



URBAN CROP
SOLUTIONS

AGRICULTURAL SITUATION



80%

of the land suitable for agriculture is already in use



by **2050** more than

70%

of all people will live in cities



by **2050** there will be

9.7 billion people

living on planet Earth raising the need for food with 70%

KEY FACTS

TRADITIONAL

GROWTH CYCLE	70 days
NUMBER OF CROPS PER M ²	18
CROP CYCLES	seasonal
WATER CONSUMPTION/CROP	35 l
PESTICIDES/HERBICIDES	often
LOCATION	open field
POST-HARVEST HANDLING	high

GREENHOUSE

40-50 days
25
seasonal
15 l
less often
open field
medium



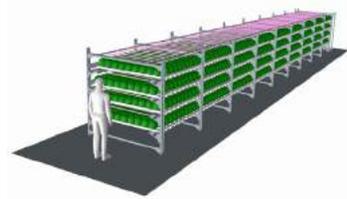
URBAN CROP SOLUTIONS

21 days
250-300
365 days
1.5 l
none
anywhere
low

TAILORED SOLUTIONS

URBAN CROP SOLUTIONS LOW CEILING PLANTFACTORY

A turnkey, robotized, climate controlled plant factory built according to your needs



KEY FACTS (max. height 5m)

Min 80 m² growing surface, max 65 000 m²

1 600 to 3.8M units per growth cycle

24 000 to 57M units per year

Own recipes for 180+ crop varieties

URBAN CROP SOLUTIONS PLANTFACTORY

A turnkey, robotized, climate controlled plant factory built according to your needs



KEY FACTS (min. height 5m)

Up to 130 000 m² growing surface

5 000 to 6.1M units per growth cycle

75 000 to 91.5M units per year

Own recipes for 180+ crop varieties

STANDARD SOLUTIONS

URBAN CROP SOLUTIONS FARMFLEX

A flexible and climate controlled 40' freight container



KEY FACTS

50 m² growing surface

960 to 1 900 units per growth cycle

14 400 to 28 800 units per year

Own recipes for 180+ crop varieties

URBAN CROP SOLUTIONS FARMPRO

A fully automated and climate controlled 40' freight container



KEY FACTS

80 m² growing surface

1 600 to 3 600 units per growth cycle

24 000 to 54 000 units per year

Own recipes for 180+ crop varieties

TECHNOLOGY

How does it work?



HYDROPONICS AND OWN GROWTH RECIPES FOR 180+ CROPS

To deliver healthy and beyond organic crops, our closed-loop irrigation system:

- Minimizes the use of fresh water
- Increases plant nutrient uptake and can work with up to 70 nutrients and minerals
- Provides optimal root growth, aeration and nutrient delivery
- Allows to grow microgreens and super-large crops



CLIMATE CONTROLLED ENVIRONMENT

In/outflow of air is controlled to limit unwanted elements while optimizing climate conditions.

- Closed production plants have minimal external elements influencing the indoor climate
- Monitoring the in- and outflow of air allows for the best possible crops
- Flavor can be tailored to market demand by influencing climate, light and nutrients



CUSTOM MADE LED TECHNOLOGY

Our own LED lights provide the optimal spectrum for your plants, using limited energy.

- The photosynthetic active radiation (PAR) range, enables photosynthesis in the 400-700nm range
- Using energy-efficient LEDs, our crops receive just the right light spectrum to grow efficiently



ROBOTIZED AND CONTROLLED PROCESS

Our top-notch industrial standards allow full control over monitoring and automation.

- Minimize human intervention to achieve higher levels of process control within a highly regulated industry
- Optimize production according to market demand
- Monitor the growth cycle from anywhere in the world

ADVANTAGES



HIGHER YIELDS AND COST EFFICIENT

Growing happens indoor through LED grow lights in multiple layers with limited inputs and shorter growth cycles.



EXTREMELY FLEXIBLE GROWING SYSTEM

More than 180 types of crops possible. Switch between them with low costs or just grow different types at the same time.



ACHIEVE HIGHER NUTRITIONAL VALUE AND FOOD SECURITY

Optimized and fully controlled conditions lead to the healthiest and safest possible crops without pesticides or herbicides.



LOCAL PRODUCTION AND CONSUMPTION

Growing, harvesting and consuming all in the same neighborhood adds to the value chain by reducing the cost for unsold stock, pollution and transport and by eliminating excess profit for intermediaries.



HIGHER WATER EFFICIENCY

Our production systems use 95% less water than open field growing and 90% less than traditional greenhouse growing. Recuperating rain water and consuming CO₂ helps care for the environment.



WHAT CAN YOU GROW?



LETTUCE

Our wide range of lettuce varieties, grown to the size you require, according to your customers' taste



BRASSICA

These nutritious superfoods deliver all the necessary ingredients for a healthy lifestyle



HERBS

Cultivate high-yielding herbs and create flavor experiences from spicy and powerful to sweet and exotic



MEDICINAL PLANTS

Medicinal plants for extraction and processing or fresh herbs supporting general well-being



CULINARY FLOWERS

Add color to any dish by cutting and regrowing a wide variety of edible flowers



URBAN CROP SOLUTIONS

HOW WE COULD PARTNER...

Contractor for
plant factories and
growing containers

Grow consultant
providing advice and
training

Distributor and
wholesaler of
technology

Supplier of optimized
seeds and nutrient
recipes

CONTACT US

Grote Heerweg 67
8791 Beveren-Leie (Waregem)
Belgium

info@urbancropsolutions.com
www.urbancropsolutions.com
+32 56 96 03 06