

# Global Plant Water Evaporation Rate Tester Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Plant Water Evaporation Rate Tester market size is expected to reach \$ 312 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

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.

This report studies the global Plant Water Evaporation Rate Tester production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Plant Water Evaporation Rate Tester and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Plant Water Evaporation Rate Tester that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Plant Water Evaporation Rate Tester total production and demand, 2021-2032, (K Units)

Global Plant Water Evaporation Rate Tester total production value, 2021-2032, (USD Million)

Global Plant Water Evaporation Rate Tester production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Plant Water Evaporation Rate Tester consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Plant Water Evaporation Rate Tester domestic production, consumption, key domestic manufacturers and share

Global Plant Water Evaporation Rate Tester production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Plant Water Evaporation Rate Tester production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Plant Water Evaporation Rate Tester production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Plant Water Evaporation Rate Tester market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LI?COR, Inc., Campbell Scientific, FIEDLER AMS, Rain Bird Corporation, Irrrometer Company, Inc., Sentek Technologies, Microtrac, Delta?T Devices Ltd., Surface Measurement Systems, Hiden Analytical, etc. This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Plant Water Evaporation Rate Tester market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Plant Water Evaporation Rate Tester Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Plant Water Evaporation Rate Tester Market, Segmentation by Type:

Eddy Covariance Method

Weighing Lysimeter

Energy Balance Method

Others

## Global Plant Water Evaporation Rate Tester Market, Segmentation by Function and Technology:

Automatic Recording Type

Multi-Parameter Monitoring Type

Portable / Field Type

## Global Plant Water Evaporation Rate Tester Market, Segmentation by Measurement Principle:

Balance Type

Liquid Level Type

Vapor Flow Type

## Global Plant Water Evaporation Rate Tester Market, Segmentation by Application:

Agricultural Science

Forestry & Ecological Monitoring

Meteorology & Environmental Monitoring

Others

## Companies Profiled:

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 Answered:**

1. How big is the global Plant Water Evaporation Rate Tester market?
2. What is the demand of the global Plant Water Evaporation Rate Tester market?
3. What is the year over year growth of the global Plant Water Evaporation Rate Tester market?
4. What is the production and production value of the global Plant Water Evaporation Rate Tester market?
5. Who are the key producers in the global Plant Water Evaporation Rate Tester market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Plant Water Evaporation Rate Tester Introduction
- 1.2 World Plant Water Evaporation Rate Tester Supply & Forecast
  - 1.2.1 World Plant Water Evaporation Rate Tester Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Plant Water Evaporation Rate Tester Production (2021-2032)
  - 1.2.3 World Plant Water Evaporation Rate Tester Pricing Trends (2021-2032)
- 1.3 World Plant Water Evaporation Rate Tester Production by Region (Based on Production Site)
  - 1.3.1 World Plant Water Evaporation Rate Tester Production Value by Region (2021-2032)
  - 1.3.2 World Plant Water Evaporation Rate Tester Production by Region (2021-2032)
  - 1.3.3 World Plant Water Evaporation Rate Tester Average Price by Region (2021-2032)
  - 1.3.4 North America Plant Water Evaporation Rate Tester Production (2021-2032)
  - 1.3.5 Europe Plant Water Evaporation Rate Tester Production (2021-2032)
  - 1.3.6 China Plant Water Evaporation Rate Tester Production (2021-2032)
  - 1.3.7 Japan Plant Water Evaporation Rate Tester Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Plant Water Evaporation Rate Tester Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Plant Water Evaporation Rate Tester Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Plant Water Evaporation Rate Tester Demand (2021-2032)
- 2.2 World Plant Water Evaporation Rate Tester Consumption by Region
  - 2.2.1 World Plant Water Evaporation Rate Tester Consumption by Region (2021-2026)
  - 2.2.2 World Plant Water Evaporation Rate Tester Consumption Forecast by Region (2027-2032)
- 2.3 United States Plant Water Evaporation Rate Tester Consumption (2021-2032)
- 2.4 China Plant Water Evaporation Rate Tester Consumption (2021-2032)
- 2.5 Europe Plant Water Evaporation Rate Tester Consumption (2021-2032)
- 2.6 Japan Plant Water Evaporation Rate Tester Consumption (2021-2032)
- 2.7 South Korea Plant Water Evaporation Rate Tester Consumption (2021-2032)
- 2.8 ASEAN Plant Water Evaporation Rate Tester Consumption (2021-2032)

