



MIILKIIA

MIILKIIA AGRICULTURE

CONTENTS



■ Company Profile	01
■ Sphere of Business	02

INDEPENDENT SYSTEM

1. ■ Pineapple Growing Tower	03
2. ■ Rainfall Hydroponics of Petal Column	05
3. ■ Dutch Barrel Cultivation System	07
4. ■ Hydroponic System and Racks	09
5. ■ NFT Hydroponic System	12
6. ■ Rolling Bench	14
7. ■ Independent vertical Zipper Hydroponic System	17

PART TWO

9. ■ Channel Engineering	19
10. ■ Aquaponics	22

COMPANY PROFILE

Miilkiia Agriculture, the predecessor plastic factory was founded in 2003. It is a high-tech modern enterprise specializing in designing, manufacturing and providing complete agricultural facility solutions for customers.

Products include greenhouses, hydroponic systems, irrigation systems, vertical planting racks, home smart systems, rolling benches and other accessories.

Miilkiia is driven by a vision of a greener, more efficient future for agriculture. Our black and white hydroponic channels, paired with the thermal insulation quilt, are engineered to deliver superior performance in greenhouse settings. We are dedicated to supporting farmers and growers with the tools to ensure year-round growth. Your success is our priority.





Led
Spectrum



Seedling
Cultivation



Variety of
Planting



Product
Development

Sphere of Business



Internet
System



Smart
Agriculture



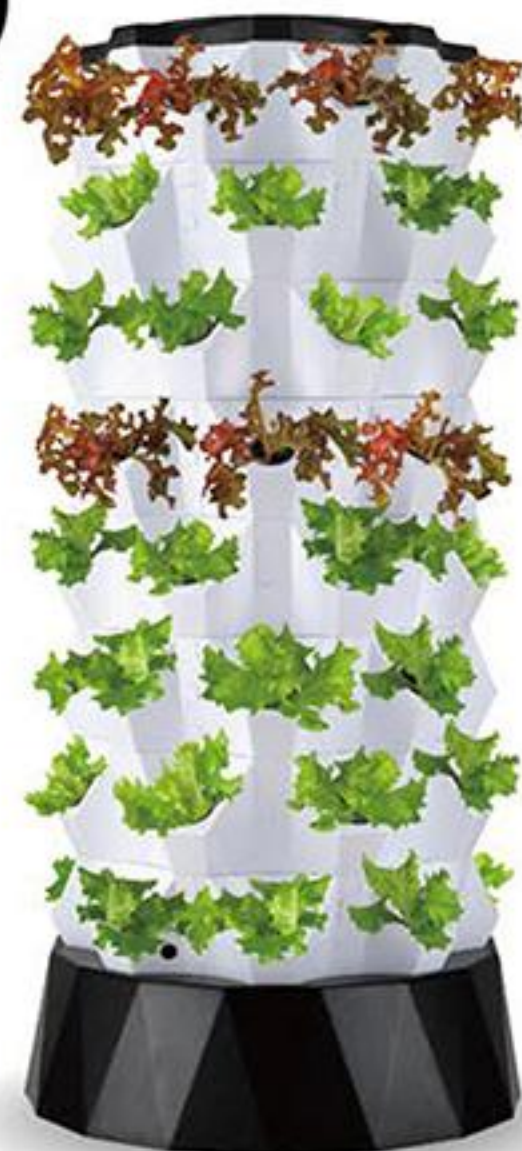
Environmental
Control
Equipment



Auxiliary
Materials

PINEAPPLE GROWING TOWER

BASIC



PRODUCT SPECIFICATION

6 Layers	670mm (Dia) * 1100mm (H)
8 Layers	670mm (Dia) * 1400mm (H)
10 Layers	670mm (Dia) * 1700mm (H)



6 LAYERS

8 LAYERS

10 LAYERS

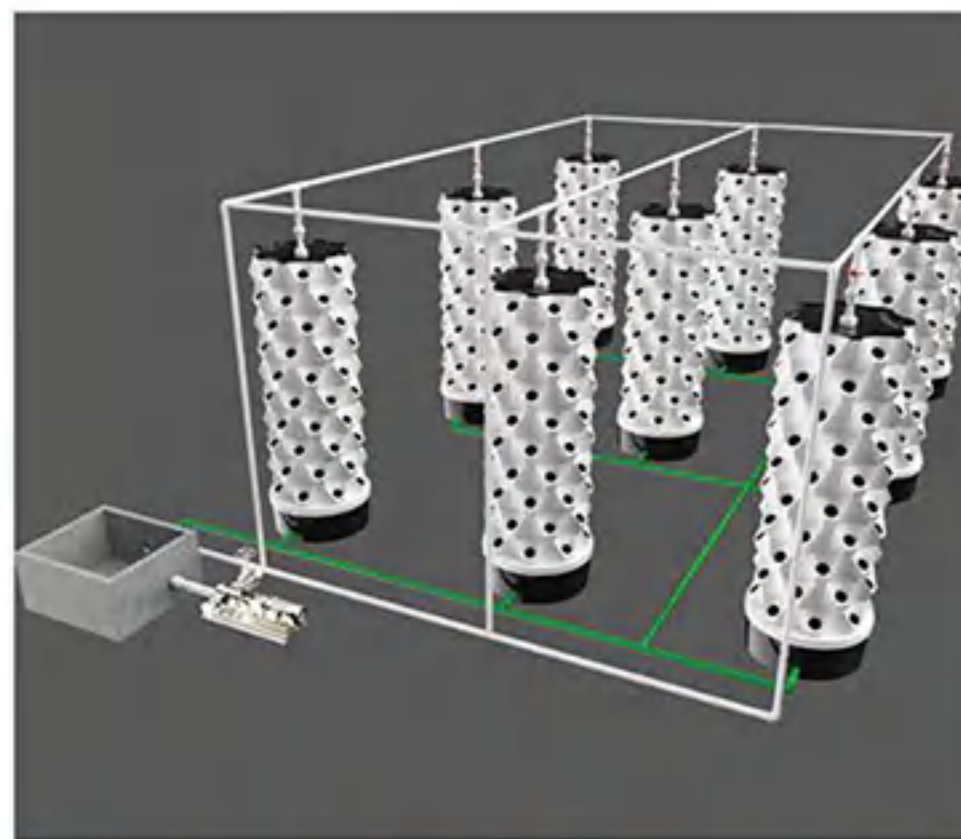
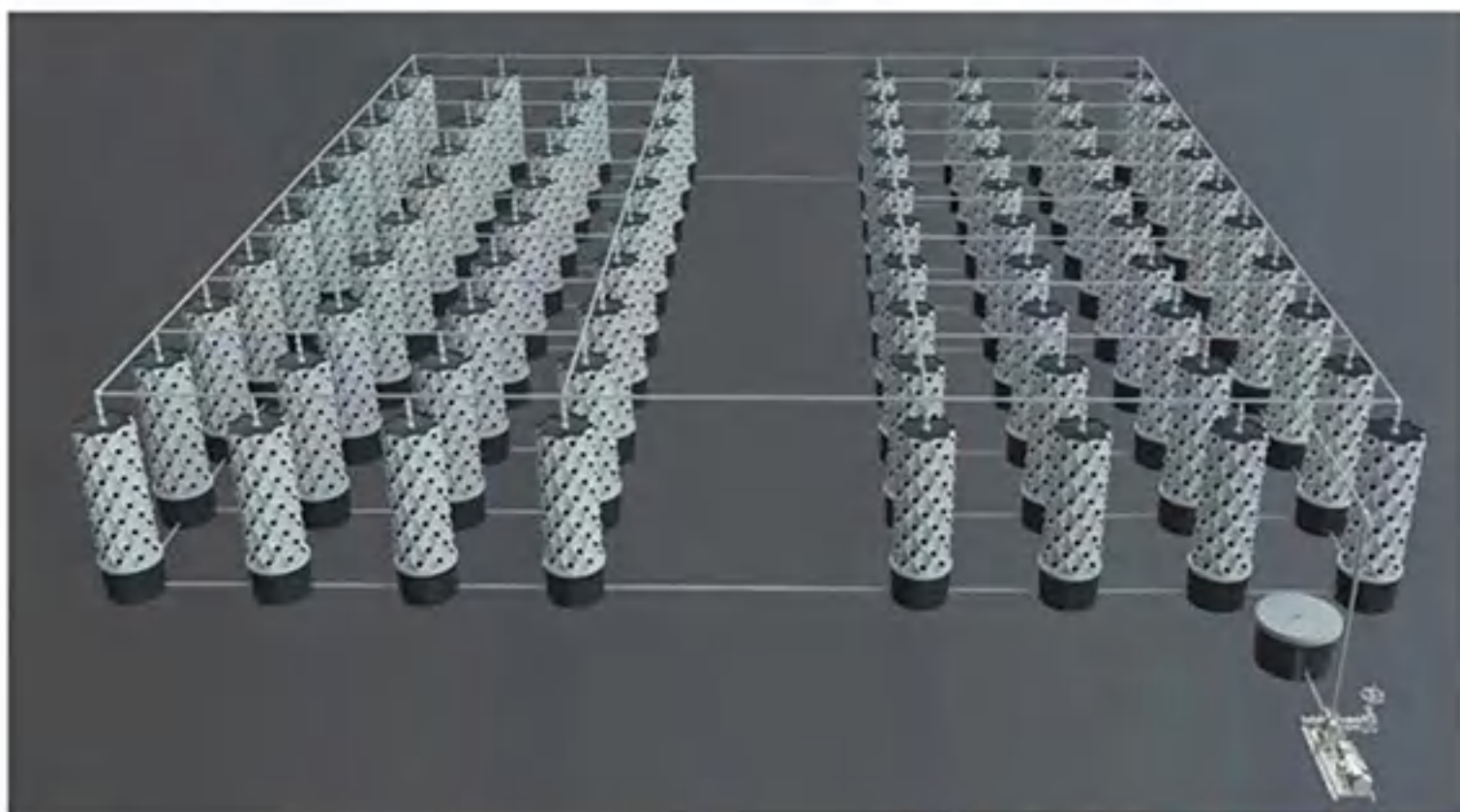
PARAMETER SPECIFICATION

Name of product	Pineapple Growing Tower (Basic)
Material	Environmentally Friendly Plastic
Package Size(cm)	68(Dia) * 35(H) / 68(Dia) * 44(H) / 68(Dia) * 44(H)
