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Hydroponics Market Research Report - Forecast till 2030

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Description:

Global Hydroponics Market Overview

Hydroponics Market Size was valued at USD 2.5 billion in 2022. The Hydroponics market industry is projected to grow from USD 3.007 Billion in 2023 to USD 9.11 billion by 2030, exhibiting a compound annual growth rate (CAGR) of 20.3% during the forecast period (2023 - 2030). In the Hydroponics Market landscape, the agriculture sector is under increasing strain to satisfy the rising demand for food and grains, resulting in a diversified quest for high-yielding farming methods, including precision and urban farming. Hence, hydroponics is a potential remedy for concerns related to rising concern over food security in the next years, thus driving the growth of the hydroponics market. These are just a few of the market drivers that are driving the market.

Hydroponics Market Overview

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Hydroponics Market Trends

- The development of a constant degree of innovation is driving the market growth

The demand for food is expanding as a result of population growth. The Food and Agricultural Organization (FAO) of the United Nations (UN) estimates that by 2050, there will be up to 9.1 billion people on the planet, for whom food production will rise by 25% to 70%. This is expected to increase demand for alternative farming methods that produce large yields in a short amount of time. The use of alternative high-yield agricultural methods is expanding in areas like Asia and Europe, where there is a shortage of arable land and water, which is likely to spur market expansion. Thus, this factor is driving the market CAGR.

In the foreseeable future, improvements in sensing technologies, nutrient film techniques, and climate control, among other areas, are predicted to favor market expansion. Providers of hydroponic farming solutions give customers a variety of sensors, web platforms, software, and mobile applications to monitor and control their crops. For instance, SmartBee Technologies, Inc. provides agriculturalists real-time control through software, irrigation controls, water, fertilizer, and environmental sensors. The sophisticated use of IoT makes automatic and remote data collecting and monitoring possible. Because of these technological developments in hydroponics products, the industry is anticipated to expand quickly. Thus, it is anticipated that this aspect will accelerate hydroponics market revenue globally.

Hydroponics Market Segment Insights

Hydroponics Type Insights

The Hydroponics market segmentation, based on type includes, aggregate system, and liquid hydroponics. The aggregate systems segment held the majority share in 2022 in the hydroponics market data. This is due to its universal acceptance among all indoor hydroponic producers and the low cost and ease of setup. Inert and solid media, such as peat, rock wool, vermiculite, sand, sawdust, perlite, or coconut coir, support these systems' plants. Drip, ebb, flow, and wick systems are some of the main technologies used in aggregation systems. The ebb and flow aggregate system is the most popular and recommended due to its simplicity and inexpensive construction costs.

Hydroponics Input Insights

The Hydroponics market segmentation, based on input, includes growth media, nutrients, and others. The nutrients segment dominated the market growth in 2022 and is projected to be the

faster-growing segment during the forecast period, 2022-2030. This segment's substantial market share is explained by the requirement to grow crops in both aggregate and non-aggregate systems. Plants' three main nutrients to grow are nitrogen, phosphorus, and potassium. Lack of these nutrients causes the plants to become discolored, grow slowly, and have sporadic blotches. It is projected that these elements will propel the segment, hence contributing in the growth of the hydroponics market

Figure 2: Hydroponics Market, by Input, 2022 & 2030 (USD Billion)

Hydroponics Market, by Input, 2022 & 2030

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Hydroponics Equipment Insights

The Hydroponics market segmentation, based on equipment includes, HVAC, irrigation systems, led growing lights, and others. The bakery and confectionery segment held the majority share in 2022 in the hydroponics market data. The HVAC system, which is responsible for cooling, dehumidifying, and maintaining the ideal temperature inside the facility, is crucial to developing indoor growers.

The indoor farming industry is expanding, and grow lights are increasingly used in indoor farming. These factors are largely responsible for the segment's rapid expansion since growing lights emit the critical light that plants need for photosynthesis. Using spectrum-chargeable LED grow lights, gardeners may also experiment with the light recipes to alter the flavor, size, and other characteristics. Also, the European Union's September 2018 ban on older, inefficient halogen units is causing an increase in the adoption of LED to grow lights during the forecast period.

