Urban Ponics
Full Spectrum Farming

URBAN PONICS

Products Catalogue

Modular growing systems for high-quality, local food production

Controlled environments
Taste-driven cultivation
Modular systems

Urban Ponics
Full Spectrum Farming

COMPANY OVERVIEW

Urban Ponics is a leading Dutch AgTech company, designing and delivering innovative urban farming projects with minimal capital expenditure. Inspired by nature and driven by technology, we create smart solutions that transform harsh climates and challenging growing conditions into fertile opportunities.

Our turnkey systems combine advanced vertical farming technology with simple, proven growing protocols. This empowers urban farmers, hotels, restaurants, catering businesses, residential communities, and more to grow their own fresh, nutritious crops, anywhere, year-round.

Full Spectrum Farming – From Seed to Harvest.

Urban Ponics
Full Spectrum Farming

PRODUCT OVERVIEW

From Vision to Reality



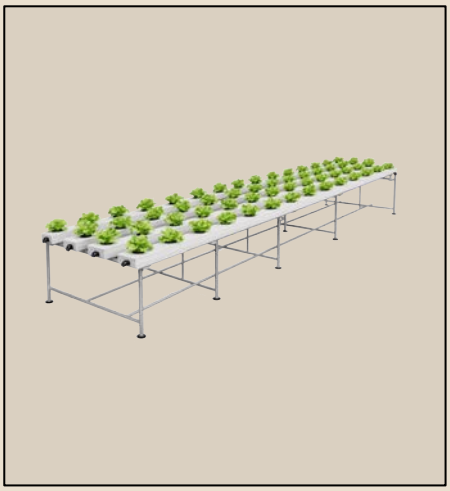
01. Grow-KART

Fast germination & baby leaf production



02. Grow-POD

Substrate-free mist cultivation for premium taste



03. New-NFT

Uniform leafy green production at scale



04. Lava-BUCKET

Long-cycle fruiting crops



05. Eb-Flow-GO

Seedling maturation & controlled growth



06. NACAR

Natural plant nutrition and biostimulants

Urban Ponics
Full Spectrum Farming



01
Grow-KART

Product Description

For germination and fast-growing crops like cress, baby leaf lettuce, and mesclun.

Best Used For

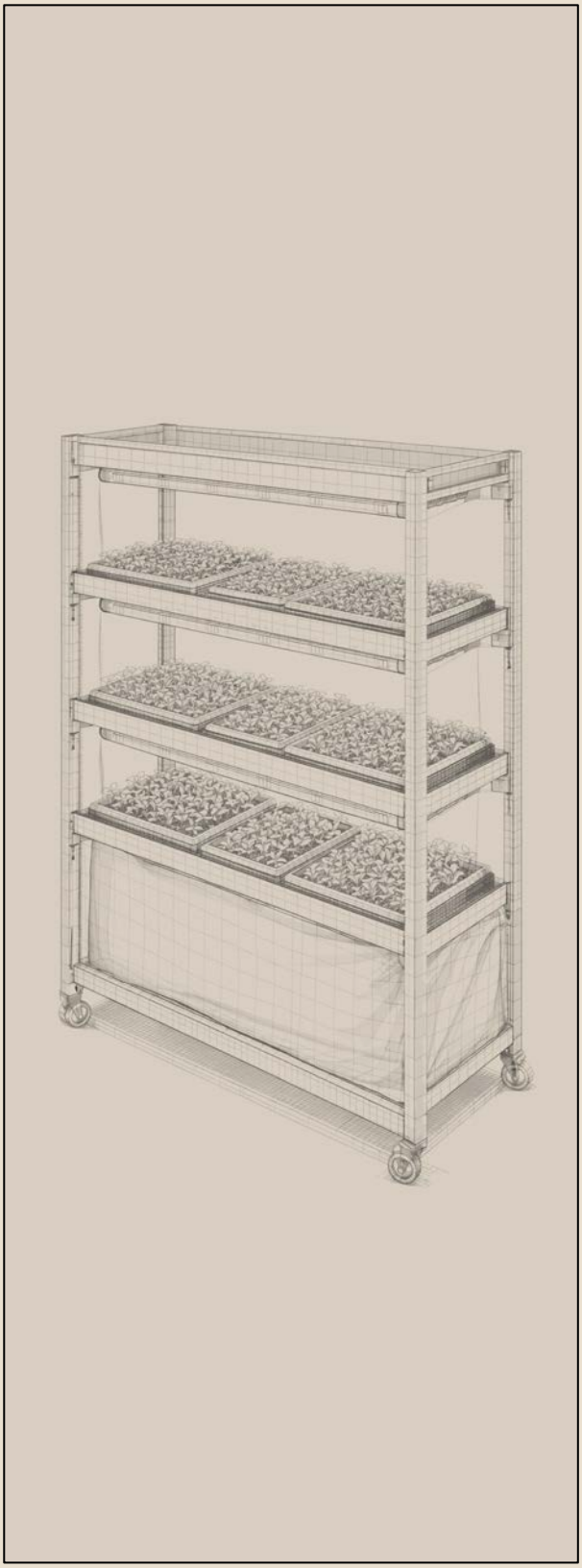
An optimal solution for growers, chefs, urban farms, and greenhouses seeking full control over reliable microgreen, microleaves, edible flowers, and baby leaf production.