Water pump voltage	110-240V, 2500L/H, 15W
Planting	48/64/80
Water tank	30L
Product color	White / Yellow / Green
Customized	The size can be customized according to your needs

Pineapple Growing Tower is a fixed device composed of special cultivation bowls. The column can not only make full use of the limited cultivation space but also satisfy different layout forms to create a beautiful three-dimensional agricultural landscape effect.

PINEAPPLE GROWING TOWER PROJECT DISPLAY

Pineapple Growing Tower is a fixed device composed of special cultivation bowls. The column can not only make full use of the limited cultivation space but also satisfy different layout forms to create a beautiful three-dimensional agricultural landscape effect.



RAINFALL HYDROPONICS OF PETAL COLUMN



Simple Combination



Soilless Culture



Food Grade



Natural Lighting



Indoor USE



Petal column rain water culture facility is a fixed device composed of a special cultivation bowl Four-petal planting basin is equipped with water culture cup The column can not only make full use of the Limited cultivation space, but also satisfy different layout forms to create a beautiful three-dimensional agricultural landscape effect.

PUMP SPECIFICATION

Output	DC 24V
Input	AC 100~240V
Power	10W

45L 450*450*300mm



PRODUCT SPECIFICATION

Product name	Vertical hydroponics system
Product size	40.5*40.5*132cm
Package size	50*50*41cm
Product material	Food PP
Layers	8/10/ layers
Number of planting holes in each layer	5
Product color	White/Grey
Weight	7KG



Grow Light Option



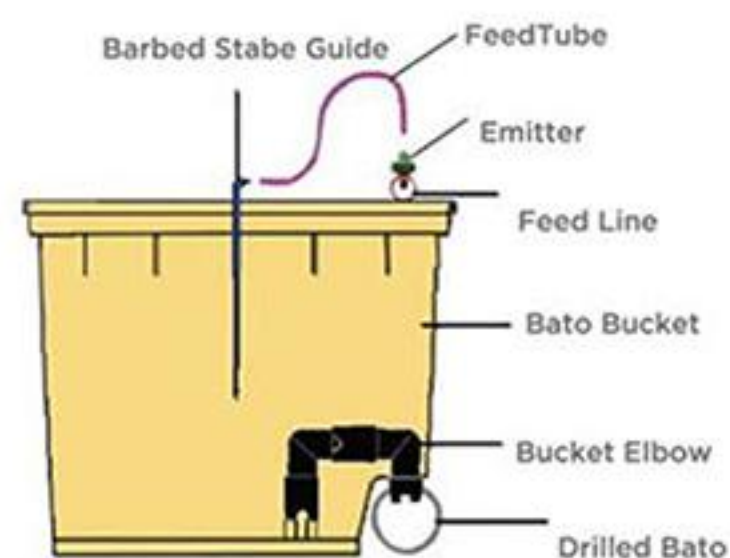
8/10/12 LAYERS

RAINFALL HYDROPONICS PROJECT DISPLAY

Rainfall Hydroponics is a fixed device composed of special cultivation bowls. The column can not only make full use of the limited cultivation space but also satisfy different layout forms to create a beautiful three-dimensional agricultural landscape effect.



