
 - 3.5.1 Growth drivers
 - 3.5.1.1 Urbanization and infrastructure development
 - 3.5.1.2 Energy efficiency regulation
 - 3.5.1.3 Climate change
 - 3.5.2 Industry pitfalls & challenges
 - 3.5.2.1 High installation and maintenance costs
 - 3.5.2.2 Complexity of retrofitting in existing structures
- 3.6 Growth potential analysis
- 3.7 Porter's analysis

3.8 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 MATERIAL, 2021-2034 (USD BILLION) (THOUSAND UNITS)

- 5.1 Key trends
- 5.2 Galvanized steel
- 5.3 Aluminum
- 5.4 Fiber glass
- 5.5 Polymers
- 5.6 Others

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

- 6.1 Key trends
- 6.2 Rectangular
- 6.3 Round
- 6.4 Oval

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY END USE, 2021-2034 (USD BILLION) (THOUSAND UNITS)

- 7.1 Key trends
- 7.2 Residential
- 7.3 Commercial
- 7.4 Industrial

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2034 (USD BILLION) (THOUSAND UNITS)

- 8.1 Key trends

8.2 North America

8.2.1 U.S.

8.2.2 Canada

8.3 Europe

8.3.1 UK

8.3.2 Germany

8.3.3 France

8.3.4 Italy

8.3.5 Spain

8.3.6 Russia

8.4 Asia Pacific

8.4.1 China

8.4.2 India

8.4.3 Japan

8.4.4 South Korea

8.4.5 Australia

8.5 Latin America

8.5.1 Brazil

8.5.2 Mexico

8.6 MEA

8.6.1 UAE

8.6.2 Saudi Arabia

8.6.3 South Africa

CHAPTER 9 COMPANY PROFILES

9.1 DC Duct & Sheet Metal

9.2 Deflecto

9.3 DUNDAS JAFINE

9.4 Eastern Sheet Metal

9.5 Lindab Group

9.6 Lennox International

9.7 M&M Manufacturing

9.8 Novaflex Group

9.9 Nuaire

9.10 Rubber World Industries

9.11 Ruskin Titus India

9.12 Saint-Gobain

9.13 Sisneros Bros

9.14 Thermaflex

9.15 Tin Man Sheet Metal

9.16 Turnkey Duct Systems

9.17 Zinger Sheet Metal

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