

Global Plant Water Evaporation Rate Tester Market Growth 2026-2032

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Abstracts

The global Plant Water Evaporation Rate Tester market size is predicted to grow from US\$ 182 million in 2025 to US\$ 304 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

A plant water evaporation rate tester is a scientific instrument used to measure the transpiration rate of plant leaves or the entire plant. This device monitors the amount of water lost by plants in real time under specific environmental conditions, and, in conjunction with parameters such as temperature, humidity, light, and airflow, assesses the intensity of transpiration and water use efficiency. It is widely used in plant physiological ecology, crop drought resistance research, water-saving irrigation management, and environmental response analysis. Modern plant water evaporation rate testers mostly employ high-precision weighing, infrared gas analysis, or gas chamber equilibrium methods, enabling automated measurement and data acquisition, providing important experimental tools for studying plant water metabolism and ecological adaptability. Sales in 2025 were 330,000 units, with an average price of \$525 per unit. Total production capacity was 400,000 units, with a gross profit margin of 58%.

With increasing global focus on plant water use efficiency, crop stress resistance, and ecosystem water cycles, the market demand for plant water evaporation/transpiration rate testers and related measurement equipment continues to expand steadily. These instruments play a crucial role not only in basic plant physiology research, environmental monitoring, and ecology, but also as key tools in precision agriculture, irrigation optimization, and breeding experiments. Research institutions, agricultural technology companies, and universities are showing increased willingness to purchase high-precision, multi-parameter automated measurement equipment, driving technological innovation and product upgrades in this market segment.

Industry competition is shifting from traditional laboratory instruments to portable, multi-parameter fusion, and intelligent data analysis solutions. Benefiting from the rapid development of portable sensors, miniaturized designs, real-time multi-indicator acquisition, and data cloud platforms, the availability and application scenarios of these devices have significantly expanded, including applications in fields, greenhouses, and high-throughput phenotyping platforms. Future market growth will be increasingly reflected in the improvement of functional integration, intelligence, and standardized service capabilities, enabling technologies such as plant water evaporation rate testing to penetrate from research tools into increasingly industrialized and large-scale application scenarios.

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

This Insight Report provides a comprehensive analysis of the global Plant Water Evaporation Rate Tester 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 Plant Water Evaporation Rate Tester portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Plant Water Evaporation Rate Tester market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Plant Water Evaporation Rate Tester 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 Plant Water Evaporation Rate Tester.

This report presents a comprehensive overview, market shares, and growth opportunities of Plant Water Evaporation Rate Tester market by product type,

application, key manufacturers and key regions and countries.

Segmentation by Type:

Eddy Covariance Method

Weighing Lysimeter

Energy Balance Method

Others

Segmentation by Function and Technology:

Automatic Recording Type

Multi-Parameter Monitoring Type

Portable / Field Type

Segmentation by Measurement Principle:

Balance Type

Liquid Level Type

Vapor Flow Type

Segmentation by Application:

Agricultural Science

Forestry & Ecological Monitoring

Meteorology & Environmental Monitoring

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, Inc.

Campbell Scientific

FIEDLER AMS

Rain Bird Corporation

Irrrometer Company, Inc.

Sentek Technologies

Microtrac

Delta?T Devices Ltd.

Surface Measurement Systems

Hidden Analytical

Zhejiang Top Cloud-Agri Technology Co., Ltd.

Scitek Global

Labmate Scientific LLC

Nutri-Tech Solutions

Key Questions Addressed in this Report

What is the 10-year outlook for the global Plant Water Evaporation Rate Tester market?

What factors are driving Plant Water Evaporation Rate Tester market growth, globally and by region?

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

How do Plant Water Evaporation Rate Tester market opportunities vary by end market size?

How does Plant Water Evaporation Rate Tester 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 Plant Water Evaporation Rate Tester Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Plant Water Evaporation Rate Tester by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Plant Water Evaporation Rate Tester by Country/Region, 2021, 2025 & 2032
- 2.2 Plant Water Evaporation Rate Tester Segment by Type
 - 2.2.1 Eddy Covariance Method
 - 2.2.2 Weighing Lysimeter
 - 2.2.3 Energy Balance Method
 - 2.2.4 Others
 - 2.2.5 Plant Water Evaporation Rate Tester Sales by Type
 - 2.2.5.1 Global Plant Water Evaporation Rate Tester Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Plant Water Evaporation Rate Tester Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Plant Water Evaporation Rate Tester Sale Price by Type (2021-2026)
- 2.3 Plant Water Evaporation Rate Tester Segment by Function and Technology
 - 2.3.1 Automatic Recording Type
 - 2.3.2 Multi-Parameter Monitoring Type
 - 2.3.3 Portable / Field Type
 - 2.3.4 Plant Water Evaporation Rate Tester Sales by Function and Technology
 - 2.3.4.1 Global Plant Water Evaporation Rate Tester Sales Market Share by Function and Technology (2021-2026)