DUTCH BUCKET



PRODUCT SPECIFICATION

Size(L*W*H):	30x25x23cm
Color	Yellow, White or Black
With Drain Elbow	Yes
Usage	Hydroponic planting vegetables or garden use
Material	PP
Advantage	Easy to installation and environment friendly
Customized	The color can be customized according to your need

Used for planting flowers, salads, vegetables, herbs, potatoes, fruits, etc

AVAILABLE IN THREE COLORS



DUTCH BARREL CULTIVATION PROJECT DISPLAY

Dutch pail has been widely used in global modern water cultivation farm that can improve productive efficiency and food security.



PVC PIPE HYDROPONIC SYSTEM

By definition , hydroponics is a method of growing plants in a water-based , nutrient-rich solution. Hydroponics does not use soil , but uses inert media (such as perlite , rock wool , coconut skin) to support the root system . The basic premise of hydroponics is that the roots of the plant are in direct contact with the nutrient solution and can also be exposed to oxygen , which is essential for normal growth .



95*45*100cm



95*45*100cm



98*50*103cm



98*55*72cm

LAYERED PLANTING FRAME

Hydroponic systems are now widely used in Greenhouses. This is an agricultural system that uses nutrient-rich water instead of soil for plant nutrition. It not only does not require natural precipitation or fertile land to function effectively, but also provides people living in arid areas with a means to grow food and make profits for them.

At the same time, the technology can be used for rooftop agriculture, so it is very useful in areas with limited space.



A variety of specifications



1270*650*1308
1530*650*1308



1270*650*1756
1530*650*1756



1270*650*2200
1530*650*2200



* ABS Tray+Galvanized Pipe

LAYERED PLANTING FRAME



HYDROPONIC SYSTEM



Size (LxWxH) 5.0x0.6x1.5m
Materials SUS&Food grade PVC
Custom Available

The horizontal NFT system is the most popular hydroponic structure in vegetable hydroponic agriculture at present. It is suitable for users with large planting area, and is famous for its simple equipment construction, easy management, less investment cost and even plant growth. The small area of the user can choose to build the vertical NFT, which can effectively use the vertical space, effectively reduce the cost of equipment and the cost of the personnel management and increase the amount of the yield by about 30 percent.



Size (LxWxH) 5.0x1.6x0.7m
Materials SUS&Food grade PVC
Custom Available



Simple Combination



Soilless Culture



Non-toxic



Circular watering



Optional auto water feed



Grow bigger and faster yield



Saves water space, and fertilizers



Used for planting flowers, salads, vegetables, herbs, etc



Flowers



Caraway

NFT HYDROPONIC SYSTEM

NFT is a hydroponic technique. The root system of the plant grows in a plastic tube or a fixed channel, and the nutrient solution is continuously circulation provide the necessary nutrients and water to the plant through the channel.

NFT is most commonly used for growing smaller quick growing plants like different types of lettuce. It is quite popular with home hydroponic growers. Along with growing lettuce, some commercial growers also grow different types of herbs and baby greens.



Size (LxWxH) 122x122x150cm
Materials Aluminum+Food grade PVC
Custom Available



Size (LxWxH) 130*35*200cm
Materials Aluminum+Food grade PVC
Custom Available



ROLLING BENCH



Outside Dimensions

1320*720*650 MM (2'x4')
 1320*1320*650 MM (4'x4')
 1930*1015*650 MM (3'x6')
 1930*1320*650 MM (4'x6')
 2540*1323*650 MM (4'x8')

Other parameters

Material: Galvanized Steel

Wheels: 4*Fixed Caster ;
 2*Universal Wheel

Weight: 17.7 / 17 / 22.5 / 24 / 30KG

Pipe: 4 PCS

Maximum Load: 300 KG



nested structure



4*Fixed Caster / 2*Universal Wheel



ROLLING BENCH

Product Parameter

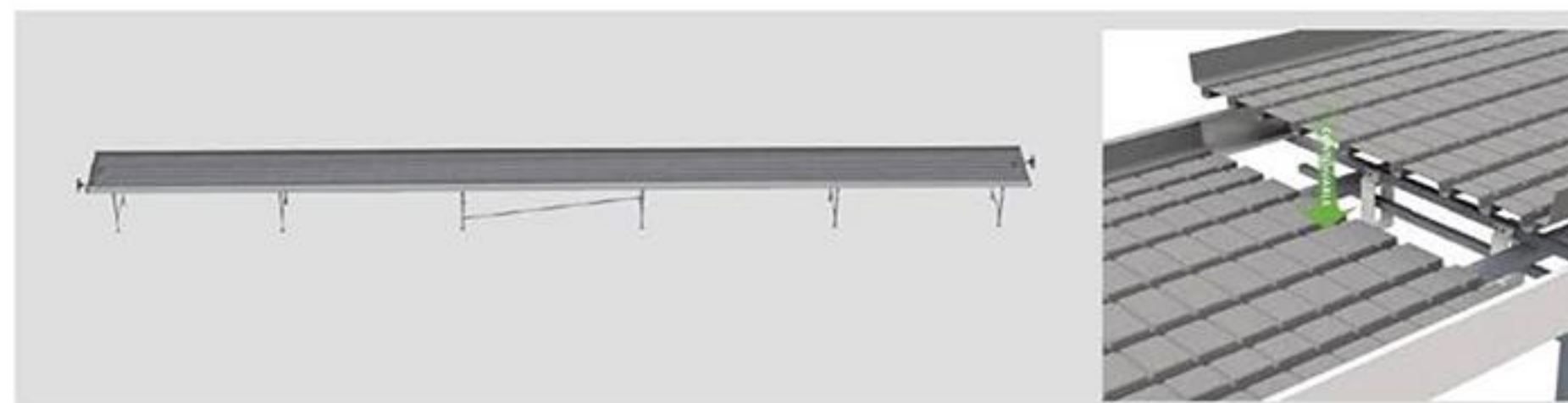
Flood Tray Size: 4X8X0.35 FT or Customized

Flood Tray's Material: ABS Material Formed

Bench Leg' Material: Galvanized Steel

Total Height: 2.7 FT or Customized

Frame/Vertical Bar: Aluminum Alloy



MULTI-TIER MOVABLE RACK SYSTEM

Ruinuo works with indoor farmers to try to maximize their profit potential by providing multifunctional vertical planting systems. These systems help increase crop production capacity, reduce energy inefficiency and increase harvesting efficiency.

Using our mobile pallet racking system, we can eliminate unnecessary aisles and avoid wasting heads-space, thereby increasing your production capacity to 100%.

