

Aeroponics Market by Application (Indoor Farming and Outdoor Farming) and Component (Irrigation Component, Lighting, Sensor, Climate Control, Building Material, and Others): Global Opportunity Analysis and Industry Forecast, 2019-2026

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Abstracts

The global aeroponics market size was valued at \$578.70 million in 2018, and is projected to reach \$3.53 billion by 2026, growing at a CAGR of 25.60% from 2019 to 2026. Aeroponics is an indoor gardening practice in which plants are grown and nourished by suspending their root structures in air. The process requires regular spraying of nutrients in a water solution. Aeroponics offers an efficient means to grow plants, including fruits and vegetables, without the need to pot the plants in nutrient-rich soil. In aeroponics system, the roots of plants are misted with nutrients, water, and oxygen. Therefore, this process does not require any containers or trays to hold water. It is an effective and efficient way to grow plants as it requires less water and minimal space compared to traditional farming techniques.

Aeroponics, a growth mechanism of vertical farming in which mist, mixed with vital nutrients, water, and oxygen is directed to the open roots of plants for their growth. This growth mechanism involves a closed-loop system that uses approximately 95% less water than field farming. This technique does not use pesticides, in addition to zero harmful waste production in the environment. The controlled environment of aeroponics has the capability to produce approximately 70% more yield than traditional agriculture.

The demand for aeroponics is expected to increase rapidly during the forecast period, owing to various factors such as rise in popularity of organic foods, limited arable land for agriculture, growing popularity of disease less environment in agriculture, and decrease in arable land. However, high initial investments and involvement of nascent

technology hamper the market growth. Nonetheless, rise in urban population and surge in adoption of technology driven agriculture are expected to provide lucrative growth opportunities to the aeroponics market players.

The aeroponics market is analyzed across various segments including application, component, and region. On the basis of component, it is categorized into irrigation component, lighting, sensor, climate control, building material, and others. Depending on application, it bifurcated into indoor farming and outdoor farming. The regional segmentation of the market includes North America, Europe, Asia-Pacific, and LAMEA.

The key players operating in the market include AeroFarms, Aeroponics (AERO Development Corp), BrightFarms Inc, Evergreen Farm Oy, LettUs Grow, CombaGroup SA, Altius Farms, Ponics Technologies, Living Greens Farm, and Freight Farms.

KEY MARKET SEGMENTS

By Application

Indoor Farming

Outdoor Farming

By Component

Irrigation Component

Lighting

Sensor

Climate Control

Building Material

Others

By Region

North America

U.S.

Mexico

Canada

Europe

Germany

France

Uk

Netherlands

Rest of Europe

Asia-Pacific

Japan

China

India

Australia

Singapore

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

KEY PLAYERS

AeroFarms,

Aeroponics (AERO Development Corp)

BrightFarms Inc

Evergreen Farm Oy

LettUs Grow

CombaGroup SA

Altius Farms

Ponics Technologies

Living Greens Farm

Freight Farms

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Benefits For Stakeholders
- 1.3. Key Market Segments
- 1.4. Research Methodology
 - 1.4.1. Primary Research
 - 1.4.2. Secondary Research
 - 1.4.3. Analyst Tools And Models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. Cxo Perspective

CHAPTER 3: MARKET OVERVIEW

- 3.1. Market Definition And Scope
- 3.2. Key Findings
 - 3.2.1. Top Impacting Factors
 - 3.2.2. Top Investment Pockets
- 3.3. Porter'S Five Forces Analysis
- 3.4. Patent Analysis
 - 3.4.1. By Region (2018–2026)
- 3.5. Market Dynamics
 - 3.5.1. Drivers
 - 3.5.1.1. Increase In Popularity of Organic Food
 - 3.5.1.2. Limited Arable Land For Traditional Agriculture
 - 3.5.1.3. Popularity of Disease-Free Environment For Agriculture
 - 3.5.2. Restraints
 - 3.5.2.1. High Initial Investments
 - 3.5.3. Opportunities
 - 3.5.3.1. Increase In Urban Population
 - 3.5.3.2. Technological Advancements Replacing Traditional Farming Techniques