2.3.4.2 Global Plant Water Evaporation Rate Tester Revenue and Market Share by Function and Technology (2021-2026)

2.3.4.3 Global Plant Water Evaporation Rate Tester Sale Price by Function and Technology (2021-2026)

2.4 Plant Water Evaporation Rate Tester Segment by Measurement Principle

2.4.1 Balance Type

2.4.2 Liquid Level Type

2.4.3 Vapor Flow Type

2.4.4 Plant Water Evaporation Rate Tester Sales by Measurement Principle

2.4.4.1 Global Plant Water Evaporation Rate Tester Sales Market Share by Measurement Principle (2021-2026)

2.4.4.2 Global Plant Water Evaporation Rate Tester Revenue and Market Share by Measurement Principle (2021-2026)

2.4.4.3 Global Plant Water Evaporation Rate Tester Sale Price by Measurement Principle (2021-2026)

2.5 Plant Water Evaporation Rate Tester Segment by Application

2.5.1 Agricultural Science

2.5.2 Forestry & Ecological Monitoring

2.5.3 Meteorology & Environmental Monitoring

2.5.4 Others

2.5.5 Plant Water Evaporation Rate Tester Sales by Application

2.5.5.1 Global Plant Water Evaporation Rate Tester Sale Market Share by Application (2021-2026)

2.5.5.2 Global Plant Water Evaporation Rate Tester Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Plant Water Evaporation Rate Tester Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Plant Water Evaporation Rate Tester Breakdown Data by Company

3.1.1 Global Plant Water Evaporation Rate Tester Annual Sales by Company (2021-2026)

3.1.2 Global Plant Water Evaporation Rate Tester Sales Market Share by Company (2021-2026)

3.2 Global Plant Water Evaporation Rate Tester Annual Revenue by Company (2021-2026)

3.2.1 Global Plant Water Evaporation Rate Tester Revenue by Company (2021-2026)

3.2.2 Global Plant Water Evaporation Rate Tester Revenue Market Share by

Company (2021-2026)

3.3 Global Plant Water Evaporation Rate Tester Sale Price by Company

3.4 Key Manufacturers Plant Water Evaporation Rate Tester Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Plant Water Evaporation Rate Tester Product Location Distribution

3.4.2 Players Plant Water Evaporation Rate Tester 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 PLANT WATER EVAPORATION RATE TESTER BY GEOGRAPHIC REGION

4.1 World Historic Plant Water Evaporation Rate Tester Market Size by Geographic Region (2021-2026)

4.1.1 Global Plant Water Evaporation Rate Tester Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Plant Water Evaporation Rate Tester Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Plant Water Evaporation Rate Tester Market Size by Country/Region (2021-2026)

4.2.1 Global Plant Water Evaporation Rate Tester Annual Sales by Country/Region (2021-2026)

4.2.2 Global Plant Water Evaporation Rate Tester Annual Revenue by Country/Region (2021-2026)

4.3 Americas Plant Water Evaporation Rate Tester Sales Growth

4.4 APAC Plant Water Evaporation Rate Tester Sales Growth

4.5 Europe Plant Water Evaporation Rate Tester Sales Growth

4.6 Middle East & Africa Plant Water Evaporation Rate Tester Sales Growth

5 AMERICAS

5.1 Americas Plant Water Evaporation Rate Tester Sales by Country

5.1.1 Americas Plant Water Evaporation Rate Tester Sales by Country (2021-2026)

5.1.2 Americas Plant Water Evaporation Rate Tester Revenue by Country (2021-2026)

5.2 Americas Plant Water Evaporation Rate Tester Sales by Type (2021-2026)

5.3 Americas Plant Water Evaporation Rate Tester Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Plant Water Evaporation Rate Tester Sales by Region

6.1.1 APAC Plant Water Evaporation Rate Tester Sales by Region (2021-2026)

6.1.2 APAC Plant Water Evaporation Rate Tester Revenue by Region (2021-2026)

6.2 APAC Plant Water Evaporation Rate Tester Sales by Type (2021-2026)

6.3 APAC Plant Water Evaporation Rate Tester 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 Plant Water Evaporation Rate Tester by Country

7.1.1 Europe Plant Water Evaporation Rate Tester Sales by Country (2021-2026)

7.1.2 Europe Plant Water Evaporation Rate Tester Revenue by Country (2021-2026)

7.2 Europe Plant Water Evaporation Rate Tester Sales by Type (2021-2026)

7.3 Europe Plant Water Evaporation Rate Tester 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 Plant Water Evaporation Rate Tester by Country

