

**Egypt 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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**Report description:**

Egypt Hydroponics Market was valued at USD 102.43 Million in 2024 and is expected to reach USD 159.70 Million by 2030 with a CAGR of 7.64% during the forecast period. The Egypt hydroponics market is being driven by the need for water-efficient farming, urbanization, and rising demand for fresh, pesticide-free produce. With limited arable land and increasing water scarcity, hydroponics offers a sustainable solution by using up to 90 percent less water than traditional farming. Urban expansion has reduced available farmland, encouraging rooftop and vertical farming in cities. The growing health-conscious consumer base is fueling demand for organic and locally grown vegetables, pushing restaurants, supermarkets, and hotels to source hydroponically grown produce. Technological advancements, government initiatives, and investments in modern agriculture are further accelerating adoption. Additionally, export opportunities for high-quality vegetables and increased awareness of climate-smart farming are driving further growth in hydroponic farming across the country.

**Key Market Drivers**

**Water Scarcity and the Need for Efficient Water Use**

Water scarcity is one of the most critical challenges facing agriculture, and hydroponics offers a sustainable solution by drastically reducing water consumption. The country's dependency on the Nile River for agriculture has put immense pressure on water resources, making traditional soil-based farming less viable in many areas. With increasing population growth, industrial expansion, and climate change affecting rainfall patterns, efficient water use has become a priority for agricultural sustainability. Hydroponic farming systems use up to 90 percent less water than traditional farming methods because water is recirculated

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within the system, reducing waste and ensuring maximum efficiency. In November 2022, as the holder of the COP27 presidency, Egypt has introduced a new initiative to promote global collaboration on transforming sustainable food systems. The initiative focuses on increasing climate finance for farmers while fostering knowledge-sharing and coordinated policymaking to drive sustainability in agriculture.

Unlike conventional farming, where a significant portion of irrigation water is lost due to evaporation and runoff, hydroponics delivers water directly to plant roots in a controlled manner. This method minimizes losses, optimizes nutrient absorption, and allows for better monitoring of water usage. Additionally, hydroponic systems prevent soil degradation, which is a common issue in water-scarce regions where excessive irrigation leads to salinization and loss of soil fertility. By using nutrient-rich water solutions instead of soil, hydroponics eliminates the risk of land degradation and ensures long-term sustainability in food production.

The government and private sector have recognized the importance of hydroponics as a water-saving technology, leading to increased investment in modern farming techniques. Many farmers are now shifting toward soilless agriculture to ensure continuous crop production despite limited water availability. The integration of advanced irrigation methods, such as drip irrigation and aeroponics, further enhances water efficiency in hydroponic farming. Given the pressing need for water conservation, hydroponics is expected to play an even greater role in shaping the future of sustainable agriculture.

#### Key Market Challenges

##### High Initial Investment and Operating Costs

One of the biggest challenges in hydroponic farming is the high initial investment required to set up a functioning system. Unlike traditional soil-based farming, hydroponics relies on advanced technology, including climate-controlled greenhouses, automated nutrient delivery systems, LED grow lights, and monitoring sensors. These components significantly increase the cost of establishing a hydroponic farm, making it difficult for small-scale farmers or startups to enter the market. Infrastructure costs, such as greenhouse construction, water circulation systems, and artificial lighting, can be prohibitively expensive, particularly in regions where access to affordable agricultural technology is limited.

Beyond setup costs, operating expenses can also be high. Hydroponic farms require consistent electricity for climate control, lighting, and irrigation, leading to increased energy bills. In regions where electricity costs are high or unstable, maintaining a hydroponic farm can be financially challenging. Advanced hydroponic systems also require regular maintenance, replacement of pumps, monitoring sensors, and nutrient solutions, adding to operational expenses.

The cost of skilled labor is another factor affecting hydroponic farming. Unlike traditional farming, which relies heavily on manual labor, hydroponic farming requires specialized knowledge in agronomy, nutrient management, and system maintenance. Hiring and training workers who understand the complexities of hydroponics can be expensive, further increasing the overall operational costs. While automation and AI-driven systems are improving efficiency, they also come with additional costs, making affordability a key challenge for many potential adopters.

To overcome this challenge, governments and financial institutions need to provide funding opportunities, subsidies, and technical support to farmers interested in hydroponics. Research and development in cost-effective hydroponic solutions can also help reduce expenses and make this farming method more accessible to a wider range of growers.

#### Key Market Trends

##### Export Opportunities and Expansion of Commercial Farming

The global demand for high-quality fruits and vegetables has created export opportunities for hydroponic farmers. Countries with strict food safety regulations prefer hydroponically grown produce due to its consistent quality and reduced pesticide use. In May 2022, Dr. Yasmine Fouad, Minister of Environment, emphasized the significance of the "Raising Climate Ambition in Land Use and Agriculture through National Plans and Contributions" (SCALA) project in assessing the impact of climate change on this crucial sector. She highlighted that the project comes at a critical time when climate change is affecting various aspects of life, including agriculture. The IPCC report on climate change has warned of significant agricultural productivity losses across Africa, and the ongoing rise in global temperatures could lead to a severe crisis in food supply.

Farmers have recognized the potential of hydroponics in meeting export standards and are investing in large-scale hydroponic farms to supply international markets. By adopting advanced hydroponic techniques, farmers can produce premium-quality vegetables that meet global standards, boosting the country's agricultural exports.

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## Key Market Players

- AlGhanim Agriculture Group
- Plug'n'Grow
- Alex Hydroponics
- The Green System
- Mashtal Garden Centers
- Chiwiy Holding Company
- Schaduf Company
- Hydro Farms
- Nabat Farms
- Egyponics Farm

## Report Scope:

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

### -□Egypt Hydroponics Market, By Type:

- o Aggregate Systems
- o Liquid Systems

### -□Egypt Hydroponics Market, By Equipment:

- o HVAC
- o LED Grow Light
- o Control Systems
- o Irrigation Systems
- o Others

### -□Egypt Hydroponics Market, By Input:

- o Nutrient
- o Growth Media

### -□Egypt Hydroponics Market, By Farming Method:

- o Indoor
- o Outdoor

### -□Egypt Hydroponics Market, By Crop Type:

- o Fruits & Vegetables
- o Flowers & Turfs
- o Others

### -□Egypt Hydroponics Market, By Region:

- o Cairo
- o Alexandria
- o Giza
- o Qalyubia
- o Port Said
- o Suez
- o Rest of Egypt

## Competitive Landscape

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

## Available Customizations:

Egypt 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

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

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