Hydroponic Supplies

- NFT Hydroponic System
- Hydroponic Fodder System
- Hydroponic Container
- Ebb and Flow Hydroponic System
- Dutch Bucket System
- DWC Hydroponic System
- Aeroponics System
- Small Hydroponic System
- Hydroponic Net Pot
- Plant Trough System
- Green Wall System

Horticulture and Agriculture Supplies
Address: 1F, Building# 1032, 999 Wangqiao Road, 201201 Shanghai China
Tel: 0086 137 6492 6104 Email: info@jychinasourcing.com Contact: Shirley Jiang

1. NFT Hydroponic System

NFT hydroponic system is pipeline cultivation, this is a form of soilless culture, mainly based on hydroponic leaf vegetables. The vegetables produced in this mode are clean, pollution-free, and can be picked and eaten directly.

This pipeline cultivation include table type NFT hydroponic system, vertical hydroponic system, zipper pipeline hydroponic system.

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1. NFT Hydroponic System
1.1 Hydroponic Table

The fixed table type NFT hydroponic system is widely used for lettuce, herbs, leaf vegetables, strawberries.

The standard size of this system is 1.6X5.0m with 8PCS of 100X50mm NFT pipes, although the rack is fixed but the gullies can be take out from rack easily, very convenience for your management.

You will get at least 200 plants from this system in every harvest season.

Customized size is available

Size:5.0mX1.6mX0.7m(L,W,H)

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1. NFT Hydroponic System
1.2 vertical hydroponic system

- A-type and T-type hydroponic system can take the need of lighting to plants, also maximize the utilization of land area, it is a kind of high efficiency hydroponic system.

The standard system have 5 layer, each pipe is 5m length, you can harvest at least 250 plants by this system in every harvest season.

Customized size is available

A-type size: 5.0mX0.6mX1.5m(L,W,H)

T-type size: 5.0mX0.3mX2.0(L,W,H)

* H-type and I-type multi-floor hydroponic system used in large commercial hydroponic system, it can increase the harvest three or four times compared to the table type NFT system.

Customized size is available

H-type Size:2.4mX0.85mX2.0m(L,W,H)

I-type size:5.0mX1.2mX1.6m(L,W,H)

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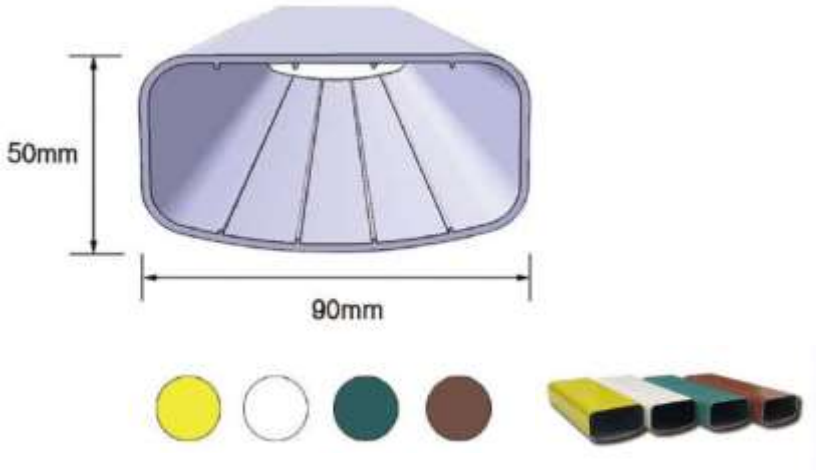
1. NFT Hydroponic System
1.3 Hydroponic Pipe

- Colorful Shading NFT hydroponic pipe

With the size of 90mm * 50mm (Inner Black Color)

Shading NFT hydroponic pipe made by food grade UPVC material, inner black color have superior ability on light shading, avoid algae growing, good for roots growing, outer color can be white/ yellow/ green/ brown, good appearance, it can be used for leaf vegetables and seedlings

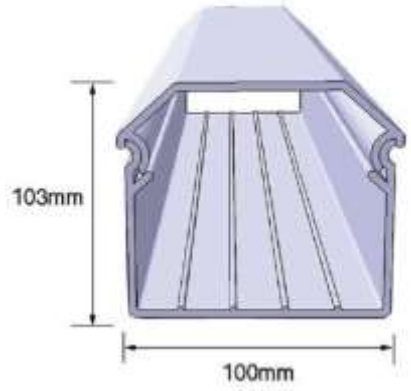


- Openable Shading NFT hydroponic pipe

With the size of 100mm * 103mm (Inner Black Color)

Openable NFT hydroponic pipe made by food grade UPVC material, inner black color have superior ability on sunlight shading, avoid algae growing, outer white color can reflect sunlight, can lower the inner temperature, good for roots growing, lid openable, convenience for cleaning.

It can be used for leaf vegetables or strawberry or other plants with bigger roots.



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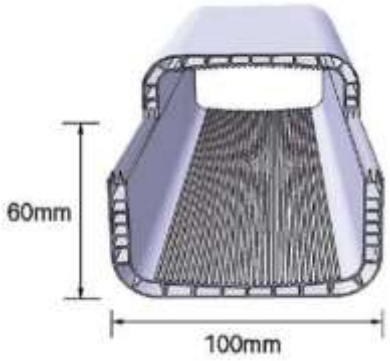
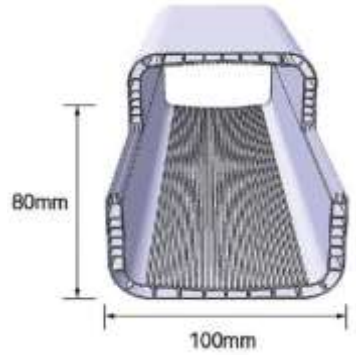
1. NFT Hydroponic System
1.3 Hydroponic Pipe

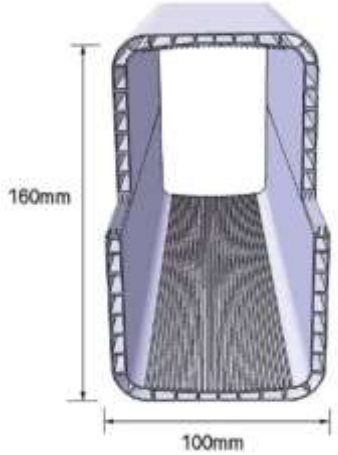
- Hollow Shading and Insulation NFT hydroponic pipe

With size of 100mm*60mm / 100mm*80mm / 100mm*160mm (Inner Black Color)

- Sunlight shading and insulation hydroponic NFT pipe made by food grade UPVC material, sizes include 100X60100X60 /100X 80/100X160.Inner Black Color have superior ability on sunlight shading, avoid algae growing, hollow structure have superior ability on insulation, save energy, good for roots, lid openable, convenience for clean and harvest.
- It can be used for leaf vegetables or strawberry or other plants with bigger roots such as cucumber and tomatoes.







