

Saudi Arabia Energy Recovery Ventilator Market Segmented By Type (Ceiling-Mount, Wall-Mount and Cabinet), Technology (Heat Pipe Heat Exchanger, Run-Around Coil, Plate Heat Exchanger, Rotary Heat Exchanger and Others), Application (Residential, Industrial, Commercial and Others), By Region, and By Competition, 2018-2028F

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Abstracts

Saudi Arabia Energy Recovery Ventilator Market has valued at USD 104.57 million in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 8.05% through 2028. The citizens of Saudi Arabia, along with many others worldwide, are increasingly aware of the potential health hazards linked to poor indoor air quality (IAQ). Prolonged exposure to indoor pollutants, allergens, and contaminants can result in respiratory ailments, allergies, and other health complications. This growing awareness is fueling the need for efficient IAQ solutions such as Energy Recovery Ventilators (ERVs).

Key Market Drivers

Growing Awareness of Indoor Air Quality

The Energy Recovery Ventilator (ERV) market in Saudi Arabia is witnessing substantial growth propelled by the escalating recognition of indoor air quality (IAQ) among residential and commercial consumers. With the rising amount of time spent indoors, there is a growing apprehension about the health implications of poor air quality. In Saudi Arabia, where extreme weather conditions often necessitate reliance on air conditioning, ERVs are becoming indispensable for maintaining a healthy indoor

environment.

One significant factor contributing to this trend is the realization that indoor air can be more polluted than outdoor air, especially in urban areas with high pollution levels. Saudi citizens are increasingly concerned about indoor allergens, pollutants, and microorganisms that can accumulate. ERVs are designed to address this issue by continuously exchanging stale indoor air with fresh outdoor air while simultaneously recovering energy from the exhaust air. This not only enhances IAQ but also reduces energy consumption, making ERVs an appealing choice for environmentally conscious consumers.

Furthermore, regulatory bodies and government initiatives in Saudi Arabia are actively promoting better IAQ. Building codes and regulations are being updated to incorporate ventilation requirements that encourage the adoption of ERVs. Incentive programs and subsidies for energy-efficient HVAC systems, including ERVs, are being introduced to drive their widespread usage. This growing awareness and support from authorities serve as significant drivers for the ERV market in Saudi Arabia.

In conclusion, the increasing awareness of indoor air quality and associated health concerns, coupled with supportive government initiatives and updated building codes, are propelling the growth of the Energy Recovery Ventilator market in Saudi Arabia.

Energy Efficiency & Sustainability Goals

Energy efficiency and sustainability have emerged as critical considerations in Saudi Arabia's efforts to reduce its carbon footprint and decrease reliance on fossil fuels. As the nation strives to transition towards a more sustainable and eco-friendly future, the Energy Recovery Ventilator (ERV) market is experiencing growth due to the increasing emphasis on energy-efficient HVAC solutions.

Saudi Arabia, renowned for its scorching summers and harsh desert climate, faces significant energy consumption for cooling purposes. ERVs play a pivotal role in mitigating this energy usage by recovering heat and moisture from the outgoing air and utilizing it to condition the incoming fresh air. This process substantially alleviates the burden on conventional HVAC systems, leading to substantial energy savings.

Aligned with the Saudi Vision 2030 initiative, which aims to diversify the country's economy and promote sustainability, the government has implemented regulations and incentives to foster the adoption of energy-efficient technologies such as ERVs. These

measures encompass tax incentives, subsidies, and green building certifications that encourage the integration of ERVs in both residential and commercial construction projects.

Furthermore, Saudi Arabia has committed to international climate agreements and actively endeavors to reduce its carbon emissions. ERVs are aligned with these objectives as they not only curtail energy consumption but also contribute to lower greenhouse gas emissions. This alignment with global sustainability initiatives further propels the growth of the ERV market within the country.

In summary, the escalating focus on energy efficiency and sustainability in Saudi Arabia, driven by governmental initiatives and international commitments, serves as a significant impetus for the Energy Recovery Ventilator market in the nation.

Rapid Urbanization & Construction Activity

Saudi Arabia is currently undergoing rapid urbanization, with a significant increase in construction activity, particularly in cities like Riyadh, Jeddah, and Dammam. This expansion of urban areas has become a major catalyst for the Energy Recovery Ventilator (ERV) market in the country.