8.1.1 Middle East & Africa Plant Water Evaporation Rate Tester Sales by Country (2021-2026)

8.1.2 Middle East & Africa Plant Water Evaporation Rate Tester Revenue by Country (2021-2026)

8.2 Middle East & Africa Plant Water Evaporation Rate Tester Sales by Type (2021-2026)

8.3 Middle East & Africa Plant Water Evaporation Rate Tester 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 Plant Water Evaporation Rate Tester

10.3 Manufacturing Process Analysis of Plant Water Evaporation Rate Tester

10.4 Industry Chain Structure of Plant Water Evaporation Rate Tester

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Plant Water Evaporation Rate Tester Distributors

11.3 Plant Water Evaporation Rate Tester Customer

12 WORLD FORECAST REVIEW FOR PLANT WATER EVAPORATION RATE TESTER BY GEOGRAPHIC REGION

12.1 Global Plant Water Evaporation Rate Tester Market Size Forecast by Region

12.1.1 Global Plant Water Evaporation Rate Tester Forecast by Region (2027-2032)

12.1.2 Global Plant Water Evaporation Rate Tester 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 Plant Water Evaporation Rate Tester Forecast by Type (2027-2032)

12.7 Global Plant Water Evaporation Rate Tester Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 LI?COR, Inc.

13.1.1 LI?COR, Inc. Company Information

13.1.2 LI?COR, Inc. Plant Water Evaporation Rate Tester Product Portfolios and Specifications

13.1.3 LI?COR, Inc. Plant Water Evaporation Rate Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 LI?COR, Inc. Main Business Overview

13.1.5 LI?COR, Inc. Latest Developments

13.2 Campbell Scientific

13.2.1 Campbell Scientific Company Information

13.2.2 Campbell Scientific Plant Water Evaporation Rate Tester Product Portfolios and Specifications

13.2.3 Campbell Scientific Plant Water Evaporation Rate Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Campbell Scientific Main Business Overview

13.2.5 Campbell Scientific Latest Developments

13.3 FIEDLER AMS

13.3.1 FIEDLER AMS Company Information

13.3.2 FIEDLER AMS Plant Water Evaporation Rate Tester Product Portfolios and Specifications

13.3.3 FIEDLER AMS Plant Water Evaporation Rate Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 FIEDLER AMS Main Business Overview

13.3.5 FIEDLER AMS Latest Developments

13.4 Rain Bird Corporation

13.4.1 Rain Bird Corporation Company Information

13.4.2 Rain Bird Corporation Plant Water Evaporation Rate Tester Product Portfolios and Specifications

13.4.3 Rain Bird Corporation Plant Water Evaporation Rate Tester Sales, Revenue,

Price and Gross Margin (2021-2026)

13.4.4 Rain Bird Corporation Main Business Overview

13.4.5 Rain Bird Corporation Latest Developments

13.5 Irrrometer Company, Inc.

13.5.1 Irrrometer Company, Inc. Company Information

13.5.2 Irrrometer Company, Inc. Plant Water Evaporation Rate Tester Product

Portfolios and Specifications

13.5.3 Irrrometer Company, Inc. Plant Water Evaporation Rate Tester Sales, Revenue,

Price and Gross Margin (2021-2026)

13.5.4 Irrrometer Company, Inc. Main Business Overview

13.5.5 Irrrometer Company, Inc. Latest Developments

13.6 Sentek Technologies

13.6.1 Sentek Technologies Company Information

13.6.2 Sentek Technologies Plant Water Evaporation Rate Tester Product Portfolios

and Specifications

13.6.3 Sentek Technologies Plant Water Evaporation Rate Tester Sales, Revenue,

Price and Gross Margin (2021-2026)

13.6.4 Sentek Technologies Main Business Overview

13.6.5 Sentek Technologies Latest Developments

13.7 Microtrac

13.7.1 Microtrac Company Information

13.7.2 Microtrac Plant Water Evaporation Rate Tester Product Portfolios and

Specifications

13.7.3 Microtrac Plant Water Evaporation Rate Tester Sales, Revenue, Price and

Gross Margin (2021-2026)

13.7.4 Microtrac Main Business Overview

13.7.5 Microtrac Latest Developments

13.8 Delta?T Devices Ltd.

13.8.1 Delta?T Devices Ltd. Company Information

13.8.2 Delta?T Devices Ltd. Plant Water Evaporation Rate Tester Product Portfolios

and Specifications

13.8.3 Delta?T Devices Ltd. Plant Water Evaporation Rate Tester Sales, Revenue,

Price and Gross Margin (2021-2026)

13.8.4 Delta?T Devices Ltd. Main Business Overview

13.8.5 Delta?T Devices Ltd. Latest Developments

13.9 Surface Measurement Systems

13.9.1 Surface Measurement Systems Company Information

13.9.2 Surface Measurement Systems Plant Water Evaporation Rate Tester Product

Portfolios and Specifications

13.9.3 Surface Measurement Systems Plant Water Evaporation Rate Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Surface Measurement Systems Main Business Overview