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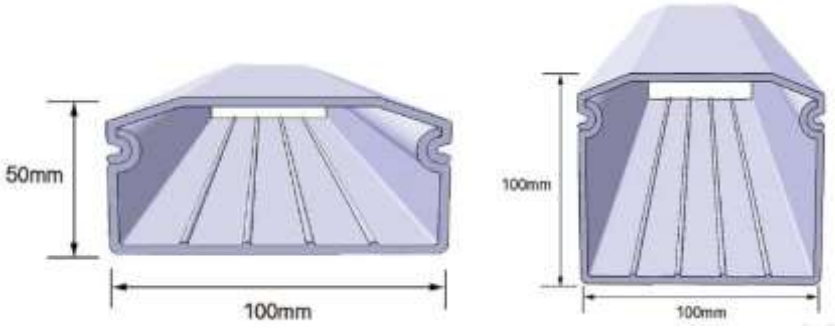
1. NFT Hydroponic System
1.3 Hydroponic Pipe

- Openable White NFT hydroponic pipe

with the size of 100mm*50mm / 100mm*100mm

White color openable NFT pipe made by food grade UPVC material has long service life.

This type NFT pipe is convenient for clean and harvest, it can be used for most vegetables growing.

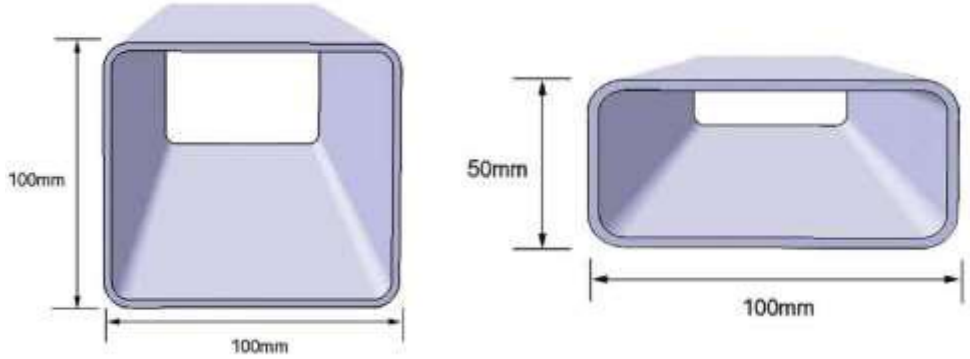


- Closed White NFT hydroponic pipe

with the size of 100mm*50mm / 100mm*100mm

White color closed NFT pipe made by food grade UPVC material has long service life.

Closed NFT pipe can apply to higher water level, it can be used for leaf vegetables / strawberries / cucumber etc or DWC system



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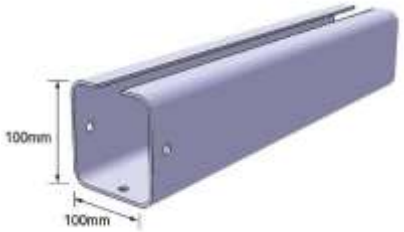
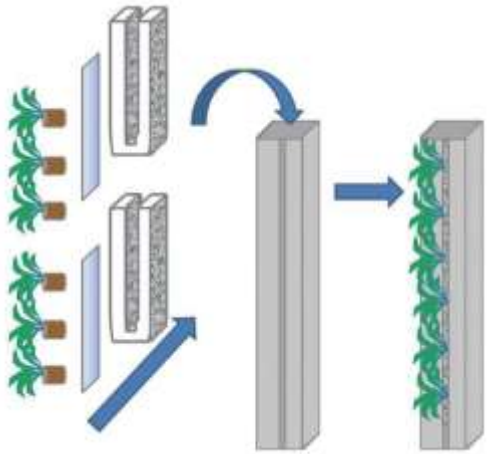
1. NFT Hydroponic System
1.4 Zipper Pipe Hydroponic System

Zipper pipe hydroponic system occupies small space, this system can be easily equipped with flexible assembled. It could be hung on any wall, window, balcony or fence. This cultivation can save water, and effectively save energy and be easily maintained.

Column hydroponic system is the best choice for urban people experiencing the pleasure of cultivation and tasting healthy vegetables cultivated by themselves. Meanwhile, it could be used for landscape plants to reduce formaldehyde and increase O2, and decrease temperature in the same time. It also can improve gardening decoration and make it more beautiful.





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1. NFT Hydroponic System
1.5 Hydroponic Tower

- Aeroponic Tower System

* Hanging Tower System

- Spiral Tower System

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2. Hydroponic Net Pot

•Use steps:

Hydroponic net pots are specially designed with buckles, convenient assembly and disassem[illegible] ft[illegible]
seedling planting with the use of two-component nutritional clod and can also be used togethe[illegible]e

•Specification:

Item number		Top Outter(MM)	Top Inner(MM)	Height(MM)
ENP001		300 Dia for lid	130mm dia for mesh	110
ENC0111A		60	50	55
ENC0111B		69	50	70
ENC0118		85	60	80
ENC0112		34	21	35
ENC0113		46	32	35
ENC0114		49	32	35
ENC0115		112	98	81
ENC0116		57	43	35
ENC0117		57	42	35
ENW0112		87	73	69
ENW0113		57	48	51
ENW0114		45	31	47
ENC013		17	15	12

•Characteristic of Hydroponic Net Pots

Food grade plastic, professional processing made, non-toxic and tasteless.

Size distribution is reasonable, suitable for planting different plants.1.5 inch and 2.5 inch basket can be open and removable, when transplanting, it can protect the root.

Specially design to help the absorption of nutrient fluid and air flow.

