

Global Eddy Correlation System Market Growth 2026-2032

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Abstracts

The global Eddy Correlation System market size is predicted to grow from US\$ 176 million in 2025 to US\$ 289 million in 2032; it is expected to grow at a CAGR of 7.3% from 2026 to 2032.

The Eddy Correlation System (ECS) is a scientific instrument used to measure gas exchange fluxes between ecosystems and the atmosphere. It calculates carbon dioxide, water vapor, and energy fluxes in real time by analyzing high-frequency fluctuations in vertical wind speed and gas concentration. This technology is crucial for studying the carbon cycle, greenhouse gas emissions, and energy exchange in ecosystems. The equipment is widely used in climate change research, carbon flux monitoring, ecosystem observation, and agricultural and forestry research, playing a key role in global carbon monitoring networks. The upstream of the industry chain includes suppliers of ultrasonic anemometers, gas analyzers, data loggers, and sensors; the midstream consists of system integrators responsible for measurement system integration, data acquisition modules, and analysis software development; downstream applications include research institutions, environmental monitoring networks, agricultural research centers, forestry departments, and climate research organizations. Global ECS production in 2025 is estimated at approximately 4,000 units, with an average market price of approximately US\$45,000 per unit. The gross profit margin of major companies in the industry is estimated at 38%-55%. Global production capacity in 2025 is estimated at approximately 5,333 units.

United States market for Eddy Correlation System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Eddy Correlation System is estimated to increase from US\$ million in

2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Eddy Correlation System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Eddy Correlation System players cover LI-COR, Unisense, Campbell Scientific, Los Gatos Research, Picarro, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Eddy Correlation System Industry Forecast" looks at past sales and reviews total world Eddy Correlation System sales in 2025, providing a comprehensive analysis by region and market sector of projected Eddy Correlation System sales for 2026 through 2032. With Eddy Correlation System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Eddy Correlation System industry.

This Insight Report provides a comprehensive analysis of the global Eddy Correlation System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Eddy Correlation System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Eddy Correlation System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Eddy Correlation System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Eddy Correlation System.

This report presents a comprehensive overview, market shares, and growth opportunities of Eddy Correlation System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

CO₂/H₂O Eddy Covariance System

CH₄ Eddy Covariance System

Multi-Gas Eddy Flux System

Segmentation by System Configuration:

Open-Path Eddy Covariance System

Closed-Path Eddy Covariance System

Segmentation by Sampling Frequency:

Low-frequency Systems: 5-10Hz

Standard Frequency Systems: 10-20Hz

High-frequency Systems: Above 20Hz

Segmentation by Application:

Agricultural Water Use Efficiency

Forest Carbon Sink Assessment

Wetland Methane Emission Studies

Urban Climate Observation

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

LI-COR

Unisense

Campbell Scientific

Los Gatos Research

Picarro

Healthy Photon (Ningbo) Technology Co., Ltd.

CLIMATEC,Inc.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Eddy Correlation System market?

What factors are driving Eddy Correlation System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Eddy Correlation System market opportunities vary by end market size?

How does Eddy Correlation System break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Eddy Correlation System Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Eddy Correlation System by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Eddy Correlation System by Country/Region, 2021, 2025 & 2032
- 2.2 Eddy Correlation System Segment by Type
 - 2.2.1 CO₂/H₂O Eddy Covariance System
 - 2.2.2 CH₄ Eddy Covariance System
 - 2.2.3 Multi-Gas Eddy Flux System
 - 2.2.4 Eddy Correlation System Sales by Type
 - 2.2.4.1 Global Eddy Correlation System Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Eddy Correlation System Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Eddy Correlation System Sale Price by Type (2021-2026)
- 2.3 Eddy Correlation System Segment by System Configuration
 - 2.3.1 Open-Path Eddy Covariance System
 - 2.3.2 Closed-Path Eddy Covariance System
 - 2.3.3 Eddy Correlation System Sales by System Configuration
 - 2.3.3.1 Global Eddy Correlation System Sales Market Share by System Configuration (2021-2026)
 - 2.3.3.2 Global Eddy Correlation System Revenue and Market Share by System Configuration (2021-2026)
 - 2.3.3.3 Global Eddy Correlation System Sale Price by System Configuration