13.9.5 Surface Measurement Systems Latest Developments

13.10 Hiden Analytical

13.10.1 Hiden Analytical Company Information

13.10.2 Hiden Analytical Plant Water Evaporation Rate Tester Product Portfolios and Specifications

13.10.3 Hiden Analytical Plant Water Evaporation Rate Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Hiden Analytical Main Business Overview

13.10.5 Hiden Analytical Latest Developments

13.11 Zhejiang Top Cloud-Agri Technology Co., Ltd.

13.11.1 Zhejiang Top Cloud-Agri Technology Co., Ltd. Company Information

13.11.2 Zhejiang Top Cloud-Agri Technology Co., Ltd. Plant Water Evaporation Rate Tester Product Portfolios and Specifications

13.11.3 Zhejiang Top Cloud-Agri Technology Co., Ltd. Plant Water Evaporation Rate Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Zhejiang Top Cloud-Agri Technology Co., Ltd. Main Business Overview

13.11.5 Zhejiang Top Cloud-Agri Technology Co., Ltd. Latest Developments

13.12 Scitek Global

13.12.1 Scitek Global Company Information

13.12.2 Scitek Global Plant Water Evaporation Rate Tester Product Portfolios and Specifications

13.12.3 Scitek Global Plant Water Evaporation Rate Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Scitek Global Main Business Overview

13.12.5 Scitek Global Latest Developments

13.13 Labmate Scientific LLC

13.13.1 Labmate Scientific LLC Company Information

13.13.2 Labmate Scientific LLC Plant Water Evaporation Rate Tester Product Portfolios and Specifications

13.13.3 Labmate Scientific LLC Plant Water Evaporation Rate Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Labmate Scientific LLC Main Business Overview

13.13.5 Labmate Scientific LLC Latest Developments

13.14 Nutri-Tech Solutions

13.14.1 Nutri-Tech Solutions Company Information

13.14.2 Nutri-Tech Solutions Plant Water Evaporation Rate Tester Product Portfolios

and Specifications

13.14.3 Nutri-Tech Solutions Plant Water Evaporation Rate Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Nutri-Tech Solutions Main Business Overview

13.14.5 Nutri-Tech Solutions Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Plant Water Evaporation Rate Tester Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Plant Water Evaporation Rate Tester Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Eddy Covariance Method

Table 4. Major Players of Weighing Lysimeter

Table 5. Major Players of Energy Balance Method

Table 6. Major Players of Others

Table 7. Global Plant Water Evaporation Rate Tester Sales by Type (2021-2026) & (K Units)

Table 8. Global Plant Water Evaporation Rate Tester Sales Market Share by Type (2021-2026)

Table 9. Global Plant Water Evaporation Rate Tester Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Plant Water Evaporation Rate Tester Revenue Market Share by Type (2021-2026)

Table 11. Global Plant Water Evaporation Rate Tester Sale Price by Type (2021-2026) & (US\$/Unit)

Table 12. Major Players of Automatic Recording Type

Table 13. Major Players of Multi-Parameter Monitoring Type

Table 14. Major Players of Portable / Field Type

Table 15. Global Plant Water Evaporation Rate Tester Sales by Function and Technology (2021-2026) & (K Units)

Table 16. Global Plant Water Evaporation Rate Tester Sales Market Share by Function and Technology (2021-2026)

Table 17. Global Plant Water Evaporation Rate Tester Revenue by Function and Technology (2021-2026) & (\$ million)

Table 18. Global Plant Water Evaporation Rate Tester Revenue Market Share by Function and Technology (2021-2026)

Table 19. Global Plant Water Evaporation Rate Tester Sale Price by Function and Technology (2021-2026) & (US\$/Unit)

Table 20. Major Players of Balance Type

Table 21. Major Players of Liquid Level Type

Table 22. Major Players of Vapor Flow Type

Table 23. Global Plant Water Evaporation Rate Tester Sales by Measurement Principle

(2021-2026) & (K Units)

Table 24. Global Plant Water Evaporation Rate Tester Sales Market Share by Measurement Principle (2021-2026)

Table 25. Global Plant Water Evaporation Rate Tester Revenue by Measurement Principle (2021-2026) & (\$ million)

Table 26. Global Plant Water Evaporation Rate Tester Revenue Market Share by Measurement Principle (2021-2026)

Table 27. Global Plant Water Evaporation Rate Tester Sale Price by Measurement Principle (2021-2026) & (US\$/Unit)

Table 28. Global Plant Water Evaporation Rate Tester Sale by Application (2021-2026) & (K Units)

Table 29. Global Plant Water Evaporation Rate Tester Sale Market Share by Application (2021-2026)