3. Hydroponic Fodder System
3.1 Hydroponic Fodder System (multi-layer)

- Hydroponic fodder system is used for animal feeding such as goat, cow, horse, chicken, rabbits etc. Only need about 7 days from seed to grass for all livestock.
- Optional Sizes

FD1544(4 layers)	FD2044(4layers)	FD3045(5 layers)	FD4046(6 layers)	FD4047(7 layers)
Each layer:4 channels(1.5m)	Each layer:4 channels(2m)	Each layer:4 channels(3m)	Each layer:4 channels(4m)	Each layer:4 channels(4m)
Daily Output:30KG	Daily Output:40KG	Daily Output:70KG	Daily Output:140KG	Daily Output:120KG
20GP:51sets	20GP:41sets.	20GP:24sets	20GP:15sets	20GP:17sets
40GP:104sets	40GP:85sets.	40GP:50sets	40GP:30sets	40GP:34sets
Size: 1.5mX1.2mX1.2m(L,W,H)	Size: 2mX1.2mX1.2m(L,W,H)	Size:3mX1.2mX1.85m(L,W,H)	Size:4mX1.2mX2.1m(L,W,H)	Size:4mX1.2mX1.8m(L,W,H)





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3. Hydroponic Fodder System
3.1 Hydroponic Fodder System (multi-layer)

- Hydroponics fodder growing process in 7 days

Day1 - Soaked Grains

Day 2- Initial Spouting

Day 3- Initial Shoots

Day4 - Root Mat/Stern Growth

Day 5- Root Mat/Stem Growth

Day6 - Root Mat/Stem Growth

Day 7- Haveat Ready

Harvest

Animal Feeding

Fodder Growing Tips:
* 1kg seeds can produce about 7kg fodder
* Seeds for producing green fodder are mainly: barley, wheat, sorghum, corn
* Between 60 F and 75 F (15.6-24 degrees) with 40% to 80% relative humidity is the ideal environment for fodder production. It takes between 800ml to 1 liter of water to produce one kilogram of fodder.
* After the seeds being soaked for 24 hours, they will sprout within 8-12 hours, and grow to 20-25cm high in 7 days.

Hydroponics Fodder Advantages：
* Highly rich in vitamins, minerals, enzymes.
* Hydroponic fodder is 80% to 85% digestible.
* Hydroponic fodder contains high quality protein
* High energy content
* High in moisture content that prevents colic.

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3. Hydroponic Fodder System
3.2 Commercial Fodder System

- Hydroponic Commercial Fodder System is designed to scale from 100kg to 20,000+kg of fresh sprouts daily.

All Sprouting Systems include everything needed to grow the sprouts, you just have to supply the climate controlled room and access to water and electricity




Model	Type	Production	Daily Seed Need (kg)	Water Consump-tion (m^3)	Electric Consump-tion (kwh/day)	Labour	The Proposed Facility Area (m)
FS-300	A	30	42-54	0.3m^3	8		6X5X4
FS-500	A	500	70-91	0.5m^3	8	1-2	7.8X5X4
FS-1000	B	1000	140-182	0.8m^3	10		12X6X4
FS-1500	B	1500	210-273	1m^3	15		16X6X4
FS-2000	B	2000	280-364	1.5m^3	20		6X4X20
FS-3000	B	3000	420-546	2.2m^3	25		6X4X30
FS-5000	B	5000	700-910	3.5m^3	35	2-5	6X4X50
FS-6000	B	6000	840-1092	4m^3	38		6X4X60
FS-10T	B	10TONS	1400-1820	6m^3	55		12X4X50
FS-10T/50T	B			10-50 TONS upon request			

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3. Hydroponic Fodder System
3.3 Hydroponic Fodder Container

These series of modular, containerized fodder cultivation systems are designed to fulfill a specific set of customer requirements

Container Type	Production(Daily)	Air Conditioner	Approx Daily Water Consumption	Approx Daily Electric Consumption	Dimensions(MM
20GP	500KGS	1.5P	0.5M3	8W/day	6058*2438*2591
40GP	1000KGS	3P	0.8M3	15W/day	12032*2438*2896

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3. Hydroponic Fodder System
3.4 Fodder Tray

- Fodder Trough is the tray of fodder for hydroponic growing,

  Width 28cm * Height 3.5cm * Thickness 3mm

  Length customized

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4. Hydroponic Microgreen System

- Microgreen is the shoot of vegetable which is picked just after the first few true leaves have grown. The Hydroponic Microgreen Growing System is designed to allow more sunlight to reach between each layer.
- There is even enough space to add artificial lighting above each layer. With 5 layers per rack and 4 channels per layer, the 20 channels will allow you to harvest a full channel 3-4 times per week. As an increasingly popular ingredient, local chefs will love getting fresh, beautiful microgreens available all year around.
- Size:3mX1.2mX2.2m(L,W,H)

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5. Hydroponic Container

- Hydroponic container is customized to grow leafy vegetables, mushroom, berry, fodder, and microgreen. And any customized design is available
- The hydroponic container system can be used by simply connecting the water pipe. The temperature and humidity inside the container can be adjusted, and it is not affected by climate or soil environment requirements. Hydroponic cultivation is more water efficient and can be planted all year round. It is stable in terms of yield and supply, and the container is easy to place, saving transportation.

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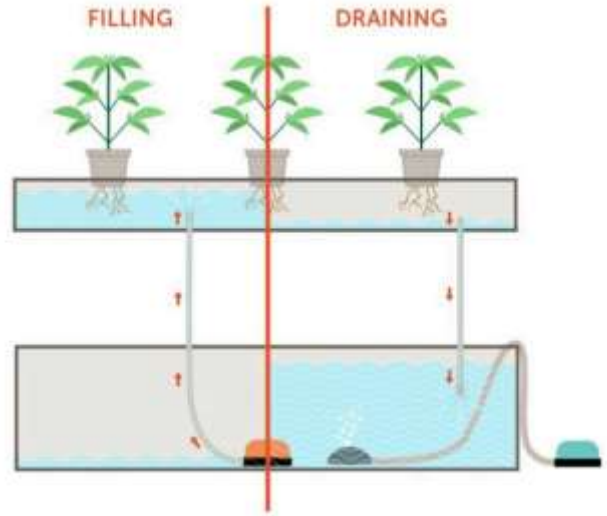
6. Ebb and Flow Hydroponic System

How does the Ebb and Flow Hydroponic System Work:

- Benches are designed to be perfectly level.
- Floor trays are molded with a network of drainage channels and plumbing wells to ensure complete drainage of irrigation water from plants when the watering is finished.
- When plants require watering, the nutrient solution is pumped into the bench and the capillary within the plant roots absorbs sufficient nutrient solution.
- The remaining nutrient solution is to be drained completely and returned to the reservoir under gravity for recycling.
- From start of irrigation cycle to complete drain of full irrigation takes approximately 20 minutes.



Features of Ebb and Flow Hydroponic System:

- The fully recirculating system saves 50%-90% water,75%-90% fertilizer and 60%-90% labor costs when compared to traditional watering methods.
- Plants are always watered very evenly while keeping the floor remaining clean and dry.
- Extended frame type is available for installing lighting system.
- It can easily control relative humidity, lighting and carbon dioxide level in the growing environment.
- Most plants grown on ebb & flow benches tend to finish 1 to 2 weeks earlier than other irrigation systems.
- Ebb & flow benches can be stacked in propagation and seedling areas, and growth chambers.
- Compatible with computer control systems and various specifications are available to meet different demands.

