

**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**

Market Report | 2025-03-24 | 82 pages | TechSci Research

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**Report description:**

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

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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:
  - o Aggregate Systems
  - o Liquid Systems
- Israel Hydroponics Market, By Equipment:
  - o HVAC
  - o LED Grow Light
  - o Control Systems
  - o Irrigation Systems
  - o Others
- Israel Hydroponics Market, By Input:
  - o Nutrient

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- o Growth Media
- Israel Hydroponics Market, By Farming Method:
  - o Indoor
  - o Outdoor
- Israel Hydroponics Market, By Crop Type:
  - o Fruits & Vegetables
  - o Flowers & Turfs
  - o Others
    - Israel Hydroponics Market, By Region:
      - o The Mediterranean Coastal Plain
      - o The Central Hills
      - o The Jordan Rift Valley
      - o 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).

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