Suitable for cress, baby leaf lettuce, mesclun, herbs, microgreens, and edible flowers.

Urban Ponics
Full Spectrum Farming

PRODUCT FEATURES

Fast germination & baby leaf production



Fully automated irrigation system

Supports consistent germination, seedling development, and early crop growth for commercial products like cress and microgreens.

Energy-efficient lighting

Integrated low-energy LED or neon grow lights provide uniform illumination for optimal plant growth.

High-density capacity

Configured with up to 5 growing layers, delivering approximately 200 growing positions in a compact footprint, maximizing space and production.

Low maintenance operation

Requires minimal upkeep, with tank cleaning and filter replacement needed only once or twice per year.

Urban Ponics
Full Spectrum Farming

PRODUCT PHOTOS

Fast germination & baby leaf production







Urban Ponics
Full Spectrum Farming

02
Grow-POD

Product Description

The Grow-Pod Mist Ponics Tower offers scalable farming with minimal water use, ideal for maximizing yield in limited space. Adaptable to various locations, it is perfect for both new and existing greenhouses.

Best Used For

Maximizing yield in limited spaces while maintaining full control over quality, timing, and crop diversity.

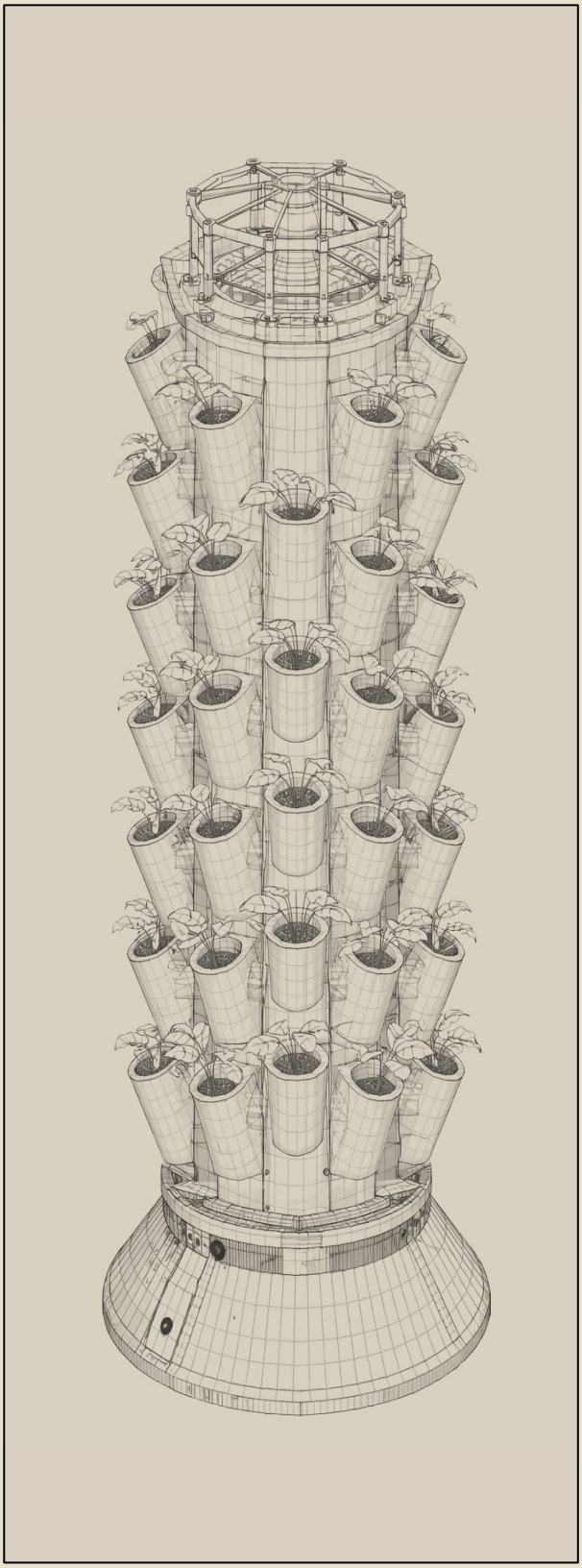
Suitable for leafy greens, herbs, strawberries, microleaves, and edible flowers, in urban farms, greenhouses, and controlled environment agriculture facilities.