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6. Ebb and Flow Hydroponic System
6.1 Ebb and Flow Table

Ebb and Flow table is also called Flood and Drain table, this common hydroponic system consist of flood trays, table brackets in hot galvanized steel pipe and a wheel making the flood table flexible.

Tis moving Ebb and Flow table can be irrigated with watering or fertilizing in one system, the flood trays are filled with water or nutrient solution, and it is retained for a certain time, so that the plants rely on capillary action to absorb water through the drainage hole at the bottom of the pot. The irrigation water is then discharged from the flood table, collected and reused, or directly into sewer pipes.

Characteristics of Ebb and Flow table:

* The table with hot-dip galvanized brackets, height is adjustable accurately by screw nuts.

* The aluminum table frame completely wrap the flood table, the side has a stronger pattern, and the double-layer aluminum frame is easy to support the trolley.

* The flood trays have various sizes for option, and flood trays also have different grades for choice.

* The flood tray can be spliced each other with splicing pieces, the length is not limited, and also there are independent panels for choice.

Application of Ebb and Flow table:

- Ebb and flow table is ideal for growing seedlings, vegetables, flowers, herbs and germinating.
- They are widely used in commercial greenhouses, seedling nursery bases, hydroponics laboratories, research glasshouses, retail and institutional uses.

Standard size EBB and Flow table:

- Table size same as tray size, and length can be no limited from the splicing
- Table Height 700mm or customized
- Load capacity 80KGS/SQM
- Aluminum Frame Height 130mm
- Trays Depth 75mm
- Moving Space 30cm

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6. Ebb and Flow Hydroponic System
6.2 Movable Ebb and Flow Table

* Outside Dimensions

  1320*720*650MM(2’X4’)

  1320*1320*650MM(4’X4’)

  1930*1015*650MM(3’X6’)

  1930*1320*650MM(4’X6’)

  2540*132*650MM(4’X8’)

* Other parameters

  Material: Galvanized steel

  Wheels: 4*Fixed caster;2*universal wheel

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

  Pipe:4pcs

  Maximum load:300KG

- Flood trays for removable Ebb and Flow Frame

  1320*660*190MM (2’X4’)

  1320*1320*175MM (4’X4’)

  1930*1015*190MM (3’X6’)

  1930*1320*190MM(4’X6’)

  2540*132*190MM(4’X8’)

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6. Ebb and Flow Hydroponic System
6.3 Automatic Ebb and Flow table

Automatic ebb and flow table is the most advanced and efficient greenhouse cultivation system.

It is a specially designed ebb and flow table equipped with shuttle vehicles and track transport lines. Shuttle vehicles ride underneath the rolling benches and takes the round pipes as rails. The computer control system can move the individual rolling bench to the track transport line via the shuttle bench. The track transport lines are designed to ensure that the rolling bench moves between rows and connects the growing area to the work area. This makes the automatic cultivation system.

Features of Automatic Ebb and Flow table:

- It maximizes the utilization space and it is especially suitable for large scale production.
- It greatly reduces the concurrence of gangrene and buckling leaves to improve the survival and growth rate of seedlings.
- It can easily control relative humidity, lighting and carbon dioxide level in the growing environment.
- It greatly reduces the labor costs and provides a high precision and efficient operation to maximize the production efficiency.
- It greatly saves water and nutrient solution and makes the fertilization more economic and efficient.
- Compatible with many computer control systems and various specifications are available to meet different demands.

Specification of Automatic Ebb and Flow table:

- Material of flood tray: ABS plastic, table frame: 6063-T5 aluminum profile, corner bracket: ABS, track transport lines: marine grade aluminum profile, middle cross beam: hot-dip galvanized steel tube, wheel beam: hot-dip galvanized steel tube, supporting stand: hot-dip galvanized steel tube.

Technical Data of Automatic Ebb & Flow Table:

- Single table size(WXL): 4’X8’, 4’X10’, 5’X10’, 5’X12’, etc.
- UV-resistant: Yes
- Zinc coating: 500g/mm
- Load capacity: 450-500N/mm(45-50kg/mm)
- Lifespan: 20years.

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6. Ebb and Flow Hydroponic System
6.4 Multilayer Ebb and Flow Table

Multilayer ebb and flow table is a kind of greenhouse bench especially suitable for vertical growing, it also consists of ABS flood trays and multilayer brackets. The two and above layers improve the cultivation space and production yield. It can be designed to be both mobile and stationary type and all sizes are customized to perfectly meet your cultivation demands.

- Features of Multilayer Ebb and Flow Table

It optimizes your growing space in vertical direction and creates more growing area.

It can simply double or triple your yields by increasing the number of bench trays in limited space.

Plants are always watered very evenly as well as being fully fertilized.

It greatly reduces your labor, water and fertilizer costs and improve your profits.

It can easily control relative humidity, lighting and carbon dioxide level in the growing environment.

Most plants grown on ebb &flow benches tend to finish 1 to 2 weeks earlier than other irrigation systems.

Both mobile and stationary types are available in all sizes.

- Specification of Multilayer Ebb and Flow Table

Materials of Ebb and flow trays: ABS plastic

Frame:6063-T5 aluminum profile

Corner bracket: ABS

Track transport line: marine grade aluminum profile.

Middle cross beam: hot-dip galvanized steel tube

Wheel beam: hot-dip galvanized steel tube

Supporting stand: hot-dip galvanized steel tube.

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6. Ebb and Flow Hydroponic System
6.5 Hydroponic Flood Tray

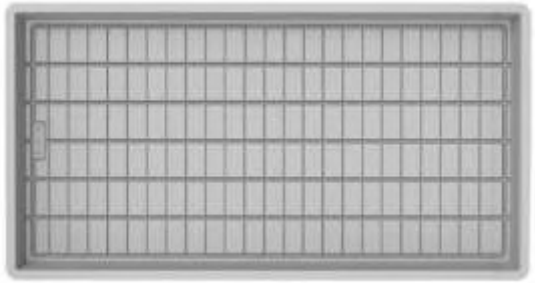
Hydroponic flood trays are ideal for use with clay grow rocks, rockwool or pots filled with soilless substrate.

The hydroponics trays are made with thick, durable, ABS plastic material, this prevents the trays from bowing or sagging under the weight of large plants or full capacity water.

The smooth plastic surface makes it easy to clean, the large drain channels allow water to drain completely away from plants while giving extra structural support to the design.

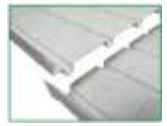
- Specification of 4 sided flood trays

Width(mm)	length(mm)
915	2140
1220	2440/3050/3660/4270/4880/5490
1530	2440/3050/3400/3660/4270/4880/5490
1700	4000/4500/5000
1800	2140



Flood Trays in continuable length

The following trays are available as 3 sided end plates and 2 sided interconnecting middle plates, these plates can be glued together to make a table of any length. A small division plate can be installed in between the plates to suit any length of table.