CHAPTER 4: GLOBAL AEROPONICS MARKET, BY APPLICATION

- 4.1. Overview

4.2. Indoor Farming

4.2.1. Key Market Trends, Growth Factors, And Opportunities

4.2.2. Market Size And Forecast, By Region

4.2.3. Market Analysis, By Country

4.3. Outdoor Farming

4.3.1. Key Market Trends, Growth Factors, And Opportunities

4.3.2. Market Size And Forecast, By Region

4.3.3. Market Analysis, By Country

CHAPTER 5: GLOBAL AEROPONICS MARKET, BY COMPONENT

5.1. Overview

5.2. Irrigation Components

5.2.1. Key Market Trends, Growth Factors, And Opportunities

5.2.2. Market Size And Forecast, By Region

5.2.3. Market Analysis, By Country

5.3. Lighting

5.3.1. Key Market Trends, Growth Factors, And Opportunities

5.3.2. Market Size And Forecast, By Region

5.3.3. Market Analysis, By Country

5.4. Sensor

5.4.1. Key Market Trends, Growth Factors, And Opportunities

5.4.2. Market Size And Forecast, By Region

5.4.3. Market Analysis, By Country

5.5. Climate Control

5.5.1. Key Market Trends, Growth Factors, And Opportunities

5.5.2. Market Size And Forecast, By Region

5.5.3. Market Analysis, By Country

5.6. Building Materials

5.6.1. Key Market Trends, Growth Factors, And Opportunities

5.6.2. Market Size And Forecast, By Region

5.6.3. Market Analysis, By Country

5.7. Others

5.7.1. Key Market Trends, Growth Factors, And Opportunities

5.7.2. Market Size And Forecast, By Region

5.7.3. Market Analysis, By Country

CHAPTER 6: GLOBAL AEROPONICS MARKET, BY REGION

6.1. Overview

6.2. North America

6.2.1. Key Market Trends, Growth Factors, And Opportunities

6.2.2. Market Size And Forecast, By Application

6.2.3. Market Size And Forecast, By Component

6.2.4. Market Analysis, By Country

6.2.4.1. U.S.

6.2.4.1.1. Market Size And Forecast, By Application

6.2.4.1.2. Market Size And Forecast, By Component

6.2.4.2. Canada

6.2.4.2.1. Market Size And Forecast, By Application

6.2.4.2.2. Market Size And Forecast, By Component

6.2.4.3. Mexico

6.2.4.3.1. Market Size And Forecast, By Application

6.2.4.3.2. Market Size And Forecast, By Component

6.3. Europe

6.3.1. Key Market Trends, Growth Factors, And Opportunities

6.3.2. Market Size And Forecast, By Application

6.3.3. Market Size And Forecast, By Component

6.3.4. Market Analysis, By Country

6.3.4.1. Germany

6.3.4.1.1. Market Size And Forecast, By Application

6.3.4.1.2. Market Size And Forecast, By Component

6.3.4.2. France

6.3.4.2.1. Market Size And Forecast, By Application

6.3.4.2.2. Market Size And Forecast, By Component

6.3.4.3. Uk

6.3.4.3.1. Market Size And Forecast, By Application

6.3.4.3.2. Market Size And Forecast, By Component

6.3.4.4. Netherlands

6.3.4.4.1. Market Size And Forecast, By Application

6.3.4.4.2. Market Size And Forecast, By Component

6.3.4.5. Rest of Europe