Urban Ponics
Full Spectrum Farming

PRODUCT FEATURES

Substrate-free mist cultivation for premium taste



Co-extruded ABS material

Black interior limits algae formation, while the white exterior reflects excess radiation.

Easy cleaning

Integrated Cleaning-in-Place (CIP) design enables fast, low-effort maintenance.

Precision mistponics nozzle

Stainless steel nozzle with a 10-60 micron mist for optimal plant hydration and nutritional metabolism.

Efficient misting

A single pump supports 50–250 Grow-PODs, reducing energy use and system complexity.

High capacity per growing cycle

Each Grow-POD is designed to accommodate up to 80 plants per growing cycle, maximizing space efficiency and productivity.

Versatile design

Delivered as a foldable plate that can be assembled into a Grow-POD or Grow-Wall for flexible deployment.

Urban Ponics
Full Spectrum Farming

PRODUCT PHOTOS

Substrate-free mist cultivation for premium taste

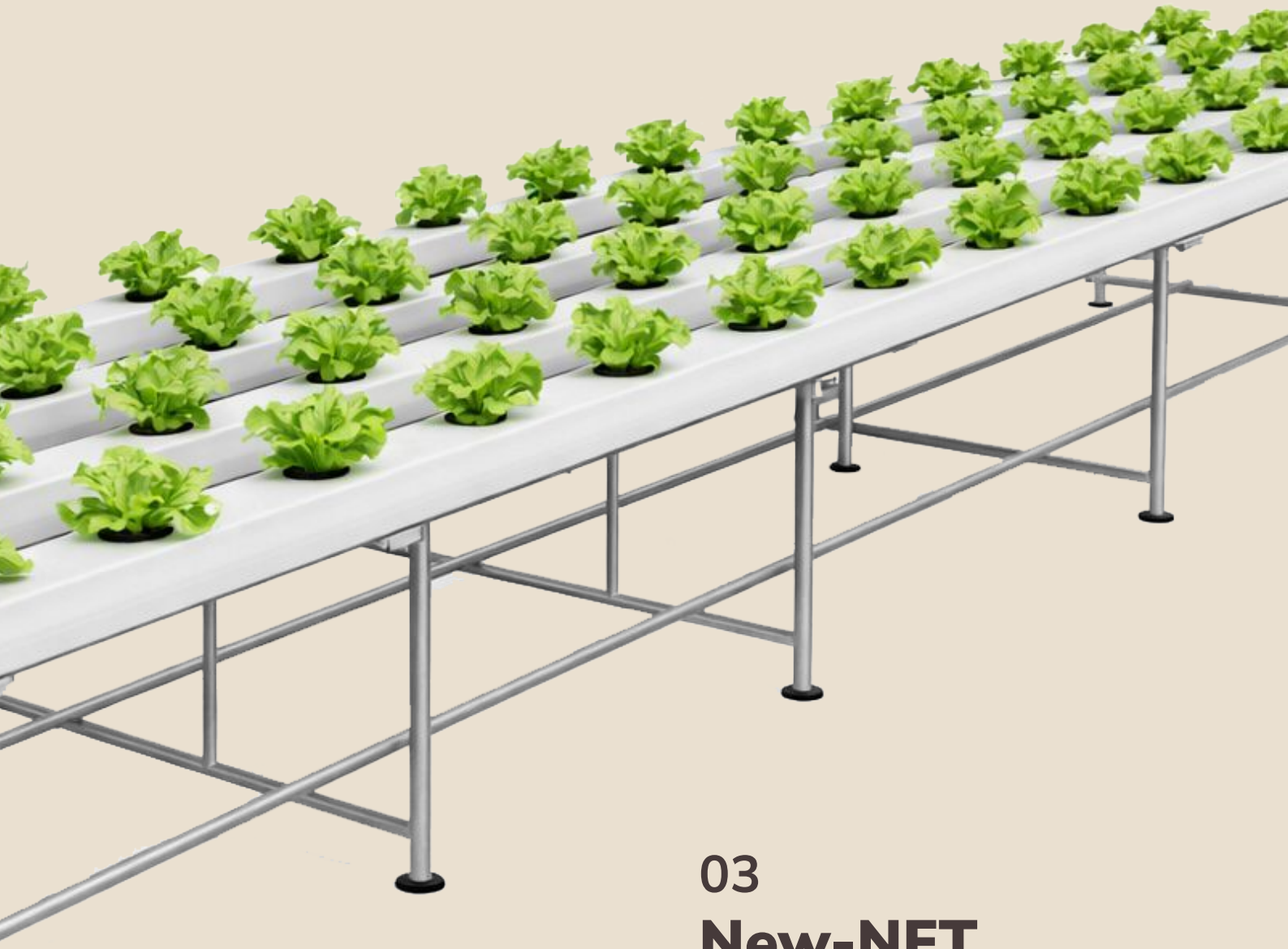








Urban Ponics
Full Spectrum Farming



03
New-NFT

Product Description

Food grade Nutrient Film Technology (NFT) for the production of homogeneous leafy greens such as romaine lettuce, pak choi and herbs.

Best Used For

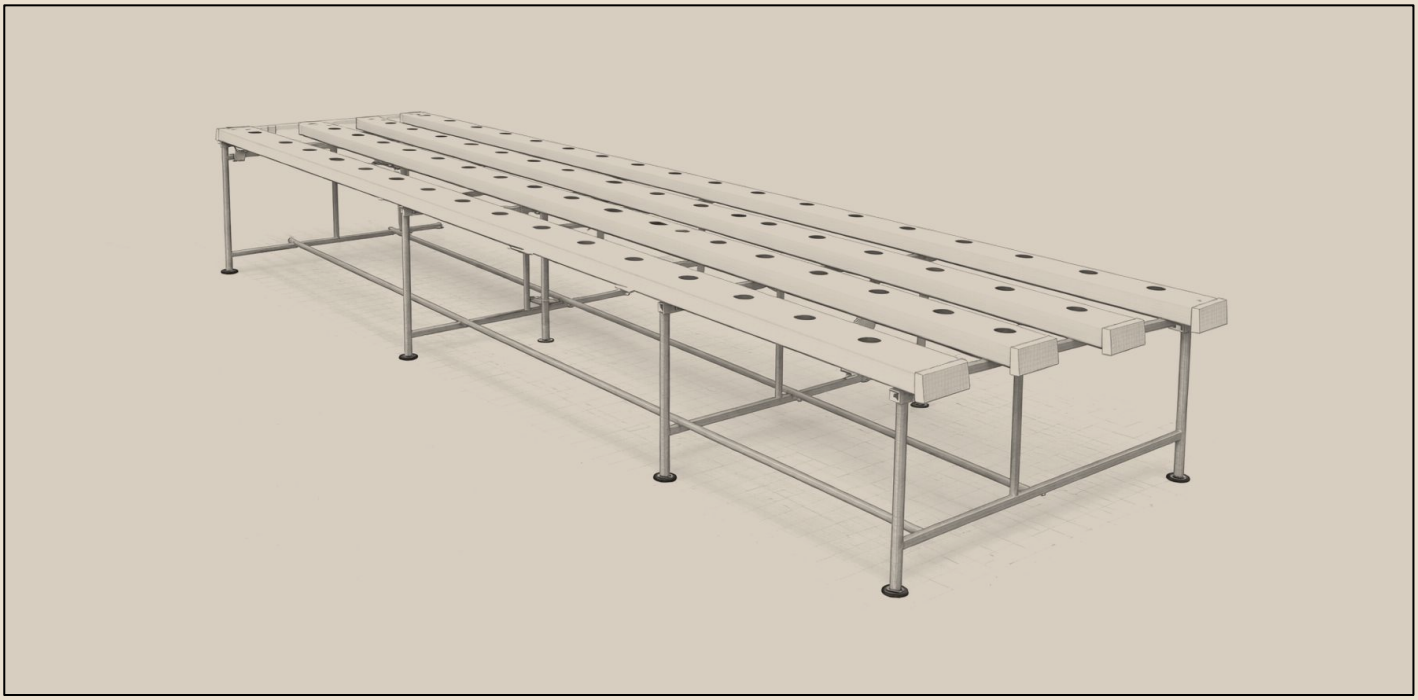
Consistent production, consistent crop size, and reliable harvest planning at scale.