## 2.9 India Plant Water Evaporation Rate Tester Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

#### 3.1 World Plant Water Evaporation Rate Tester Production Value by Manufacturer (2021-2026)

#### 3.2 World Plant Water Evaporation Rate Tester Production by Manufacturer (2021-2026)

#### 3.3 World Plant Water Evaporation Rate Tester Average Price by Manufacturer (2021-2026)

#### 3.4 Plant Water Evaporation Rate Tester Company Evaluation Quadrant

#### 3.5 Industry Rank and Concentration Rate (CR)

##### 3.5.1 Global Plant Water Evaporation Rate Tester Industry Rank of Major Manufacturers

##### 3.5.2 Global Concentration Ratios (CR4) for Plant Water Evaporation Rate Tester in 2025

##### 3.5.3 Global Concentration Ratios (CR8) for Plant Water Evaporation Rate Tester in 2025

#### 3.6 Plant Water Evaporation Rate Tester Market: Overall Company Footprint Analysis

##### 3.6.1 Plant Water Evaporation Rate Tester Market: Region Footprint

##### 3.6.2 Plant Water Evaporation Rate Tester Market: Company Product Type Footprint

##### 3.6.3 Plant Water Evaporation Rate Tester Market: Company Product Application Footprint

#### 3.7 Competitive Environment

##### 3.7.1 Historical Structure of the Industry

##### 3.7.2 Barriers of Market Entry

##### 3.7.3 Factors of Competition

#### 3.8 New Entrant and Capacity Expansion Plans

#### 3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

#### 4.1 United States VS China: Plant Water Evaporation Rate Tester Production Value Comparison

##### 4.1.1 United States VS China: Plant Water Evaporation Rate Tester Production Value Comparison (2021 & 2025 & 2032)

##### 4.1.2 United States VS China: Plant Water Evaporation Rate Tester Production Value Market Share Comparison (2021 & 2025 & 2032)

#### 4.2 United States VS China: Plant Water Evaporation Rate Tester Production

## Comparison

4.2.1 United States VS China: Plant Water Evaporation Rate Tester Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Plant Water Evaporation Rate Tester Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Plant Water Evaporation Rate Tester Consumption Comparison

4.3.1 United States VS China: Plant Water Evaporation Rate Tester Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Plant Water Evaporation Rate Tester Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Plant Water Evaporation Rate Tester Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Plant Water Evaporation Rate Tester Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Plant Water Evaporation Rate Tester Production Value (2021-2026)

4.4.3 United States Based Manufacturers Plant Water Evaporation Rate Tester Production (2021-2026)

4.5 China Based Plant Water Evaporation Rate Tester Manufacturers and Market Share

4.5.1 China Based Plant Water Evaporation Rate Tester Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Plant Water Evaporation Rate Tester Production Value (2021-2026)

4.5.3 China Based Manufacturers Plant Water Evaporation Rate Tester Production (2021-2026)

4.6 Rest of World Based Plant Water Evaporation Rate Tester Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Plant Water Evaporation Rate Tester Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Plant Water Evaporation Rate Tester Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Plant Water Evaporation Rate Tester Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

5.1 World Plant Water Evaporation Rate Tester Market Size Overview by Type: 2021 VS 2025 VS 2032

## 5.2 Segment Introduction by Type

- 5.2.1 Eddy Covariance Method
- 5.2.2 Weighing Lysimeter
- 5.2.3 Energy Balance Method
- 5.2.4 Others

## 5.3 Market Segment by Type

- 5.3.1 World Plant Water Evaporation Rate Tester Production by Type (2021-2032)
- 5.3.2 World Plant Water Evaporation Rate Tester Production Value by Type (2021-2032)
- 5.3.3 World Plant Water Evaporation Rate Tester Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY FUNCTION AND TECHNOLOGY**

### 6.1 World Plant Water Evaporation Rate Tester Market Size Overview by Function and Technology: 2021 VS 2025 VS 2032

### 6.2 Segment Introduction by Function and Technology

- 6.2.1 Automatic Recording Type
- 6.2.2 Multi-Parameter Monitoring Type
- 6.2.3 Portable / Field Type

### 6.3 Market Segment by Function and Technology

- 6.3.1 World Plant Water Evaporation Rate Tester Production by Function and Technology (2021-2032)
- 6.3.2 World Plant Water Evaporation Rate Tester Production Value by Function and Technology (2021-2032)
- 6.3.3 World Plant Water Evaporation Rate Tester Average Price by Function and Technology (2021-2032)