* Specification of 3 sided flood trays

Width (mm)	Length(mm)
915	customized
1220	customized
1530	customized
1700	customized
1800	customized

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6. Ebb and Flow Hydroponic System
6.6 Hydroponic Grow Rack

Hydroponic Grow Racks are made in galvanized pipes, and ABS flood trays are specially designed for layered frame.

Specification of the layered grow racks:

2 Layers:

1270*650*2200,

1530*650*1308

3 Layers

1270*650*1308

1530*650*1756

4 Layers

1270*650*1756

1530*650*2200

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6. Ebb and Flow Hydroponic System
6.7 Vertical Ebb and Flow System

* Vertical Ebb and Flow System with multi-tier movable rack.
We works with indoor farmers to try to maximize their profit potential by providing multifunctional vertical Ebb and Flow hydroponic system. 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 headspace, 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

* Vertical Hydroponic Tray
2’X4’

Volume(CF)	Weight(LB)	Length(IN)	Width(IN)	Height(IN)
0.89	6.57	44.5	25.25	3.25

4’X8’

Volume(CF)	Weight(LB)	Length(IN)	Width(IN)	Height(IN)
3.61	32.33	93	49	3.75

The tray in 4’x8’ feet is designed to fit standard (42”x93”) racks or shelves.

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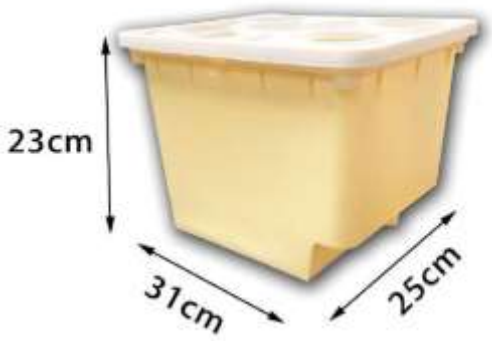
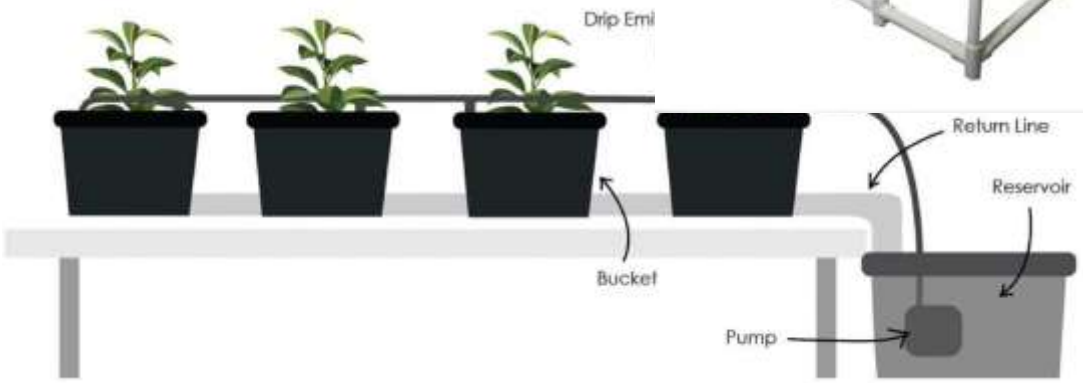
7 Dutch Bucket System

- Dutch Bucket is an efficient drip irrigation system and is extremely suitable for larger, long-term cultivation such as vine tomatoes, peppers(capsicum), eggplants, cucumbers and even roses. You can use any type of growing media, including and coconut coir. It is popular in drought suitable for growing.
- Bucket size 30X25X23cm(L,W,H)
- Volume 11L
- Material Food-grade PP&UV
- Color Beige, black or customized





8. DWC Hydroponic System

- DWC (Deep Water Culture) Hydroponic System is basically letting the roots of the plant grow down into a nutrient solution or water culture.
- DWC (Deep Water Culture) is the preferred system of choice for growing leaf lettuce, which are very fast growing and water loving plants, making them an ideal choice for the DWC hydroponic system. Many commercial hydroponic lettuce operations employ this method, using floating Styrofoam rafts to hold the plant cups or just the plants themselves.
- This setup can be as simple as a bucket full of mixed hydroponic nutrients with a hole in the lid to support a flower pot or it can be made large enough to support multiple plants. DWC hydroponics requires nothing more than a simple air stone and air pump to keep the nutrient solution stirred, oxygenated and fresh.
- Sets include: 20L Buckets, Net cups, Nutrient pump, Air hose, Air stone, Air low adjustable valve, Ring drip irrigation set, Water level and drainage fitting, Main pipe with accessories

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8. DWC Hydroponic System

- RDWC (Recirculating Deep Water Culture) hydroponic Systems is an improved version of DWC (Deep Water Culture) systems, allowing plants to receive unlimited amounts of nutrients. A method used to grow plants with the roots submerged in a highly oxygenated nutrient solution.
- By using RDWC System, you can optimize your plants maximum growth potential due to the super oxygenated nutrient solution that is constantly re-cooling and mixing the nutrients.
- With high volume of water that is contained and circulated in the system PH and EC levels are continuously.
- Sets include: 27L Grow buckets, Main supply bucket, Net cups, Nutrient pump, Air hose, Clay pebble, Water level floating fitting, Cycle and water pump, Air stone, Main pipe, Shut off valve, (Water chiller)

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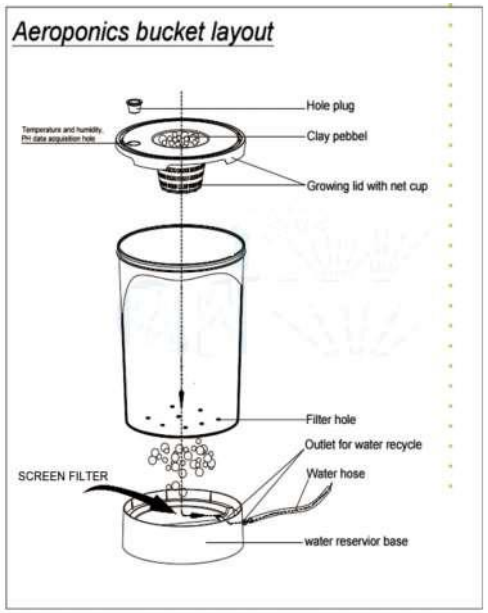
9. Aeroponics System

- The aeroponic system is probably the most high-tech type of hydroponic system. The growing medium is primarily air, but unlike the NFT systems shallow channels, the roots are growing down into a much larger container. The roots hang in the air and are misted with an oxygen rich hydroponic nutrient solution. The mist cycle are usually done every few minutes.
- A timer controls the nutrient pump much like other types of hydroponic systems, except the aeroponic system needs a short cycle timer that runs the pump for a few seconds every couple of minute.
- Sets include: Mist and Cycle pump with time controller, 3 in 1 clone buckets, Water reservoir, Pipe assembly set, Shut off valve, Water level fitting, Rock wools, Water float valve,



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10. Small Hydroponic System
10.1 Small NFT Hydroponic System

This small NFT Hydroponic system is used for gardening and home, the size can be customized, pictures are only individual cases. The one set of small NFT hydroponic system include a set of NFT pipe, 1 meter of hose, 1pc of nutrient pump, foam cubes (for each hole), net cups (for each hole), 1pc of mechanical timer.

