

Global Nutrient Film Technique (NFT) System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G696D925F5C7EN.html>

Date: August 2026

Pages: 106

Price: US\$ 3,480.00 (Single User License)

ID: G696D925F5C7EN

Abstracts

According to our (Global Info Research) latest study, the global Nutrient Film Technique (NFT) System market size was valued at US\$ 482 million in 2025 and is forecast to a readjusted size of US\$ 698 million by 2032 with a CAGR of 5.5% during review period.

The Nutrient Film Technique (NFT) hydroponic system is a soil-free cultivation method in which a shallow stream of nutrient solution continuously circulates through cultivation channels or pipes, supplying water, nutrients, and oxygen to plant roots. The system primarily consists of food-grade cultivation channels, planting lids, support structures, a nutrient reservoir, a water pump, supply and return piping, a filter, a nutrient/irrigation controller, pH and EC monitoring units, and automated transplanting or harvesting modules. It is mainly used for growing lettuce, leafy greens, herbs, and microgreens, as well as for seedling propagation and certain strawberry varieties. In 2025, global sales volume reached approximately 55,800 units, with an average unit price of around \$8,387 and an industry capacity utilization rate of approximately 73.6%. Upstream enterprises operate in sectors such as plastic profile extrusion, HDPE and PVC materials, pumps/valves/fittings, sensors, nutrient controllers, greenhouse structural components, and automation equipment. Downstream applications include greenhouse cultivation, plant factories, urban agriculture, school agricultural education, scientific research, community farms, and fresh produce supply chains. The industry's average gross profit margin is approximately 29.5%. Regarding the product cost structure, cultivation channels and piping account for about 32%, support structures and structural components for about 16%, and pumps, electrical controls, and sensors for about 1... ..8%; liquid storage, filtration, and fertigation units account for approximately 13%; processing and assembly for about 11%; packaging and logistics for around 6%; and design, commissioning, and after-sales service for about 4%. The demand profile

encompasses requirements for commercial leafy-green greenhouses, plant factory capacity expansion, school-based experimental teaching, community farm development, local fresh produce supply for the foodservice sector, agricultural research and breeding trials, and agricultural demonstration parks. Downstream clients include greenhouse farm operators, vertical farming companies, agricultural universities and research institutes, government-run agricultural demonstration parks, restaurant chains, fresh food retailers, agricultural entrepreneurs, and overseas hydroponic project integrators. Business opportunities are driven by policies promoting water-saving agriculture, protected agriculture, urban farming, and food safety regulations; by technological innovations such as automatically adjustable spacing cultivation channels, smart pH and EC control systems, low-energy circulation pumps, food-grade UV-resistant materials, and modular rapid-installation solutions; and by shifting consumer preferences?specifically, a growing demand for locally grown, fresh, low-residue, and traceable leafy greens and herbs?which is propelling the evolution of NFT hydroponic systems from small-scale educational and home-use units toward commercial, large-scale, and automated systems.

The Nutrient Film Technique (NFT) hydroponics market is poised for steady growth over the coming years, driven not merely by the expansion of conceptual "plant factories," but by specific applications such as short-cycle leafy greens, herbs, seedling propagation, and localized fresh produce supply. Global sales volume is projected to reach approximately 55,800 units by 2025; while small- and medium-sized systems account for the bulk of shipments, large-scale automated mobile-trough systems?though fewer in number?generate higher revenue per project. European companies hold a distinct advantage in high-end automation and commercial greenhouse projects, whereas North American firms enjoy high market penetration among small-to-medium farms and in the education and training sectors. Meanwhile, Chinese enterprises leverage PVC troughs, A-frame racks, vertical systems, and export-oriented OEM services to maintain strong price competitiveness. Looking toward 2030, industry competition will shift from a focus on price alone to factors such as system stability, material durability, precision in water and nutrient control, ease of cleaning, root disease prevention, and project delivery expertise. The core strengths of NFT systems?high water efficiency, relatively simple structure, minimal growing medium usage, and high visibility of the cultivation process?make them ideal for standardized leafy green production. However, they also have notable drawbacks, such as sensitivity to power outages, clogging, slope uniformity, and water temperature fluctuations; consequently, large-scale clients prioritize system redundancy, after-sales support, and integrated cultivation protocols when making purchasing decisions. Overall, the NFT hydroponics sector is expected to maintain healthy growth from 2026 to 2032, with

commercial greenhouses, plant factories, school agricultural education, and community agriculture serving as key growth drivers. Industry gross margins are likely to remain between 26.0% and 33.0%, with high-end automated systems commanding higher margins than standard channel components, while low-priced export products will face intense competition driven by market homogenization.

This report is a detailed and comprehensive analysis for global Nutrient Film Technique (NFT) System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Nutrient Film Technique (NFT) System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Nutrient Film Technique (NFT) System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Nutrient Film Technique (NFT) System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Nutrient Film Technique (NFT) System market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Nutrient Film Technique (NFT) System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Nutrient Film Technique (NFT) System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mitsubishi Chemical Group Corporation (JP), Green Automation Group Oy (FI), CropKing Inc. (US), Meteor Systems (NL), HOAGS (JP), Agra Tech Inc. (US), Vivosun (US), Opcom Farm (US), AmHydro (American Hydroponics) (US), NFT Hydro (ZA), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Nutrient Film Technique (NFT) System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Horizontal NFT

A-Frame NFT (Vertical)

Market segment by Slope

? 1.0%

1.0% - 2.0%

? 2.0%

Market segment by Circulation Mode

Continuous Flow

Intermittent Flow

Constant Flow

Market segment by Application

Commercial Cultivation

Research and Education

Other

Major players covered

Mitsubishi Chemical Group Corporation (JP)

Green Automation Group Oy (FI)

CropKing Inc. (US)

Meteor Systems (NL)

HOAGS (JP)

Agra Tech Inc. (US)

Vivosun (US)

Opcom Farm (US)

AmHydro (American Hydroponics) (US)

NFT Hydro (ZA)

Viemose DGS A/S (DK)

Weifang Jinxin Agricultural Technology Development Co., Ltd. (CN)

Zhengzhou Liying Agricultural Technology Co., Ltd. (CN)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Nutrient Film Technique (NFT) System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nutrient Film Technique (NFT) System, with price, sales quantity, revenue, and global market share of Nutrient Film Technique (NFT) System from 2021 to 2026.

Chapter 3, the Nutrient Film Technique (NFT) System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nutrient Film Technique (NFT) System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Nutrient Film Technique (NFT) System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Nutrient Film Technique (NFT) System.

Chapter 14 and 15, to describe Nutrient Film Technique (NFT) System sales channel, distributors, customers, research findings and conclusion.

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