

Global Rectangular Duct Impedance-Type Composite Silencer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Rectangular Duct Impedance-Type Composite Silencer market size was valued at US\$ 124 million in 2025 and is forecast to a readjusted size of US\$ 169 million by 2032 with a CAGR of 4.4% during review period.

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 is a detailed and comprehensive analysis for global Rectangular Duct Impedance-Type Composite Silencer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Rectangular Duct Impedance-Type Composite Silencer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Rectangular Duct Impedance-Type Composite Silencer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Rectangular Duct Impedance-Type Composite Silencer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Rectangular Duct Impedance-Type Composite Silencer market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit),

2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Rectangular Duct Impedance-Type Composite Silencer

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Rectangular Duct Impedance-Type Composite Silencer market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Rectangular Duct Impedance-Type Composite Silencer market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Resistive-Dominant Composite Silencer

Reactive-Dominant Composite Silencer

Resonance-Absorption Composite Silencer

Micro-Perforated Composite Silencer

Market segment by Structure Type

Rectangular Splitter Composite Silencer

Rectangular Baffle Composite Silencer

Rectangular Chamber Composite Silencer

Rectangular Lined Duct Composite Silencer

Rectangular Plenum Composite Silencer

Market segment 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

Market segment by Application

Commercial Building

Hospital

Data Center

Industrial

Metro and Rail Transit

Others

Major players covered

TROX

Lindab

Systemair

Swegon

FlaktGroup

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Rectangular Duct Impedance-Type Composite Silencer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Rectangular Duct Impedance-Type Composite Silencer, with price, sales quantity, revenue, and global market share of Rectangular Duct Impedance-Type Composite Silencer from 2021 to 2026.

Chapter 3, the Rectangular Duct Impedance-Type Composite Silencer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Rectangular Duct Impedance-Type Composite Silencer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Rectangular Duct Impedance-Type Composite Silencer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Rectangular Duct Impedance-Type Composite Silencer.

Chapter 14 and 15, to describe Rectangular Duct Impedance-Type Composite Silencer sales channel, distributors, customers, research findings and conclusion.

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