Length _(mm)	Width _(mm)	Height _(mm)	Layers	Load-bearing	Material
2440	1200	2500	2	2~3T	ABS Tray Galvanized Pipe
2440	1200	3500	3	2~3T	ABS Tray Galvanized Pipe





Simple
Combination



Soilless Culture



Circular watering



Optional auto
water feed



Grow bigger
and faster yield



Saves water space,
and fertilizers

INDEPENDENT VERTICAL ZIPPER HYDROPONIC SYSTEM

It occupies smallspace,can be easily eauipped with flexible assembled. It could be hung onany-wallwindow,balcony orfence.This planting model can save water resource, and effectively save energy and be easily maintained.

Column water cultivation svstem is the best choice for urban people experiencing the pleasure of planting and taste healthy vegetables cultivated by themselves. Meanwhile,it couldbeused for planting landscape plants to reduce formaldehyde and increase O2, and decreasetemperature at the sametime.It also can improve home decoration and make it more beautiful.

STRUCTURE

The zip planting pipe is usually made of high quality PVC material, and the plant is fixed internal-ly with transplanting sponge.Thefiltercottoncanensurethatthe plantcan haveenough nutrient solution and water needed for growth.



Black Sponges



PVC TUBE

Height : 2.5M/Custom



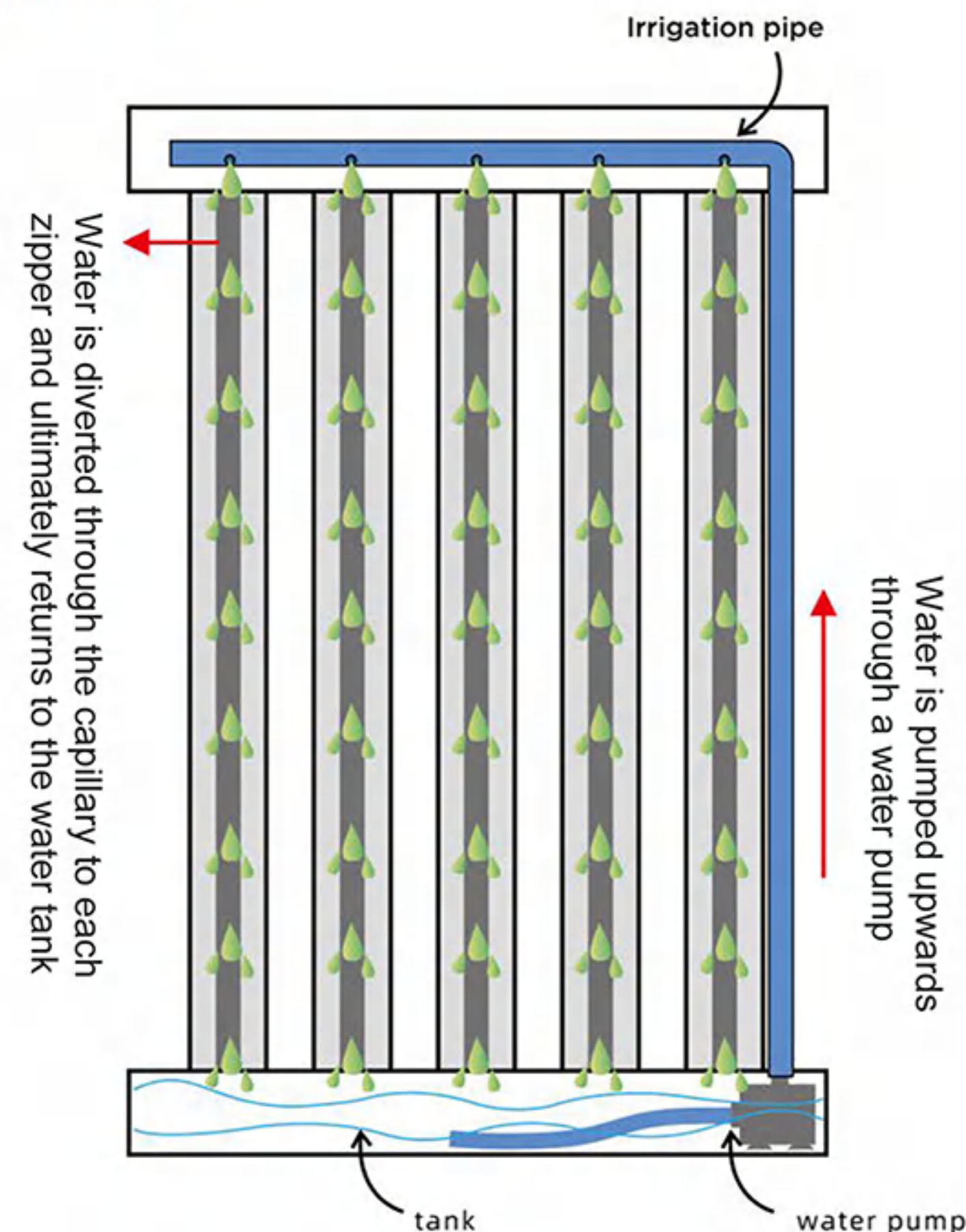
SPONGES

Color : Black/White/Blue



HIGH QUALITY FILTER COTTON

Color : White / Black



High efficient natural spectrum, long-term lighting makes plants grow quickly.

