

Round Sound Attenuators Market Forecasts to 2034 – Global Analysis By Product Type (Circular Elbow Silencers and Circular Splitters), Material (Fiber glass Round Attenuators and Metallic Round Sound Attenuators), End User and By Geography

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Abstracts

According to Statistics MRC, the Global Round Sound Attenuators Market is accounted for \$554.2 million in 2026 and is expected to reach \$870.1 million by 2034 growing at a CAGR of 5.8% during the forecast period. Round sound attenuators are acoustic devices designed to reduce or control the level of noise or sound within a specific space by attenuating and dampening sound waves. Round sound attenuators are designed to optimize airflow within ventilation systems, promoting energy efficiency. By minimizing pressure drops and resistance to airflow, these attenuators contribute to the overall efficiency of HVAC systems.

Market Dynamics:

Driver:

Rising focus on energy efficiency

As energy conservation and sustainability become major priorities across industries, round sound attenuators play an important role in achieving energy-efficient operations in ventilation and air conditioning systems. Round sound attenuators are designed to minimize noise transmission while maintaining optimal airflow performance. Additionally, by optimizing airflow, these attenuators help reduce the energy consumption of HVAC systems. As a result, the rising focus on energy efficiency is a significant factor propelling market growth.

Restraint:

Maintenance challenges

Maintenance challenges pose a significant restraint in the round-sound attenuator market. Round sound attenuators, with their intricate internal structures designed for effective sound absorption, may require regular maintenance to ensure optimal performance. Accessing and cleaning the internal components of round sound attenuators can be a complex and labor-intensive process, especially when installed in spaces that are challenging to reach.

Opportunity:

Technological advancements

Continuous innovation and development in materials, manufacturing techniques, and acoustic engineering have led to improved performance and efficiency of round sound attenuators, driving their demand in various applications. Advanced manufacturing techniques, such as computer-aided design (CAD) and computer numerical control (CNC) machining, enable the production of round sound attenuators with precise dimensions, complex geometries, and improved performance. Therefore, technological advancements play a significant role in accelerating market demand.

Threat:

Availability of alternative noise control solutions

As industries and construction projects struggle with noise mitigation challenges, a variety of alternative technologies and materials emerge as contenders against round sound attenuators. These alternatives, including soundproofing materials, acoustic panels, and other noise reduction techniques, may be perceived as more versatile, cost-effective, or aesthetically appealing in specific applications, diverting demand from round sound attenuators. Therefore, the availability of alternative noise control solutions is a significant restraint hampering market expansion.

Covid-19 Impact

The global economic slowdown, disruptions in construction activities, and shifts in

spending priorities influenced the demand for round-sound attenuators. Construction projects faced delays or cancellations due to lockdowns, supply chain disruptions, and workforce challenges, directly affected the installation of sound control solutions. Moreover, the heightened focus on health and safety during the pandemic led to changes in workspace design and a reassessment of ventilation systems.

The circular splitters segment is expected to be the largest during the forecast period

The circular splitters segment is estimated to hold the largest share. These devices are designed to evenly distribute airflow within circular attenuators, ensuring optimal sound attenuation performance. The primary function of circular splitters is to redirect and regulate the flow of air through the attenuator, facilitating effective noise reduction. Circular splitters are strategically placed within the round sound attenuators to create turbulence in the airflow, breaking down sound waves and dissipating acoustic energy.

The fiber glass round attenuators segment is expected to have the highest CAGR during the forecast period

The fiber glass round attenuators segment is anticipated to have lucrative growth during the forecast period. These round attenuators with fiber glass linings act as sound absorbers, capturing and dampening sound waves as they pass through the system. The porous nature of fiber glass enhances its sound-absorbing capabilities, contributing to a quieter and more comfortable environment in various industrial and commercial settings. Additionally, fiber glass round attenuators often come with a smooth internal surface, minimizing airflow resistance and optimizing the overall efficiency of ventilation systems.

Region with largest share:

Asia Pacific commanded the largest market share during the extrapolated period owing to rapid industrialization, urbanization, and infrastructure development. As industries expand and urban areas become more densely populated, the awareness and importance of mitigating noise pollution have escalated. Moreover, the construction boom in emerging economies, coupled with the increasing focus on sustainable building practices, has further augmented the market in this region.

Region with highest CAGR:

North America is expected to witness profitable growth over the projection period, due

to increased infrastructural development, particularly in HVAC systems across commercial and industrial sectors. The region's focus on energy efficiency, stringent noise regulations, and the demand for improved indoor air quality contribute to market expansion. Major construction activities in the United States and Canada drive the adoption of round sound attenuators. Furthermore, innovations in acoustics and ventilation technologies, coupled with a growing emphasis on green building practices, position North America as a key market for round sound attenuators, fostering competitive dynamics and technological advancements.

Key players in the market

Some of the key players in the Round Sound Attenuators Market include Elta Group, Systemair, TROX, Vibro-Acoustics, Taikisha Ltd., Kinetics Noise Control, Lindab, Volution and Air Master Equipments Emirates.

Key Developments:

In December 2022, Vibro-Acoustics announces the partnership with ACI Mechanical and HVAC Sales. This new relationship will cover Vibro-Acoustics' industry-leading suite of products for suspended and non-suspended systems at ACI in Washington, Oregon, and Northern Idaho.

In August 2022, Elta Group, industry leaders in sustainable air movement, has announced a new partnership with air monitoring pioneer Air things. The collaboration will allow building owners, tenants, and facility managers to better monitor and report on the indoor air quality within the building they occupy.

Product Types Covered:

Circular Elbow Silencers

Circular Splitters

Materials Covered:

Fiber glass Round Attenuators

Metallic Round Sound Attenuators

End Users Covered:

Industrial

Residential

Commercial

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical

presence, and strategic alliances

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