

Poultry Environmental Control System Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Poultry Environmental Control System Market Summary

Introduction

Poultry environmental control systems are sophisticated setups designed to regulate key conditions in poultry houses, such as ventilation, cooling, humidity, and lighting, primarily for broiler chicken breeding and layer breeding applications. These systems integrate advanced sensors, automation, and climate control technologies to ensure optimal flock health, growth, and productivity while minimizing energy use and environmental impact. Available in ventilation, cooling, humidity control, lighting, and other types, the market emphasizes biosecurity, energy efficiency, and adaptability to diverse farm scales. It serves the poultry industry's need for precision farming, reflecting a sector driven by rising global poultry demand, increasing focus on animal welfare, and the need to mitigate disease risks. Key growth drivers include poultry production growth, technological advancements in climate control, and regulatory pressures for sustainable farming practices.

Market Size and Growth Forecast

The global poultry environmental control system market is estimated to reach USD 1.3 to 1.7 billion in 2025, with a projected compound annual growth rate (CAGR) of 5.5% to 6.5% from 2025 to 2030. This growth is propelled by expanding poultry operations and the adoption of smart farming technologies worldwide.

Regional Analysis

North America: Holds 20-25% market share, with a growth rate of 5-6%. Growth is

driven by advanced broiler systems, with the United States leading in automation and Canada focusing on layer efficiency enhancements.

Europe: Accounts for 25-30% market share, with a growth rate of 5-6%. Demand from the Netherlands and Germany supports strength, driven by high egg production and stringent welfare regulations.

Asia Pacific: Represents 35-40% market share, with a growth rate of 6-7%. China and India drive growth with rapid poultry sector expansion and government-supported mechanization initiatives.

Rest of the World: Holds 10-15% market share, growing at 6-7%, with Brazil leading due to its strong broiler export market and increasing adoption of climate control solutions.

Trends in Europe focus on energy-efficient and welfare-focused systems, while Asia Pacific prioritizes scalable, cost-effective solutions to modernize traditional poultry farms.

Application Analysis

Broiler chicken breeding grows at 6-7%, driven by meat production demands, with trends toward ventilation and cooling systems that optimize growth rates and reduce heat stress in intensive setups. Layer breeding grows at 5-6%, fueled by egg production needs, with trends toward humidity and lighting systems that enhance laying consistency and egg quality in controlled environments.

Product Type Analysis

Poultry ventilation systems grow at 6-7%, favored for maintaining air quality and reducing ammonia levels, with trends toward automated, high-capacity designs in broiler farms. Poultry cooling systems grow at 5-6%, driven by their role in mitigating heat stress, with trends toward evaporative cooling in warm climates. Poultry humidity control systems grow at 5-6%, valued for stabilizing moisture levels, with trends toward integration with layer house automation. Poultry lighting systems grow at 6-7%, supporting flock behavior and productivity, with trends toward LED-based solutions for energy efficiency. Others, such as heating or hybrid systems, grow at 4-5%, with steady demand in niche or extreme climate applications.

Key Market Players

Big Dutchman: A global leader in poultry equipment, Big Dutchman offers advanced environmental control systems. Known for its integrated, energy-efficient solutions, it serves large-scale broiler and layer farms worldwide.

Cumberland Poultry: Cumberland Poultry provides robust climate control systems for poultry. Renowned for its durable, automation-compatible designs, it targets North

American producers with high-performance tools.

FamTECH: FamTECH specializes in affordable ventilation and cooling systems. It excels in practical, scalable solutions, supporting Asia Pacific's growing poultry sector.

Fancom: Fancom focuses on smart environmental control systems. Known for its data-driven, precision technology, it serves European farms with sustainable, welfare-focused solutions.

Henan Huaxing Poultry Equipments: Henan Huaxing offers cost-effective control systems for poultry. It stands out for its reliable, localized designs, targeting China's expansive poultry market.

Hotraco Agri: Hotraco Agri delivers ventilation and humidity control systems. Renowned for its efficient, user-friendly technology, it supports global poultry operations with scalable solutions.

LB White: LB White provides heating and cooling systems for poultry houses. Known for its rugged, dependable designs, it serves North American farms with climate-specific tools.

