

Global Rectangular Duct Impedance-Type Composite Silencer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Rectangular Duct Impedance-Type Composite Silencer market size is expected to reach \$ 169 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

The rectangular duct impedance-type composite silencer is a noise-reduction device installed within rectangular ventilation ducts; it combines the resistive noise attenuation provided by sound-absorbing materials with the reactive attenuation achieved through cavity resonance to effectively reduce broadband noise.

The upstream supply chain involves materials such as galvanized steel sheets, stainless steel sheets, perforated plates, glass wool, rock wool, sealing components, and flame-retardant materials, as well as sheet metal processing equipment. The downstream market targets the HVAC, industrial ventilation, and construction engineering sectors.

Globally, the average unit price for rectangular duct impedance-type composite silencers stands at approximately US\$610 per unit. Global sales volume is estimated at around 197,800 units, with an annual production capacity ranging from 250,000 to 350,000 units, and an industry profit margin of approximately 22%.

The global market for rectangular duct impedance-type composite silencers is poised for continued growth, driven by increasingly stringent requirements for acoustic environments in buildings, intensified efforts in industrial noise control, and ongoing energy-efficiency upgrades in HVAC systems. Compared to standard resistive silencers, this product category offers a balanced capability for both mid-to-high-

frequency sound absorption and low-frequency noise attenuation, making it particularly well-suited for complex noise environments such as fan rooms, air conditioning units, data centers, hospitals, rail transit facilities, and industrial plants. Future product development will trend toward lower airflow resistance, higher noise attenuation performance, enhanced fire resistance and flame retardancy, improved corrosion resistance, and greater modularity and customization capabilities. Furthermore, advancements will focus on optimizing the structure of attenuation baffles, airflow channels, and composite sound-absorbing materials to minimize system pressure loss and operational energy consumption. The rising demand for green buildings, stricter occupational health standards, and advanced clean ventilation systems will also drive the expanded application of these silencers in high-end public buildings and industrial noise-reduction projects.

This report studies the global Rectangular Duct Impedance-Type Composite Silencer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Rectangular Duct Impedance-Type Composite Silencer 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 Rectangular Duct Impedance-Type Composite Silencer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Rectangular Duct Impedance-Type Composite Silencer total production and demand, 2021-2032, (Units)

Global Rectangular Duct Impedance-Type Composite Silencer total production value, 2021-2032, (USD Million)

Global Rectangular Duct Impedance-Type Composite Silencer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Rectangular Duct Impedance-Type Composite Silencer consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Rectangular Duct Impedance-Type Composite Silencer domestic production, consumption, key domestic manufacturers and share

Global Rectangular Duct Impedance-Type Composite Silencer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Rectangular Duct Impedance-Type Composite Silencer production by Type,

production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Rectangular Duct Impedance-Type Composite Silencer production by
Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Rectangular Duct Impedance-Type Composite Silencer 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 TROX, Lindab, Systemair, Swegon, Fl?ktGroup, Price Industries, Greenheck, Ruskin, Kinetics Noise Control, Vibro-Acoustics, 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 Rectangular Duct Impedance-Type Composite Silencer 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 Rectangular Duct Impedance-Type Composite Silencer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Rectangular Duct Impedance-Type Composite Silencer Market, Segmentation by Type:

Resistive-Dominant Composite Silencer

Reactive-Dominant Composite Silencer

Resonance-Absorption Composite Silencer

Micro-Perforated Composite Silencer

Global Rectangular Duct Impedance-Type Composite Silencer Market, Segmentation by Structure Type:

Rectangular Splitter Composite Silencer

Rectangular Baffle Composite Silencer

Rectangular Chamber Composite Silencer

Rectangular Lined Duct Composite Silencer

Rectangular Plenum Composite Silencer

Global Rectangular Duct Impedance-Type Composite Silencer Market, Segmentation by Airflow Path:

Straight-Through Rectangular Composite Silencer

Elbow Rectangular Composite Silencer

Offset Rectangular Composite Silencer

Multi-Channel Rectangular Composite Silencer

Low-Resistance Rectangular Composite Silencer

Global Rectangular Duct Impedance-Type Composite Silencer Market, Segmentation by Application:

Commercial Building

Hospital

Data Center

Industrial

Metro and Rail Transit

Others

Companies Profiled:

TROX

Lindab

Systemair

Swegon

Fl?ktGroup

Price Industries

Greenheck

Ruskin

Kinetics Noise Control

Vibro-Acoustics

IAC Acoustics

Nailor

Aldes

France Air

Sasakura AE

Tylon

CATJC Taj Kee

GRAD Group

Shinelong

Halton

Xingheng Group

Key Questions Answered:

1. How big is the global Rectangular Duct Impedance-Type Composite Silencer market?
2. What is the demand of the global Rectangular Duct Impedance-Type Composite Silencer market?
3. What is the year over year growth of the global Rectangular Duct Impedance-Type Composite Silencer market?
4. What is the production and production value of the global Rectangular Duct Impedance-Type Composite Silencer market?
5. Who are the key producers in the global Rectangular Duct Impedance-Type Composite Silencer market?

6. What are the growth factors driving the market demand?

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