

Agricultural Cooling System Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Agricultural Cooling System Market Summary

Introduction

Agricultural cooling systems, including evaporative, refrigerated, and other types, regulate temperatures for crops and livestock, addressing heat stress from climate change. The market is driven by rising global temperatures, food security needs, and cold chain growth. Innovations like energy-efficient evaporative cooling and solar-powered systems boost adoption. The global market is projected to reach between USD 1.2 billion and USD 2.0 billion in 2025, with a CAGR of 6.2% to 10.6% through 2030.

Regional Analysis

North America: The U.S. leads with advanced greenhouses, while Canada focuses on livestock cooling.

Europe: Netherlands, Spain, and Germany drive demand due to precision agriculture.

Asia Pacific: China sees growth from cold chain expansion, while India boosts farm modernization.

Rest of the World: Brazil expands agribusiness, and Australia invests in heat mitigation.

Application Analysis

Commercial Farms: Expected growth of 6.3%-10.7%, driven by large-scale production. Trends focus on automation.

Small-Scale Farms: Projected growth of 6.2%-10.6%, linked to affordability. Developments emphasize scalability.

Research Institutes: Anticipated growth of 6.1%-10.5%, suited for experimentation. Advances prioritize precision.

Others: Expected growth of 6.0%-10.4%, covering urban farms. Trends highlight sustainability.

Type Analysis

Evaporative Cooling Systems: Expected growth of 6.4%-10.8%, valued for low energy use. Trends highlight eco-friendliness.

Refrigerated Cooling Systems: Projected growth of 6.2%-10.6%, key for cold storage. Advances focus on efficiency.

Others: Anticipated growth of 6.1%-10.5%, covering hybrid systems. Innovations emphasize solar power.

Key Market Players

Leading firms include Trane, offering cooling solutions; Carrier, enhancing refrigeration; Daikin Industries, scaling precision cooling; TICA, focusing on chillers; HYDAC Technology, boosting efficiency; Dantherm Group, targeting farms; Big Ass Fans, advancing air circulation; Hartzell Air Movement, supporting ventilation; MacroAir Technologies, innovating in fans; and Kooljet Refrigeration, optimizing cold chains.

Porter's Five Forces Analysis

? **Threat of New Entrants:** Moderate, due to technological and capital barriers, though niche innovators can enter.

? **Threat of Substitutes:** Low, as cooling systems are essential for heat stress mitigation

with no direct alternatives.

? Bargaining Power of Buyers: Moderate, with farms seeking cost-effective, efficient systems, though climate needs limit options.

? Bargaining Power of Suppliers: Low, with multiple component providers.

? Competitive Rivalry: High, with competition on energy efficiency, sustainability, and cost.

Market Opportunities and Challenges

Opportunities:

? Climate change and heat stress drive demand.

? Cold chain growth and precision agriculture boost adoption, while solar-powered and evaporative systems enhance usage.

? Government subsidies in Asia increase installations.

Challenges:

? High costs of refrigerated systems limit access in low-income regions.

? Limited infrastructure in rural areas slows growth.

? Energy availability restricts solar system adoption.

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