Munters: Munters offers advanced ventilation and cooling systems. It excels in energy-efficient, high-capacity solutions, targeting global producers with cutting-edge climate control.

Shree Agrotech Equipment: Shree Agrotech produces affordable environmental systems for small farms. Known for its practical, durable designs, it supports India's poultry growth with localized offerings.

SKA: SKA provides ventilation and lighting systems for European poultry. Renowned for its sturdy, farmer-friendly technology, it serves small to medium operations with reliable solutions.

SKOV: SKOV specializes in climate control for poultry. Known for its precision-engineered systems, it targets Europe and beyond with sustainable, high-efficiency tools.

Stienen BE: Stienen BE delivers smart environmental control systems. It excels in durable, automated solutions, supporting layer and broiler farms with advanced technology.

TROTEC: TROTEC offers cost-effective climate control systems. It stands out for its versatile, easy-to-install designs, targeting diverse poultry markets globally.

Vencomatic Group: Vencomatic Group focuses on welfare-focused control systems. Known for its innovative, sustainable designs, it serves European layer farms with efficient solutions.

Vijay Raj India: Vijay Raj India provides affordable ventilation and cooling systems. Renowned for its practical, scalable products, it supports India's poultry sector with localized technology.

These companies compete on energy efficiency, automation, and cost, driving the

market through innovation and regional customization.

Porter's Five Forces Analysis

The threat of new entrants is moderate, requiring expertise in climate control technology and significant investment, though smaller players can emerge with basic systems. Substitutes are low, with manual climate management impractical for commercial farms. Buyer power is medium, with farmers negotiating based on price and features, but reliance on advanced systems drives loyalty. Supplier power is moderate, with components like fans and sensors widely available, though specialized tech can limit options. Rivalry is high, with players differentiating through energy efficiency, automation, and biosecurity features, fostering continuous technological advancements.

Market Opportunities and Challenges

Opportunities

Rising global poultry production boosting demand for environmental control systems. Advancements in automation and energy-efficient technology enhancing market appeal. Government support for sustainable poultry farming driving adoption in key regions.

Challenges

High initial costs limiting uptake among smallholder farmers. Disease outbreaks, like avian influenza, disrupting farm operations and demand stability. Energy consumption concerns impacting system adoption in cost-conscious regions.

Merger and Acquisition News

Munters Acquires Hotraco and Strengthens Its Position in Europe (Date: June 2024): Munters completed its acquisition of Hotraco Agri, a Dutch poultry equipment firm, enhancing its climate control portfolio. This move strengthens Munters' foothold in Europe, integrating Hotraco's ventilation and automation expertise to target broiler and layer farms.

American Industrial Partners Completes Acquisition of AGCO's Grain Protein Business (Date: January 2025): American Industrial Partners finalized its acquisition of AGCO's Grain Protein division, which includes poultry-related technologies. This deal expands AIP's presence in poultry environmental systems, leveraging AGCO's infrastructure to serve North American markets.

Growth Trend Analysis

FAO and OECD data forecast global poultry meat production to exceed 141.3 million metric tons (MT) in 2024, with an 11% increase to nearly 160 million MT over the next decade. This growth, driven by rising protein demand in Asia Pacific and Latin America,

fuels demand for poultry environmental control systems, particularly ventilation and cooling types that optimize broiler growth and layer productivity. Companies like Big Dutchman and Munters capitalize on this by offering scalable, energy-efficient solutions, supporting the shift toward intensive, climate-controlled farming.

The FAO's March 17, 2025, warning about the H5N1 avian influenza outbreak—spreading to 950 cattle herds across 16 countries and culling over 166 million poultry—introduces significant volatility. This pandemic disrupts broiler and layer operations, temporarily reducing demand for control systems during culls, particularly in North America and Europe. Post-outbreak recovery, however, accelerates adoption of ventilation and alarm-integrated systems from firms like SKOV and Fancom, as farms prioritize biosecurity and air quality to prevent future losses. In Asia Pacific, China's scale mitigates some impacts, sustaining demand. Overall, while poultry growth drives a strong trend for environmental control systems, H5N1 poses short-term challenges offset by long-term investments in resilient, smart farming technologies.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

