

Global Animal Energy Metabolism Monitoring System Market Growth 2026-2032

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Abstracts

The global Animal Energy Metabolism Monitoring System market size is predicted to grow from US\$ 574 million in 2025 to US\$ 993 million in 2032; it is expected to grow at a CAGR of 8.3% from 2026 to 2032.

An Animal Energy Metabolism Monitoring System is a comprehensive experimental system used to determine an animal's energy consumption, metabolic rate, and nutrient utilization efficiency. It assesses the energy metabolism level of animals under different physiological states, environmental conditions, or feed formulations by monitoring parameters such as oxygen consumption (VO₂), carbon dioxide release (VCO₂), respiratory quotient (RQ), and heat production. The system typically employs indirect calorimetry combined with high-precision gas analysis and data modeling to achieve real-time monitoring and quantitative analysis of animal metabolic activities. This equipment is widely used in physiological, nutritional, pharmacological, and precision feeding research, providing scientific evidence for energy balance, drug efficacy evaluation, and feed optimization. It is one of the core instruments in life science and agricultural research. In 2024, sales volume was 120,000 units, with an average price of US\$4,580, a single production line capacity of 10,000 units, and a gross profit margin of 50%.

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

China market for Animal Energy Metabolism Monitoring System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

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

Global key Animal Energy Metabolism Monitoring System players cover Sable Systems International, TSE Systems, PhenoSys GmbH, Columbus Instruments, Bioseb, 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 “Animal Energy Metabolism Monitoring System Industry Forecast” looks at past sales and reviews total world Animal Energy Metabolism Monitoring System sales in 2025, providing a comprehensive analysis by region and market sector of projected Animal Energy Metabolism Monitoring System sales for 2026 through 2032. With Animal Energy Metabolism Monitoring System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Animal Energy Metabolism Monitoring System industry.

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

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

This report presents a comprehensive overview, market shares, and growth

opportunities of Animal Energy Metabolism Monitoring System market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Single-Chamber System

Multi-Chamber High-Throughput System

Segmentation by Measurement Principle:

Direct Calorimetry System

Indirect Calorimetry System

Segmentation by Experimental Subject:

Small Animal Metabolic System

Large Animal Metabolic System

Segmentation by Application:

Life Science Research

Pharmaceutical and Biopharmaceutical Industry

Feed and Animal Husbandry Industry

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.

Sable Systems International

TSE Systems

PhenoSys GmbH

Columbus Instruments

Bioseb

Maze Engineers

AEI Technologies

Shanghai TOW Intelligent Technology Co., Ltd.

Linton Instrumentation

PhenoWorld

Phenome Technologies

Animalab

DIAS Infrared

Biosignal Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global Animal Energy Metabolism Monitoring System market?

What factors are driving Animal Energy Metabolism Monitoring System market growth, globally and by region?

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

How do Animal Energy Metabolism Monitoring System market opportunities vary by end market size?

How does Animal Energy Metabolism Monitoring System break out by Type, by Application?

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