## **7 MARKET ANALYSIS BY MEASUREMENT PRINCIPLE**

### 7.1 World Plant Water Evaporation Rate Tester Market Size Overview by Measurement Principle: 2021 VS 2025 VS 2032

### 7.2 Segment Introduction by Measurement Principle

- 7.2.1 Balance Type
- 7.2.2 Liquid Level Type
- 7.2.3 Vapor Flow Type

### 7.3 Market Segment by Measurement Principle

- 7.3.1 World Plant Water Evaporation Rate Tester Production by Measurement Principle (2021-2032)
- 7.3.2 World Plant Water Evaporation Rate Tester Production Value by Measurement

Principle (2021-2032)

7.3.3 World Plant Water Evaporation Rate Tester Average Price by Measurement

Principle (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Plant Water Evaporation Rate Tester Market Size Overview by Application:  
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Agricultural Science

8.2.2 Forestry & Ecological Monitoring

8.2.3 Meteorology & Environmental Monitoring

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Plant Water Evaporation Rate Tester Production by Application  
(2021-2032)

8.3.2 World Plant Water Evaporation Rate Tester Production Value by Application  
(2021-2032)

8.3.3 World Plant Water Evaporation Rate Tester Average Price by Application  
(2021-2032)

## **9 COMPANY PROFILES**

9.1 LI?COR, Inc.

9.1.1 LI?COR, Inc. Details

9.1.2 LI?COR, Inc. Major Business

9.1.3 LI?COR, Inc. Plant Water Evaporation Rate Tester Product and Services

9.1.4 LI?COR, Inc. Plant Water Evaporation Rate Tester Production, Price, Value,  
Gross Margin and Market Share (2021-2026)

9.1.5 LI?COR, Inc. Recent Developments/Updates

9.1.6 LI?COR, Inc. Competitive Strengths & Weaknesses

9.2 Campbell Scientific

9.2.1 Campbell Scientific Details

9.2.2 Campbell Scientific Major Business

9.2.3 Campbell Scientific Plant Water Evaporation Rate Tester Product and Services

9.2.4 Campbell Scientific Plant Water Evaporation Rate Tester Production, Price,  
Value, Gross Margin and Market Share (2021-2026)

9.2.5 Campbell Scientific Recent Developments/Updates

9.2.6 Campbell Scientific Competitive Strengths & Weaknesses

### 9.3 FIEDLER AMS

#### 9.3.1 FIEDLER AMS Details

#### 9.3.2 FIEDLER AMS Major Business

#### 9.3.3 FIEDLER AMS Plant Water Evaporation Rate Tester Product and Services

#### 9.3.4 FIEDLER AMS Plant Water Evaporation Rate Tester Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.3.5 FIEDLER AMS Recent Developments/Updates

#### 9.3.6 FIEDLER AMS Competitive Strengths & Weaknesses

### 9.4 Rain Bird Corporation

#### 9.4.1 Rain Bird Corporation Details

#### 9.4.2 Rain Bird Corporation Major Business

#### 9.4.3 Rain Bird Corporation Plant Water Evaporation Rate Tester Product and Services

#### 9.4.4 Rain Bird Corporation Plant Water Evaporation Rate Tester Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.4.5 Rain Bird Corporation Recent Developments/Updates

#### 9.4.6 Rain Bird Corporation Competitive Strengths & Weaknesses

### 9.5 Irrrometer Company, Inc.

#### 9.5.1 Irrrometer Company, Inc. Details

#### 9.5.2 Irrrometer Company, Inc. Major Business

#### 9.5.3 Irrrometer Company, Inc. Plant Water Evaporation Rate Tester Product and Services

#### 9.5.4 Irrrometer Company, Inc. Plant Water Evaporation Rate Tester Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.5.5 Irrrometer Company, Inc. Recent Developments/Updates

#### 9.5.6 Irrrometer Company, Inc. Competitive Strengths & Weaknesses

### 9.6 Sentek Technologies

#### 9.6.1 Sentek Technologies Details

#### 9.6.2 Sentek Technologies Major Business

#### 9.6.3 Sentek Technologies Plant Water Evaporation Rate Tester Product and Services

#### 9.6.4 Sentek Technologies Plant Water Evaporation Rate Tester Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.6.5 Sentek Technologies Recent Developments/Updates