As the construction of residential and commercial buildings continues, there is a growing demand for HVAC systems that are not only efficient but also capable of providing optimal comfort while conserving energy. ERVs are well-suited to meet these requirements as they offer a cost-effective solution that enhances indoor air quality and reduces energy consumption. Developers and building owners are increasingly recognizing the long-term benefits of ERVs in terms of operational cost savings and occupant satisfaction.

Furthermore, the Saudi government's investments in infrastructure projects, including new hospitals, educational institutions, and commercial complexes, are playing a significant role in driving the growth of the ERV market. These projects often prioritize energy-efficient and sustainable building practices, making ERVs an attractive choice for ventilation and air quality control.

The influx of expatriates and the growing population in urban areas further contribute to the demand for ERVs. With a diverse range of occupants, there is an increased awareness of the importance of maintaining high indoor air quality, which further encourages the adoption of ERVs in both residential and commercial buildings.

In conclusion, the rapid urbanization and construction activity in Saudi Arabia, along with the need for efficient HVAC solutions in new developments, are key factors driving the Energy Recovery Ventilator market in the country. As urbanization continues to accelerate, the demand for ERVs is expected to steadily rise.

Key Market Challenges

Limited Awareness and Education

One of the key challenges facing the Energy Recovery Ventilator (ERV) market in Saudi Arabia is the limited awareness and education about the technology among both consumers and industry professionals. ERVs are a relatively new and advanced HVAC technology, and many individuals in the country are unfamiliar with their benefits and operational mechanisms.

In the context of residential consumers, there exists a lack of awareness regarding the significance of indoor air quality (IAQ) and the role that ERVs can play in enhancing it. Numerous homeowners and tenants may not realize that indoor air can be more contaminated than outdoor air, particularly in urban areas, and that ERVs can effectively address this issue while also reducing energy consumption.

Similarly, in the commercial and industrial sectors, building owners and facility managers may not be well-informed about the advantages of ERVs. This lack of awareness often results in a preference for traditional HVAC systems, even when ERVs could offer substantial energy savings and improvements in IAQ.

To tackle this challenge, it is crucial for industry stakeholders, including ERV manufacturers, HVAC contractors, and government agencies, to invest in educational campaigns and training programs. These initiatives can help raise awareness about ERVs, elucidate their benefits, and provide guidance on their proper selection, installation, and maintenance.

Initial Cost and Return on Investment (ROI)

Another notable challenge for the ERV market in Saudi Arabia pertains to the perception of high initial costs and concerns regarding return on investment (ROI). ERV systems may have higher upfront expenses compared to conventional HVAC systems, which can deter potential buyers, particularly in a price-sensitive market.

While ERVs offer long-term energy savings and improved indoor air quality (IAQ), persuading consumers and businesses to make the initial investment can be a demanding task. Saudi Arabia's real estate market is diverse, with varying levels of economic development, and some entities may prioritize lower upfront costs over long-term advantages.

To tackle this challenge, manufacturers and industry associations should focus on demonstrating the tangible ROI of ERV systems. This involves providing data and case studies that highlight energy savings, reduced maintenance costs, and enhanced occupant comfort and health. Additionally, incentive programs and subsidies can assist in making ERVs financially attainable for consumers and businesses.

Furthermore, financial institutions and lenders can contribute by offering favorable financing options for ERV installations, allowing for the spread of initial costs over an extended period and making the technology more accessible to a wider range of consumers.

Regulatory and Standards Compliance

Compliance with regulatory requirements and standards can pose a significant challenge to the Energy Recovery Ventilator (ERV) market in Saudi Arabia. With the introduction of new building codes and energy efficiency regulations by the government, manufacturers and installers must ensure that ERV systems meet these stringent standards, which can be intricate and subject to changes.

Maintaining compliance with local regulations and standards is imperative for market acceptance and growth. Non-compliant ERV systems may encounter delays in project approvals or even legal complications, adversely affecting market confidence.

To address this challenge, manufacturers and installers should allocate resources to research and development, ensuring that their ERV products adhere to the latest regulations and standards. Regular training and certification programs can also play a crucial role in ensuring that industry professionals are well-informed about compliance requirements.

Furthermore, collaboration between industry stakeholders and government bodies can facilitate the development of clear and consistent standards for ERV systems. This would make it easier for manufacturers to design products that meet these requirements

and for installers to ensure compliance during installation.