Email: info@jychinasourcing.com Contact: Shirley Jiang

10. Small Hydroponic System
10.2 DWC Hydroponic Box

The DWC hydroponic box can grow 5, 6,11, 24 plants one time and is great beneficial to grow herbs, Lettuce, fruits, flowers and vegetables, etc with eco-friendly material. This small system is good to use for gardening or home.

The size of DWC hydroponic box (the hole quantity and hole size can be customized) :

Plants Quantity	Box Size	Volume	Weight	Hole size	Color
5 plants	410*260*140mm	10L	2.3KG	50mm	Grey
6 plants	280*193*140mm	5L	0.9KG	32mm	Blue
11 plants	410*260m140mm	10L	1.3KG	32mm	Pink
24 plants	410*260m140mm	10L	1.3KG	23mm	Yellow
Water tank	400*260m*260mm	20L	1.0KG		

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10. Small Hydroponic System
10.3 Hydroponic Grow Cabinet

* Product features

Zero pesticide residue

Zero heavy metal

Scientific spectrum

- Scientific planting

It can be used in indoor vegetable planting cabinets, or independently used in balconies, roofs, living room, garden, school, office, and other indoor place. This cultivation is environment-friendly and pollution-free. The vertical planting makes full use of space to achieve a variety of vegetable planting methods.

- Fresh quality and taste delicious

The time from sowing to harvesting of vegetables is 15-45 days. It depends on the variety of vegetables. The vegetables are picked while they are grown. They are safe and fresh with sufficient water.

After picking, it can be simply washed and eaten. It tastes crisp and refreshing, retaining the original freshness and nutrition of vegetables.

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10. Small Hydroponic System
10.3 Hydroponic Grow Cabinet

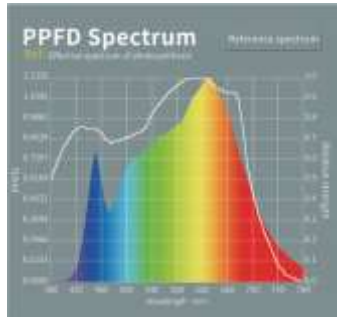
- Layered lights

Full spectrum LED growth lamp

When the plant needs different growth lights

The controller controls and adjusts the light

required by each layer of plants



- Hierarchical control

Planting can be separated

Four layers of planting layers are randomly split

The height of the machine is under your control

Water level and light can be controlled hierarchically

- Planting sapce

Sequential arrangement does not interfere with each other

Each of the lower three layers has its own scientific arrangement

Set up planting trough,and the top space can soil or water culture

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10. Small Hydroponic System
10.4 Propagator

- Propagator used as the sowing and nursery growing box can easily carry out centralized management, save time and energy, and it has a long service life and convenient use. The porous cover can play the role of heat preservation and moisturizing, which is easy to pay attention to the growth state and does not need a plastic wrap. The large and thick box can hold many different kinds of plants. And durable materials can be used for a long time. This perfect growing box is good for home gardening.

(1) 20,40,80 Holes Growing Box
Outside dimensions:
349*273*156MM(2gallons)
560*350*165MM(5gallons)
681*531*165MM(10gallons)
Sidewall height:156, 165, 165mm
Material: ABS+UV
Diameter of hole:40mm
The number of hole:20/40/80

(2) 128 Holes growing tray
Outside dimensions:
1119*349*270MM(15gallons)
Sidewall Height:270MM
Material: ABS+UV
Diameter of Hole:40MM
The number of Hole:128

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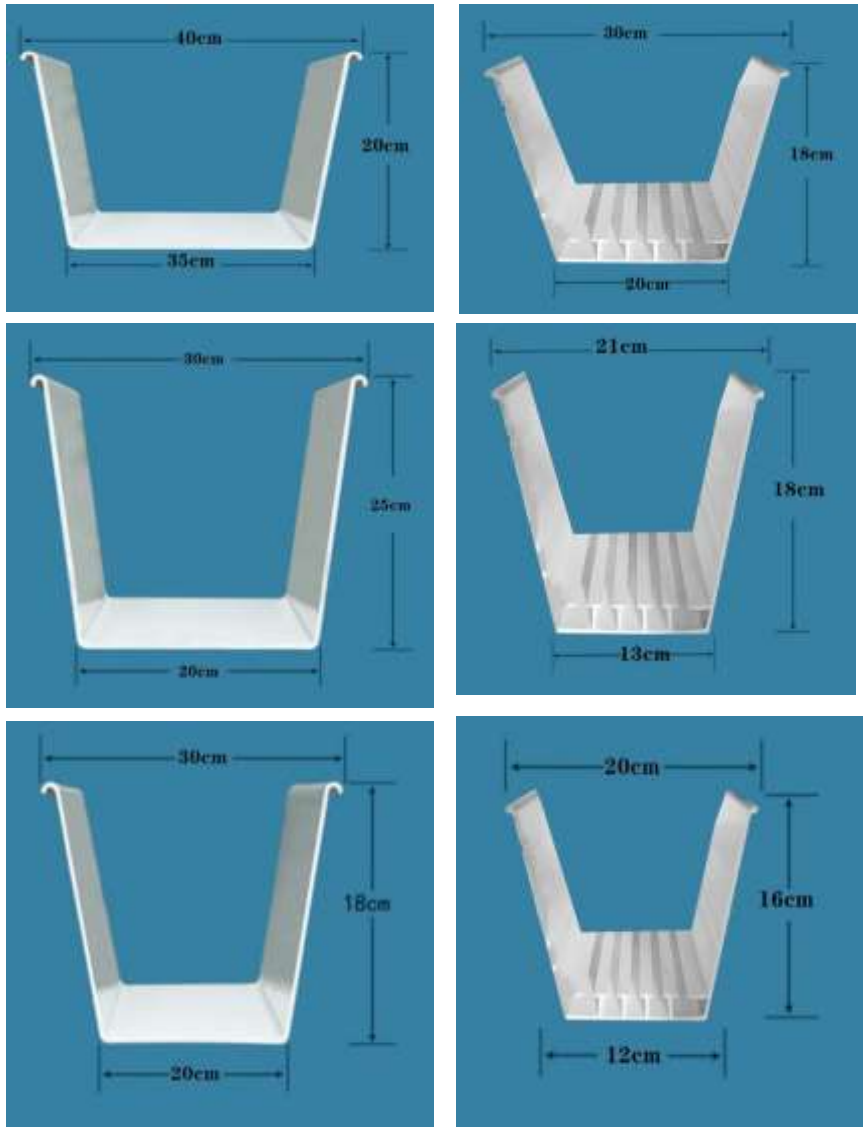
11. Planting Trough System
11.1 Planting Trough