#### 9.6.6 Sentek Technologies Competitive Strengths & Weaknesses

### 9.7 Microtrac

#### 9.7.1 Microtrac Details

#### 9.7.2 Microtrac Major Business

#### 9.7.3 Microtrac Plant Water Evaporation Rate Tester Product and Services

#### 9.7.4 Microtrac Plant Water Evaporation Rate Tester Production, Price, Value, Gross

## Margin and Market Share (2021-2026)

9.7.5 Microtrac Recent Developments/Updates

9.7.6 Microtrac Competitive Strengths & Weaknesses

## 9.8 Delta?T Devices Ltd.

9.8.1 Delta?T Devices Ltd. Details

9.8.2 Delta?T Devices Ltd. Major Business

9.8.3 Delta?T Devices Ltd. Plant Water Evaporation Rate Tester Product and Services

9.8.4 Delta?T Devices Ltd. Plant Water Evaporation Rate Tester Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Delta?T Devices Ltd. Recent Developments/Updates

9.8.6 Delta?T Devices Ltd. Competitive Strengths & Weaknesses

## 9.9 Surface Measurement Systems

9.9.1 Surface Measurement Systems Details

9.9.2 Surface Measurement Systems Major Business

9.9.3 Surface Measurement Systems Plant Water Evaporation Rate Tester Product and Services

9.9.4 Surface Measurement Systems Plant Water Evaporation Rate Tester Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Surface Measurement Systems Recent Developments/Updates

9.9.6 Surface Measurement Systems Competitive Strengths & Weaknesses

## 9.10 Hiden Analytical

9.10.1 Hiden Analytical Details

9.10.2 Hiden Analytical Major Business

9.10.3 Hiden Analytical Plant Water Evaporation Rate Tester Product and Services

9.10.4 Hiden Analytical Plant Water Evaporation Rate Tester Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Hiden Analytical Recent Developments/Updates

9.10.6 Hiden Analytical Competitive Strengths & Weaknesses

## 9.11 Zhejiang Top Cloud-Agri Technology Co., Ltd.

9.11.1 Zhejiang Top Cloud-Agri Technology Co., Ltd. Details

9.11.2 Zhejiang Top Cloud-Agri Technology Co., Ltd. Major Business

9.11.3 Zhejiang Top Cloud-Agri Technology Co., Ltd. Plant Water Evaporation Rate Tester Product and Services

9.11.4 Zhejiang Top Cloud-Agri Technology Co., Ltd. Plant Water Evaporation Rate Tester Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Zhejiang Top Cloud-Agri Technology Co., Ltd. Recent Developments/Updates

9.11.6 Zhejiang Top Cloud-Agri Technology Co., Ltd. Competitive Strengths & Weaknesses

## 9.12 Scitek Global

- 9.12.1 Scitek Global Details
- 9.12.2 Scitek Global Major Business
- 9.12.3 Scitek Global Plant Water Evaporation Rate Tester Product and Services
- 9.12.4 Scitek Global Plant Water Evaporation Rate Tester Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Scitek Global Recent Developments/Updates
- 9.12.6 Scitek Global Competitive Strengths & Weaknesses
- 9.13 Labmate Scientific LLC
  - 9.13.1 Labmate Scientific LLC Details
  - 9.13.2 Labmate Scientific LLC Major Business
  - 9.13.3 Labmate Scientific LLC Plant Water Evaporation Rate Tester Product and Services
  - 9.13.4 Labmate Scientific LLC Plant Water Evaporation Rate Tester Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Labmate Scientific LLC Recent Developments/Updates
  - 9.13.6 Labmate Scientific LLC Competitive Strengths & Weaknesses
- 9.14 Nutri-Tech Solutions
  - 9.14.1 Nutri-Tech Solutions Details
  - 9.14.2 Nutri-Tech Solutions Major Business
  - 9.14.3 Nutri-Tech Solutions Plant Water Evaporation Rate Tester Product and Services
  - 9.14.4 Nutri-Tech Solutions Plant Water Evaporation Rate Tester Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 Nutri-Tech Solutions Recent Developments/Updates
  - 9.14.6 Nutri-Tech Solutions Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Plant Water Evaporation Rate Tester Industry Chain
- 10.2 Plant Water Evaporation Rate Tester Upstream Analysis
  - 10.2.1 Plant Water Evaporation Rate Tester Core Raw Materials
  - 10.2.2 Main Manufacturers of Plant Water Evaporation Rate Tester Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Plant Water Evaporation Rate Tester Production Mode
- 10.6 Plant Water Evaporation Rate Tester Procurement Model
- 10.7 Plant Water Evaporation Rate Tester Industry Sales Model and Sales Channels
  - 10.7.1 Plant Water Evaporation Rate Tester Sales Model