In conclusion, addressing the challenges of limited awareness and education, high initial costs, and regulatory compliance is vital for the sustained growth and success of the Energy Recovery Ventilator market in Saudi Arabia. By proactively engaging in collaborative efforts with industry players and government agencies, these challenges can be effectively mitigated, allowing ERV technology to flourish in the Saudi HVAC market.

Key Market Trends

Increasing Emphasis on Sustainable Building Practices

One notable trend in the Saudi Arabia Energy Recovery Ventilator (ERV) market is the growing emphasis on sustainable building practices. As the country aligns with global sustainability goals and endeavors to reduce its carbon footprint, the construction industry is undergoing a significant transformation. Sustainable building practices, such as the incorporation of energy-efficient HVAC systems like ERVs, are becoming increasingly prevalent.

Saudi Vision 2030, the nation's ambitious development plan, places a strong emphasis on environmental sustainability. This commitment has resulted in updated building codes and regulations that promote energy efficiency and green building practices. Consequently, ERVs are being integrated into both new construction projects and retrofit initiatives to meet these rigorous requirements.

Furthermore, various green building certification programs, including LEED (Leadership in Energy and Environmental Design) and Estidama, have gained traction in Saudi Arabia. These programs incentivize the integration of energy-efficient technologies like ERVs, thereby driving their adoption. Building owners and developers are increasingly recognizing that sustainable buildings not only contribute to environmental responsibility but also offer economic advantages, as they often command higher rental and resale values.

Growth in the Residential Sector

The Saudi ERV market is experiencing substantial growth in the residential sector. Historically, ERVs were predominantly utilized in commercial and industrial settings, but their adoption in residential properties is on the rise. Various factors contribute to this

trend.

Firstly, the increasing awareness of indoor air quality (IAQ) among homeowners is driving demand for ERVs. As individuals spend more time indoors, there is a growing concern regarding pollutants, allergens, and contaminants that accumulate in indoor spaces. ERVs offer an effective solution by continuously ventilating and filtering indoor air while also recovering energy, making them an appealing choice for maintaining a healthy living environment.

Secondly, government incentives and regulations that promote energy-efficient technologies, including ERVs, have made them more accessible to homeowners. Subsidies and tax incentives encourage the adoption of energy-efficient HVAC systems, thereby driving the demand for ERVs.

Lastly, the construction of modern, energy-efficient homes is on the rise in Saudi Arabia. These homes are often equipped with advanced HVAC systems, including ERVs, in order to meet the demand for sustainable and comfortable living spaces. As the residential real estate market continues to evolve, the utilization of ERVs in homes is expected to become increasingly prevalent.

Segmental Insights

Type Insights

The Ceiling-Mount segment emerged as the dominant player in 2022. Ceiling-Mount Energy Recovery Ventilators (ERVs) play a pivotal role in enhancing indoor air quality and energy efficiency in buildings, establishing them as a significant segment within the Saudi Arabia Energy Recovery Ventilator Market. The Saudi Arabian ERV market has been steadily growing due to the increasing awareness of indoor air quality, energy efficiency, and government initiatives promoting sustainable building practices. The Ceiling-Mount ERV segment is expected to contribute significantly to this growth, driven by its space-saving design and ease of installation in various building types.

Ceiling-Mount ERVs are widely utilized in both commercial and residential buildings. In Saudi Arabia, a country with a thriving construction industry, there is substantial demand for these systems in new buildings and retrofit projects. The commercial sector, encompassing offices, hotels, and shopping malls, is anticipated to make a significant contribution to the demand for Ceiling-Mount ERVs.

The Saudi Arabian government has implemented stringent energy efficiency regulations to reduce energy consumption in buildings. Architects and builders favor Ceiling-Mount ERVs as a solution to comply with these regulations, as they enable the recovery and reuse of energy from exhaust air, thereby reducing the overall energy load of the building.

Given Saudi Arabia's hot and arid climate, managing indoor air quality while minimizing energy consumption for cooling is crucial. Ceiling-Mount ERVs play a critical role in achieving this objective, as they can pre-cool or pre-heat incoming fresh air using the energy recovered from exhaust air, thereby reducing the load on HVAC systems.

Application Insights

The Residential segment is projected to experience rapid growth during the forecast period. The residential ERV market in Saudi Arabia has been experiencing steady growth, driven by the increasing focus on indoor air quality and energy efficiency in homes. As awareness of the benefits of ERV systems continues to rise among individuals and families in Saudi Arabia, the demand for residential ERVs is expected to increase.