(2021-2026)

2.4 Eddy Correlation System Segment by Sampling Frequency

2.4.1 Low-frequency Systems: 5-10Hz

2.4.2 Standard Frequency Systems: 10-20Hz

2.4.3 High-frequency Systems: Above 20Hz

2.4.4 Eddy Correlation System Sales by Sampling Frequency

2.4.4.1 Global Eddy Correlation System Sales Market Share by Sampling Frequency

(2021-2026)

2.4.4.2 Global Eddy Correlation System Revenue and Market Share by Sampling Frequency (2021-2026)

2.4.4.3 Global Eddy Correlation System Sale Price by Sampling Frequency

(2021-2026)

2.5 Eddy Correlation System Segment by Application

2.5.1 Agricultural Water Use Efficiency

2.5.2 Forest Carbon Sink Assessment

2.5.3 Wetland Methane Emission Studies

2.5.4 Urban Climate Observation

2.5.5 Others

2.5.6 Eddy Correlation System Sales by Application

2.5.6.1 Global Eddy Correlation System Sale Market Share by Application

(2021-2026)

2.5.6.2 Global Eddy Correlation System Revenue and Market Share by Application

(2021-2026)

2.5.6.3 Global Eddy Correlation System Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Eddy Correlation System Breakdown Data by Company

3.1.1 Global Eddy Correlation System Annual Sales by Company (2021-2026)

3.1.2 Global Eddy Correlation System Sales Market Share by Company (2021-2026)

3.2 Global Eddy Correlation System Annual Revenue by Company (2021-2026)

3.2.1 Global Eddy Correlation System Revenue by Company (2021-2026)

3.2.2 Global Eddy Correlation System Revenue Market Share by Company

(2021-2026)

3.3 Global Eddy Correlation System Sale Price by Company

3.4 Key Manufacturers Eddy Correlation System Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Eddy Correlation System Product Location Distribution

3.4.2 Players Eddy Correlation System Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR EDDY CORRELATION SYSTEM BY GEOGRAPHIC REGION

4.1 World Historic Eddy Correlation System Market Size by Geographic Region (2021-2026)

4.1.1 Global Eddy Correlation System Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Eddy Correlation System Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Eddy Correlation System Market Size by Country/Region (2021-2026)

4.2.1 Global Eddy Correlation System Annual Sales by Country/Region (2021-2026)

4.2.2 Global Eddy Correlation System Annual Revenue by Country/Region (2021-2026)

4.3 Americas Eddy Correlation System Sales Growth

4.4 APAC Eddy Correlation System Sales Growth

4.5 Europe Eddy Correlation System Sales Growth

4.6 Middle East & Africa Eddy Correlation System Sales Growth

5 AMERICAS

5.1 Americas Eddy Correlation System Sales by Country

5.1.1 Americas Eddy Correlation System Sales by Country (2021-2026)

5.1.2 Americas Eddy Correlation System Revenue by Country (2021-2026)

5.2 Americas Eddy Correlation System Sales by Type (2021-2026)

5.3 Americas Eddy Correlation System Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Eddy Correlation System Sales by Region

6.1.1 APAC Eddy Correlation System Sales by Region (2021-2026)

6.1.2 APAC Eddy Correlation System Revenue by Region (2021-2026)

6.2 APAC Eddy Correlation System Sales by Type (2021-2026)

6.3 APAC Eddy Correlation System Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Eddy Correlation System by Country

7.1.1 Europe Eddy Correlation System Sales by Country (2021-2026)

7.1.2 Europe Eddy Correlation System Revenue by Country (2021-2026)

7.2 Europe Eddy Correlation System Sales by Type (2021-2026)

7.3 Europe Eddy Correlation System Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Eddy Correlation System by Country