Hydroponics Crop Type Insights

The Hydroponics market segmentation, based on crop type, includes vegetables, fruits, flowers, others. The vegetables segment dominated the market growth in 2022 and is projected to be the faster-growing segment during the forecast period, 2022-2030. Hydroponically grown leafy greens, including spinach, arugula, kale, and lettuce, are becoming increasingly popular. Due to its relatively high raw consumption, green and red leaf lettuce is the most hydroponically cultivated vegetable among indoor growers. Due to the increased demand for lettuce from consumers and fast-food chains on the continent, hydroponically grown lettuce is becoming more popular in North America. It is projected that these elements will propel the segment, hence contributing in the growth of the hydroponics market

Hydroponics Regional Insights

By region, the study provides the market insights into North America, Europe, Asia-Pacific and Rest of the World. European Hydroponics market accounted for USD 1.145 billion in 2022 with a share of around 45.80% and is expected to exhibit a significant CAGR growth during the study period. It can be attributed to the widespread use of hydroponics caused by increasing industrialization and a lack of available land. The developed economies of France, Germany, Greece, Italy, Spain, and the Netherlands are all in Europe. The region is also predicted to see a significant CAGR during the projection period due to the rapid growth of genetically modified agricultural technologies. New product development, partnerships, partnerships, expansions, mergers, and acquisitions are the main strategies used by the organisations in the market.

Further, the major countries studied in the market report are: The U.S, Canada, Germany, France, UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 3: HYDROPONICS MARKET SHARE BY REGION 2022 (%)

HYDROPONICS MARKET SHARE BY REGION 2022

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Asia Pacific Hydroponics Market is expected to grow at the fastest CAGR from 2022 to 2030. The widespread use of hydroponics in nations like China, Australia, South Korea, and others can explain this. Due to the emergence of urban hydroponic farms, it is anticipated that the market in China and India will grow significantly during the projection period. Due to the many businesses present there, North America has a significant potential for growth. Further, the China Hydroponics market held the largest market share, and the India Hydroponics market was the fastest-growing market in the region.

North America Hydroponics Market accounts for the second-largest market share. Additionally, commercial vegetable growers are increasingly using hydroponic production since it is a productive way to manage inputs, facilitate the spread of disease and pests, and manage greater production areas without requiring much work. Farmers in the area should adopt hydroponics as a popular growth method since it reduces the need for soil fumigants and can enhance the yields of popular foods. Further, the U.S. Hydroponics market held the largest market share, and the Canada Hydroponics market was the fastest-growing market in the region.

Hydroponics Key Market Players & Competitive Insights

Major market players are spending a lot of money on R&D to increase their product lines, which will help the Hydroponics market grow even more. Market participants are also taking a range of strategic initiatives to grow their worldwide footprint, with key market developments such as new product launches, mergers and acquisitions, contractual agreements, increased investments, and collaboration with other organizations. Competitors in the hydroponics industry must offer cost-

effective items to expand and survive in an increasingly competitive and rising market environment.

One of the primary business strategies adopted by manufacturers in the hydroponics industry to benefit clients and expand the market sector is to manufacture locally to reduce operating costs. In recent years, hydroponics industry has provided medicine with some of the most significant benefits. The Hydroponics market major player such Signify Holdings, American Hydroponics, Argus Control Systems, Grobo, Heliospectra AB, Logiqs B.V.

A proprietary aeroponic growing technique is used by AeroFarms, a sustainable indoor agricultural business headquartered in Newark, New Jersey, to grow food. The corporation owns and runs four farming operations in and around Newark. AeroFarms announced in April 2021 that the building has begun on its second 136,000-square-foot commercial indoor vertical farm in Danville-Pittsylvania County, Virginia.

In 1938, Philips Lighting Holding B.V. was established. The management of funds, trusts, and foundations established for purposes other than philanthropic, educational, or nonprofit research is one of the company's lines of business. The Netherlands-based corporation Signify Holding allocated 4.8% of its revenue to R&D in 2020. This investment is anticipated to aid the business in improving its product line.

