

Global Ventilation on Demand System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ventilation on Demand System market size is expected to reach \$ 1010 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

In 2025, global Ventilation on Demand System production reached approximately 10,000 units, with an average selling price of around US\$ 60,000 per unit. Ventilation on Demand System is an intelligent ventilation solution that utilizes sensors, automated control technology, and intelligent software platforms to adjust ventilation volume in real time based on personnel activity, equipment operating status, air quality, and environmental conditions. By monitoring parameters such as carbon dioxide concentration, dust levels, harmful gas concentrations, temperature and humidity, vehicle location, and personnel distribution, the system dynamically controls the operation of fans, dampers, and the ventilation network to achieve on-demand air supply and precise ventilation. Compared to traditional continuous fixed-volume ventilation methods, on-demand ventilation systems significantly reduce energy consumption, minimize equipment wear, improve air quality, and increase operational efficiency. This technology is widely used in underground mines, tunnel projects, industrial plants, commercial buildings, underground parking lots, and public facilities. In the mining industry, on-demand ventilation can automatically adjust air volume based on the location of mining equipment and workers; in the construction industry, it can optimize fresh air supply based on personnel density and changes in air quality. With the development of the Internet of Things, artificial intelligence, digital twins, and wireless positioning technologies, on-demand ventilation systems are continuously upgrading towards intelligent, networked, and predictive control.

The global Ventilation-on-Demand system market is experiencing continuous growth

driven by energy conservation, emission reduction, increased safety requirements, and the development of intelligent infrastructure. North America, with its mature mining, commercial building, and industrial automation foundation, leads in system integration and intelligent control applications. Europe, driven by stringent energy efficiency regulations, green building standards, and carbon reduction policies, has a high adoption rate of VOD technology. The Asia-Pacific region is the fastest-growing market, fueled by mine modernization, urban infrastructure expansion, and increased investment in smart buildings. Latin America, the Middle East, and Africa are primarily driven by demand from mining development and large-scale infrastructure projects. Currently, the market is widely used in underground mines, tunnels, industrial plants, underground parking lots, and commercial buildings, with its core value lying in reducing ventilation energy consumption, improving air quality, and enhancing operational safety. In the future, the industry will evolve towards AI-optimized control, digital twin ventilation management, IoT real-time monitoring, wireless positioning linkage, and cloud-based operation and maintenance platforms to achieve more precise and predictive ventilation adjustments. However, high initial investment, stringent sensor reliability requirements in complex environments, significant challenges in retrofitting existing facilities, and a shortage of professional maintenance personnel remain major challenges for industry adoption. Overall, on-demand ventilation systems represent a technology-driven energy-saving solutions market, with average gross margins typically ranging from 30% to 50%. Integrated software, intelligent control platforms, and customized system solutions offer relatively higher profitability.

This report studies the global Ventilation on Demand System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ventilation on Demand System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ventilation on Demand System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ventilation on Demand System total production and demand, 2021-2032, (Units)
Global Ventilation on Demand System total production value, 2021-2032, (USD Million)
Global Ventilation on Demand System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Ventilation on Demand System consumption by region & country, CAGR,

2021-2032 & (Units)

U.S. VS China: Ventilation on Demand System domestic production, consumption, key domestic manufacturers and share

Global Ventilation on Demand System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Ventilation on Demand System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Ventilation on Demand System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Ventilation on Demand System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB, Epiroc, Honeywell, Johnson Controls, VentSim, Minetek, Halton, Swegon, Lindab, Aereco, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ventilation on Demand System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ventilation on Demand System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ventilation on Demand System Market, Segmentation by Type:

Hardware

Software

Global Ventilation on Demand System Market, Segmentation by Technology:

Air Quality-Based Control

Occupancy-Based Control

Equipment-Based Control

Location-Based Control

Global Ventilation on Demand System Market, Segmentation by Scale:

Small-scale Ventilation on Demand System ($<500,000 \text{ m}^3/\text{h}$)

Medium-scale Ventilation on Demand System ($500,000\text{--}2,000,000 \text{ m}^3/\text{h}$)

Large-scale Ventilation on Demand System ($>2,000,000 \text{ m}^3/\text{h}$)

Global Ventilation on Demand System Market, Segmentation by Application:

Residential Buildings

Commercial Buildings

Mining

Others

Companies Profiled:

ABB

Epiroc

Honeywell

Johnson Controls

VentSim

Minetek

Halton

Swegon

Lindab

Aereco

Schneider Electric

Carrier

Trane Technologies

Emerson

Daikin Industries

Mitsubishi Electric

Panasonic

Nedfon

Key Questions Answered:

1. How big is the global Ventilation on Demand System market?
2. What is the demand of the global Ventilation on Demand System market?
3. What is the year over year growth of the global Ventilation on Demand System market?
4. What is the production and production value of the global Ventilation on Demand System market?
5. Who are the key producers in the global Ventilation on Demand System market?
6. What are the growth factors driving the market demand?

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