Suitable for butter lettuce, romaine, pak choi, and other leafy greens in urban farms and greenhouses.

Urban Ponics
Full Spectrum Farming

PRODUCT FEATURES

Uniform leafy green production at scale



Uniform nutrient delivery

Delivers constant nutrients to all plants, ensuring even growth across the system.

Homogeneous crop sizing

Supports predictable plant size and weight, enabling standardized harvest cycles.

Food-grade channel design

Manufactured from food-safe materials, suitable for commercial leafy green production.

Efficient water circulation

Recycles up to 99% of both water and nutrients, while maintaining stable root conditions.

Scalable, modular layout

Easily expanded through parallel channel configurations to match production demand.

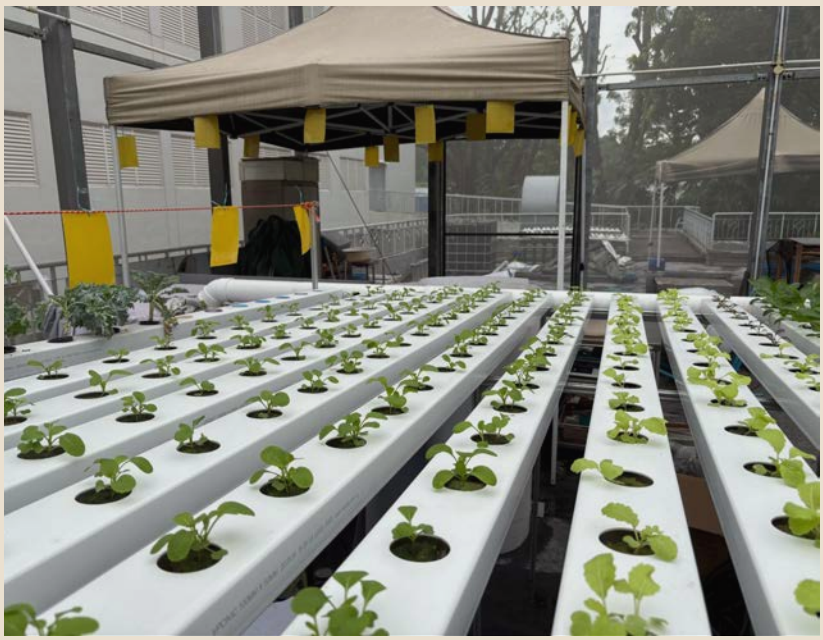
Urban Ponics
Full Spectrum Farming

PRODUCT PHOTOS

Uniform leafy green production at scale









Urban Ponics
Full Spectrum Farming



04
Lava-BUCKET

Product Description

A smart Dutch-bucket variation for peppers, tomatoes, cucumbers, eggplants, passion fruit, blueberries, great for longer growth cycles.

Best Used For

Products that grow vertically, such as tomatoes, peppers, cucumbers, and eggplants, passion fruit, and blueberries in greenhouses and indoor farms.

Urban Ponics
Full Spectrum Farming

PRODUCT FEATURES

Automatic watering valve on demand



Optimized root development

Supports long-cycle crops through a blended substrate of lava, coco peat, and carbon, providing stable conditions for strong and healthy root growth. Ideal for plants with longer growing periods, such as tomatoes, peppers, cucumbers, okra, kale, and similar crops.