- 3.1 Research Scope
- 3.2 Research Sources
 - 3.2.1 Data Sources
 - 3.2.2 Assumptions
- 3.3 Research Method
- Chapter Four Market Landscape
- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

- 6.1 Upstream/Suppliers Analysis
- 6.2 Poultry Environmental Control System Analysis
 - 6.2.1 Technology Analysis
 - 6.2.2 Cost Analysis
 - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

- 7.1 Latest News
- 7.2 Merger and Acquisition

7.3 Planned/Future Project

7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST POULTRY ENVIRONMENTAL CONTROL SYSTEM MARKET IN NORTH AMERICA (2020-2030)

8.1 Poultry Environmental Control System Market Size

8.2 Poultry Environmental Control System Market by End Use

8.3 Competition by Players/Suppliers

8.4 Poultry Environmental Control System Market Size by Type

8.5 Key Countries Analysis

8.5.1 United States

8.5.2 Canada

8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST POULTRY ENVIRONMENTAL CONTROL SYSTEM MARKET IN SOUTH AMERICA (2020-2030)

9.1 Poultry Environmental Control System Market Size

9.2 Poultry Environmental Control System Market by End Use

9.3 Competition by Players/Suppliers

9.4 Poultry Environmental Control System Market Size by Type

9.5 Key Countries Analysis

9.5.1 Brazil

9.5.2 Argentina

9.5.3 Chile

9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST POULTRY ENVIRONMENTAL CONTROL SYSTEM MARKET IN ASIA & PACIFIC (2020-2030)

10.1 Poultry Environmental Control System Market Size

10.2 Poultry Environmental Control System Market by End Use

10.3 Competition by Players/Suppliers

10.4 Poultry Environmental Control System Market Size by Type

10.5 Key Countries Analysis

10.5.1 China

10.5.2 India

10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST POULTRY ENVIRONMENTAL CONTROL SYSTEM MARKET IN EUROPE (2020-2030)

- 11.1 Poultry Environmental Control System Market Size
- 11.2 Poultry Environmental Control System Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Poultry Environmental Control System Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST POULTRY ENVIRONMENTAL CONTROL SYSTEM MARKET IN MEA (2020-2030)

- 12.1 Poultry Environmental Control System Market Size
- 12.2 Poultry Environmental Control System Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Poultry Environmental Control System Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL POULTRY ENVIRONMENTAL CONTROL SYSTEM MARKET (2020-2025)

- 13.1 Poultry Environmental Control System Market Size
- 13.2 Poultry Environmental Control System Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Poultry Environmental Control System Market Size by Type

CHAPTER 14 GLOBAL POULTRY ENVIRONMENTAL CONTROL SYSTEM MARKET FORECAST (2025-2030)

- 14.1 Poultry Environmental Control System Market Size Forecast
- 14.2 Poultry Environmental Control System Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Poultry Environmental Control System Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

- 15.1 Big Dutchman
 - 15.1.1 Company Profile
 - 15.1.2 Main Business and Poultry Environmental Control System Information
 - 15.1.3 SWOT Analysis of Big Dutchman
 - 15.1.4 Big Dutchman Poultry Environmental Control System Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 Cumberland Poultry
 - 15.2.1 Company Profile
 - 15.2.2 Main Business and Poultry Environmental Control System Information
 - 15.2.3 SWOT Analysis of Cumberland Poultry
 - 15.2.4 Cumberland Poultry Poultry Environmental Control System Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 FamTECH
 - 15.3.1 Company Profile
 - 15.3.2 Main Business and Poultry Environmental Control System Information
 - 15.3.3 SWOT Analysis of FamTECH
 - 15.3.4 FamTECH Poultry Environmental Control System Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 Fancom
 - 15.4.1 Company Profile
 - 15.4.2 Main Business and Poultry Environmental Control System Information
 - 15.4.3 SWOT Analysis of Fancom
 - 15.4.4 Fancom Poultry Environmental Control System Revenue, Gross Margin and

Market Share (2020-2025)

15.5 Henan Huaxing Poultry Equipments

15.5.1 Company Profile

15.5.2 Main Business and Poultry Environmental Control System Information

15.5.3 SWOT Analysis of Henan Huaxing Poultry Equipments

15.5.4 Henan Huaxing Poultry Equipments Poultry Environmental Control System

Revenue, Gross Margin and Market Share (2020-2025)