8.1.1 Middle East & Africa Eddy Correlation System Sales by Country (2021-2026)

8.1.2 Middle East & Africa Eddy Correlation System Revenue by Country (2021-2026)

8.2 Middle East & Africa Eddy Correlation System Sales by Type (2021-2026)

8.3 Middle East & Africa Eddy Correlation System Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Eddy Correlation System

10.3 Manufacturing Process Analysis of Eddy Correlation System

10.4 Industry Chain Structure of Eddy Correlation System

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Eddy Correlation System Distributors

11.3 Eddy Correlation System Customer

12 WORLD FORECAST REVIEW FOR EDDY CORRELATION SYSTEM BY GEOGRAPHIC REGION

12.1 Global Eddy Correlation System Market Size Forecast by Region

12.1.1 Global Eddy Correlation System Forecast by Region (2027-2032)

12.1.2 Global Eddy Correlation System Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Eddy Correlation System Forecast by Type (2027-2032)

12.7 Global Eddy Correlation System Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 LI-COR

13.1.1 LI-COR Company Information

- 13.1.2 LI-COR Eddy Correlation System Product Portfolios and Specifications
- 13.1.3 LI-COR Eddy Correlation System Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 LI-COR Main Business Overview
- 13.1.5 LI-COR Latest Developments
- 13.2 Unisense
 - 13.2.1 Unisense Company Information
 - 13.2.2 Unisense Eddy Correlation System Product Portfolios and Specifications
 - 13.2.3 Unisense Eddy Correlation System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Unisense Main Business Overview
 - 13.2.5 Unisense Latest Developments
- 13.3 Campbell Scientific
 - 13.3.1 Campbell Scientific Company Information
 - 13.3.2 Campbell Scientific Eddy Correlation System Product Portfolios and Specifications
 - 13.3.3 Campbell Scientific Eddy Correlation System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Campbell Scientific Main Business Overview
 - 13.3.5 Campbell Scientific Latest Developments
- 13.4 Los Gatos Research
 - 13.4.1 Los Gatos Research Company Information
 - 13.4.2 Los Gatos Research Eddy Correlation System Product Portfolios and Specifications
 - 13.4.3 Los Gatos Research Eddy Correlation System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Los Gatos Research Main Business Overview
 - 13.4.5 Los Gatos Research Latest Developments
- 13.5 Picarro
 - 13.5.1 Picarro Company Information
 - 13.5.2 Picarro Eddy Correlation System Product Portfolios and Specifications
 - 13.5.3 Picarro Eddy Correlation System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Picarro Main Business Overview
 - 13.5.5 Picarro Latest Developments
- 13.6 Healthy Photon (Ningbo) Technology Co., Ltd.
 - 13.6.1 Healthy Photon (Ningbo) Technology Co., Ltd. Company Information
 - 13.6.2 Healthy Photon (Ningbo) Technology Co., Ltd. Eddy Correlation System Product Portfolios and Specifications

13.6.3 Healthy Photon (Ningbo) Technology Co., Ltd. Eddy Correlation System Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Healthy Photon (Ningbo) Technology Co., Ltd. Main Business Overview

13.6.5 Healthy Photon (Ningbo) Technology Co., Ltd. Latest Developments

13.7 CLIMATEC, Inc.

13.7.1 CLIMATEC, Inc. Company Information

13.7.2 CLIMATEC, Inc. Eddy Correlation System Product Portfolios and Specifications

13.7.3 CLIMATEC, Inc. Eddy Correlation System Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 CLIMATEC, Inc. Main Business Overview

13.7.5 CLIMATEC, Inc. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Eddy Correlation System Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Eddy Correlation System Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of CO₂/H₂O Eddy Covariance System

Table 4. Major Players of CH₄ Eddy Covariance System

Table 5. Major Players of Multi-Gas Eddy Flux System

Table 6. Global Eddy Correlation System Sales by Type (2021-2026) & (Units)

Table 7. Global Eddy Correlation System Sales Market Share by Type (2021-2026)

Table 8. Global Eddy Correlation System Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Eddy Correlation System Revenue Market Share by Type (2021-2026)

Table 10. Global Eddy Correlation System Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Open-Path Eddy Covariance System

