

Railway AC System Market Expanding With \$6.56 Billion at 8.6% CAGR by 2029

*The Business Research Company's
Railway AC System Global Market Report
2025 – Market Size, Trends, And Forecast
2025-2034*

LONDON, GREATER LONDON, UNITED
KINGDOM, November 5, 2025
/EINPresswire.com/ -- What Is The
Forecast For [The Railway AC System
Market From 2024 To 2029?](#)



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The size of the railway ac system market has seen robust growth in the past few years. The market is projected to expand from \$4.37 billion in 2024 to \$4.72 billion in 2025, with a compound annual growth rate (CAGR) of 8.0%. The notable growth recorded in the historical period can be credited to the escalating investments in developing rail infrastructure, increasing demand for comfort during passenger travel, expansion of metro and high-speed train services, growing urbanization, and population surge.



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Expectations are high for the railway ac system market to witness robust growth in the next few years. The market is estimated to reach \$6.56 billion by 2029, growing at a compound annual growth rate (CAGR) of 8.6%. The expansion during the forecast period is owed to an

increase in the demand for eco-friendly refrigerants in AC units, the development of high-speed and regional rail projects worldwide, the necessity to upgrade outdated air conditioning systems, rising scrutiny on energy efficiency, and a growing commitment to cut down greenhouse gas emissions in transportation. Key trends for the forecast period comprise the emergence of modular air conditioning units, the invention of hybrid cooling systems, the incorporation of smart sensors, the progression of advanced air purification technologies, and the invention of heat pump systems.

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What Are The Core Growth Drivers Shaping The Future Of The Railway AC System Market?

The advancement of metro trains is predicted to stimulate the development of the railway air conditioning system market in the future. Metro trains, synonymous with urban transport systems, operate on distinct tracks. The expansion of these trains is induced by the escalating urbanization, the need for competent and sustainable transportation options, and the urgency to decrease transit times between prominent cities. These railway air conditioning systems play a significant role in metro trains, sustaining suitable temperatures, controlling humidity, promoting improved air quality, and offering competent cooling, irrespective of various operating circumstances. This leads to a secure, reliable, and energy-saving commuting experience. For example, a report in January 2025 by The Transport Politic, an autonomous US journal, revealed that almost 1,300 kilometers of new metro tracks were added globally in 2024. This increased the overall network by nearly 6 percent compared to the over 22,400 kilometers in use at the close of 2023. Consequently, the expansion of metro trains is fuelling the advancement of the railway air conditioning system market.

Which Companies Are Currently Leading In The Railway AC System Market?

Major players in the Railway AC System include:

- Hitachi Ltd.
- Denso Corporation
- Honeywell International Inc.
- CRRC Corporation
- Mitsubishi Heavy Industries Ltd.
- Toshiba Corporation
- Johnson Controls International plc
- Alstom SA
- Emerson Electric Company
- Liebherr-Transportation Systems GmbH & Co KG

What Are The Top [Trends In The Railway AC System Industry?](#)

Leading corporations in the railway air conditioning system market are prioritizing technological innovations, such as eco-friendly refrigerants, to improve energy efficiency and lessen environmental harm. These sustainable refrigerants serve as environment-friendly cooling agents that mitigate or remove damaging climate effects, primarily due to their low-to-zero global warming potential and ozone depletion potential. These eco-friendly cooling solutions are employed in railway air conditioning systems to reduce greenhouse gas emissions and amplify energy efficiency, with the implementation of natural refrigerants such as propane and carbon dioxide. For example, Liebherr-International AG, a Swiss equipment manufacturing company, launched a propane-powered HVAC system for Stadler Rail AG, a Swiss rail infrastructure firm, in July 2024, marking a significant step forward in sustainable rail technology. This advanced HVAC solution leverages propane (R290) as a natural refrigerant, boosting energy efficiency and dramatically cutting environmental impact relative to conventional synthetic refrigerants.

Comparative Analysis Of [Leading Railway AC System Market Segments](#)

The railway ac system market covered in this report is segmented –

- 1) By Type: Roof Mounted, Side Mounted, Standalone
- 2) By Component: Compressor, Evaporator, Drier, Condenser
- 3) By Technology: Conventional AC Systems, Energy-Efficient AC Systems, Smart AC Systems
- 4) By Application: Passenger Coaches, Freight Trains, Luxury Trains, High-Speed Trains

Subsegments:

- 1) By Roof-Mounted: Compact Roof-Mounted AC Systems, High-Capacity Roof-Mounted AC Systems, Energy-Efficient Roof-Mounted AC Systems, Smart Roof-Mounted AC Systems with IoT Integration
- 2) By Side-Mounted: Standard Side-Mounted AC Systems, Modular Side-Mounted AC Systems, Noise-Reduced Side-Mounted AC Systems, High-Power Side-Mounted AC Systems
- 3) By Standalone: Single-Unit Standalone AC Systems, Multi-Unit Standalone AC Systems, Portable Standalone AC Systems, Hybrid Standalone AC Systems

View the full railway ac system market report:

<https://www.thebusinessresearchcompany.com/report/railway-ac-system-global-market-report>

Which Regions Are Dominating The Railway AC System Market Landscape?

In 2024, North America led the railway air conditioning system market. It is projected that the Asia-Pacific region will experience the most rapid growth in the future. The report on the railway AC system market spans regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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Speak With Our Expert:

Saumya Sahay

Americas +1 310-496-7795

Asia +44 7882 955267 & +91 8897263534

Europe +44 7882 955267

Email: saumyas@tbrc.info

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Oliver Guirdham

The Business Research Company

+44 7882 955267

info@tbrc.info

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