INDEPENDENT VERTICAL ZIPPER HYDROPONIC SYSTEM

AVAILABLE PRODUCTS

Can be customized according to customer needs



16 strips zip system

Size (LxWxH)	128x50x250cm
Materials	Food grade PVC
Custome	Available



12 strips zip system

Size (LxWxH)	181x51x205cm
Materials	Food grade PVC
Custome	Available



4 strips zip system

Size (LxWxH)	80x70x160cm
Materials	Food grade PVC
Custome	Available



Customized zip system

Size (LxWxH)	207x107.5x270cm
Materials	Food grade PVC
Custome	Available



5 strips zip system

Size (LxWxH)	75x18x106cm
Materials	Food grade PVC
Custome	Available

Part Two

Channel Engineering

100x50

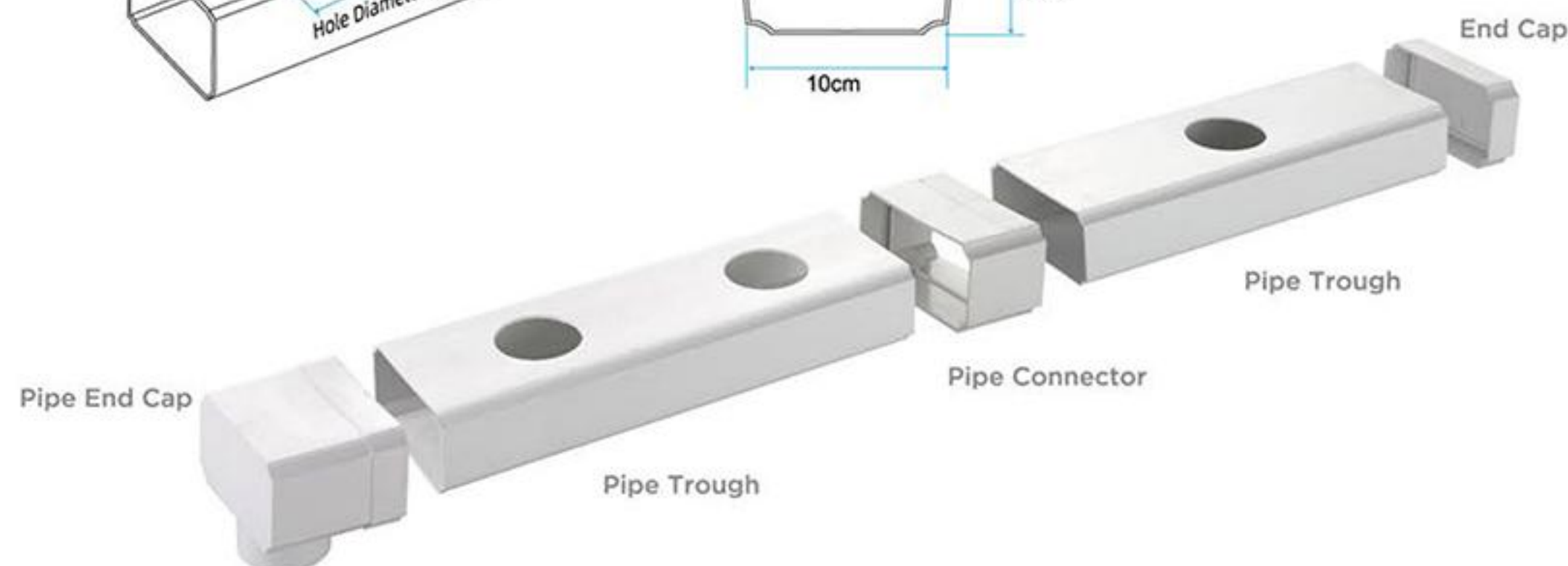
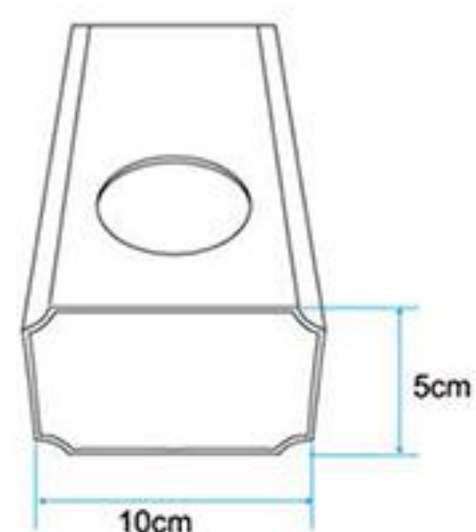
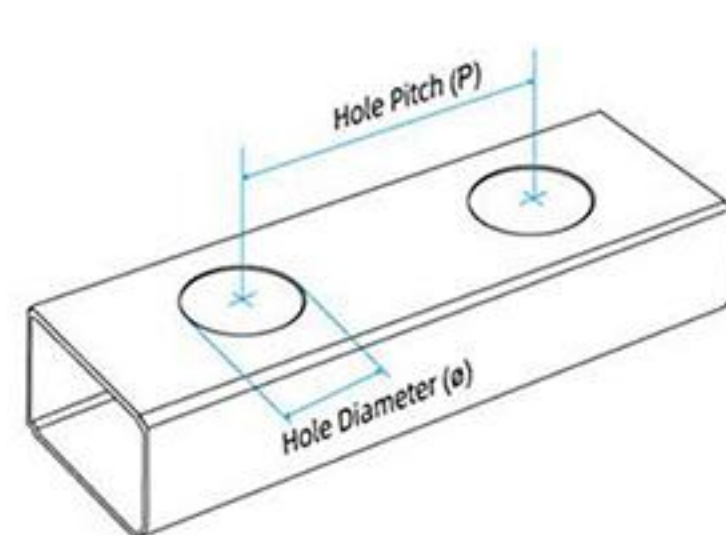
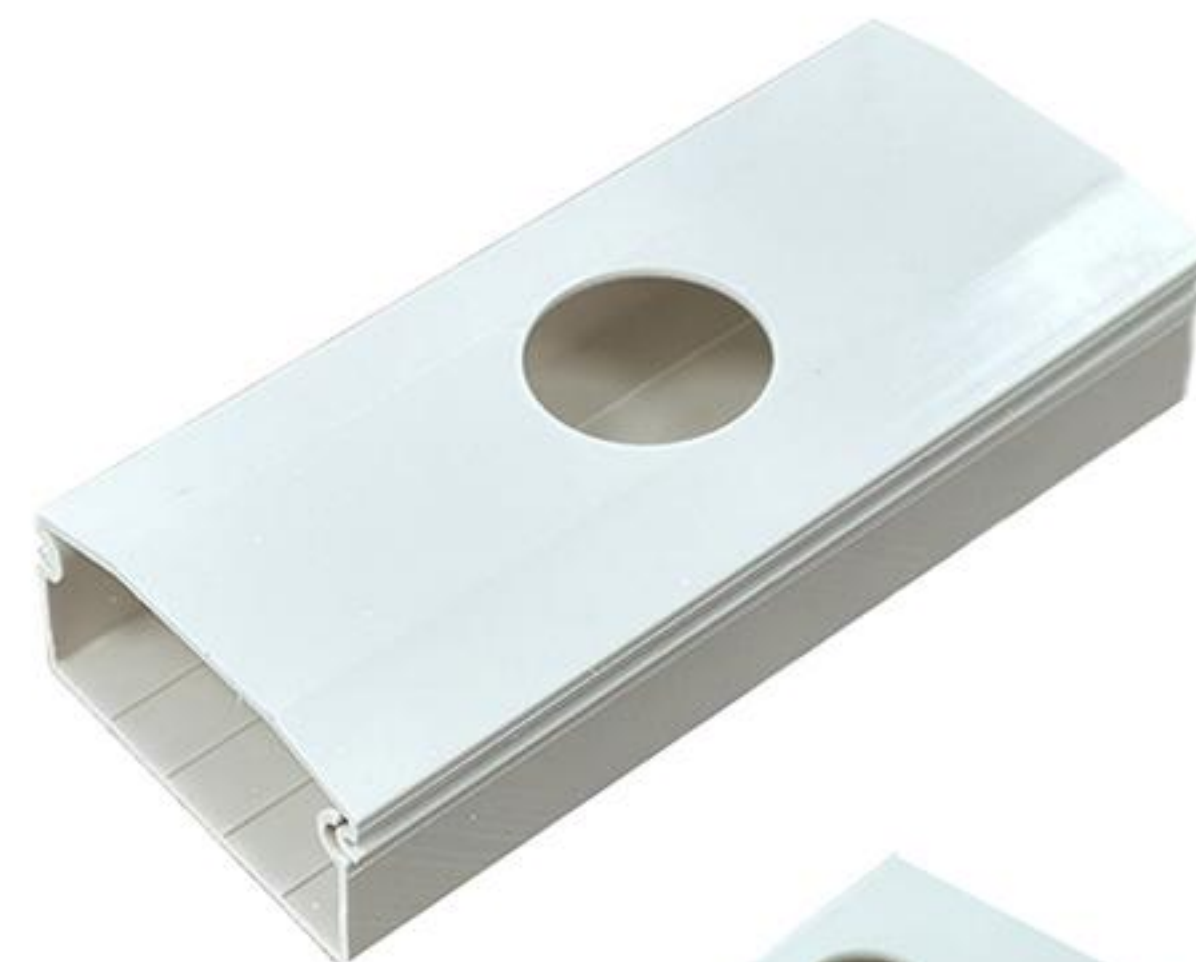
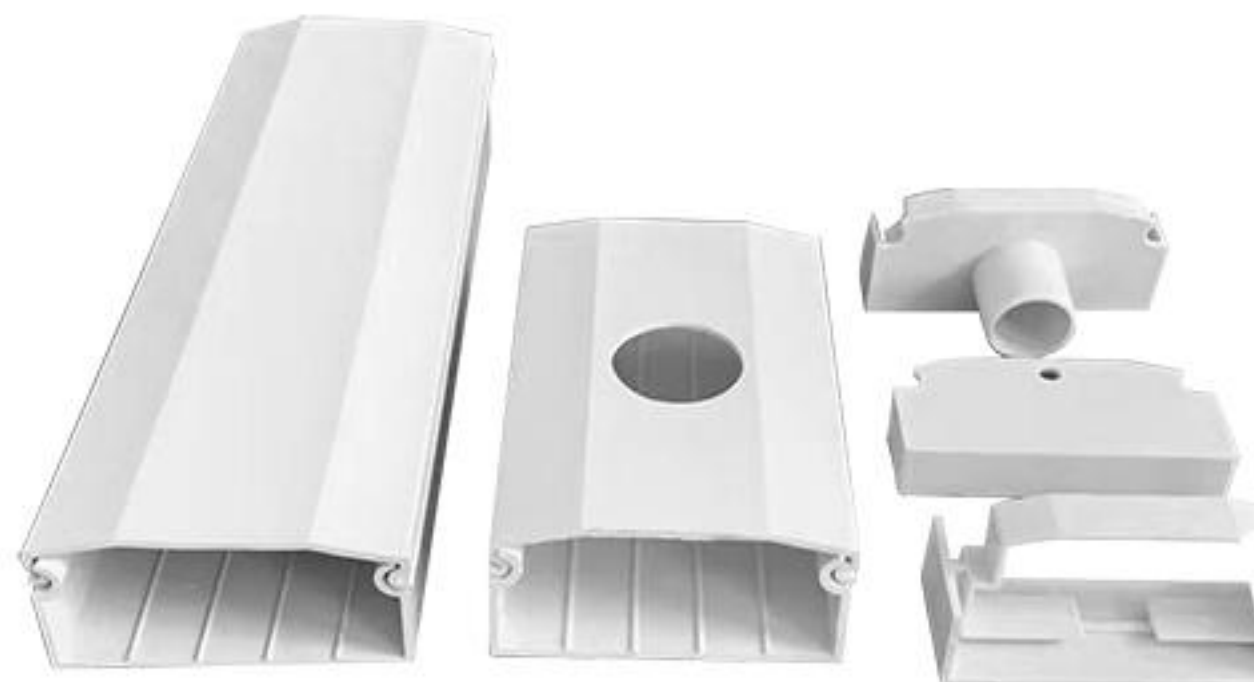
PVC NFT CHANNEL

