

Air Duct Market to Grow from \$13.9 Billion in 2021 to \$22.7 Billion by 2031, with a CAGR of 4.8% (2022–2031)

Air Duct Market Size, Share, Competitive Landscape and Trend Analysis Report, by Material, by Installation type, by End-user industry

WILMINGTON, DE, UNITED STATES, July 8, 2025 /EINPresswire.com/ -- Introduction

The [global air duct market](#), as outlined in a comprehensive report by Allied Market Research titled “Air Duct Market,” was valued at \$13.9 billion in 2021 and is projected to reach \$22.7 billion by 2031, reflecting a compound annual growth rate (CAGR) of 4.8% from 2022 to 2031. Air ducts are integral components of ventilation, heating, and air conditioning (HVAC) systems, facilitating the circulation of conditioned air in residential, commercial, and industrial settings. This article delves into the market’s growth drivers, key components, materials, applications, regional dynamics, and the impact of external factors such as the COVID-19 pandemic, providing a detailed overview of current trends and future opportunities.

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Overview of Air Duct Systems

Air duct systems are critical for maintaining indoor air quality and thermal comfort by distributing cooled or heated air through HVAC systems. These systems comprise various components, including smoke and fire dampers, vibration isolators, volume control dampers, chimney collars and heads, baffles, termination units, plenums, and air diffusers. Each component plays a unique role in ensuring efficient airflow, safety, and system performance. Air ducts are designed in various shapes—oval, rectangular, or round—and are constructed from materials such as aluminum, galvanized steel, metallic, or non-metallic substances, depending on specific requirements like durability, cost, or environmental conditions.

The versatility of air ducts makes them indispensable across diverse applications, from residential homes to large-scale commercial projects like airports, hotels, and skyscrapers. The choice of material and design is influenced by factors such as the building’s purpose, environmental conditions, and regulatory standards, ensuring optimal performance and compliance with safety protocols.

Key Drivers of Market Growth

Several factors are propelling the growth of the air duct market, with increasing concerns about indoor air quality and environmental sustainability at the forefront. Poor indoor air quality has been linked to health issues such as respiratory problems, allergies, and fatigue, driving demand for efficient HVAC systems equipped with advanced air ducts. As awareness of these health risks grows, both residential and commercial sectors are prioritizing air duct installations to ensure clean and safe indoor environments.

Environmental concerns also play a significant role, as governments and organizations worldwide push for energy-efficient and eco-friendly building solutions. Green building initiatives, particularly in developed and developing nations, emphasize sustainable HVAC systems that reduce energy consumption and carbon footprints. Air ducts, designed to optimize airflow and minimize energy loss, are critical to achieving these goals, further boosting market demand.

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The global surge in infrastructure development is another key driver. Rapid urbanization and industrialization in countries such as China, India, Vietnam, and Indonesia have led to a boom in construction activities, including new airports, hotels, multiplexes, office buildings, and high-speed transportation hubs. These projects require sophisticated HVAC systems, increasing the demand for air ducts. The rise in tall buildings and skyscrapers, particularly in urban centers, further fuels market growth, as these structures rely heavily on advanced ventilation systems to maintain air quality and comfort.

Moreover, the hospitality sector, including hotels and restaurants, has seen increased investment in air conditioning and ventilation systems as a matter of prestige and customer satisfaction. The need for superior air quality and thermal comfort in these establishments has created lucrative opportunities for air duct manufacturers and suppliers.

Market Segmentation and Trends

The air duct market is segmented by product type, end-user industry, and region, each offering unique insights into growth patterns and opportunities.

By Product Type

In 2021, the metallic segment dominated the market in terms of revenue, owing to the durability, strength, and widespread use of materials like galvanized steel and aluminum in commercial and industrial applications. Metallic ducts are favored for their ability to withstand high temperatures and harsh environmental conditions, making them ideal for large-scale projects. However, the non-metallic segment is projected to grow at a significant CAGR during the forecast period, driven by advancements in materials such as fiberglass and flexible polymers. Non-metallic ducts are lightweight, cost-effective, and easier to install, making them increasingly popular in residential and smaller commercial projects.

By End-User Industry

The commercial sector accounted for the highest revenue in 2021, driven by the proliferation of office buildings, retail complexes, and hospitality establishments. The demand for air ducts in commercial settings is fueled by the need for efficient HVAC systems to accommodate large occupant volumes and ensure compliance with building codes. Meanwhile, the residential and industrial segments are also witnessing steady growth, supported by rising housing construction and industrial facility expansions.

By Region

Asia-Pacific held the largest share of the global air duct market in 2021, driven by rapid urbanization and industrialization in countries like China, India, Vietnam, and Indonesia. These nations are experiencing significant construction activity, supported by government investments in infrastructure and smart city projects. The region is projected to register the highest growth rate in the coming years, as demand for energy-efficient HVAC systems continues to rise. North America and Europe also contribute significantly to the market, driven by stringent regulations on indoor air quality and energy efficiency, while emerging markets in Latin America and the Middle East are expected to offer new growth opportunities.

Impact of COVID-19

The COVID-19 pandemic had a significant impact on the air duct market, as it disrupted manufacturing and supply chains in key regions such as China, the U.S., and India. Lockdowns and restrictions led to a shortage of manpower and raw materials, hampering production and sales. Many construction projects were delayed or halted, further affecting demand for air ducts. However, the market has shown resilience, with the reopening of production facilities and the introduction of vaccines facilitating a recovery. As economies stabilize and construction activities resume, the air duct market is poised for steady growth, supported by pent-up demand and renewed focus on indoor air quality in a post-pandemic world.

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Competitive Landscape and Strategic Developments

The air duct market is highly competitive, with major players adopting strategies such as product launches and acquisitions to strengthen their market position. For instance, in August 2021, Emerson introduced the Copeland 110cc speed scroll variable compressor with a 36-kW inverter drive, designed to enhance energy efficiency in commercial air-conditioning applications such as chillers, data centers, and package air conditioners. Such innovations are expected to drive market growth by offering energy-efficient and environmentally friendly solutions that align with global sustainability goals.

Other key players are focusing on expanding their product portfolios and improving distribution networks to capture emerging markets. Collaborations with construction firms and HVAC system

integrators are also common, as companies seek to capitalize on the growing demand for air ducts in infrastructure projects.

Future Outlook

The air duct market is expected to experience robust growth from 2022 to 2031, driven by ongoing trends in urbanization, infrastructure development, and environmental consciousness. The forecast period will likely see increased adoption of non-metallic ducts, advancements in smart HVAC technologies, and greater emphasis on energy-efficient systems. The market's growth trajectory will be further supported by government policies promoting green buildings and stricter regulations on indoor air quality.

Key Findings

The metallic segment led the market in revenue in 2021, while the non-metallic segment is expected to grow at a significant CAGR.

The commercial sector was the largest revenue contributor in 2021, driven by demand for advanced HVAC systems.

Asia-Pacific is projected to register the highest growth rate, fueled by rapid urbanization and construction activities.

The market faced challenges during the COVID-19 pandemic but is recovering with the resumption of production and construction activities.

Strategic product launches and acquisitions by key players are shaping the competitive landscape and driving innovation.

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