Table 30. Global Plant Water Evaporation Rate Tester Revenue by Application (2021-2026) & (\$ million)

Table 31. Global Plant Water Evaporation Rate Tester Revenue Market Share by Application (2021-2026)

Table 32. Global Plant Water Evaporation Rate Tester Sale Price by Application (2021-2026) & (US\$/Unit)

Table 33. Global Plant Water Evaporation Rate Tester Sales by Company (2021-2026) & (K Units)

Table 34. Global Plant Water Evaporation Rate Tester Sales Market Share by Company (2021-2026)

Table 35. Global Plant Water Evaporation Rate Tester Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global Plant Water Evaporation Rate Tester Revenue Market Share by Company (2021-2026)

Table 37. Global Plant Water Evaporation Rate Tester Sale Price by Company (2021-2026) & (US\$/Unit)

Table 38. Key Manufacturers Plant Water Evaporation Rate Tester Producing Area Distribution and Sales Area

Table 39. Players Plant Water Evaporation Rate Tester Products Offered

Table 40. Plant Water Evaporation Rate Tester Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global Plant Water Evaporation Rate Tester Sales by Geographic Region (2021-2026) & (K Units)

Table 44. Global Plant Water Evaporation Rate Tester Sales Market Share Geographic

Region (2021-2026)

Table 45. Global Plant Water Evaporation Rate Tester Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global Plant Water Evaporation Rate Tester Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global Plant Water Evaporation Rate Tester Sales by Country/Region (2021-2026) & (K Units)

Table 48. Global Plant Water Evaporation Rate Tester Sales Market Share by Country/Region (2021-2026)

Table 49. Global Plant Water Evaporation Rate Tester Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global Plant Water Evaporation Rate Tester Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas Plant Water Evaporation Rate Tester Sales by Country (2021-2026) & (K Units)

Table 52. Americas Plant Water Evaporation Rate Tester Sales Market Share by Country (2021-2026)

Table 53. Americas Plant Water Evaporation Rate Tester Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas Plant Water Evaporation Rate Tester Sales by Type (2021-2026) & (K Units)

Table 55. Americas Plant Water Evaporation Rate Tester Sales by Application (2021-2026) & (K Units)

Table 56. APAC Plant Water Evaporation Rate Tester Sales by Region (2021-2026) & (K Units)

Table 57. APAC Plant Water Evaporation Rate Tester Sales Market Share by Region (2021-2026)

Table 58. APAC Plant Water Evaporation Rate Tester Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC Plant Water Evaporation Rate Tester Sales by Type (2021-2026) & (K Units)

Table 60. APAC Plant Water Evaporation Rate Tester Sales by Application (2021-2026) & (K Units)

Table 61. Europe Plant Water Evaporation Rate Tester Sales by Country (2021-2026) & (K Units)

Table 62. Europe Plant Water Evaporation Rate Tester Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe Plant Water Evaporation Rate Tester Sales by Type (2021-2026) & (K Units)

Table 64. Europe Plant Water Evaporation Rate Tester Sales by Application (2021-2026) & (K Units)
Table 65. Middle East & Africa Plant Water Evaporation Rate Tester Sales by Country (2021-2026) & (K Units)
Table 66. Middle East & Africa Plant Water Evaporation Rate Tester Revenue Market Share by Country (2021-2026)
Table 67. Middle East & Africa Plant Water Evaporation Rate Tester Sales by Type (2021-2026) & (K Units)
Table 68. Middle East & Africa Plant Water Evaporation Rate Tester Sales by Application (2021-2026) & (K Units)
Table 69. Key Market Drivers & Growth Opportunities of Plant Water Evaporation Rate Tester
Table 70. Key Market Challenges & Risks of Plant Water Evaporation Rate Tester
Table 71. Key Industry Trends of Plant Water Evaporation Rate Tester
Table 72. Plant Water Evaporation Rate Tester Raw Material
Table 73. Key Suppliers of Raw Materials
Table 74. Plant Water Evaporation Rate Tester Distributors List
Table 75. Plant Water Evaporation Rate Tester Customer List
Table 76. Global Plant Water Evaporation Rate Tester Sales Forecast by Region (2027-2032) & (K Units)
Table 77. Global Plant Water Evaporation Rate Tester Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 78. Americas Plant Water Evaporation Rate Tester Sales Forecast by Country (2027-2032) & (K Units)
Table 79. Americas Plant Water Evaporation Rate Tester Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 80. APAC Plant Water Evaporation Rate Tester Sales Forecast by Region (2027-2032) & (K Units)
Table 81. APAC Plant Water Evaporation Rate Tester Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 82. Europe Plant Water Evaporation Rate Tester Sales Forecast by Country (2027-2032) & (K Units)
Table 83. Europe Plant Water Evaporation Rate Tester Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 84. Middle East & Africa Plant Water Evaporation Rate Tester Sales Forecast by Country (2027-2032) & (K Units)
Table 85. Middle East & Africa Plant Water Evaporation Rate Tester Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 86. Global Plant Water Evaporation Rate Tester Sales Forecast by Type