Free Combination, Build quickly

PRODUCT SPECIFICATION

Size (WxH)	10x5cm
Diameter (ø)	30/40/50mm or customized
Pitch (P)	150-200mm or customized
Material	PVC-U
Crop Type	Lettuce/Leafy/Etc

• Customizable length



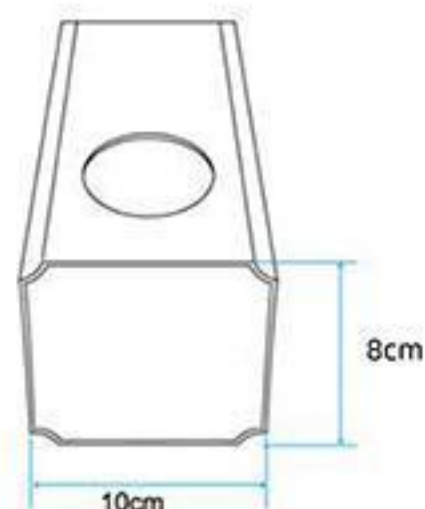
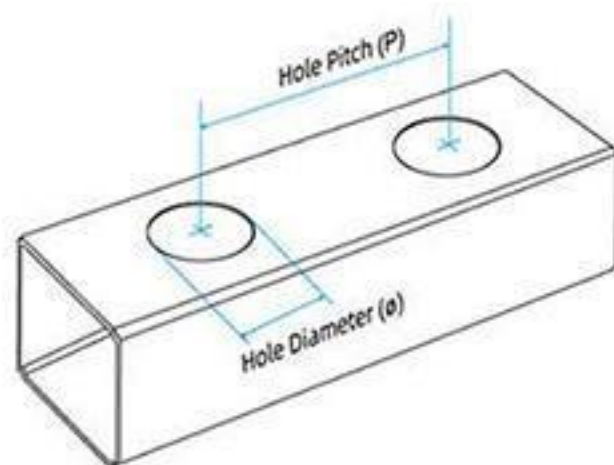
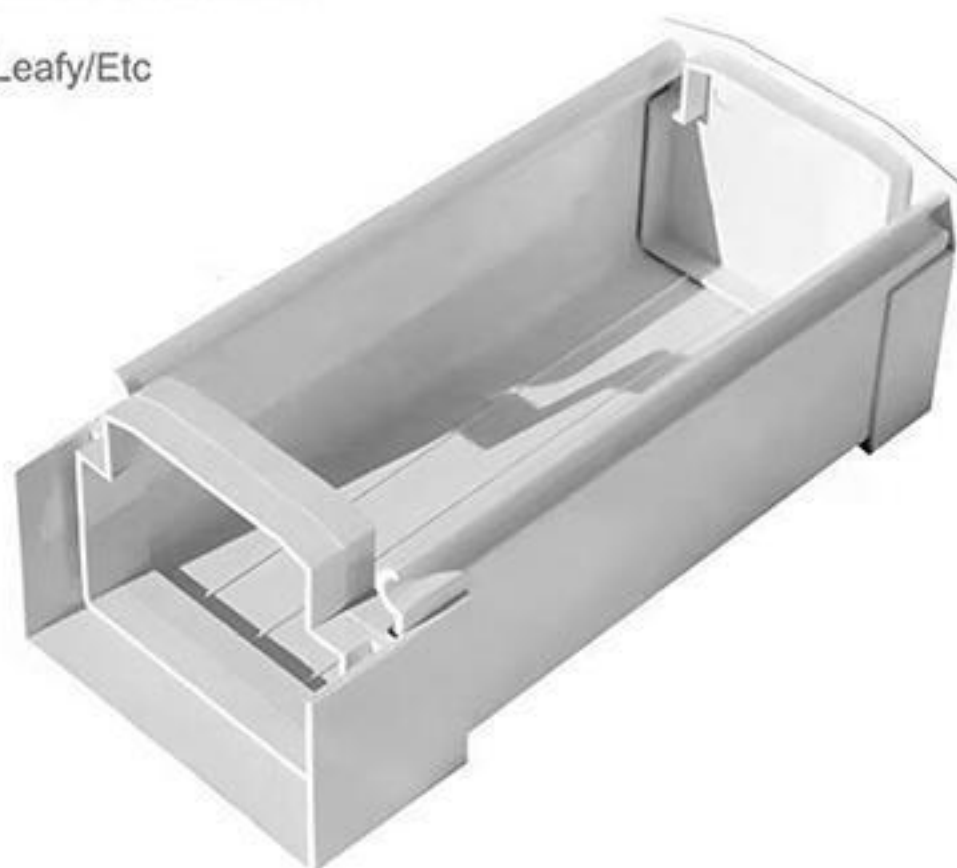
Channel Engineering