6.3.4.5.1. Market Size And Forecast, By Application

6.3.4.5.2. Market Size And Forecast, By Component

6.4. Asia-Pacific

6.4.1. Key Market Trends, Growth Factors, And Opportunities

6.4.2. Market Size And Forecast, By Application

6.4.3. Market Size And Forecast, By Component

6.4.4. Market Analysis, By Country

6.4.4.1. China

6.4.4.1.1. Market Size And Forecast, By Application

6.4.4.1.2. Market Size And Forecast, By Component

6.4.4.2. India

6.4.4.2.1. Market Size And Forecast, By Application

6.4.4.2.2. Market Size And Forecast, By Component

6.4.4.3. Japan

6.4.4.3.1. Market Size And Forecast, By Application

6.4.4.3.2. Market Size And Forecast, By Component

6.4.4.4. Australia

6.4.4.4.1. Market Size And Forecast, By Application

6.4.4.4.2. Market Size And Forecast, By Component

6.4.4.5. Singapore

6.4.4.5.1. Market Size And Forecast, By Application

6.4.4.5.2. Market Size And Forecast, By Component

6.4.4.6. Rest of Asia-Pacific

6.4.4.6.1. Market Size And Forecast, By Application

6.4.4.6.2. Market Size And Forecast, By Component

6.5. Lamea

6.5.1. Key Market Trends, Growth Factors, And Opportunities

6.5.2. Market Size And Forecast, By Application

6.5.3. Market Size And Forecast, By Component

6.5.4. Market Analysis, By Country

6.5.4.1. Brazil

6.5.4.1.1. Market Size And Forecast, By Application

6.5.4.1.2. Market Size And Forecast, By Component

6.5.4.2. Saudi Arabia

6.5.4.2.1. Market Size And Forecast, By Application

6.5.4.2.2. Market Size And Forecast, By Component

6.5.4.3. South Africa

6.5.4.3.1. Market Size And Forecast, By Application

6.5.4.3.2. Market Size And Forecast, By Component

6.5.4.4. Rest of Lamea

6.5.4.4.1. Market Size And Forecast, By Application

6.5.4.4.2. Market Size And Forecast, By Component

CHAPTER 7: COMPETITIVE LANDSCAPE

- 7.1. Introduction
- 7.2. Top Winning Strategies
- 7.3. Key Developments
 - 7.3.1. New Product Launches
 - 7.3.2. Other Developments

CHAPTER 8: COMPANY PROFILE

- 8.1. Aerofarms
 - 8.1.1. Company Overview
 - 8.1.2. Company Snapshot
 - 8.1.3. Product Portfolio
 - 8.1.4. Farms
 - 8.1.5. Key Strategic Moves And Developments
- 8.2. Aeroponics (Aero Development Corp)
 - 8.2.1. Company Overview
 - 8.2.2. Company Snapshot
 - 8.2.3. Product Portfolio
- 8.3. Brightfarms Inc.
 - 8.3.1. Company Overview
 - 8.3.2. Company Snapshot
 - 8.3.3. Product Portfolio
 - 8.3.4. Key Strategic Moves And Developments
- 8.4. Evergreen Farm Oy.
 - 8.4.1. Company Overview
 - 8.4.2. Company Snapshot
 - 8.4.3. Product Portfolio
- 8.5. Lettus Grow
 - 8.5.1. Company Overview
 - 8.5.2. Company Snapshot
 - 8.5.3. Product Portfolio
- 8.6. Combagroup Sa
 - 8.6.1. Company Overview
 - 8.6.2. Company Snapshot
 - 8.6.3. Product Portfolio
- 8.7. Altius Farms
 - 8.7.1. Company Overview
 - 8.7.2. Company Snapshot
 - 8.7.3. Product Portfolio