(2027-2032) & (K Units)

Table 87. Global Plant Water Evaporation Rate Tester Revenue Forecast by Type
(2027-2032) & (\$ millions)

Table 88. Global Plant Water Evaporation Rate Tester Sales Forecast by Application
(2027-2032) & (K Units)

Table 89. Global Plant Water Evaporation Rate Tester Revenue Forecast by Application
(2027-2032) & (\$ millions)

Table 90. LI?COR, Inc. Basic Information, Plant Water Evaporation Rate Tester
Manufacturing Base, Sales Area and Its Competitors

Table 91. LI?COR, Inc. Plant Water Evaporation Rate Tester Product Portfolios and
Specifications

Table 92. LI?COR, Inc. Plant Water Evaporation Rate Tester Sales (K Units), Revenue
(\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. LI?COR, Inc. Main Business

Table 94. LI?COR, Inc. Latest Developments

Table 95. Campbell Scientific Basic Information, Plant Water Evaporation Rate Tester
Manufacturing Base, Sales Area and Its Competitors

Table 96. Campbell Scientific Plant Water Evaporation Rate Tester Product Portfolios
and Specifications

Table 97. Campbell Scientific Plant Water Evaporation Rate Tester Sales (K Units),
Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. Campbell Scientific Main Business

Table 99. Campbell Scientific Latest Developments

Table 100. FIEDLER AMS Basic Information, Plant Water Evaporation Rate Tester
Manufacturing Base, Sales Area and Its Competitors

Table 101. FIEDLER AMS Plant Water Evaporation Rate Tester Product Portfolios and
Specifications

Table 102. FIEDLER AMS Plant Water Evaporation Rate Tester Sales (K Units),
Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. FIEDLER AMS Main Business

Table 104. FIEDLER AMS Latest Developments

Table 105. Rain Bird Corporation Basic Information, Plant Water Evaporation Rate
Tester Manufacturing Base, Sales Area and Its Competitors

Table 106. Rain Bird Corporation Plant Water Evaporation Rate Tester Product
Portfolios and Specifications

Table 107. Rain Bird Corporation Plant Water Evaporation Rate Tester Sales (K Units),
Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. Rain Bird Corporation Main Business

Table 109. Rain Bird Corporation Latest Developments

Table 110. Irrrometer Company, Inc. Basic Information, Plant Water Evaporation Rate Tester Manufacturing Base, Sales Area and Its Competitors

Table 111. Irrrometer Company, Inc. Plant Water Evaporation Rate Tester Product Portfolios and Specifications

Table 112. Irrrometer Company, Inc. Plant Water Evaporation Rate Tester Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. Irrrometer Company, Inc. Main Business

Table 114. Irrrometer Company, Inc. Latest Developments

Table 115. Sentek Technologies Basic Information, Plant Water Evaporation Rate Tester Manufacturing Base, Sales Area and Its Competitors

Table 116. Sentek Technologies Plant Water Evaporation Rate Tester Product Portfolios and Specifications

Table 117. Sentek Technologies Plant Water Evaporation Rate Tester Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. Sentek Technologies Main Business

Table 119. Sentek Technologies Latest Developments

Table 120. Microtrac Basic Information, Plant Water Evaporation Rate Tester Manufacturing Base, Sales Area and Its Competitors

Table 121. Microtrac Plant Water Evaporation Rate Tester Product Portfolios and Specifications

Table 122. Microtrac Plant Water Evaporation Rate Tester Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. Microtrac Main Business

Table 124. Microtrac Latest Developments

Table 125. Delta?T Devices Ltd. Basic Information, Plant Water Evaporation Rate Tester Manufacturing Base, Sales Area and Its Competitors

Table 126. Delta?T Devices Ltd. Plant Water Evaporation Rate Tester Product Portfolios and Specifications

Table 127. Delta?T Devices Ltd. Plant Water Evaporation Rate Tester Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. Delta?T Devices Ltd. Main Business

Table 129. Delta?T Devices Ltd. Latest Developments

Table 130. Surface Measurement Systems Basic Information, Plant Water Evaporation Rate Tester Manufacturing Base, Sales Area and Its Competitors

Table 131. Surface Measurement Systems Plant Water Evaporation Rate Tester Product Portfolios and Specifications

Table 132. Surface Measurement Systems Plant Water Evaporation Rate Tester Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 133. Surface Measurement Systems Main Business