10.7.2 Plant Water Evaporation Rate Tester Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Plant Water Evaporation Rate Tester Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Plant Water Evaporation Rate Tester Production Value by Region (2021-2026) & (USD Million)

Table 3. World Plant Water Evaporation Rate Tester Production Value by Region (2027-2032) & (USD Million)

Table 4. World Plant Water Evaporation Rate Tester Production Value Market Share by Region (2021-2026)

Table 5. World Plant Water Evaporation Rate Tester Production Value Market Share by Region (2027-2032)

Table 6. World Plant Water Evaporation Rate Tester Production by Region (2021-2026) & (K Units)

Table 7. World Plant Water Evaporation Rate Tester Production by Region (2027-2032) & (K Units)

Table 8. World Plant Water Evaporation Rate Tester Production Market Share by Region (2021-2026)

Table 9. World Plant Water Evaporation Rate Tester Production Market Share by Region (2027-2032)

Table 10. World Plant Water Evaporation Rate Tester Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Plant Water Evaporation Rate Tester Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Plant Water Evaporation Rate Tester Major Market Trends

Table 13. World Plant Water Evaporation Rate Tester Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Plant Water Evaporation Rate Tester Consumption by Region (2021-2026) & (K Units)

Table 15. World Plant Water Evaporation Rate Tester Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Plant Water Evaporation Rate Tester Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Plant Water Evaporation Rate Tester Producers in 2025

Table 18. World Plant Water Evaporation Rate Tester Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Plant Water Evaporation Rate Tester Producers in 2025

Table 20. World Plant Water Evaporation Rate Tester Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Plant Water Evaporation Rate Tester Company Evaluation Quadrant

Table 22. World Plant Water Evaporation Rate Tester Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Plant Water Evaporation Rate Tester Production Site of Key Manufacturer

Table 24. Plant Water Evaporation Rate Tester Market: Company Product Type Footprint

Table 25. Plant Water Evaporation Rate Tester Market: Company Product Application Footprint

Table 26. Plant Water Evaporation Rate Tester Competitive Factors

Table 27. Plant Water Evaporation Rate Tester New Entrant and Capacity Expansion Plans

Table 28. Plant Water Evaporation Rate Tester Mergers & Acquisitions Activity

Table 29. United States VS China Plant Water Evaporation Rate Tester Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Plant Water Evaporation Rate Tester Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Plant Water Evaporation Rate Tester Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Plant Water Evaporation Rate Tester Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Plant Water Evaporation Rate Tester Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Plant Water Evaporation Rate Tester Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Plant Water Evaporation Rate Tester Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Plant Water Evaporation Rate Tester Production Market Share (2021-2026)

Table 37. China Based Plant Water Evaporation Rate Tester Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Plant Water Evaporation Rate Tester Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Plant Water Evaporation Rate Tester Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Plant Water Evaporation Rate Tester Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Plant Water Evaporation Rate Tester Production Market Share (2021-2026)

Table 42. Rest of World Based Plant Water Evaporation Rate Tester Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Plant Water Evaporation Rate Tester Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Plant Water Evaporation Rate Tester Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Plant Water Evaporation Rate Tester Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Plant Water Evaporation Rate Tester Production Market Share (2021-2026)

Table 47. World Plant Water Evaporation Rate Tester Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Plant Water Evaporation Rate Tester Production by Type (2021-2026) & (K Units)

Table 49. World Plant Water Evaporation Rate Tester Production by Type (2027-2032) & (K Units)

Table 50. World Plant Water Evaporation Rate Tester Production Value by Type (2021-2026) & (USD Million)

Table 51. World Plant Water Evaporation Rate Tester Production Value by Type (2027-2032) & (USD Million)

Table 52. World Plant Water Evaporation Rate Tester Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Plant Water Evaporation Rate Tester Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Plant Water Evaporation Rate Tester Production Value by Function and Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World Plant Water Evaporation Rate Tester Production by Function and Technology (2021-2026) & (K Units)