8.8. Ponics Technologies

8.8.1. Company Overview

8.8.2. Company Snapshot

8.8.3. Product Portfolio

8.9. Living Greens Farm

8.9.1. Company Overview

8.9.2. Company Snapshot

8.9.3. Product Portfolio

8.9.4. Key Strategic Moves And Developments

8.10. Freight Farms

8.10.1. Company Overview

8.10.2. Company Snapshot

8.10.3. Product Portfolio

8.10.4. Key Strategic Moves And Developments

List Of Tables

LIST OF TABLES

- Table 01. Global Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 02. Indoor Farming Market, By Region 2018–2026 (\$Million)
- Table 03. Outdoor Farming Aeroponics Market, By Region 2018–2026 (\$Million)
- Table 04. Global Aeroponics Market, By Component, 2018–2026(\$Million)
- Table 05. Aeroponics Market Revenue For Irrigation Components, By Region 2018–2026 (\$Million)
- Table 06. Aeroponics Market Revenue For Lighting, By Region 2018–2026 (\$Million)
- Table 07. Aeroponics Market Revenue For Sensor, By Region 2018–2026 (\$Million)
- Table 08. Aeroponics Market Revenue For Climate Control, By Region 2018–2026 (\$Million)
- Table 09. Aeroponics Market Revenue For Building Materials, By Region 2018–2026 (\$Million)
- Table 10. Aeroponics Market Revenue For Others, By Region 2018–2026 (\$Million)
- Table 11. Aeroponics Marketrevenue, By Region 2018–2026 (\$Million)
- Table 12. North America Aerponics Market, By Application, 2018–2026 (\$Million)
- Table 13. North America Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 14. U.S. Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 15. U.S. Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 16. Canada Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 17. Canada Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 18. Mexico Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 19. Mexico Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 20. Europe Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 21. Europe Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 22. Germany Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 23. Germany Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 24. France Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 25. France Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 26. Uk Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 27. Uk Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 28. Netherlands Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 29. Netherlands Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 30. Rest of Europe Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 31. Rest of Europe Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 32. Asia-Pacific Aeroponics Market, By Application, 2018–2026 (\$Million)

- Table 33. Asia-Pacific Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 34. China Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 35. China Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 36. India Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 37. India Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 38. Japan Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 39. Japan Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 40. Australia Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 41. Australia Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 42. Singapore Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 43. Singapore Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 44. Rest of Asia-Pacific Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 45. Rest of Asia-Pacific Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 46. Lamea Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 47. Lamea Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 48. Brazil Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 49. Brazil Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 50. Saudi Arabia Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 51. Saudi Arabia Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 52. South Africa Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 53. South Africa Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 54. Rest of Lamea Aeroponics Market, By Application, 2018–2026 (\$Million)
- Table 55. Rest of Lamea Aeroponics Market, By Component, 2018–2026 (\$Million)
- Table 56. Key New Product Launches (2016-2019)
- Table 57. Other Key Developments (2016-2019)
- Table 58. Aerofarms: Company Snapshot
- Table 59. Aerofarms: Product Portfolio
- Table 60. Aerofarms: Farms
- Table 61. Aerofarms: Key Strategic Moves And Developments
- Table 62. Aeroponics: Company Snapshot
- Table 63. Aeroponics: Product Portfolio
- Table 64. Brightfarms Inc.: Company Snapshot
- Table 65. Brightfarms Inc.: Product Portfolio
- Table 66. Brightfarms Inc.: Key Strategic Moves And Developments
- Table 67. Evergreen Farm Oy.: Company Snapshot
- Table 68. Evergreen Farm Oy.: Product Portfolio
- Table 69. Lettus Grow: Company Snapshot
- Table 70. Lettus Grow: Product Portfolio
- Table 71. Combagroup Sa: Company Snapshot

- Table 72. Combagroup Sa: Product Portfolio
- Table 73. Altius Farms: Company Snapshot
- Table 74. Altius Farms: Product Portfolio
- Table 75. Ponics Technologies: Company Snapshot
- Table 76. Ponics Technologies: Product Portfolio
- Table 77. Living Greens Farm: Company Snapshot
- Table 78. Living Greens Farm: Product Portfolio
- Table 79. Living Greens Farm: Key Strategic Moves And Developments
- Table 80. Freight Farms: Company Snapshot
- Table 81. Freight Farms: Product Portfolio
- Table 82. Freight Farms: Key Strategic Moves And Developments