Table 134. Surface Measurement Systems Latest Developments
Table 135. Hiden Analytical Basic Information, Plant Water Evaporation Rate Tester Manufacturing Base, Sales Area and Its Competitors
Table 136. Hiden Analytical Plant Water Evaporation Rate Tester Product Portfolios and Specifications
Table 137. Hiden Analytical Plant Water Evaporation Rate Tester Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 138. Hiden Analytical Main Business
Table 139. Hiden Analytical Latest Developments
Table 140. Zhejiang Top Cloud-Agri Technology Co., Ltd. Basic Information, Plant Water Evaporation Rate Tester Manufacturing Base, Sales Area and Its Competitors
Table 141. Zhejiang Top Cloud-Agri Technology Co., Ltd. Plant Water Evaporation Rate Tester Product Portfolios and Specifications
Table 142. Zhejiang Top Cloud-Agri Technology Co., Ltd. Plant Water Evaporation Rate Tester Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 143. Zhejiang Top Cloud-Agri Technology Co., Ltd. Main Business
Table 144. Zhejiang Top Cloud-Agri Technology Co., Ltd. Latest Developments
Table 145. Scitek Global Basic Information, Plant Water Evaporation Rate Tester Manufacturing Base, Sales Area and Its Competitors
Table 146. Scitek Global Plant Water Evaporation Rate Tester Product Portfolios and Specifications
Table 147. Scitek Global Plant Water Evaporation Rate Tester Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 148. Scitek Global Main Business
Table 149. Scitek Global Latest Developments
Table 150. Labmate Scientific LLC Basic Information, Plant Water Evaporation Rate Tester Manufacturing Base, Sales Area and Its Competitors
Table 151. Labmate Scientific LLC Plant Water Evaporation Rate Tester Product Portfolios and Specifications
Table 152. Labmate Scientific LLC Plant Water Evaporation Rate Tester Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 153. Labmate Scientific LLC Main Business
Table 154. Labmate Scientific LLC Latest Developments
Table 155. Nutri-Tech Solutions Basic Information, Plant Water Evaporation Rate Tester Manufacturing Base, Sales Area and Its Competitors
Table 156. Nutri-Tech Solutions Plant Water Evaporation Rate Tester Product Portfolios and Specifications
Table 157. Nutri-Tech Solutions Plant Water Evaporation Rate Tester Sales (K Units),

Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 158. Nutri-Tech Solutions Main Business

Table 159. Nutri-Tech Solutions Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Plant Water Evaporation Rate Tester
- Figure 2. Plant Water Evaporation Rate Tester Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Plant Water Evaporation Rate Tester Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Plant Water Evaporation Rate Tester Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Plant Water Evaporation Rate Tester Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Plant Water Evaporation Rate Tester Sales Market Share by Country/Region (2025)
- Figure 10. Plant Water Evaporation Rate Tester Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Eddy Covariance Method
- Figure 12. Product Picture of Weighing Lysimeter
- Figure 13. Product Picture of Energy Balance Method
- Figure 14. Product Picture of Others
- Figure 15. Global Plant Water Evaporation Rate Tester Sales Market Share by Type in 2026
- Figure 16. Global Plant Water Evaporation Rate Tester Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Automatic Recording Type
- Figure 18. Product Picture of Multi-Parameter Monitoring Type
- Figure 19. Product Picture of Portable / Field Type
- Figure 20. Global Plant Water Evaporation Rate Tester Sales Market Share by Function and Technology in 2026
- Figure 21. Global Plant Water Evaporation Rate Tester Revenue Market Share by Function and Technology (2021-2026)
- Figure 22. Product Picture of Balance Type
- Figure 23. Product Picture of Liquid Level Type
- Figure 24. Product Picture of Vapor Flow Type
- Figure 25. Global Plant Water Evaporation Rate Tester Sales Market Share by Measurement Principle in 2026

Figure 26. Global Plant Water Evaporation Rate Tester Revenue Market Share by Measurement Principle (2021-2026)

Figure 27. Plant Water Evaporation Rate Tester Consumed in Agricultural Science

Figure 28. Global Plant Water Evaporation Rate Tester Market: Agricultural Science (2021-2026) & (K Units)

Figure 29. Plant Water Evaporation Rate Tester Consumed in Forestry & Ecological Monitoring

Figure 30. Global Plant Water Evaporation Rate Tester Market: Forestry & Ecological Monitoring (2021-2026) & (K Units)

Figure 31. Plant Water Evaporation Rate Tester Consumed in Meteorology & Environmental Monitoring

Figure 32. Global Plant Water Evaporation Rate Tester Market: Meteorology & Environmental Monitoring (2021-2026) & (K Units)

Figure 33. Plant Water Evaporation Rate Tester Consumed in Others

Figure 34. Global Plant Water Evaporation Rate Tester Market: Others (2021-2026) & (K Units)

Figure 35. Global Plant Water Evaporation Rate Tester Sale Market Share by Application (2025)

Figure 36. Global Plant Water Evaporation Rate Tester Revenue Market Share by Application in 2026