Key Companies in the Hydroponics market includes.

- Signify Holdings
- American Hydroponics
- Argus Control Systems
- Grobo
- Heliospectra AB
- Logiqs B.V
- Scotts Miracle Gro
- Hydrodynamics International
- American Hydroponics
- LumiGrow

Hydroponics Industry Developments

July 2022: The largest hydroponic farm in the world, supported by a USD 40 million investment, has officially opened its doors in Bustanica. The facility is the one of the first vertical farm for Emirates Crop One, a partnership between Crop One, a pioneer in technology-driven indoor vertical farming, and Emirates Flight Catering (EKFC), one of the largest catering companies in the world, serving more than 100 airlines.

February 2022: To establish a long-term research and development partnership encompassing knowledge and technology transfer of modern farming methods to local farmers, AeroFarms and Silal, Abu Dhabi's top fresh produce and agri-tech company, have signed a Memorandum of Understanding (MoU).

Hydroponics Market Segmentation

Hydroponics Type Outlook (USD Billion, 2018-2030)

- Aggregate System
- Liquid Hydroponics

Hydroponics Input Outlook (USD Billion, 2018-2030)

- Growth Media
- Nutrients
- Other

Hydroponics Equipment Outlook (USD Billion, 2018-2030)

- HVAC
- Irrigation System

- LED Growing Lights
- Others

Hydroponics Regional Outlook (USD Billion, 2018-2030)

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 - South Korea
 - Australia
 - Rest of Asia-Pacific
- Rest of the World
 - Middle East
 - Africa
 - Latin America

Table of Content:

| | |
|--|--|
| Contents | |
| Table of Contents | |
| 1. 1 EXECUTIVE SUMMARY | |
| 1.1. Market Attractiveness Analysis | |
| 1.1.1. Global Hydroponics Market, by Type | |
| 1.1.2. Global Hydroponics Market, by Input | |
| 1.1.3. Global Hydroponics Market, by Equipment | |
| 1.1.4. Global Hydroponics Market, by Crop Type | |
| 1.1.5. Global Hydroponics Market, by Region | |
| 2. MARKET INTRODUCTION | |
| 2.1. Definition | |
| 2.2. Scope of the Study | |
| 2.3. Market Structure | |
| 2.4. Key Buying Criteria | |
| 2.5. Macro Factor Indicator Analysis | |
| 3. RESEARCH METHODOLOGY | |
| 3.1. Research Process | |
| 3.2. Primary Research | |
| 3.3. Secondary Research | |
| 3.4. Market Size Estimation | |
| 3.5. Forecast Model | |
| 3.6. List of Assumptions | |
| 4. MARKET DYNAMICS | |
| 4.1. Introduction | |
| 4.2. Drivers | |