100x80 PVC NFT CHANNEL

PRODUCT SPECIFICATION

Size (WxH)	10x8cm
Diameter (ø)	30/40/50mm or customized
Pitch (P)	150-200mm or customized
Material	PVC-U
Crop Type	Lettuce/Leafy/Etc

* Customizable length

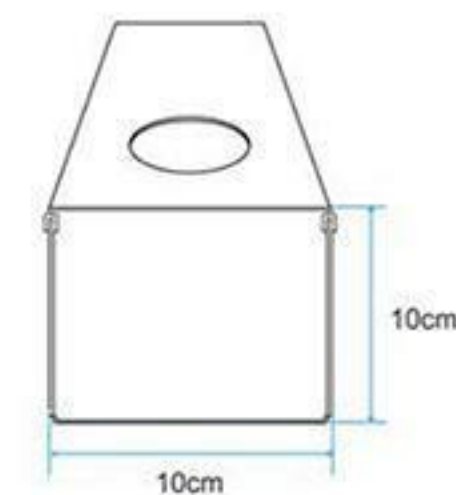
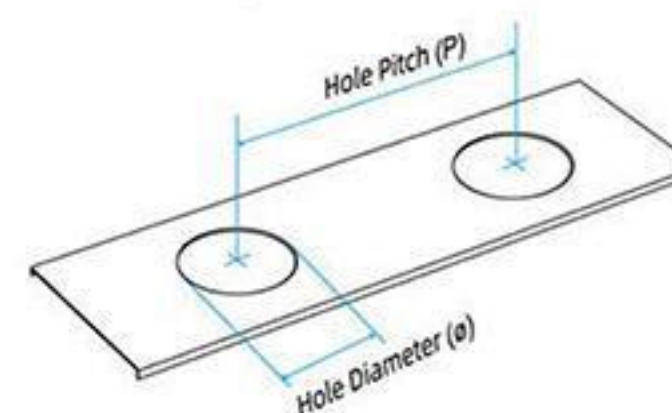


100x100 PVC NFT CHANNEL

PRODUCT SPECIFICATION

Size (WxH)	10x10cm
Diameter (ø)	30/40/50mm or customized
Pitch (P)	150-200mm or customized
Material	PVC-U
Crop Type	Lettuce/Leafy/Etc

* Customizable length



Free
Combination



Soilless
Culture



Natural
Lighting



Non-toxic



Environmentally
Friendly

NFT CHANNEL CASE APPLICATION



AQUAPONICS

How to achieve aquaponics
Various cultivation modes meet different needs



1

Suitable for growing all kinds of vegetables, planted in the matrix such as pottery. The substrate acts as a biochemical filter and solid state. Nitrifying bacteria grow on the surface of the substrate and are responsible for biochemical filtration and solid fertilizer filtration.



2

Suitable for leaf and some fruit, vegetables. Vegetables are grown on water tanks that are held up by floating materials such as foam. The roots of the vegetable extend down through the holes into the water to absorb nutrients.



3

Using PVC pipe as a planting carrier, nutrient water is pumped into the PVC pipe. The plants are fixed by the planting basket and planted in the opening above the PVC pipe, allowing their roots to absorb water and absorb nutrients. This method is mainly used for leafy vegetables.



4

The water for fish cultivation is sprayed directly into the root system of the plant after atomizing to achieve the purpose of nutrient absorption. This method is also mainly used for leafy vegetables. Before spraying, the water needs to be fully filtered and purified to avoid clogging the spray device.