Figure 37. Plant Water Evaporation Rate Tester Sales by Company in 2026 (K Units)

Figure 38. Global Plant Water Evaporation Rate Tester Sales Market Share by Company in 2026

Figure 39. Plant Water Evaporation Rate Tester Revenue by Company in 2026 (\$ millions)

Figure 40. Global Plant Water Evaporation Rate Tester Revenue Market Share by Company in 2026

Figure 41. Global Plant Water Evaporation Rate Tester Sales Market Share by Geographic Region (2021-2026)

Figure 42. Global Plant Water Evaporation Rate Tester Revenue Market Share by Geographic Region in 2026

Figure 43. Americas Plant Water Evaporation Rate Tester Sales 2021-2026 (K Units)

Figure 44. Americas Plant Water Evaporation Rate Tester Revenue 2021-2026 (\$ millions)

Figure 45. APAC Plant Water Evaporation Rate Tester Sales 2021-2026 (K Units)

Figure 46. APAC Plant Water Evaporation Rate Tester Revenue 2021-2026 (\$ millions)

Figure 47. Europe Plant Water Evaporation Rate Tester Sales 2021-2026 (K Units)

Figure 48. Europe Plant Water Evaporation Rate Tester Revenue 2021-2026 (\$ millions)

Figure 49. Middle East & Africa Plant Water Evaporation Rate Tester Sales 2021-2026 (K Units)

Figure 50. Middle East & Africa Plant Water Evaporation Rate Tester Revenue 2021-2026 (\$ millions)

Figure 51. Americas Plant Water Evaporation Rate Tester Sales Market Share by Country in 2026

Figure 52. Americas Plant Water Evaporation Rate Tester Revenue Market Share by Country (2021-2026)

Figure 53. Americas Plant Water Evaporation Rate Tester Sales Market Share by Type (2021-2026)

Figure 54. Americas Plant Water Evaporation Rate Tester Sales Market Share by Application (2021-2026)

Figure 55. United States Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 56. Canada Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 57. Mexico Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 58. Brazil Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 59. APAC Plant Water Evaporation Rate Tester Sales Market Share by Region in 2026

Figure 60. APAC Plant Water Evaporation Rate Tester Revenue Market Share by Region (2021-2026)

Figure 61. APAC Plant Water Evaporation Rate Tester Sales Market Share by Type (2021-2026)

Figure 62. APAC Plant Water Evaporation Rate Tester Sales Market Share by Application (2021-2026)

Figure 63. China Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 64. Japan Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 65. South Korea Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 66. Southeast Asia Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 67. India Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 68. Australia Plant Water Evaporation Rate Tester Revenue Growth 2021-2026

(\$ millions)

Figure 69. China Taiwan Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 70. Europe Plant Water Evaporation Rate Tester Sales Market Share by Country in 2026

Figure 71. Europe Plant Water Evaporation Rate Tester Revenue Market Share by Country (2021-2026)

Figure 72. Europe Plant Water Evaporation Rate Tester Sales Market Share by Type (2021-2026)

Figure 73. Europe Plant Water Evaporation Rate Tester Sales Market Share by Application (2021-2026)

Figure 74. Germany Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 75. France Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 76. UK Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 77. Italy Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 78. Russia Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 79. Middle East & Africa Plant Water Evaporation Rate Tester Sales Market Share by Country (2021-2026)

Figure 80. Middle East & Africa Plant Water Evaporation Rate Tester Sales Market Share by Type (2021-2026)

Figure 81. Middle East & Africa Plant Water Evaporation Rate Tester Sales Market Share by Application (2021-2026)

Figure 82. Egypt Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 83. South Africa Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 84. Israel Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 85. Turkey Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 86. GCC Countries Plant Water Evaporation Rate Tester Revenue Growth 2021-2026 (\$ millions)

Figure 87. Manufacturing Cost Structure Analysis of Plant Water Evaporation Rate Tester in 2026

Figure 88. Manufacturing Process Analysis of Plant Water Evaporation Rate Tester

Figure 89. Industry Chain Structure of Plant Water Evaporation Rate Tester

Figure 90. Channels of Distribution

Figure 91. Global Plant Water Evaporation Rate Tester Sales Market Forecast by Region (2027-2032)

Figure 92. Global Plant Water Evaporation Rate Tester Revenue Market Share Forecast by Region (2027-2032)

Figure 93. Global Plant Water Evaporation Rate Tester Sales Market Share Forecast by Type (2027-2032)

Figure 94. Global Plant Water Evaporation Rate Tester Revenue Market Share Forecast by Type (2027-2032)

Figure 95. Global Plant Water Evaporation Rate Tester Sales Market Share Forecast by Application (2027-2032)

Figure 96. Global Plant Water Evaporation Rate Tester Revenue Market Share Forecast by Application (2027-2032)

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