Planting Trough is U-type Gutter which cultivation system mostly use vertical racks, with substrate culture for strawberry, tomato, peppers and cucumber planting.

Planting Trough

Planting Trough
with Drainage

- Specification:



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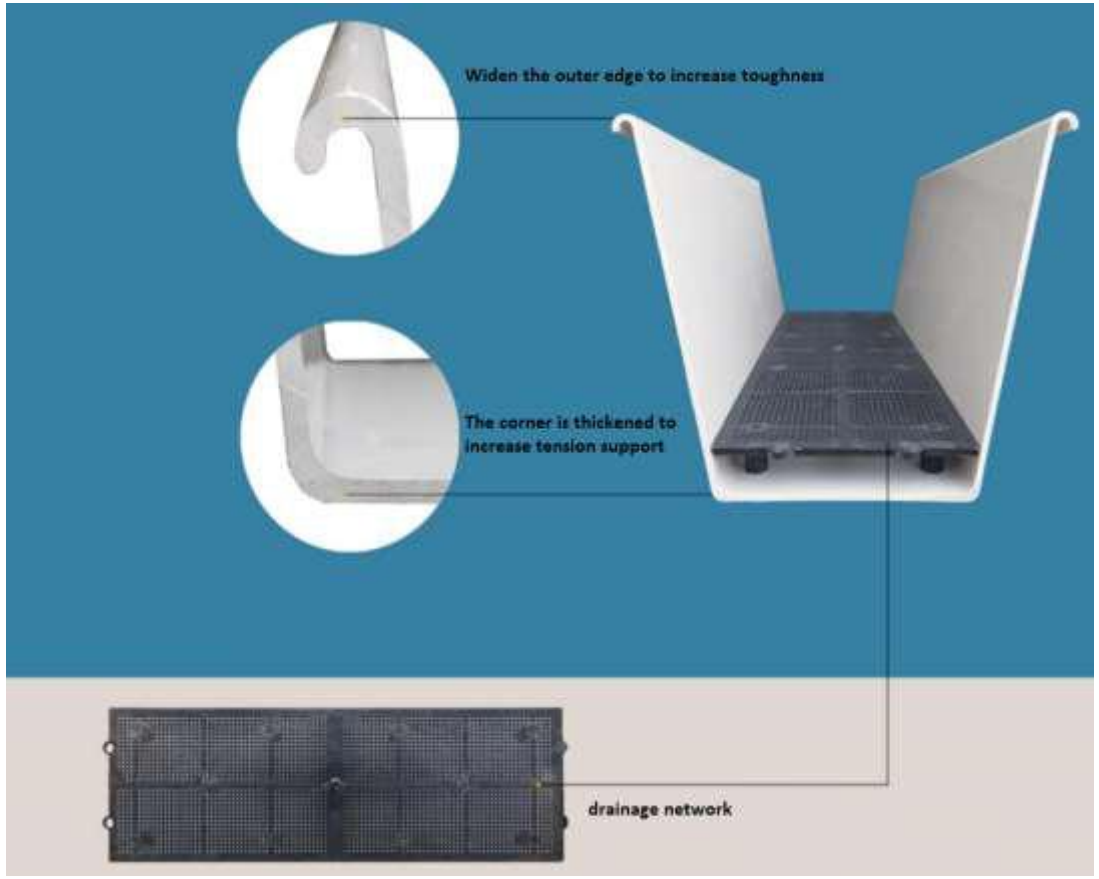
11. Planting Trough System
11.1 Planting Trough

- Advantages of planting trough with ventilation mesh panel or with drainage:

Air permeability is often the main factor affecting the growth of plant roots,

which need to absorb oxygen in the soil during the growth of plant roots. When the substrate is in high humidity or stagnant water, it is easy to have hypoxia, which affects plant growth, reduces yield, and even causes plant death. In hydroponics, air rooting is the same reason, so oxygen is the most critical for plant roots.

The ventilation net is placed at the bottom of trough, the air enters through the ventilation pipe fittings to the upper and lower ventilation effect, which is used for ventilation and drainage. It is an indispensable part of vertical planting system, and perfectly achieves the best ventilation effect. It can allow the plant roots to breathe enough oxygen, provide a good growth environment, and prevent the plant death due to excessive humidity in the substrate.



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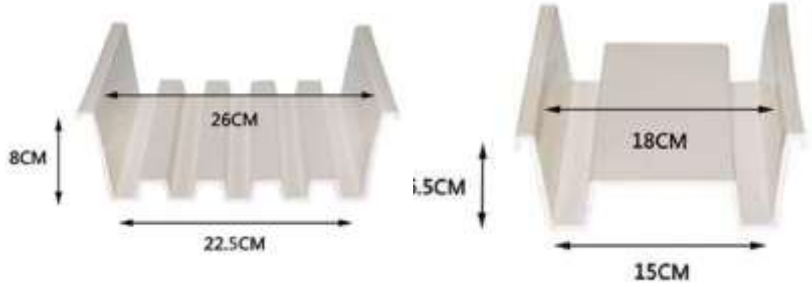
11. Planting Trough System
11.2 Coco Bag planting Trough

- Coco bag planting trough mostly used as a flat type with Coco bags or rockwool bags, the bottom of the trough is designed with supporting edges, which is air breathable and water drainable. And the end is equipped with a plug to seal, which can recycle the nutrient solution, therefore, it is water saving and fertilizer saving, reducing the humidity and reducing the breeding of germs.
- The length of coco bag planting trough has unlimited extension, it can be customized, can be connected.
- The material of coco bag planting trough is corrosion resistant, anti-aging, no leaking, good out-looking, and easy to use.
- This coco bag planting trough is suitable for strawberry, tomato, peppers and other vegetables growing.