- 4.2.1. Driver 1
- 4.2.2. Driver 2
- 4.3. Restraints
 - 4.3.1. Restraint 1
 - 4.3.2. Restraint 2
- 4.4. Opportunities
 - 4.4.1. Opportunity 1
 - 4.4.2. Opportunity 2
- 4.5. Challenges
 - 4.5.1. Challenge 1
 - 4.5.2. Challenge 2
- 5. MARKET FACTOR ANALYSIS
 - 5.1. Value Chain Analysis
 - 5.2. Supply Chain Analysis
 - 5.3. Porter's Five Forces Model
 - 5.3.1. Bargaining Power of Suppliers
 - 5.3.2. Bargaining Power of Buyers
 - 5.3.3. Threat of New Entrants
 - 5.3.4. Threat of Substitutes
 - 5.3.5. Intensity of Rivalry
- 6. GLOBAL HYDROPONICS MARKET, BY TYPE
 - 6.1. Introduction
 - 6.2. Aggregate System
 - 6.2.1. Aggregate System: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 6.2.2. Water Culture System
 - 6.2.2.1. Water Culture System: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 6.2.3. EBB and Flow System
 - 6.2.3.1. EBB and Flow System: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 6.2.4. Drip System
 - 6.2.4.1. Drip System: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 6.2.5. Others
 - 6.2.5.1. Others: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 6.3. Liquid Hydroponics
 - 6.3.1. Liquid Hydroponics: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 6.3.2. Nutrient Film Technique
 - 6.3.2.1. Nutrient Film Technique: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 6.3.3. Aeroponics
 - 6.3.3.1. Aeroponics: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 6.3.4. Others
 - 6.3.4.1. Others: Market Estimates & Forecast, by Region/Country, 2022-2030
- 7. GLOBAL HYDROPONICS MARKET, BY INPUT
 - 7.1. Introduction
 - 7.2. Growth Media
 - 7.2.1. Growth Media: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 7.2.2. Growth Media
 - 7.2.2.1. Growth Media: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 7.2.3. Clay
 - 7.2.3.1. Clay: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 7.2.4. Rockwool
 - 7.2.4.1. Rockwool: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 7.2.5. Coco Coir
 - 7.2.5.1. Coco Coir: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 7.2.6. Others
 - 7.2.6.1. Others: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 7.3. Nutrients
 - 7.3.1. Nutrients: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 7.4. Others
 - 7.4.1. Others: Market Estimates & Forecast, by Region/Country, 2022-2030
- 8. GLOBAL HYDROPONICS MARKET, BY EQUIPMENT
 - 8.1. Introduction
 - 8.2. HVAC
 - 8.2.1. HVAC: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 8.3. Irrigation System
 - 8.3.1. Irrigation System: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 8.4. LED Growing Lights
 - 8.4.1. LED Growing Lights: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 8.5. Others
 - 8.5.1. Others: Market Estimates & Forecast, by Region/Country, 2022-2030
- 9. GLOBAL HYDROPONICS MARKET, BY CROP TYPE
 - 9.1. Introduction
 - 9.2. Vegetables
 - 9.2.1. Vegetables: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 9.2.2. Leafy
 - 9.2.2.1. Leafy: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 9.2.3. Cucumber
 - 9.2.3.1. Cucumber: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 9.2.4. Tomato
 - 9.2.4.1. Tomato: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 9.2.5. Others
 - 9.2.5.1. Others: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 9.3. Fruits
 - 9.3.1. Fruits: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 9.4. Flowers
 - 9.4.1. Flowers: Market Estimates & Forecast, by Region/Country, 2022-2030
 - 9.5. Others
 - 9.5.1. Others: Market Estimates & Forecast, by Region/Country, 2022-2030
- 10. GLOBAL HYDROPONICS MARKET, BY REGION
 - 10.1. Introduction
 - 10.2. North America
 - 10.2.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.2.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.2.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.2.4. Market Estimates & Forecast, by Crop Type, 2022-2030

- 10.2.5. Market Estimates & Forecast, by Country, 2022-2030
- 10.2.6. US
 - 10.2.6.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.2.6.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.2.6.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.2.6.4. Market Estimates & Forecast, by Crop Type, 2022-2030
- 10.2.7. Canada
 - 10.2.7.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.2.7.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.2.7.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.2.7.4. Market Estimates & Forecast, by Crop Type, 2022-2030
- 10.2.8. Mexico
 - 10.2.8.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.2.8.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.2.8.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.2.8.4. Market Estimates & Forecast, by Crop Type, 2022-2030
- 10.3. Europe
 - 10.3.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.3.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.3.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.3.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.3.5. Market Estimates & Forecast, by Country, 2022-2030
 - 10.3.6. Germany
 - 10.3.6.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.3.6.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.3.6.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.3.6.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.3.7. UK
 - 10.3.7.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.3.7.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.3.7.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.3.7.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.3.8. France
 - 10.3.8.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.3.8.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.3.8.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.3.8.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.3.9. Spain
 - 10.3.9.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.3.9.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.3.9.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.3.9.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.3.10. Italy
 - 10.3.10.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.3.10.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.3.10.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.3.10.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.3.11. Rest of Europe
 - 10.3.11.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.3.11.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.3.11.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.3.11.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.4. Asia-Pacific
 - 10.4.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.4.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.4.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.4.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.4.5. Market Estimates & Forecast, by Country, 2022-2030
 - 10.4.6. China
 - 10.4.6.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.4.6.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.4.6.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.4.6.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.4.7. Japan
 - 10.4.7.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.4.7.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.4.7.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.4.7.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.4.8. India
 - 10.4.8.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.4.8.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.4.8.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.4.8.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.4.9. Australia & New Zealand
 - 10.4.9.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.4.9.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.4.9.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.4.9.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.4.10. Rest of Asia-Pacific
 - 10.4.10.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.4.10.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.4.10.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.4.10.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.5. Rest of the World
 - 10.5.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.5.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.5.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.5.4. Market Estimates & Forecast, by Crop Type, 2022-2030
 - 10.5.5. Market Estimates & Forecast, by Region, 2022-2030
 - 10.5.6. South America
 - 10.5.6.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.5.6.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.5.6.3. Market Estimates & Forecast, by Equipment, 2022-2030