Table 12. Major Players of Closed-Path Eddy Covariance System

Table 13. Global Eddy Correlation System Sales by System Configuration (2021-2026) & (Units)

Table 14. Global Eddy Correlation System Sales Market Share by System Configuration (2021-2026)

Table 15. Global Eddy Correlation System Revenue by System Configuration (2021-2026) & (\$ million)

Table 16. Global Eddy Correlation System Revenue Market Share by System Configuration (2021-2026)

Table 17. Global Eddy Correlation System Sale Price by System Configuration (2021-2026) & (US\$/Unit)

Table 18. Major Players of Low-frequency Systems: 5-10Hz

Table 19. Major Players of Standard Frequency Systems: 10-20Hz

Table 20. Major Players of High-frequency Systems: Above 20Hz

Table 21. Global Eddy Correlation System Sales by Sampling Frequency (2021-2026) & (Units)

Table 22. Global Eddy Correlation System Sales Market Share by Sampling Frequency (2021-2026)

Table 23. Global Eddy Correlation System Revenue by Sampling Frequency (2021-2026) & (\$ million)

Table 24. Global Eddy Correlation System Revenue Market Share by Sampling Frequency (2021-2026)

Table 25. Global Eddy Correlation System Sale Price by Sampling Frequency (2021-2026) & (US\$/Unit)

Table 26. Global Eddy Correlation System Sale by Application (2021-2026) & (Units)

Table 27. Global Eddy Correlation System Sale Market Share by Application (2021-2026)

Table 28. Global Eddy Correlation System Revenue by Application (2021-2026) & (\$ million)

Table 29. Global Eddy Correlation System Revenue Market Share by Application (2021-2026)

Table 30. Global Eddy Correlation System Sale Price by Application (2021-2026) & (US\$/Unit)

Table 31. Global Eddy Correlation System Sales by Company (2021-2026) & (Units)

Table 32. Global Eddy Correlation System Sales Market Share by Company (2021-2026)

Table 33. Global Eddy Correlation System Revenue by Company (2021-2026) & (\$ millions)

Table 34. Global Eddy Correlation System Revenue Market Share by Company (2021-2026)

Table 35. Global Eddy Correlation System Sale Price by Company (2021-2026) & (US\$/Unit)

Table 36. Key Manufacturers Eddy Correlation System Producing Area Distribution and Sales Area

Table 37. Players Eddy Correlation System Products Offered

Table 38. Eddy Correlation System Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 39. New Products and Potential Entrants

Table 40. Market M&A Activity & Strategy

Table 41. Global Eddy Correlation System Sales by Geographic Region (2021-2026) & (Units)

Table 42. Global Eddy Correlation System Sales Market Share Geographic Region (2021-2026)

Table 43. Global Eddy Correlation System Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 44. Global Eddy Correlation System Revenue Market Share by Geographic Region (2021-2026)

Table 45. Global Eddy Correlation System Sales by Country/Region (2021-2026) & (Units)

Table 46. Global Eddy Correlation System Sales Market Share by Country/Region (2021-2026)

Table 47. Global Eddy Correlation System Revenue by Country/Region (2021-2026) & (\$ millions)

Table 48. Global Eddy Correlation System Revenue Market Share by Country/Region (2021-2026)

Table 49. Americas Eddy Correlation System Sales by Country (2021-2026) & (Units)

Table 50. Americas Eddy Correlation System Sales Market Share by Country (2021-2026)

Table 51. Americas Eddy Correlation System Revenue by Country (2021-2026) & (\$ millions)

Table 52. Americas Eddy Correlation System Sales by Type (2021-2026) & (Units)

Table 53. Americas Eddy Correlation System Sales by Application (2021-2026) & (Units)

Table 54. APAC Eddy Correlation System Sales by Region (2021-2026) & (Units)

Table 55. APAC Eddy Correlation System Sales Market Share by Region (2021-2026)

Table 56. APAC Eddy Correlation System Revenue by Region (2021-2026) & (\$ millions)

