

Airflow Balancer Market to Reach USD 612.8 Million by 2035, Growing at 4.1% CAGR | FMI Report

airflow balancer market is growing steadily, driven by smart HVAC integration, energy efficiency trends, and rising demand for intelligent ventilation systems.

NEWARK, DE, UNITED STATES, November 3, 2025 /EINPresswire.com/ -- The global [airflow balancer market](#) is entering a phase of remarkable growth and technological transformation. According to market projections, the sector is expected to grow from USD 410.0 million in 2025 to USD 612.8 million by 2035, registering a CAGR of 4.1%. This steady growth is primarily driven by the increasing emphasis on energy efficiency, improved indoor air quality (IAQ), and the integration of smart technologies in building ventilation systems across commercial, industrial, and residential sectors.



Market Segmentation Overview

The airflow balancer market is segmented by product type, system application, connection size, sales channel, and region. These categories highlight the diverse range of products and applications shaping the industry's development.

In terms of product type, the market includes manual balancing valves, automatic or pressure-independent balancers, electronic airflow balancers, and smart or IoT-enabled balancers. Among these, manual balancing valves continue to hold a substantial market share due to their reliability and cost-effectiveness. However, electronic and smart balancers are witnessing increasing adoption as digital technologies transform the HVAC industry.

By system application, airflow balancers are widely used in HVAC systems for commercial buildings, industrial ventilation, cleanrooms, laboratories, and residential settings. Commercial HVAC applications currently dominate the market, driven by expanding infrastructure, retrofitting projects, and growing awareness about IAQ. Meanwhile, industrial and cleanroom segments are expanding rapidly as demand for precise airflow control in critical environments intensifies.

Connection size is another important segmentation factor. The market is categorized into $\leq$ DN100, DN101–DN200, and above DN200. Smaller connection sizes are prevalent in residential and retrofit projects, while larger diameters are commonly used in industrial and commercial buildings.

From a sales channel perspective, project or EPC-based sales and distributors account for a significant share. However, OEMs, skid builders, and online channels are gaining traction, particularly as the demand for customized systems and retrofit solutions increases. Regionally, the market spans North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa, with Asia Pacific emerging as the fastest-growing market due to urbanization and smart city initiatives.

Growth Outlook

Between 2025 and 2035, the airflow balancer market's expansion reflects both rising demand and evolving technology. The global transition toward smarter and more energy-efficient buildings is fueling the integration of IoT-enabled airflow systems capable of real-time monitoring and adjustment. These solutions improve overall HVAC system efficiency, reduce energy consumption, and ensure compliance with regulatory standards.

Energy-efficient ventilation is becoming a critical factor for commercial and industrial users, particularly in sectors such as pharmaceuticals, food processing, and healthcare, where clean air management is essential. Government regulations focusing on green buildings and energy conservation further support market growth. Additionally, the increasing replacement of outdated HVAC systems with modern, connected systems in mature markets such as North America and Europe contributes significantly to revenue expansion.

Emerging economies are witnessing rapid adoption of airflow balancing technologies as part of new infrastructure projects. The surge in construction activity, combined with growing awareness of air quality, positions developing regions as lucrative markets for manufacturers and system integrators.

Recent Developments and Competitive Dynamics

The airflow balancer market is highly competitive, characterized by a mix of global HVAC giants

and specialized balancing solution providers. Key companies such as Belimo Holding AG, Siemens Building Products, Honeywell Building, Johnson Controls, Danfoss, Griswold Controls, Tour & Andersson (IMI), Nailor Industries, Ruskin, and Spirotech dominate the industry landscape.

Recent years have witnessed strategic mergers, acquisitions, and partnerships among these players, aiming to enhance product portfolios and strengthen global reach. The competitive focus is shifting toward technological innovation, particularly in the development of smart and IoT-enabled airflow balancers. These advanced devices provide precise control, remote monitoring, and integration with building management systems (BMS), supporting the broader trend toward intelligent infrastructure.

Manual balancing valves continue to represent the backbone of the market; however, automatic, electronic, and smart systems are experiencing higher growth rates. Companies are investing heavily in R&D to develop digital solutions that provide accurate performance monitoring and predictive maintenance capabilities. This technological evolution is reshaping the competitive dynamics, as traditional mechanical solutions give way to intelligent and connected devices.

Distribution strategies are also evolving. While traditional project and distributor channels remain dominant, online and OEM-based channels are rapidly expanding, catering to smaller contractors, retrofit projects, and direct procurement models. This diversification allows manufacturers to reach a broader customer base and respond more effectively to regional market needs.

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Regional and Segmental Outlook

North America and Europe remain the largest markets due to strong regulatory frameworks, mature HVAC industries, and widespread adoption of energy-efficient technologies. The Asia Pacific region, however, is expected to lead in terms of growth rate, supported by rapid industrialization, urbanization, and a rising focus on sustainable construction practices. Latin America, the Middle East, and Africa are also poised for gradual growth as infrastructure development and HVAC adoption increase.

Within product segments, smart and IoT-enabled balancers are projected to record the fastest growth, driven by their role in enabling energy-efficient and automated ventilation systems. Industrial ventilation, cleanrooms, and laboratories will remain crucial application areas due to their stringent airflow control requirements. Residential demand, while comparatively smaller, is

expected to rise with the growing popularity of smart homes and premium ventilation systems.

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