Integrated biofiltration

Acts as a natural biofilter where beneficial microorganisms help clean and stabilize recirculating water while supporting overall plant health.

Efficient water reuse

Each bucket uses an automatic floating valve that allows plants to regulate their own water intake. No drip irrigation is needed, reducing clogging and dosing risks. Lava-BUCKETS can reuse drainwater from systems such as Grow-PODs.

Low maintenance operation

Simple design with minimal moving parts. Easy to inspect, operate, and maintain throughout extended growing cycles.

Scalable capacity

Configured in sets ranging from 25 to 200 buckets, supporting flexible system expansion.

Urban Ponics
Full Spectrum Farming

PRODUCT PHOTOS

Automatic watering valve on demand







Urban Ponics
Full Spectrum Farming

05

Eb-Flow-GO

Product Description

For maturing seedlings and controlled growth of leafy greens and herbs on XPS plates.

Best Used For

Uniform early-stage development in professional growing environments.

Suitable for leafy greens and herbs in suboptimal conditions.



Urban Ponics
Full Spectrum Farming

PRODUCT FEATURES

Seedling maturation & controlled growth



Controlled flood-and-drain cycles

Alternating flooding and drainage promotes balanced root hydration and oxygenation.

Uniform early-stage growth

Ensures consistent development of seedlings and young plants before transfer to main systems.

Food-grade construction

Manufactured from food-safe materials, suitable for commercial leafy green production.

XPS plate compatibility

Designed for use with XPS plates, providing stable plant support and easy handling.

Flexible integration

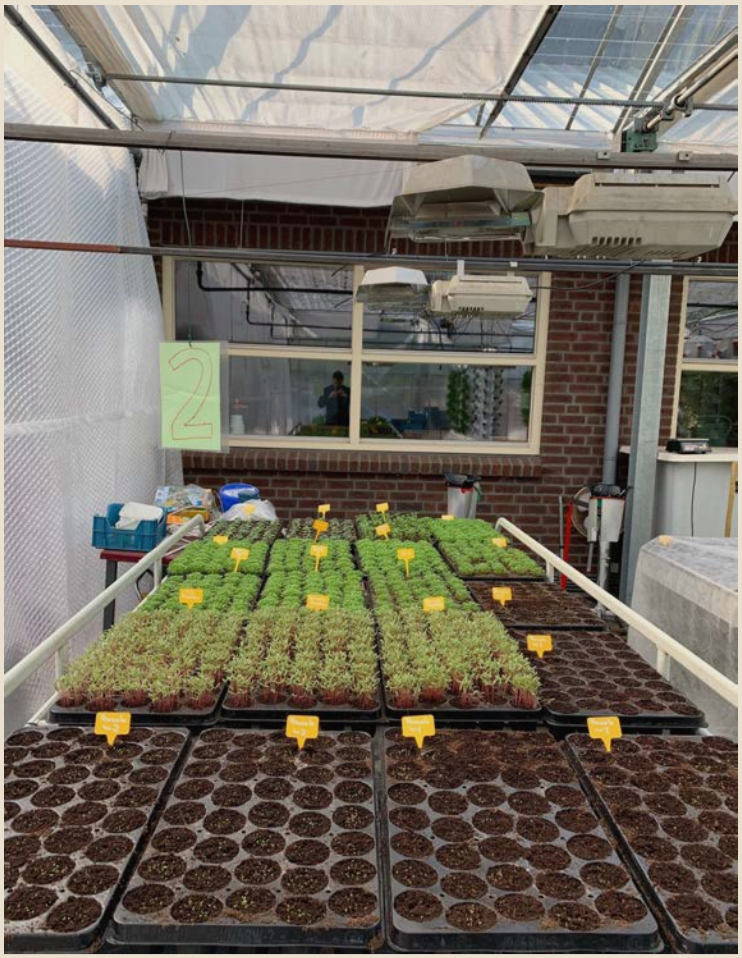
Fits seamlessly into production workflows as an intermediate growth stage.