Table 56. World Plant Water Evaporation Rate Tester Production by Function and Technology (2027-2032) & (K Units)

Table 57. World Plant Water Evaporation Rate Tester Production Value by Function and Technology (2021-2026) & (USD Million)

Table 58. World Plant Water Evaporation Rate Tester Production Value by Function and Technology (2027-2032) & (USD Million)

Table 59. World Plant Water Evaporation Rate Tester Average Price by Function and

Technology (2021-2026) & (US\$/Unit)

Table 60. World Plant Water Evaporation Rate Tester Average Price by Function and Technology (2027-2032) & (US\$/Unit)

Table 61. World Plant Water Evaporation Rate Tester Production Value by Measurement Principle, (USD Million), 2021 & 2025 & 2032

Table 62. World Plant Water Evaporation Rate Tester Production by Measurement Principle (2021-2026) & (K Units)

Table 63. World Plant Water Evaporation Rate Tester Production by Measurement Principle (2027-2032) & (K Units)

Table 64. World Plant Water Evaporation Rate Tester Production Value by Measurement Principle (2021-2026) & (USD Million)

Table 65. World Plant Water Evaporation Rate Tester Production Value by Measurement Principle (2027-2032) & (USD Million)

Table 66. World Plant Water Evaporation Rate Tester Average Price by Measurement Principle (2021-2026) & (US\$/Unit)

Table 67. World Plant Water Evaporation Rate Tester Average Price by Measurement Principle (2027-2032) & (US\$/Unit)

Table 68. World Plant Water Evaporation Rate Tester Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Plant Water Evaporation Rate Tester Production by Application (2021-2026) & (K Units)

Table 70. World Plant Water Evaporation Rate Tester Production by Application (2027-2032) & (K Units)

Table 71. World Plant Water Evaporation Rate Tester Production Value by Application (2021-2026) & (USD Million)

Table 72. World Plant Water Evaporation Rate Tester Production Value by Application (2027-2032) & (USD Million)

Table 73. World Plant Water Evaporation Rate Tester Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Plant Water Evaporation Rate Tester Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. LI?COR, Inc. Basic Information, Manufacturing Base and Competitors

Table 76. LI?COR, Inc. Major Business

Table 77. LI?COR, Inc. Plant Water Evaporation Rate Tester Product and Services

Table 78. LI?COR, Inc. Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. LI?COR, Inc. Recent Developments/Updates

Table 80. LI?COR, Inc. Competitive Strengths & Weaknesses

Table 81. Campbell Scientific Basic Information, Manufacturing Base and Competitors

Table 82. Campbell Scientific Major Business

Table 83. Campbell Scientific Plant Water Evaporation Rate Tester Product and Services

Table 84. Campbell Scientific Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Campbell Scientific Recent Developments/Updates

Table 86. Campbell Scientific Competitive Strengths & Weaknesses

Table 87. FIEDLER AMS Basic Information, Manufacturing Base and Competitors

Table 88. FIEDLER AMS Major Business

Table 89. FIEDLER AMS Plant Water Evaporation Rate Tester Product and Services

Table 90. FIEDLER AMS Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. FIEDLER AMS Recent Developments/Updates

Table 92. FIEDLER AMS Competitive Strengths & Weaknesses

Table 93. Rain Bird Corporation Basic Information, Manufacturing Base and Competitors

Table 94. Rain Bird Corporation Major Business

Table 95. Rain Bird Corporation Plant Water Evaporation Rate Tester Product and Services

Table 96. Rain Bird Corporation Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Rain Bird Corporation Recent Developments/Updates

Table 98. Rain Bird Corporation Competitive Strengths & Weaknesses

Table 99. Irrrometer Company, Inc. Basic Information, Manufacturing Base and Competitors

Table 100. Irrrometer Company, Inc. Major Business

Table 101. Irrrometer Company, Inc. Plant Water Evaporation Rate Tester Product and Services

Table 102. Irrrometer Company, Inc. Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Irrrometer Company, Inc. Recent Developments/Updates

Table 104. Irrrometer Company, Inc. Competitive Strengths & Weaknesses

Table 105. Sentek Technologies Basic Information, Manufacturing Base and Competitors

Table 106. Sentek Technologies Major Business

Table 107. Sentek Technologies Plant Water Evaporation Rate Tester Product and Services

Table 108. Sentek Technologies Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Sentek Technologies Recent Developments/Updates

