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Global Plant Transpiration Rate Meter Market Growth 2026-2032

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Abstracts

The global Plant Transpiration Rate Meter market size is predicted to grow from US$ 154 million in 2025 to US$ 227 million in 2032; it is expected to grow at a CAGR of 5.8% from 2026 to 2032.

In 2024, the global production of Plant Transpiration Rate Meter was approximately 21,000 units, with an average selling price of about US$7,100 per unit. A single production line had a capacity of approximately 1,200 units per year, with an average gross profit margin of 35-40%. Plant Transpiration Rate Meter is an instrument specifically designed to measure the rate of transpiration in plants. By measuring the rate of water loss from leaves over a specific time period, it helps researchers and horticultural experts understand the water use of plants. These instruments can typically measure multiple parameters simultaneously, such as leaf temperature, air temperature, air humidity, and photosynthetically active radiation intensity, to comprehensively assess the physiological state of the plant.

Upstream core components involve high-precision raw materials and parts, primarily including optical components and sensors for infrared gas analyzers, precision valves and pumps for controlling gas pathways, thermoelectric coolers for maintaining stable temperatures, and special engineering plastics and alloys used for the equipment casing and leaf chamber base. Downstream applications are highly concentrated in scientific research and high-end agriculture, with major users including universities, research institutes, and agricultural technology research and development institutions.

United States market for Plant Transpiration Rate Meter is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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China market for Plant Transpiration Rate Meter 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 Plant Transpiration Rate Meter is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Plant Transpiration Rate Meter players cover LI-COR Biosciences, PP Systems, Cialan Instrument, Scitek Global, ADC BioScientific, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Plant Transpiration Rate Meter market by product type, application, key manufacturers and key regions and countries.

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Market Segmentation

Segmentation by Type:

Portable

Benchtop

Segmentation by Measurement Principle:

Gas Exchange Method

Porometer Method

Gravimetric Method

Potometer Method

Sap Flow Sensor Method

Other

Segmentation by Degree of Automation:

Manual

Semi-Automatic

Fully Automatic

Segmentation by Measurement Object:

Leaf Level

Individual Plant Level

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Canopy Level

Segmentation by Application:

Botanical Research Institute

Agricultural Company

University

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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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 Biosciences

PP Systems

Cialan Instrument

Scitek Global

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ADC BioScientific

Dynamax

Zhejiang Top Cloud-Agri Technology

Shandong Hengmei Electronic Technology

Shandong Horde Electric Technology

Shandong Lanende Intelligent Technology

Hangzhou Lvbo Instrument

Key Questions Addressed in this Report

What is the 10-year outlook for the global Plant Transpiration Rate Meter market?

What factors are driving Plant Transpiration Rate Meter market growth, globally and by region?

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

How do Plant Transpiration Rate Meter market opportunities vary by end market size?

How does Plant Transpiration Rate Meter break out by Type, by Application?

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