Urban Ponics
Full Spectrum Farming

PRODUCT PHOTOS

Seedling maturation & controlled growth









Urban Ponics
Full Spectrum Farming

06
NACAR

Product Description

A natural biostimulant that stabilizes pH and enhances nutrient absorption. Enables diverse crops to thrive together, improving taste, resilience, and overall plant vitality.

Best Used For

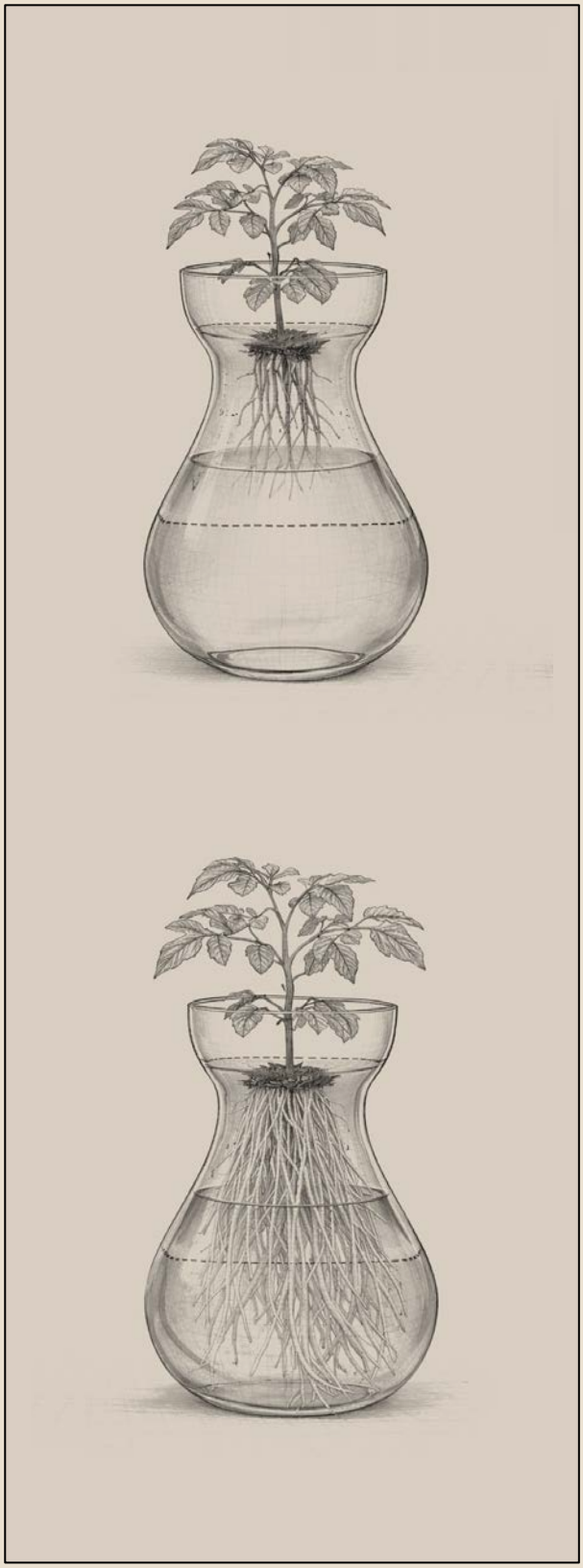
Improving system stability and crop performance in mixed or intensive growing environments.



Urban Ponics
Full Spectrum Farming

PRODUCT FEATURES

Natural biostimulant for system balance



Deep root development

Supports strong, resilient root systems using water-soluble nutrients enriched with over 85 trace elements.

Enhanced leaf growth and disease resistance

Promotes healthy leaf development and natural plant disease defenses through a balanced blend of humic acids, amino acids, and minerals.

Optimized nutrient uptake

Improves nutrient absorption efficiency through complexing of minerals, reducing nutrient loss and lowering dependency on pesticides.

Micro-nutrient enrichment

Provides essential trace elements suitable for all cultivation systems for balanced plant growth in a POLY-culture setup.

Fully water-soluble formulation

Dissolves easily in irrigation and fertigation systems, enabling seamless integration across diverse setups.

Sustainable, all-in-one solution

Supports root, leaf, and nutrient development throughout all growth stages while promoting cleaner farming practices.

Urban Ponics
Full Spectrum Farming

PRODUCT PHOTOS

Natural biostimulant for system balance







