FUTURE
FARMING

COMMUNITYFARM 1.0

PRODUCT CARD

COMMUNITYFARM

BASIC DESCRIPTION

PRODUCT NAME
COMMUNITYFARM 1.0

TECHNOLOGY TYPE
RAS + DWC (horizontal variant)

DIMENSIONS (including tolerance limits)
5.5 × 12.5 × 2.5 m (w × d × h)

NUMBER OF PLANT POSITIONS
600

FISH DENSITY
150 kg/m³ tilapia (350 kg/m³ catfish)

ANNUAL PLANT PRODUCTION(ESTIMATE)
1.1 t of leafy vegetables

ANNUAL FISH PRODUCTION (ESTIMATE)
2.8 t tilapia (7.5 t African catfish)

MATERIAL
plastic, metal

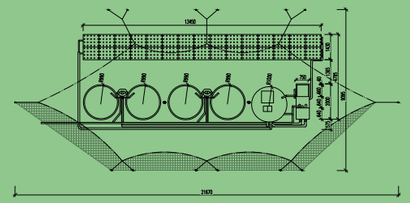
PRODUCT FUNCTION
aquaponic farming system

SALES MARKET
worldwide

The system forms a standardised typical mini-aquaponic farm for community purposes. Its dimensions are designed for extensive tilapia (or African catfish) farming.

The storage tank with pumps must be sunk (40–60 cm) into the ground to form an adequate gradient.

The system is designed for outdoor use and can be adapted for indoor installations (in greenhouses).



COMMUNITYFARM IS A 100% CZECH-MADE PRODUCT.

Aquaponic system for rearing tilapia in 4 fish tanks, a biofilter, and water recirculation. A simple yet efficient fish production method in a small space. The following description highlights the main elements of the system.

Generally, an aquaponic system with deep water culture (DWC) technology is complex, comprising many different components, which together form a single whole – an ecosystem. This ecosystem ensures sustainable and environmentally friendly plant growing and fish breeding, which is suitable for city gardens, community farming, and other similar projects. This system type is highly effective and easy to adapt to various fish rearing needs. If operated correctly, the system can be very successful and provide its users with healthy and tasty fish and vegetables.

COMMUNITYFARM

TECHNICAL SPECIFICATION

PRODUCT SURFACE FINISH
paint

MATERIALS USED
polypropylene with UV protection

COMPONENTS
Compressor – 2 x 200 W
pump – 200 W
UV emitter – 2 x 90 W

WATER AND ELECTRICITY CONSUMPTION (ESTIMATE)
about 1.5 m³ water/day
about 20 kWh electricity/day

Seedlings, fish and feed not included!

BENEFITS, ASSETS, AND KEY FEATURES

- Health benefits
- Environmental benefits
- Taste, aroma, and freshness of aquaponic vegetables, fruit, herbs, and fish
- Easy processing and yield even outside the high season
- No plant growing and fish farming experience necessary
- Big yield from a small space
- Top-quality materials and components and easy installation

COMMUNITYFARM

CAPACITY & PRODUCTION

The COMMUNITYFARM aquaponic farm takes less than 70 m² of space and can be operated as an outdoor or an indoor system. In a built-up area, on infertile land, in the open air, or in a greenhouse. The system includes 600 plant positions and 4 fish tanks situated next to the plant growing section.

The capacity of one COMMUNITYFARM aquaponic system is more than 1 tonne of leafy vegetables a year and nearly 3 tonnes of tilapia (or 7.5 tonnes of African catfish). This system is designed for smaller communities.

1 tonne
of vegetables per year

3 tonnes
of tilapia a year

You will see a significant difference if you compare yields and water consumption with conventional agriculture. The COMMUNITYFARM aquaponic system consumes ten times less water and grows up to four times more crops, 20 to 30 % faster than a standard soil bed of a comparable size. In addition, this system considerably reduces the risk of plant infestation with soil-borne pests, such as snails.

up to 95 % saving

4 times more

30 % faster

CERTIFICATES AND STANDARDS

CE Declaration of Conformity
Certified for contact with drinking water

Produced in:

AQUAPONICS FARM ASSOCIATION
QUALITY CONTROL

COMMUNITYFARM

APPLICATION/ IMPLEMENTATION

COMMUNITYFARM is a productive aquaponic farm suitable for:

Smaller communities
(gardeners´ associations, environment enthusiasts)

Garden centres and hardware stores

Educational facilities and research institutes
(primary and secondary schools, universities)

Housing estate developers, investors, and others

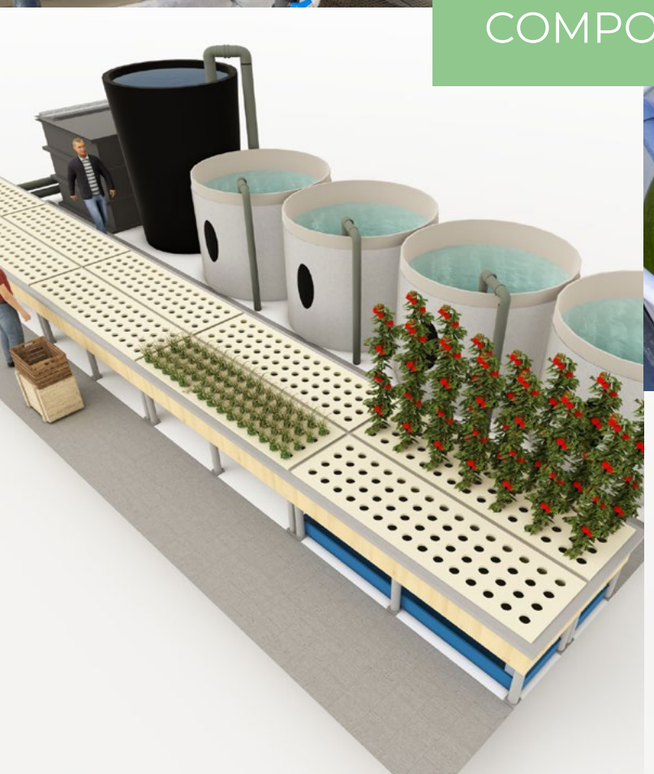
COMMUNITYFARM

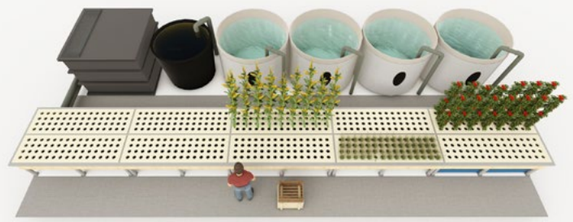
COMPONENTS

– **10 plant floats** (2.7 x 0.7 m),
with 56 plant positions each (560 positions in total).
– **Structure**/ supports under the floats
– **4 fish rearing tanks**
(height 1.5 m, diameter 2 m, conical shape for easy transport,
usable volume of about 3.5 m³, 15 m³ water in total)
– **Biofilter** (height 2.5 m, diameter 2 m)
– **Filtration medium** (3 m³)
– **Slot filter + a storage tank with a pump**
2 x 0.7 x 0.7 m (1 m³)
– **Water pump** (with an output of 30 m³ with regulation),
one main pump and one reserve pump
– **Immersed UV emitter** 90 W (2 units)
– **Instantaneous water heater** 3,000 W
– **Compressor**200 W (2 units) + aeration elements
for the fish tanks and the biofilter.

All interconnected by a pipeline with valves and slides.
The storage tank is sunk 0.4 m under ground.
The installation area is 5 x 14 m.

COMMUNITYFARM
COMPONENTS





COMMUNITYFARM

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