Table 110. Sentek Technologies Competitive Strengths & Weaknesses

Table 111. Microtrac Basic Information, Manufacturing Base and Competitors

Table 112. Microtrac Major Business

Table 113. Microtrac Plant Water Evaporation Rate Tester Product and Services

Table 114. Microtrac Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Microtrac Recent Developments/Updates

Table 116. Microtrac Competitive Strengths & Weaknesses

Table 117. Delta?T Devices Ltd. Basic Information, Manufacturing Base and Competitors

Table 118. Delta?T Devices Ltd. Major Business

Table 119. Delta?T Devices Ltd. Plant Water Evaporation Rate Tester Product and Services

Table 120. Delta?T Devices Ltd. Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Delta?T Devices Ltd. Recent Developments/Updates

Table 122. Delta?T Devices Ltd. Competitive Strengths & Weaknesses

Table 123. Surface Measurement Systems Basic Information, Manufacturing Base and Competitors

Table 124. Surface Measurement Systems Major Business

Table 125. Surface Measurement Systems Plant Water Evaporation Rate Tester Product and Services

Table 126. Surface Measurement Systems Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Surface Measurement Systems Recent Developments/Updates

Table 128. Surface Measurement Systems Competitive Strengths & Weaknesses

Table 129. Hiden Analytical Basic Information, Manufacturing Base and Competitors

Table 130. Hiden Analytical Major Business

Table 131. Hiden Analytical Plant Water Evaporation Rate Tester Product and Services

Table 132. Hiden Analytical Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Hiden Analytical Recent Developments/Updates

Table 134. Hiden Analytical Competitive Strengths & Weaknesses

Table 135. Zhejiang Top Cloud-Agri Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 136. Zhejiang Top Cloud-Agri Technology Co., Ltd. Major Business

Table 137. Zhejiang Top Cloud-Agri Technology Co., Ltd. Plant Water Evaporation Rate Tester Product and Services

Table 138. Zhejiang Top Cloud-Agri Technology Co., Ltd. Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Zhejiang Top Cloud-Agri Technology Co., Ltd. Recent Developments/Updates

Table 140. Zhejiang Top Cloud-Agri Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 141. Scitek Global Basic Information, Manufacturing Base and Competitors

Table 142. Scitek Global Major Business

Table 143. Scitek Global Plant Water Evaporation Rate Tester Product and Services

Table 144. Scitek Global Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Scitek Global Recent Developments/Updates

Table 146. Scitek Global Competitive Strengths & Weaknesses

Table 147. Labmate Scientific LLC Basic Information, Manufacturing Base and Competitors

Table 148. Labmate Scientific LLC Major Business

Table 149. Labmate Scientific LLC Plant Water Evaporation Rate Tester Product and Services

Table 150. Labmate Scientific LLC Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Labmate Scientific LLC Recent Developments/Updates

Table 152. Labmate Scientific LLC Competitive Strengths & Weaknesses

Table 153. Nutri-Tech Solutions Basic Information, Manufacturing Base and Competitors

Table 154. Nutri-Tech Solutions Major Business

Table 155. Nutri-Tech Solutions Plant Water Evaporation Rate Tester Product and

## Services

Table 156. Nutri-Tech Solutions Plant Water Evaporation Rate Tester Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Nutri-Tech Solutions Recent Developments/Updates

Table 158. Nutri-Tech Solutions Competitive Strengths & Weaknesses

Table 159. Global Key Players of Plant Water Evaporation Rate Tester Upstream (Raw Materials)

Table 160. Global Plant Water Evaporation Rate Tester Typical Customers

Table 161. Plant Water Evaporation Rate Tester Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. Plant Water Evaporation Rate Tester Picture
- Figure 2. World Plant Water Evaporation Rate Tester Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Plant Water Evaporation Rate Tester Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Plant Water Evaporation Rate Tester Production (2021-2032) & (K Units)
- Figure 5. World Plant Water Evaporation Rate Tester Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Plant Water Evaporation Rate Tester Production Value Market Share by Region (2021-2032)
- Figure 7. World Plant Water Evaporation Rate Tester Production Market Share by Region (2021-2032)
- Figure 8. North America Plant Water Evaporation Rate Tester Production (2021-2032) & (K Units)
- Figure 9. Europe Plant Water Evaporation Rate Tester Production (2021-2032) & (K Units)
- Figure 10. China Plant Water Evaporation Rate Tester Production (2021-2032) & (K Units)
- Figure 11. Japan Plant Water Evaporation Rate Tester Production (2021-2032) & (K Units)
- Figure 12. Plant Water Evaporation Rate Tester Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Plant Water Evaporation Rate Tester Consumption (2021-2032) & (K Units)
- Figure 15. World Plant Water Evaporation Rate Tester Consumption Market Share by Region (2021-2032)
- Figure 16. United States Plant Water Evaporation Rate Tester Consumption (2021-2032) & (K Units)
- Figure 17. China Plant Water Evaporation Rate Tester Consumption (2021-2032) & (K Units)
- Figure 18. Europe Plant Water Evaporation Rate Tester Consumption (2021-2032) & (K Units)
- Figure 19. Japan Plant Water Evaporation Rate Tester Consumption (2021-2032) & (K Units)

