

Israel Hydroponics Market By Type (Aggregate Systems and Liquid Systems), By Equipment (HVAC, LED Grow Light, Control Systems, Irrigation Systems, Others), By Input (Nutrient and Growth Media), By Farming Method (Indoor and Outdoor), By Crop Type (Fruits & Vegetables, Flowers & Turfs, Others), By Region, Competition, Forecast & Opportunities, 2020-2030F

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Abstracts

Israel Hydroponics Market was valued at USD 102.23 Million in 2024 and is expected to reach USD 149.86 Million by 2030 with a CAGR of 6.54% during the forecast period. The Israel hydroponics market is driven by advancements in agricultural technology, water scarcity concerns, and government support for sustainable farming. With limited arable land and a growing population, Israel has turned to hydroponics to maximize crop yields while conserving water. Innovations in controlled-environment agriculture, nutrient-rich solutions, and vertical farming are fueling market growth. Additionally, rising demand for pesticide-free and high-quality produce is encouraging investment in hydroponic systems. The presence of agritech startups and research institutions further accelerates technological developments. Government incentives and policies promoting efficient water use and food security also play a crucial role. As climate change intensifies, hydroponics offers a resilient solution for year-round farming, positioning Israel as a leader in modern agricultural practices.

Key Market Drivers

Water Scarcity and Efficient Utilization

Israel faces severe water scarcity due to its arid climate and limited freshwater resources. With over 60% of its land classified as desert, traditional farming methods that require significant water inputs are not sustainable. Hydroponics, which uses up to 90% less water than soil-based farming, provides an efficient solution. The recirculating systems in hydroponics minimize water wastage, making it an attractive option in a country where water conservation is a priority. The Israeli government has implemented policies and subsidies to support water-efficient agricultural technologies, further propelling the adoption of hydroponics. Additionally, the use of desalinated water and advanced filtration systems ensures that hydroponic farms can operate efficiently even in water-limited environments. As climate change intensifies drought conditions, the need for hydroponic farming will continue to grow, reinforcing its role in Israel's agricultural landscape.

Key Market Challenges

High Initial Investment and Operational Costs

Hydroponic farming requires significant capital investment for setting up infrastructure, including climate-controlled greenhouses, LED lighting, nutrient delivery systems, and automated monitoring technologies. The cost of these advanced systems can be a barrier for small and medium-sized farmers who lack access to sufficient funding. Additionally, ongoing operational costs—such as energy consumption for lighting and climate control—can be high, especially in large-scale hydroponic farms. Although government subsidies and private investments help offset some of these expenses, financial constraints remain a major challenge to widespread adoption. Farmers must carefully balance the cost of technology with expected returns, making it difficult for some to transition from traditional farming methods.

Key Market Trends

Technological Advancements in Agritech

Israel is known for its strong agritech sector, which has significantly contributed to the growth of hydroponics. Advanced automation, AI-driven monitoring systems, and IoT-enabled nutrient management have transformed hydroponic farming into a highly efficient, data-driven industry. In April 2022, Agritech startup Brio Hydroponics, in collaboration with Israeli firm PIC-Plast Limited, has launched India's first 3-layer retractable, patented Rain Protection Technology Nethouse to tackle the climatic

challenges faced by the Indian farming sector.

Technologies like precision irrigation, climate control, and LED grow lights optimize plant growth, increasing yields while reducing resource consumption. Israeli startups and research institutions are continuously developing innovations such as AI-based crop monitoring, vertical farming solutions, and bioengineered nutrients. The integration of robotics in harvesting and automated nutrient delivery further enhances operational efficiency. These advancements not only make hydroponics more profitable but also ensure that Israel remains a global leader in smart agriculture.

Key Market Players

GrowPonics Limited

LivinGreen

Teshuva Agricultural Projects Ltd.

TAPKIT Hydroponic Systems Ltd.

Vertical Field

PhyTech

Ariel Global Links

Yagur Farm

Report Scope:

In this report, the Israel Hydroponics Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

· Israel Hydroponics Market, By Type:

Aggregate Systems

Liquid Systems

· Israel Hydroponics Market, By Equipment:

HVAC

LED Grow Light

Control Systems

Irrigation Systems

Others

· Israel Hydroponics Market, By Input:

Nutrient

Growth Media

· Israel Hydroponics Market, By Farming Method:

Indoor

Outdoor

· Israel Hydroponics Market, By Crop Type:

Fruits & Vegetables

Flowers & Turfs

Others

Israel Hydroponics Market, By Region:

The Mediterranean Coastal Plain

The Central Hills

The Jordan Rift Valley

The Negev Desert

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Israel Hydroponics Market.

Available Customizations:

Israel Hydroponics Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validations
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. ISRAEL HYDROPONICS MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Aggregate Systems and Liquid Systems)
 - 5.2.2. By Equipment (HVAC, LED Grow Light, Control Systems, Irrigation Systems, Others)
 - 5.2.3. By Input (Nutrient and Growth Media)

- 5.2.4. By Farming Method (Indoor and Outdoor)
- 5.2.5. By Crop Type (Fruits & Vegetables, Flowers & Turfs, Others)
- 5.2.6. By Region
- 5.2.7. By Company (2024)
- 5.3. Market Map

6. THE MEDITERRANEAN COASTAL PLAIN HYDROPONICS MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Type
 - 6.2.2. By Equipment
 - 6.2.3. By Input
 - 6.2.4. By Farming Method
 - 6.2.5. By Crop Type

7. THE CENTRAL HILLS HYDROPONICS MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Type
 - 7.2.2. By Equipment
 - 7.2.3. By Input
 - 7.2.4. By Farming Method
 - 7.2.5. By Crop Type

8. THE JORDAN RIFT VALLEY HYDROPONICS MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Equipment
 - 8.2.3. By Input
 - 8.2.4. By Farming Method
 - 8.2.5. By Crop Type

9. THE NEGEV DESERT HYDROPONICS MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Type

9.2.2. By Equipment

9.2.3. By Input

9.2.4. By Farming Method

9.2.5. By Crop Type

10. MARKET DYNAMICS

10.1. Drivers

10.2. Challenges

11. MARKET TRENDS & DEVELOPMENTS

11.1. Merger & Acquisition (If Any)

11.2. Product Launches (If Any)

11.3. Recent Developments

12. ISRAEL HYDROPONICS ECONOMIC PROFILE

13. ISRAEL HYDROPONICS MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

14.1. Competition in the Industry

14.2. Potential of New Entrants

14.3. Power of Suppliers

14.4. Power of Customers

14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

15.1. GrowPonics Limited

15.1.1. Business Overview

15.1.2. Company Snapshot

- 15.1.3. Products & Services
- 15.1.4. Financials (As Reported)
- 15.1.5. Recent Developments
- 15.1.6. Key Personnel Details
- 15.1.7. SWOT Analysis
- 15.2. LivinGreen
- 15.3. Teshuva Agricultural Projects Ltd.
- 15.4. TAPKIT Hydroponic Systems Ltd.
- 15.5. Vertical Field
- 15.6. PhyTech
- 15.7. Ariel Global Links
- 15.8. Yagur Farm

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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