- 10.5.6.4. Market Estimates & Forecast, by Crop Type, 2022-2030
- 10.5.7. Middle East
 - 10.5.7.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.5.7.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.5.7.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.5.7.4. Market Estimates & Forecast, by Crop Type, 2022-2030
- 10.5.8. Africa
 - 10.5.8.1. Market Estimates & Forecast, by Type, 2022-2030
 - 10.5.8.2. Market Estimates & Forecast, by Input, 2022-2030
 - 10.5.8.3. Market Estimates & Forecast, by Equipment, 2022-2030
 - 10.5.8.4. Market Estimates & Forecast, by Crop Type, 2022-2030
- 11. COMPETITIVE LANDSCAPE
 - 11.1. Introduction
 - 11.2. Competitive Benchmarking
 - 11.3. Development Share Analysis
 - 11.4. Key Developments & Growth Strategies
- 12. COMPANY PROFILES
 - 12.1. Heliospectra AB
 - 12.1.1. Company Overview
 - 12.1.2. Financial Overview
 - 12.1.3. Products Offered
 - 12.1.4. Key Developments
 - 12.1.5. SWOT Analysis
 - 12.1.6. Key Strategies
 - 12.2. Scotts Miracle Gro
 - 12.2.1. Company Overview
 - 12.2.2. Financial Overview
 - 12.2.3. Products Offered
 - 12.2.4. Key Developments
 - 12.2.5. SWOT Analysis
 - 12.2.6. Key Strategies
 - 12.3. Village Farms
 - 12.3.1. Company Overview
 - 12.3.2. Financial Overview
 - 12.3.3. Products Offered
 - 12.3.4. Key Developments
 - 12.3.5. SWOT Analysis
 - 12.3.6. Key Strategies
 - 12.4. Argus Control Systems
 - 12.4.1. Company Overview
 - 12.4.2. Financial Overview
 - 12.4.3. Products Offered
 - 12.4.4. Key Developments
 - 12.4.5. SWOT Analysis
 - 12.4.6. Key Strategies
 - 12.5. Iron Ox
 - 12.5.1. Company Overview
 - 12.5.2. Financial Overview
 - 12.5.3. Products Offered
 - 12.5.4. Key Developments
 - 12.5.5. SWOT Analysis
 - 12.5.6. Key Strategies
 - 12.6. American Hydroponics
 - 12.6.1. Company Overview
 - 12.6.2. Financial Overview
 - 12.6.3. Products Offered
 - 12.6.4. Key Developments
 - 12.6.5. SWOT Analysis
 - 12.6.6. Key Strategies
 - 12.7. Terra Tech Corp
 - 12.7.1. Company Overview
 - 12.7.2. Financial Overview
 - 12.7.3. Products Offered
 - 12.7.4. Key Developments
 - 12.7.5. SWOT Analysis
 - 12.7.6. Key Strategies
 - 12.8. Hydroponic Farms
 - 12.8.1. Company Overview
 - 12.8.2. Financial Overview
 - 12.8.3. Products Offered
 - 12.8.4. Key Developments
 - 12.8.5. SWOT Analysis
 - 12.8.6. Key Strategies
 - 12.9. LumiGrow
 - 12.9.1. Company Overview
 - 12.9.2. Financial Overview
 - 12.9.3. Products Offered
 - 12.9.4. Key Developments
 - 12.9.5. SWOT Analysis
 - 12.9.6. Key Strategies
 - 12.10. Aerofarms
 - 12.10.1. Company Overview
 - 12.10.2. Financial Overview
 - 12.10.3. Products Offered
 - 12.10.4. Key Developments
 - 12.10.5. SWOT Analysis
 - 12.10.6. Key Strategies
 - 12.11. Signify Holdings
 - 12.11.1. Company Overview
 - 12.11.2. Financial Overview
 - 12.11.3. Products Offered
 - 12.11.4. Key Developments
 - 12.11.5. SWOT Analysis

