

Aeroponics Market Report by Component (Lightning, Irrigation Component, Sensor, Climate Control, Building Material, and Others), Application (Indoor Farming, Outdoor Farming), and Region 2024-2032

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Abstracts

The global aeroponics market size reached US\$ 1,088.7 Million in 2023. Looking forward, the market is expected to reach US\$ 3,397.9 Million by 2032, exhibiting a growth rate (CAGR) of 13.21% during 2024-2032.

Aeroponics refers to a specialized and advanced hydroponics process, which involves cultivating plants in a controlled mist-based environment. It is utilized for growing fruits, vegetables, leafy greens, vine plants and herbs without needing pots to fill with soil. The plants are suspended in the air through their root structures and are periodically sprayed with solutions enriched with nutrients. Aeroponics uses low-pressure, high-pressure and ultrasonic fogger systems, sensors and lighting and climate control monitors. In comparison to the traditional farming practices, aeroponics offers higher crop yield, uses minimal water and space and generates no toxic waste. It also promotes faster growth in plants, prevents pest infestation, facilitates year-round production and has minimal maintenance requirements.

Aeroponics Market Trends:

Significant growth in the agriculture industry across the globe is one of the key factors creating a positive outlook for the market. Moreover, the widespread adoption of indoor farming practices and vertical aeroponics is providing a thrust to the market growth. With the rising health consciousness, there is a shift in the consumer preference towards organic and disease-free food products, which has resulted in the increasing requirement for efficient aeroponics systems. Organic food cultivated through aeroponic farming systems does not require synthetic fertilizers, pesticides and growth regulators.

In line with this, reducing levels of arable land for traditional farming practices is also contributing to the market growth. Additionally, various technological advancements, such as the development of automated lighting and irrigation systems, smartphone application-based monitoring systems and greenhouse solutions with retractable roofs, are favoring the market growth. Other factors, including extensive research and development (R&D) activities, along with the implementation of favorable government policies, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global aeroponics market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on component and application.

Breakup by Component:

- Lightning
- Irrigation Component
- Sensor
- Climate Control
- Building Material
- Others

Breakup by Application:

- Indoor Farming
- Outdoor Farming

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
- Australia

Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being AERO Development Corp, AeroFarms, Altius Farms, BrightFarms, CleanGreens Solutions SA, Evergreen Farm Oy, Freight Farms Inc., LettUs Grow Ltd., Living Greens Farm Inc. and Ponics Technologies.

Key Questions Answered in This Report

1. How big is the global aeroponics market?
2. What is the expected growth rate of the global aeroponics market during 2024-2032?
3. What are the key factors driving the global aeroponics market?
4. What has been the impact of COVID-19 on the global aeroponics market?
5. What is the breakup of the global aeroponics market based on the component?
6. What is the breakup of the global aeroponics market based on the application?
7. What are the key regions in the global aeroponics market?
8. Who are the key players/companies in the global aeroponics market?

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