15.6 Hotraco Agri

15.6.1 Company Profile

15.6.2 Main Business and Poultry Environmental Control System Information

15.6.3 SWOT Analysis of Hotraco Agri

15.6.4 Hotraco Agri Poultry Environmental Control System Revenue, Gross Margin

and Market Share (2020-2025)

15.7 LB White

15.7.1 Company Profile

15.7.2 Main Business and Poultry Environmental Control System Information

15.7.3 SWOT Analysis of LB White

15.7.4 LB White Poultry Environmental Control System Revenue, Gross Margin and

Market Share (2020-2025)

15.8 Munters

15.8.1 Company Profile

15.8.2 Main Business and Poultry Environmental Control System Information

15.8.3 SWOT Analysis of Munters

15.8.4 Munters Poultry Environmental Control System Revenue, Gross Margin and

Market Share (2020-2025)

15.9 Shree Agrotech Equipment

15.9.1 Company Profile

15.9.2 Main Business and Poultry Environmental Control System Information

15.9.3 SWOT Analysis of Shree Agrotech Equipment

15.9.4 Shree Agrotech Equipment Poultry Environmental Control System Revenue,

Gross Margin and Market Share (2020-2025)

15.10 SKA

15.10.1 Company Profile

15.10.2 Main Business and Poultry Environmental Control System Information

15.10.3 SWOT Analysis of SKA

15.10.4 SKA Poultry Environmental Control System Revenue, Gross Margin and

Market Share (2020-2025)

Please ask for sample pages for full companies list

Tables and Figures

Table Abbreviation and Acronyms

Table Research Scope of Poultry Environmental Control System Report

Table Data Sources of Poultry Environmental Control System Report

Table Major Assumptions of Poultry Environmental Control System Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Poultry Environmental Control System Picture

Table Poultry Environmental Control System Classification

Table Poultry Environmental Control System Applications

Table Drivers of Poultry Environmental Control System Market

Table Restraints of Poultry Environmental Control System Market

Table Opportunities of Poultry Environmental Control System Market

Table Threats of Poultry Environmental Control System Market

Table Covid-19 Impact For Poultry Environmental Control System Market

Table Raw Materials Suppliers

Table Different Production Methods of Poultry Environmental Control System

Table Cost Structure Analysis of Poultry Environmental Control System

Table Key End Users

Table Latest News of Poultry Environmental Control System Market

Table Merger and Acquisition

Table Planned/Future Project of Poultry Environmental Control System Market

Table Policy of Poultry Environmental Control System Market

Table 2020-2030 North America Poultry Environmental Control System Market Size

Figure 2020-2030 North America Poultry Environmental Control System Market Size and CAGR

Table 2020-2030 North America Poultry Environmental Control System Market Size by Application

Table 2020-2025 North America Poultry Environmental Control System Key Players Revenue

Table 2020-2025 North America Poultry Environmental Control System Key Players Market Share

Table 2020-2030 North America Poultry Environmental Control System Market Size by Type

Table 2020-2030 United States Poultry Environmental Control System Market Size

Table 2020-2030 Canada Poultry Environmental Control System Market Size

Table 2020-2030 Mexico Poultry Environmental Control System Market Size

Table 2020-2030 South America Poultry Environmental Control System Market Size

Figure 2020-2030 South America Poultry Environmental Control System Market Size and CAGR

Table 2020-2030 South America Poultry Environmental Control System Market Size by Application

Table 2020-2025 South America Poultry Environmental Control System Key Players Revenue

Table 2020-2025 South America Poultry Environmental Control System Key Players Market Share

Table 2020-2030 South America Poultry Environmental Control System Market Size by Type

Table 2020-2030 Brazil Poultry Environmental Control System Market Size

Table 2020-2030 Argentina Poultry Environmental Control System Market Size

Table 2020-2030 Chile Poultry Environmental Control System Market Size

Table 2020-2030 Peru Poultry Environmental Control System Market Size

Table 2020-2030 Asia & Pacific Poultry Environmental Control System Market Size

Figure 2020-2030 Asia & Pacific Poultry Environmental Control System Market Size and CAGR

Table 2020-2030 Asia & Pacific Poultry Environmental Control System Market Size by Application