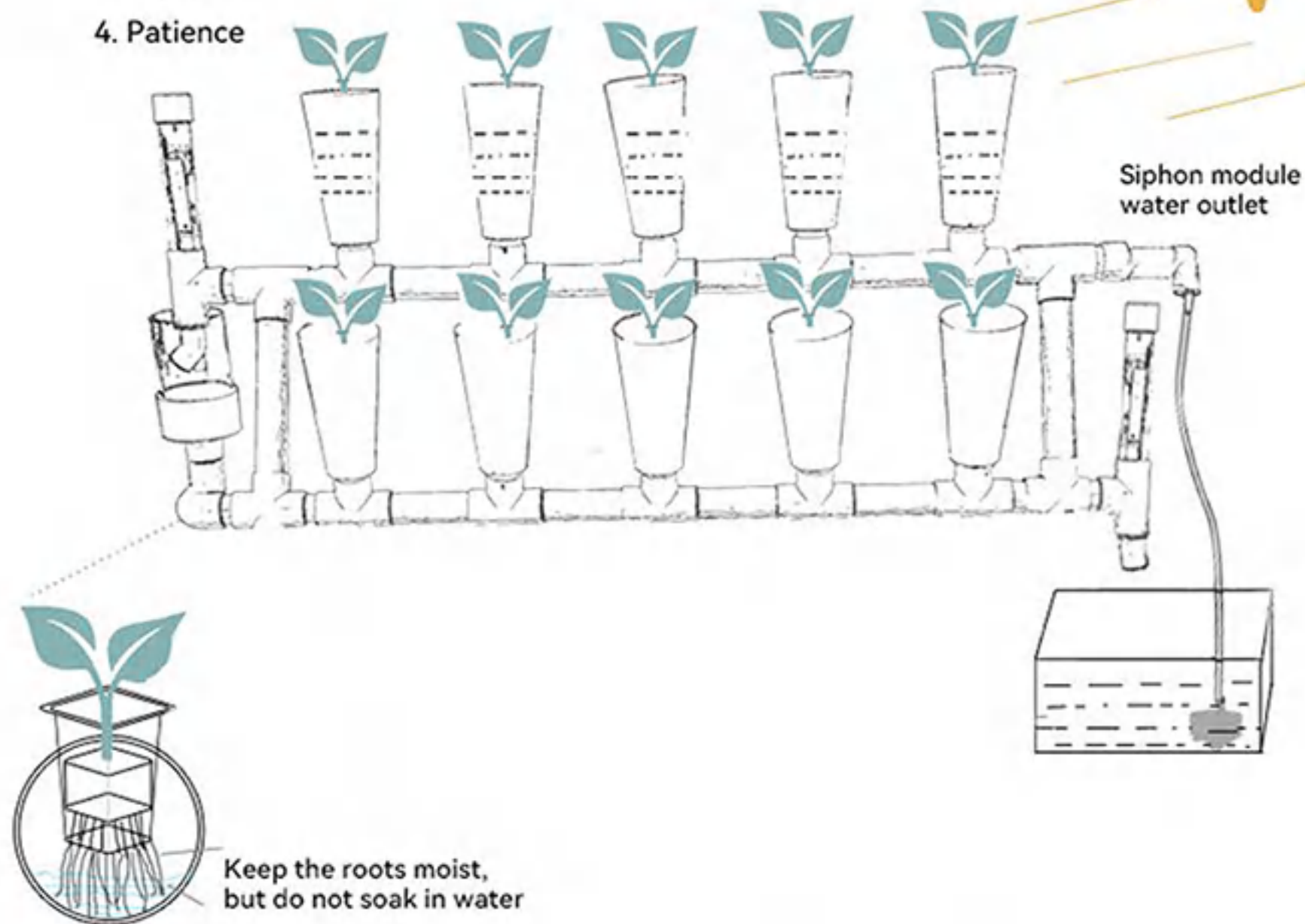
AQUAPONICS

Siphon System - Tide planting cup

Four necessary conditions:

1. Lighting (or use suitable plant lamps instead)
2. Nutritional composition
3. Oxygen
4. Patience

1. More than 4 hours of light per day



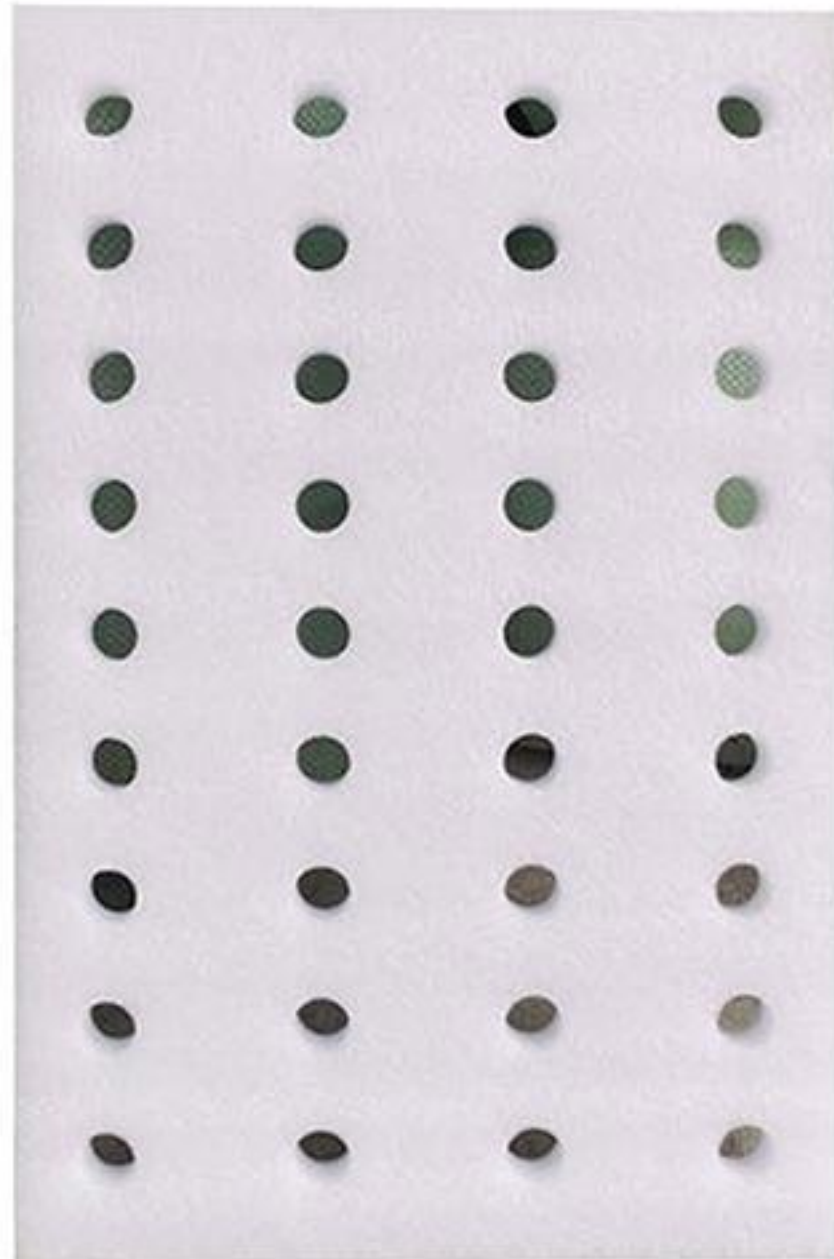
Working principle: Electric water supply through a water pump, drainage using the siphon principle (the flow rate of the water supply is less than the flow rate of the drainage water)



AQUAPONICS

Siphon System - Tide planting cup





X36



X36

Large quantity supports customization

Size: 36cm * 56cm * 3cm (thickness)

One set includes: 36 holes (25mm aperture)+baskets (36 pieces)+sponges (36 pieces)

Characteristics: Corrosion resistance

Application scenario: Home gardening



Miilkiia Agriculture



Email: info@miilkiiagrow.com

Whatsapp & Tel: +86 15968966470

Website: <https://www.miilkiiagrow.com>



Miilkiia Grow



Miilkiia Agriculture



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