

A vertical hydroponic system is shown. The top part consists of a metal shelf holding several black plastic pots, each containing a young green plant with broad leaves. Below the shelf is a dark water reservoir. Two goldfish are visible in the water, one on the left and one on the right. The plants are reflected in the water. The overall scene is brightly lit, suggesting an indoor or greenhouse environment.

MANNA CEA

Cultivating the Future of Agriculture

MANNA CEA

LIFE Cultivation Systems for Urban Spaces

1 Multi-layer configurability, allowing flexible application to various cultivation needs.

2 Nutrient solution supply and drainage system using specially designed bottom-irrigation beds.

3 Efficient cultivation using Manna CEA's proprietary floating cultivation panels and growing pots.

4 Simple structure for easy assembly and convenient maintenance.



LIFE Aquaponics

Eco-Friendly

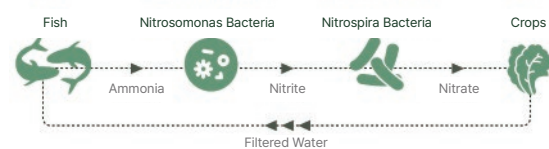
Because fish and crops are raised together, pesticides and chemical fertilizers cannot be used. Instead, nutrients are produced through natural microbial decomposition.

Water Saving

By recirculating used water, the system minimizes water discharge and uses only about 1/200 of the water required for conventional open-field cultivation.

High Profitability

Additional revenue can be generated from fish, while fertilizer costs can be significantly reduced compared with hydroponic farms that rely on chemical nutrient solutions.



A wide range of aquaponics systems can be designed and built according to customer requirements.

Use Cases



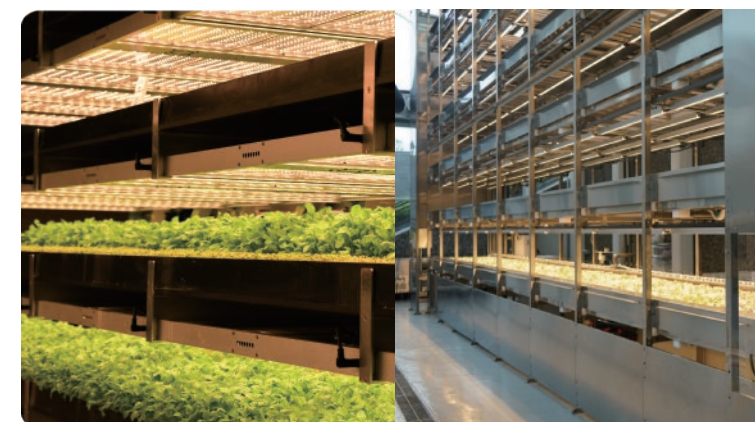
Jincheon Daejeon
Jeju Kazakhstan

Greenhouse Cultivation System



Root Square US

Multi-layer Hybrid Cultivation System Using Sunlight and Artificial Lighting



Saudi Arabia Mongolia
Jeju

Multi-layer Indoor Cultivation System

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Product specifications, appearance, and components are subject to change without prior notice.

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LIFE Cultivation Systems for Urban Spaces

Designed for growing fresh vegetables in cafés and restaurants, creating hands-on cultivation experiences, and bringing greenery into interior spaces.

LIFE Cultivation Systems for Urban Spaces

Specifications

Width: 1,300 mm or 650 mm

Height: 2 layers - 1,800 mm / 3 layers - 2,300 mm / 4 layers - 2,800 mm

Length: Expandable from a minimum of 2,900 mm in 1,500 mm increments

Customizable to fit the installation site.

Key Features

- Multi-layer DFT hydroponic cultivation system optimized for indoor salad greens production.
- Suitable for producing vegetables for cafes and restaurants, while also serving as an interior feature or hands-on cultivation experience.
- Easy to install and operate, with simple nutrient solution replenishment.
- Automatic control logic setup and remote control via MESH.



Multi-Purpose Multi-layer Hydroponic System

Specifications

Width: 470 mm for deep-water hydroponics or 350 mm for drip irrigation

Height: 3 layers - 2,100 mm / 4 layers - 2,400 mm

Length: Expandable from a minimum of 1,500 mm in 1,300 mm increments

Customizable to fit the installation site.

Key Features

- Premium materials provide excellent aesthetics and a slim, refined structure.
- Choose between deep-water hydroponics for salad greens or drip irrigation for potted plants.
- Easy to install and operate, with simple nutrient solution replenishment.
- Automatic control logic setup and remote control via MESH.



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