Table 2020-2025 Asia & Pacific Poultry Environmental Control System Key Players Revenue

Table 2020-2025 Asia & Pacific Poultry Environmental Control System Key Players Market Share

Table 2020-2030 Asia & Pacific Poultry Environmental Control System Market Size by Type

Table 2020-2030 China Poultry Environmental Control System Market Size

Table 2020-2030 India Poultry Environmental Control System Market Size

Table 2020-2030 Japan Poultry Environmental Control System Market Size

Table 2020-2030 South Korea Poultry Environmental Control System Market Size

Table 2020-2030 Southeast Asia Poultry Environmental Control System Market Size

Table 2020-2030 Australia Poultry Environmental Control System Market Size

Table 2020-2030 Europe Poultry Environmental Control System Market Size

Figure 2020-2030 Europe Poultry Environmental Control System Market Size and CAGR

Table 2020-2030 Europe Poultry Environmental Control System Market Size by Application

Table 2020-2025 Europe Poultry Environmental Control System Key Players Revenue

Table 2020-2025 Europe Poultry Environmental Control System Key Players Market Share

Table 2020-2030 Europe Poultry Environmental Control System Market Size by Type

Table 2020-2030 Germany Poultry Environmental Control System Market Size

Table 2020-2030 France Poultry Environmental Control System Market Size
Table 2020-2030 United Kingdom Poultry Environmental Control System Market Size
Table 2020-2030 Italy Poultry Environmental Control System Market Size
Table 2020-2030 Spain Poultry Environmental Control System Market Size
Table 2020-2030 Belgium Poultry Environmental Control System Market Size
Table 2020-2030 Netherlands Poultry Environmental Control System Market Size
Table 2020-2030 Austria Poultry Environmental Control System Market Size
Table 2020-2030 Poland Poultry Environmental Control System Market Size
Table 2020-2030 Russia Poultry Environmental Control System Market Size
Table 2020-2030 MEA Poultry Environmental Control System Market Size
Figure 2020-2030 MEA Poultry Environmental Control System Market Size and CAGR
Table 2020-2030 MEA Poultry Environmental Control System Market Size by Application
Table 2020-2025 MEA Poultry Environmental Control System Key Players Revenue
Table 2020-2025 MEA Poultry Environmental Control System Key Players Market Share
Table 2020-2030 MEA Poultry Environmental Control System Market Size by Type
Table 2020-2030 Egypt Poultry Environmental Control System Market Size
Table 2020-2030 Israel Poultry Environmental Control System Market Size
Table 2020-2030 South Africa Poultry Environmental Control System Market Size
Table 2020-2030 Gulf Cooperation Council Countries Poultry Environmental Control System Market Size
Table 2020-2030 Turkey Poultry Environmental Control System Market Size
Table 2020-2025 Global Poultry Environmental Control System Market Size by Region
Table 2020-2025 Global Poultry Environmental Control System Market Size Share by Region
Table 2020-2025 Global Poultry Environmental Control System Market Size by Application
Table 2020-2025 Global Poultry Environmental Control System Market Share by Application
Table 2020-2025 Global Poultry Environmental Control System Key Vendors Revenue
Figure 2020-2025 Global Poultry Environmental Control System Market Size and Growth Rate
Table 2020-2025 Global Poultry Environmental Control System Key Vendors Market Share
Table 2020-2025 Global Poultry Environmental Control System Market Size by Type
Table 2020-2025 Global Poultry Environmental Control System Market Share by Type
Table 2025-2030 Global Poultry Environmental Control System Market Size by Region
Table 2025-2030 Global Poultry Environmental Control System Market Size Share by

Region

Table 2025-2030 Global Poultry Environmental Control System Market Size by Application

Table 2025-2030 Global Poultry Environmental Control System Market Share by Application

Table 2025-2030 Global Poultry Environmental Control System Key Vendors Revenue

Figure 2025-2030 Global Poultry Environmental Control System Market Size and Growth Rate

Table 2025-2030 Global Poultry Environmental Control System Key Vendors Market Share

Table 2025-2030 Global Poultry Environmental Control System Market Size by Type

Table 2025-2030 Poultry Environmental Control System Global Market Share by Type

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