List Of Figures

LIST OF FIGURES

- Figure 01. Key Market Segments
- Figure 02. Executive Summary, By Segmentation
- Figure 03. Executive Summary, By Geography
- Figure 04. Top Impacting Factors
- Figure 05. Top Investment Pockets
- Figure 06. High Bargaining Power of Suppliers
- Figure 07. Moderate-To-High Threat of New Entrants
- Figure 08. Moderate Threat of Substitutes
- Figure 09. Low-To-Moderate Intensity of Rivalry
- Figure 10. Moderate Bargaining Power of Buyers
- Figure 11. Patent Analysis, By Country
- Figure 12. Global Aeroponics Market Share, By Application, 2018–2026 (%)
- Figure 13. Comparative Share Analysis Indoor Aeroponics Farming Market, By Country, 2018 & 2026 (%)
- Figure 14. Comparative Share Analysis Outdoor Farming Aeroponics Market, By Country, 2018 & 2026 (%)
- Figure 15. Global Aeroponics Market Share, By Component, 2018–2026 (%)
- Figure 16. Comparative Share Analysis of Aeroponics Market For Irrigation Components, By Country, 2018 & 2026 (%)
- Figure 17. Comparative Share Analysis of Aeroponics Market For Lighting, By Country, 2018 & 2026 (%)
- Figure 18. Comparative Share Analysis of Aeroponics Market For Sensor, By Country, 2018 & 2026 (%)
- Figure 19. Comparative Share Analysis of Aeroponics Market For Climate Control, By Country, 2018 & 2026 (%)
- Figure 20. Comparative Share Analysis of Aeroponics Market For Building Materials, By Country, 2018 & 2026 (%)
- Figure 21. Comparative Share Analysis of Aeroponics Market For Others, By Country, 2018 & 2026 (%)
- Figure 22. Global Aeroponics Market, By Region, 2018–2026 (%)
- Figure 23. Comparative Share Analysis of North America Aeroponics Market, By Country, 2018–2026 (%)
- Figure 24. U.S. Aeroponics Market, 2018–2026 (\$Million)
- Figure 25. Canada Aeroponics Market, 2018–2026 (\$Million)
- Figure 26. Mexico Aeroponics Market, 2018–2026 (\$Million)

Figure 27. Comparative Share Analysis of Europe Aeroponics Market, By Country, 2018–2026 (%)

Figure 28. Germany Aeroponics Market, 2018–2026 (\$Million)

Figure 29. France Aeroponics Market, 2018–2026 (\$Million)

Figure 30. Uk Aeroponics Market, 2018–2026 (\$Million)

Figure 31. Netherlands Aeroponics Market, 2018–2026 (\$Million)

Figure 32. Rest of Europe Aeroponics Market, 2018–2026 (\$Million)

Figure 33. Comparative Share Analysis of Asia-Pacific Aeroponics Market, By Country, 2018–2026 (%)

Figure 34. China Aeroponics Market, 2018–2026 (\$Million)

Figure 35. India Aeroponics Market, 2018–2026 (\$Million)

Figure 36. Japan Aeroponics Market, 2018–2026 (\$Million)

Figure 37. Australia Aeroponics Market, 2018–2026 (\$Million)

Figure 38. Singapore Aeroponics Market, 2018–2026 (\$Million)

Figure 39. Rest of Asia-Pacific Aeroponics Market, 2018–2026 (\$Million)

Figure 40. Comparative Share Analysis of Lamea Aeroponics Market, By Country, 2018–2026 (%)

Figure 41. Brazil Aeroponics Market, 2018–2026 (\$Million)

Figure 42. Saudi Aeroponics Market, 2018–2026 (\$Million)

Figure 43. South Africa Aeroponics Market, 2018–2026 (\$Million)

Figure 44. Rest of Lamea Aeroponics Market, 2018–2026 (\$Million)

Figure 45. Market Player Positioning (2018)

Figure 46. Top Winning Strategies, By Year, 2016-2019*

Figure 47. Top Winning Strategies, By Development, 2016-2019*

Figure 48. Top Winning Strategies, By Company, 2016-2019*

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