Figure 20. South Korea Plant Water Evaporation Rate Tester Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Plant Water Evaporation Rate Tester Consumption (2021-2032) & (K Units)

Figure 22. India Plant Water Evaporation Rate Tester Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Plant Water Evaporation Rate Tester by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Plant Water Evaporation Rate Tester Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Plant Water Evaporation Rate Tester Markets in 2025

Figure 26. United States VS China: Plant Water Evaporation Rate Tester Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Plant Water Evaporation Rate Tester Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Plant Water Evaporation Rate Tester Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Plant Water Evaporation Rate Tester Production Market Share 2025

Figure 30. China Based Manufacturers Plant Water Evaporation Rate Tester Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Plant Water Evaporation Rate Tester Production Market Share 2025

Figure 32. World Plant Water Evaporation Rate Tester Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Plant Water Evaporation Rate Tester Production Value Market Share by Type in 2025

Figure 34. Eddy Covariance Method

Figure 35. Weighing Lysimeter

Figure 36. Energy Balance Method

Figure 37. Others

Figure 38. World Plant Water Evaporation Rate Tester Production Market Share by Type (2021-2032)

Figure 39. World Plant Water Evaporation Rate Tester Production Value Market Share by Type (2021-2032)

Figure 40. World Plant Water Evaporation Rate Tester Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Plant Water Evaporation Rate Tester Production Value by Function

and Technology, (USD Million), 2021 & 2025 & 2032

Figure 42. World Plant Water Evaporation Rate Tester Production Value Market Share by Function and Technology in 2025

Figure 43. Automatic Recording Type

Figure 44. Multi-Parameter Monitoring Type

Figure 45. Portable / Field Type

Figure 46. World Plant Water Evaporation Rate Tester Production Market Share by Function and Technology (2021-2032)

Figure 47. World Plant Water Evaporation Rate Tester Production Value Market Share by Function and Technology (2021-2032)

Figure 48. World Plant Water Evaporation Rate Tester Average Price by Function and Technology (2021-2032) & (US\$/Unit)

Figure 49. World Plant Water Evaporation Rate Tester Production Value by Measurement Principle, (USD Million), 2021 & 2025 & 2032

Figure 50. World Plant Water Evaporation Rate Tester Production Value Market Share by Measurement Principle in 2025

Figure 51. Balance Type

Figure 52. Liquid Level Type

Figure 53. Vapor Flow Type

Figure 54. World Plant Water Evaporation Rate Tester Production Market Share by Measurement Principle (2021-2032)

Figure 55. World Plant Water Evaporation Rate Tester Production Value Market Share by Measurement Principle (2021-2032)

Figure 56. World Plant Water Evaporation Rate Tester Average Price by Measurement Principle (2021-2032) & (US\$/Unit)

Figure 57. World Plant Water Evaporation Rate Tester Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Plant Water Evaporation Rate Tester Production Value Market Share by Application in 2025

Figure 59. Agricultural Science

Figure 60. Forestry & Ecological Monitoring

Figure 61. Meteorology & Environmental Monitoring

Figure 62. Others

Figure 63. World Plant Water Evaporation Rate Tester Production Market Share by Application (2021-2032)

Figure 64. World Plant Water Evaporation Rate Tester Production Value Market Share by Application (2021-2032)

Figure 65. World Plant Water Evaporation Rate Tester Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Plant Water Evaporation Rate Tester Industry Chain

Figure 67. Plant Water Evaporation Rate Tester Procurement Model

Figure 68. Plant Water Evaporation Rate Tester Sales Model

Figure 69. Plant Water Evaporation Rate Tester Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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