- Size:18cmX15cmX6.5cm

  26cmX22.5cmX8cm



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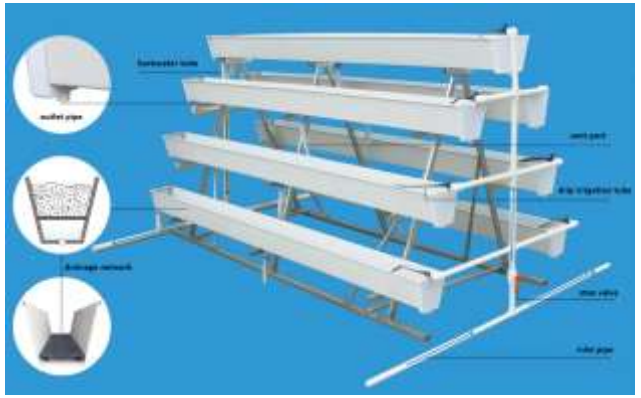
11. Planting Trough System

11.3 Vertical Planting System

Vertical Planting system consists of the substrate troughs and A-type racks, this planting system saves the planting space, plants get full light, grow strongly, and the fruit coloring is even, commercial fruit rate can reach more than 90%. Strawberries all grow and hang outside of the planting trough, look neat and beautiful. Strawberries are planted in the planting trough in the height of 0.6 meters and 1.2 meters from the ground, people can pick strawberries without bending over, so this cultivation with vertical A-type frames, grow out strawberries with bright color, good taste, clean health, and easy to pick, it is suitable for the development of tourism agriculture.



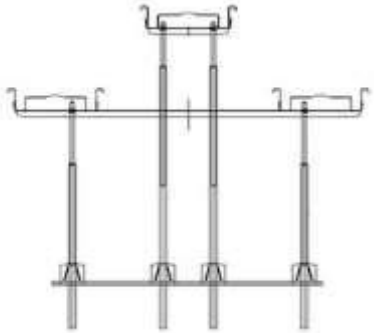
11.4 Horizontal Planting System

This system consists of the planting troughs and horizontal racks. The planting troughs air placed on the horizontal racks, or on the ground, with the application of soilless cultivation technology, the trough is filled with substrate or coco coir, the drip irrigation pipe is laid on the surface of substrate. The excess water at the bottom of the trough is centralized to the plug drain, reflow to the reservoir, it has the advantages of the labor and fertilizer saving, recycling, humidity reduced, and the breeding of germs reduced.

11. Planting Trough System

11.5 Triangle Planting System

This triangle type double layer planting system, using internal drainage and galvanized plate planting troughs, equipped with strawberry planting containers, has good anti-corrosion, high strength, more smooth drainage, no joint to avoid the leaking, the matching planting container is in the new polypropylene material, it makes light weight, good toughness, anti-aging, durable, The holes at the bottom of the side can effectively drain out water, breathable, prevent the root rot, equipped with the bayonets for drip irrigation pipe and heating pipe .



11.6 Column Planting system

The column cultivation can increase the planting area, make full use of solar energy and the space in the greenhouse, and can greatly increase the production. The column planting system is mainly used in the production of leafy vegetables, climbing flowers, strawberries and other mainly ornamental plants.

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11. Planting Trough System

11.7 Hanging Planting System

Hanging type planting system is made of galvanized polyester coating material, which is high weather resistant, no joint, high strength, good corrosion protection. It can significantly improve air flow, increase air circulation, isolate soil-borne diseases, reduce the occurrence of diseases and pests. The height is adjustable according to the different crops, this improve the working environment and improve labor efficiency.

11.8 Lifting Planting System

The lifting planting system is designed to maximize the use of the light and temperature environment in the greenhouse, and increase the cultivation area, facilitate the operations such as cutting leaves and harvesting, also reduce the labor, facilitate the cultivation on the ground, facilitate the free movement of picking and sightseeing tourists under the cultivation frame, and significantly improve the utilization of the greenhouse space. So as to improve the benefit of greenhouse production.

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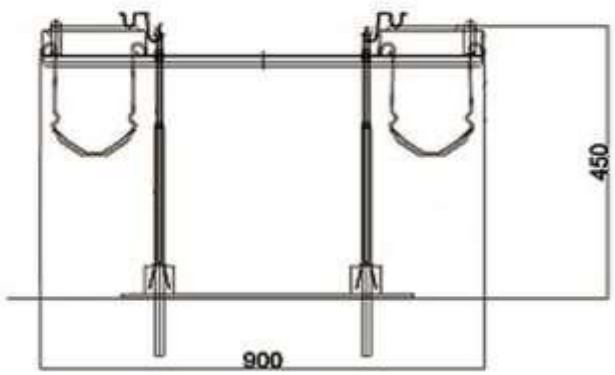
11. Planting Trough System
11.9 Pots Planting System

This cultivation system is composed of support groove, drainage trough and bottom plate support structure. The support groove is made of aluminum-zinc plated panel, with 5 holes per meter, the drainage trough is made of polyester coating plate which is high weather. The stability of the whole structure is ensured by the design of the long bottom plate.



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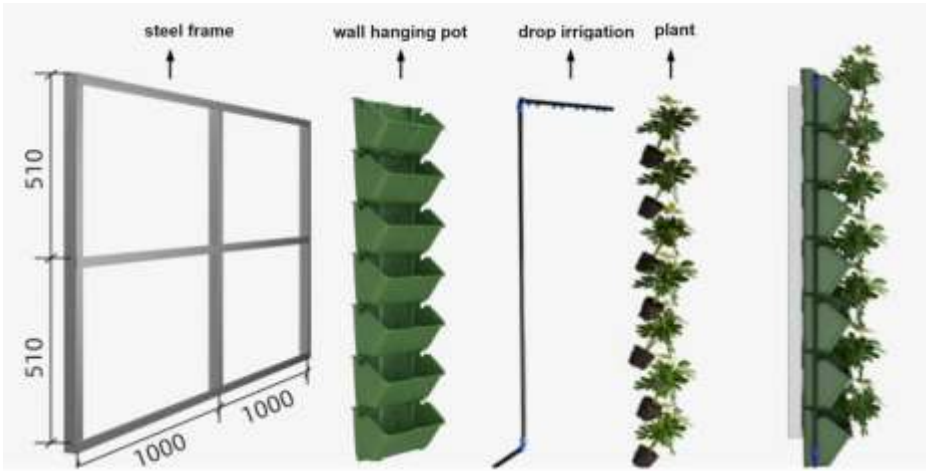
12. Green Wall System

- This form of plant wall is a typical pixel type, each pot (trough) is a pixel, and each pot (trough) has one or more plants. Because each container is independent, it is more convenient to install or replace, and the seedlings can be pre-cultivated into large plants in the container in advance, the plant wall can be immediately formed after installation.



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