| |
|------------------------------------|
| 12.11.6. Key Strategies |
| 12.12. Triton Foodworks Ltd. |
| 12.12.1. Company Overview |
| 12.12.2. Financial Overview |
| 12.12.3. Products Offered |
| 12.12.4. Key Developments |
| 12.12.5. SWOT Analysis |
| 12.12.6. Key Strategies |
| 12.13. Urban cultivator |
| 12.13.1. Company Overview |
| 12.13.2. Financial Overview |
| 12.13.3. Products Offered |
| 12.13.4. Key Developments |
| 12.13.5. SWOT Analysis |
| 12.13.6. Key Strategies |
| 12.14. Green Sense Holdings |
| 12.14.1. Company Overview |
| 12.14.2. Financial Overview |
| 12.14.3. Products Offered |
| 12.14.4. Key Developments |
| 12.14.5. SWOT Analysis |
| 12.14.6. Key Strategies |
| 13. APPENDIX |
| 13.1. General Sources & References |
| 13.2. List of Abbreviation |

LIST OF TABLES

| |
|--|
| Table 1 Global Hydroponics Market, by Region, 2022-2030 (USD Million) |
| Table 2 Global Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 3 Global Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 4 Global Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 5 Global Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 6 North America: Hydroponics Market, by Country, 2022-2030 (USD Million) |
| Table 7 North America: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 8 North America: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 9 North America: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 10 North America: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 11 US: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 12 US: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 13 US: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 14 US: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 15 Canada: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 16 Canada: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 17 Canada: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 18 Canada: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 19 Mexico: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 20 Mexico: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 21 Mexico: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 22 Mexico: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 23 Europe: Hydroponics Market, by Country, 2022-2030 (USD Million) |
| Table 24 Europe: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 25 Europe: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 26 Europe: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 27 Europe: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 28 Germany: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 29 Germany: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 30 Germany: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 31 Germany: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 32 France: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 33 France: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 34 France: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 35 France: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 36 Italy: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 37 Italy: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 38 Italy: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 39 Italy: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 40 Spain: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 41 Spain: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 42 Spain: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 43 Spain: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 44 UK: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 45 UK: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 46 UK: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 47 UK: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 48 Rest of Europe: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 49 Rest of Europe: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 50 Rest of Europe: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 51 Rest of Europe: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 52 Asia-Pacific: Hydroponics Market, by Country, 2022-2030 (USD Million) |
| Table 53 Asia-Pacific: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 54 Asia-Pacific: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 55 Asia-Pacific: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 56 Asia-Pacific: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 57 China: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 58 China: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 59 China: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 60 China: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 61 India: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 62 India: Hydroponics Market, by Input,2022-2030 (USD Million) |
| Table 63 India: Hydroponics Market, by Equipment, 2022-2030 (USD Million) |
| Table 64 India: Hydroponics Market, by Crop Type, 2022-2030 (USD Million) |
| Table 65 Japan: Hydroponics Market, by Type, 2022-2030 (USD Million) |
| Table 66 Japan: Hydroponics Market, by Input,2022-2030 (USD Million) |