Table 57. APAC Eddy Correlation System Sales by Type (2021-2026) & (Units)

Table 58. APAC Eddy Correlation System Sales by Application (2021-2026) & (Units)

Table 59. Europe Eddy Correlation System Sales by Country (2021-2026) & (Units)

Table 60. Europe Eddy Correlation System Revenue by Country (2021-2026) & (\$ millions)

Table 61. Europe Eddy Correlation System Sales by Type (2021-2026) & (Units)

Table 62. Europe Eddy Correlation System Sales by Application (2021-2026) & (Units)

Table 63. Middle East & Africa Eddy Correlation System Sales by Country (2021-2026) & (Units)

Table 64. Middle East & Africa Eddy Correlation System Revenue Market Share by Country (2021-2026)

Table 65. Middle East & Africa Eddy Correlation System Sales by Type (2021-2026) & (Units)

Table 66. Middle East & Africa Eddy Correlation System Sales by Application (2021-2026) & (Units)

Table 67. Key Market Drivers & Growth Opportunities of Eddy Correlation System

Table 68. Key Market Challenges & Risks of Eddy Correlation System

Table 69. Key Industry Trends of Eddy Correlation System

Table 70. Eddy Correlation System Raw Material

Table 71. Key Suppliers of Raw Materials

Table 72. Eddy Correlation System Distributors List

Table 73. Eddy Correlation System Customer List

Table 74. Global Eddy Correlation System Sales Forecast by Region (2027-2032) &

(Units)

Table 75. Global Eddy Correlation System Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 76. Americas Eddy Correlation System Sales Forecast by Country (2027-2032) & (Units)

Table 77. Americas Eddy Correlation System Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 78. APAC Eddy Correlation System Sales Forecast by Region (2027-2032) & (Units)

Table 79. APAC Eddy Correlation System Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 80. Europe Eddy Correlation System Sales Forecast by Country (2027-2032) & (Units)

Table 81. Europe Eddy Correlation System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. Middle East & Africa Eddy Correlation System Sales Forecast by Country (2027-2032) & (Units)

Table 83. Middle East & Africa Eddy Correlation System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Global Eddy Correlation System Sales Forecast by Type (2027-2032) & (Units)

Table 85. Global Eddy Correlation System Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 86. Global Eddy Correlation System Sales Forecast by Application (2027-2032) & (Units)

Table 87. Global Eddy Correlation System Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 88. LI-COR Basic Information, Eddy Correlation System Manufacturing Base, Sales Area and Its Competitors

Table 89. LI-COR Eddy Correlation System Product Portfolios and Specifications

Table 90. LI-COR Eddy Correlation System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 91. LI-COR Main Business

Table 92. LI-COR Latest Developments

Table 93. Unisense Basic Information, Eddy Correlation System Manufacturing Base, Sales Area and Its Competitors

Table 94. Unisense Eddy Correlation System Product Portfolios and Specifications

Table 95. Unisense Eddy Correlation System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 96. Unisense Main Business

Table 97. Unisense Latest Developments

Table 98. Campbell Scientific Basic Information, Eddy Correlation System
Manufacturing Base, Sales Area and Its Competitors

Table 99. Campbell Scientific Eddy Correlation System Product Portfolios and
Specifications

Table 100. Campbell Scientific Eddy Correlation System Sales (Units), Revenue (\$
Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 101. Campbell Scientific Main Business

Table 102. Campbell Scientific Latest Developments

Table 103. Los Gatos Research Basic Information, Eddy Correlation System
Manufacturing Base, Sales Area and Its Competitors

Table 104. Los Gatos Research Eddy Correlation System Product Portfolios and
Specifications

Table 105. Los Gatos Research Eddy Correlation System Sales (Units), Revenue (\$
Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 106. Los Gatos Research Main Business

Table 107. Los Gatos Research Latest Developments

Table 108. Picarro Basic Information, Eddy Correlation System Manufacturing Base,
Sales Area and Its Competitors