The construction of new residential properties in Saudi Arabia, fueled by population growth and urbanization, presents a significant opportunity for the residential ERV market. Moreover, the retrofitting of existing homes with ERV systems is becoming more prevalent as homeowners strive to enhance indoor air quality and reduce energy consumption.

Saudi Arabia's commitment to sustainable building practices and energy efficiency aligns with the use of residential ERVs. These systems contribute to energy conservation by recovering heat or cooling from exhaust air, which is particularly advantageous in the country's hot climate.

In Saudi Arabia, residents are increasingly becoming aware of the health benefits associated with improved indoor air quality. Residential ERVs are viewed as a solution to provide a continuous supply of fresh and filtered air while eliminating pollutants, allergens, and stagnant air.

Residential ERV systems are commonly integrated into existing HVAC (Heating, Ventilation, and Air Conditioning) systems in homes, ensuring seamless operation and control. This integration enhances the appeal of ERVs to homeowners.

Regional Insights

Riyadh emerged as the dominant player in the Saudi Arabia Energy Recovery Ventilator market in 2022, holding the largest market share. Riyadh, the capital and largest city of Saudi Arabia, serves as a significant focal point for the country's building and construction industry. With the increasing demand for energy-efficient and sustainable building solutions, the Riyadh market for Energy Recovery Ventilators (ERVs) is witnessing notable developments and opportunities. Riyadh is currently undergoing rapid urbanization and infrastructure expansion, with numerous construction projects including residential buildings, commercial complexes, hospitals, and educational institutions. This urban growth presents a substantial market for ERVs as developers and building owners seek sustainable HVAC solutions to enhance energy efficiency and indoor air quality. The influx of residents and businesses into the city necessitates the incorporation of modern HVAC systems like ERVs to ensure optimal Indoor Air Quality (IAQ) and compliance with building codes and regulations. Consequently, the demand for ERVs is expected to remain strong in Riyadh's construction sector.

Riyadh, in line with Saudi Arabia's national sustainability goals and environmental commitments, is emphasizing sustainable practices in its building sector, focusing on green construction and energy-efficient technologies. Government regulations and incentive programs are encouraging the use of ERVs and other energy-efficient HVAC systems in building projects. Riyadh's construction industry is adapting to these requirements, with developers recognizing the long-term benefits of ERVs in terms of energy savings and reduced carbon emissions.

The importance of Indoor Air Quality (IAQ) is gaining global recognition, and Riyadh is no exception. Residents and businesses are increasingly aware of the need for healthier indoor environments, driving the demand for ERVs. Education and awareness campaigns highlighting the benefits of ERVs in improving IAQ, reducing energy costs, and aligning with sustainability goals are gaining traction in Riyadh. HVAC professionals, architects, and builders are also receiving training on the proper design and installation of ERV systems.

In conclusion, Riyadh provides a dynamic market for Energy Recovery Ventilators in Saudi Arabia. The city's rapid urbanization, commitment to sustainability, extreme climate conditions, and growing awareness of IAQ are key drivers for the adoption of ERVs across various sectors. As Riyadh continues to expand and progress, the ERV market is expected to play a crucial role in shaping the city's sustainable and efficient

built environment.

Key Market Players

Honeywell International Inc.

Daikin Industries, Ltd.

Trane Technologies plc:

Carrier Corporation

Johnson Controls

LG Electronics

Mitsubishi Electric Corporation

Zamil Air Conditioners

York International Corporation

Greenheck Fan Corporation

Report Scope:

In this report, the Saudi Arabia Energy Recovery Ventilator Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Saudi Arabia Energy Recovery Ventilator Market, By Type:

Ceiling-Mount

Wall-Mount

Cabinet

Saudi Arabia Energy Recovery Ventilator Market, By Technology:

Heat Pipe Heat Exchanger

Run-Around Coil

Plate Heat Exchanger

Rotary Heat Exchanger

Others

Saudi Arabia Energy Recovery Ventilator Market, By Application:

Residential

Industrial

Commercial

Others

Saudi Arabia Energy Recovery Ventilator Market, By Region:

Riyadh

Makkah

Eastern Province

Rest of Saudi Arabia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Saudi Arabia Energy Recovery Ventilator Market.

Available Customizations:

Saudi Arabia Energy Recovery Ventilator Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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