Table 67 Japan: Hydroponics Market, by Equipment, 2022-2030 (USD Million)
Table 68 Japan: Hydroponics Market, by Crop Type, 2022-2030 (USD Million)
Table 69 Australia & New Zealand: Hydroponics Market, by Type, 2022-2030 (USD Million)
Table 70 Australia & New Zealand: Hydroponics Market, by Input,2022-2030 (USD Million)
Table 71 Australia & New Zealand: Hydroponics Market, by Equipment, 2022-2030 (USD Million)
Table 72 Australia & New Zealand: Hydroponics Market, by Crop Type, 2022-2030 (USD Million)
Table 73 Rest of Asia-Pacific: Hydroponics Market, by Type, 2022-2030 (USD Million)
Table 74 Rest of Asia-Pacific: Hydroponics Market, by Input,2022-2030 (USD Million)
Table 75 Rest of Asia-Pacific: Hydroponics Market, by Equipment, 2022-2030 (USD Million)
Table 76 Rest of Asia-Pacific: Hydroponics Market, by Crop Type, 2022-2030 (USD Million)
Table 77 Rest of the World (RoW): Hydroponics Market, by Country, 2022-2030 (USD Million)
Table 78 Rest of the World (RoW): Hydroponics Market, by Type, 2022-2030 (USD Million)
Table 79 Rest of the World (RoW): Hydroponics Market, by Input,2022-2030 (USD Million)
Table 80 Rest of the World (RoW): Hydroponics Market, by Equipment, 2022-2030 (USD Million)
Table 81 Rest of the World (RoW): Hydroponics Market, by Crop Type, 2022-2030 (USD Million)
Table 82 South America: Hydroponics Market, by Type, 2022-2030 (USD Million)
Table 83 South America: Hydroponics Market, by Input,2022-2030 (USD Million)
Table 84 South America: Hydroponics Market, by Equipment, 2022-2030 (USD Million)
Table 85 South America: Hydroponics Market, by Crop Type, 2022-2030 (USD Million)
Table 86 Middle East: Hydroponics Market, by Type, 2022-2030 (USD Million)
Table 87 Middle East: Hydroponics Market, by Input,2022-2030 (USD Million)
Table 88 Middle East: Hydroponics Market, by Equipment, 2022-2030 (USD Million)
Table 89 Middle East: Hydroponics Market, by Crop Type, 2022-2030 (USD Million)
Table 90 Africa: Hydroponics Market, by Type, 2022-2030 (USD Million)
Table 91 Africa: Hydroponics Market, by Input,2022-2030 (USD Million)
Table 92 Africa: Hydroponics Market, by Equipment, 2022-2030 (USD Million)
Table 93 Africa: Hydroponics Market, by Crop Type, 2022-2030 (USD Million)

LIST OF FIGURES

FIGURE 1 Global Hydroponics Market Segmentation
FIGURE 2 Forecast Research Methodology
FIGURE 3 Five Forces Analysis of the Global Hydroponics Market
FIGURE 4 Value Chain of the Global Hydroponics Market
FIGURE 5 Share of the Global Hydroponics Market in 2022, by Country (%)
FIGURE 6 Global Hydroponics Market, by Region, 2022-2030,
FIGURE 7 Global Hydroponics Market Size, by Type, 2022
FIGURE 8 Share of the Global Hydroponics Market, by Type, 2022-2030 (%)
FIGURE 9 Global Hydroponics Market Size, by Input, 2022
FIGURE 10 Share of the Global Hydroponics Market, by Input, 2022-2030 (%)
FIGURE 9 Global Hydroponics Market Size, by Equipment, 2022
FIGURE 10 Share of the Global Hydroponics Market, by Equipment, 2022-2030 (%)
FIGURE 9 Global Hydroponics Market Size, by Crop Type, 2022
FIGURE 10 Share of the Global Hydroponics Market, by Crop Type, 2022-2030 (%)