Table 109. Picarro Eddy Correlation System Product Portfolios and Specifications

Table 110. Picarro Eddy Correlation System Sales (Units), Revenue (\$ Million), Price
(US\$/Unit) and Gross Margin (2021-2026)

Table 111. Picarro Main Business

Table 112. Picarro Latest Developments

Table 113. Healthy Photon (Ningbo) Technology Co., Ltd. Basic Information, Eddy
Correlation System Manufacturing Base, Sales Area and Its Competitors

Table 114. Healthy Photon (Ningbo) Technology Co., Ltd. Eddy Correlation System
Product Portfolios and Specifications

Table 115. Healthy Photon (Ningbo) Technology Co., Ltd. Eddy Correlation System
Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 116. Healthy Photon (Ningbo) Technology Co., Ltd. Main Business

Table 117. Healthy Photon (Ningbo) Technology Co., Ltd. Latest Developments

Table 118. CLIMATEC, Inc. Basic Information, Eddy Correlation System Manufacturing
Base, Sales Area and Its Competitors

Table 119. CLIMATEC, Inc. Eddy Correlation System Product Portfolios and
Specifications

Table 120. CLIMATEC, Inc. Eddy Correlation System Sales (Units), Revenue (\$ Million),
Price (US\$/Unit) and Gross Margin (2021-2026)

Table 121. CLIMATEC,Inc. Main Business

Table 122. CLIMATEC,Inc. Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Eddy Correlation System
- Figure 2. Eddy Correlation System Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Eddy Correlation System Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Eddy Correlation System Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Eddy Correlation System Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Eddy Correlation System Sales Market Share by Country/Region (2025)
- Figure 10. Eddy Correlation System Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of CO₂/H₂O Eddy Covariance System
- Figure 12. Product Picture of CH₄ Eddy Covariance System
- Figure 13. Product Picture of Multi-Gas Eddy Flux System
- Figure 14. Global Eddy Correlation System Sales Market Share by Type in 2026
- Figure 15. Global Eddy Correlation System Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Open-Path Eddy Covariance System
- Figure 17. Product Picture of Closed-Path Eddy Covariance System
- Figure 18. Global Eddy Correlation System Sales Market Share by System Configuration in 2026
- Figure 19. Global Eddy Correlation System Revenue Market Share by System Configuration (2021-2026)
- Figure 20. Product Picture of Low-frequency Systems: 5-10Hz
- Figure 21. Product Picture of Standard Frequency Systems: 10-20Hz
- Figure 22. Product Picture of High-frequency Systems: Above 20Hz
- Figure 23. Global Eddy Correlation System Sales Market Share by Sampling Frequency in 2026
- Figure 24. Global Eddy Correlation System Revenue Market Share by Sampling Frequency (2021-2026)
- Figure 25. Eddy Correlation System Consumed in Agricultural Water Use Efficiency
- Figure 26. Global Eddy Correlation System Market: Agricultural Water Use Efficiency (2021-2026) & (Units)
- Figure 27. Eddy Correlation System Consumed in Forest Carbon Sink Assessment

Figure 28. Global Eddy Correlation System Market: Forest Carbon Sink Assessment (2021-2026) & (Units)

Figure 29. Eddy Correlation System Consumed in Wetland Methane Emission Studies

Figure 30. Global Eddy Correlation System Market: Wetland Methane Emission Studies (2021-2026) & (Units)

Figure 31. Eddy Correlation System Consumed in Urban Climate Observation

Figure 32. Global Eddy Correlation System Market: Urban Climate Observation (2021-2026) & (Units)

Figure 33. Eddy Correlation System Consumed in Others

Figure 34. Global Eddy Correlation System Market: Others (2021-2026) & (Units)

Figure 35. Global Eddy Correlation System Sale Market Share by Application (2025)

Figure 36. Global Eddy Correlation System Revenue Market Share by Application in 2025

Figure 37. Eddy Correlation System Sales by Company in 2025 (Units)

Figure 38. Global Eddy Correlation System Sales Market Share by Company in 2025

Figure 39. Eddy Correlation System Revenue by Company in 2025 (\$ millions)

Figure 40. Global Eddy Correlation System Revenue Market Share by Company in 2025

Figure 41. Global Eddy Correlation System Sales Market Share by Geographic Region (2021-2026)

Figure 42. Global Eddy Correlation System Revenue Market Share by Geographic Region in 2025

Figure 43. Americas Eddy Correlation System Sales 2021-2026 (Units)

Figure 44. Americas Eddy Correlation System Revenue 2021-2026 (\$ millions)

Figure 45. APAC Eddy Correlation System Sales 2021-2026 (Units)

Figure 46. APAC Eddy Correlation System Revenue 2021-2026 (\$ millions)

Figure 47. Europe Eddy Correlation System Sales 2021-2026 (Units)

Figure 48. Europe Eddy Correlation System Revenue 2021-2026 (\$ millions)

Figure 49. Middle East & Africa Eddy Correlation System Sales 2021-2026 (Units)

Figure 50. Middle East & Africa Eddy Correlation System Revenue 2021-2026 (\$ millions)

Figure 51. Americas Eddy Correlation System Sales Market Share by Country in 2025

Figure 52. Americas Eddy Correlation System Revenue Market Share by Country (2021-2026)

Figure 53. Americas Eddy Correlation System Sales Market Share by Type (2021-2026)

Figure 54. Americas Eddy Correlation System Sales Market Share by Application (2021-2026)

Figure 55. United States Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 56. Canada Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 57. Mexico Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 58. Brazil Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 59. APAC Eddy Correlation System Sales Market Share by Region in 2025

Figure 60. APAC Eddy Correlation System Revenue Market Share by Region
(2021-2026)

Figure 61. APAC Eddy Correlation System Sales Market Share by Type (2021-2026)

Figure 62. APAC Eddy Correlation System Sales Market Share by Application
(2021-2026)

Figure 63. China Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 64. Japan Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 65. South Korea Eddy Correlation System Revenue Growth 2021-2026 (\$
millions)

Figure 66. Southeast Asia Eddy Correlation System Revenue Growth 2021-2026 (\$
millions)

Figure 67. India Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 68. Australia Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 69. China Taiwan Eddy Correlation System Revenue Growth 2021-2026 (\$
millions)

Figure 70. Europe Eddy Correlation System Sales Market Share by Country in 2025

Figure 71. Europe Eddy Correlation System Revenue Market Share by Country
(2021-2026)

Figure 72. Europe Eddy Correlation System Sales Market Share by Type (2021-2026)

Figure 73. Europe Eddy Correlation System Sales Market Share by Application
(2021-2026)

Figure 74. Germany Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 75. France Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 76. UK Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 77. Italy Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 78. Russia Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 79. Middle East & Africa Eddy Correlation System Sales Market Share by
Country (2021-2026)

Figure 80. Middle East & Africa Eddy Correlation System Sales Market Share by Type
(2021-2026)

Figure 81. Middle East & Africa Eddy Correlation System Sales Market Share by
Application (2021-2026)

Figure 82. Egypt Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 83. South Africa Eddy Correlation System Revenue Growth 2021-2026 (\$
millions)

Figure 84. Israel Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 85. Turkey Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 86. GCC Countries Eddy Correlation System Revenue Growth 2021-2026 (\$ millions)

Figure 87. Manufacturing Cost Structure Analysis of Eddy Correlation System in 2026

Figure 88. Manufacturing Process Analysis of Eddy Correlation System

Figure 89. Industry Chain Structure of Eddy Correlation System

Figure 90. Channels of Distribution

Figure 91. Global Eddy Correlation System Sales Market Forecast by Region (2027-2032)

Figure 92. Global Eddy Correlation System Revenue Market Share Forecast by Region (2027-2032)

Figure 93. Global Eddy Correlation System Sales Market Share Forecast by Type (2027-2032)

Figure 94. Global Eddy Correlation System Revenue Market Share Forecast by Type (2027-2032)

Figure 95. Global Eddy Correlation System Sales Market Share Forecast by Application (2027-2032)

Figure 96. Global Eddy Correlation System Revenue Market Share Forecast by Application (2027-2032)

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