



上海德环实业有限公司
Shanghai Dehuan Industry Co.,Ltd

COMPANY INTRODUCTION

Shanghai Dehuan Industry Co., Ltd was founded in 2009, is top supplier of greenhouse and hydroponic systems & solutions. It is located in Minhang District, Shanghai. And it just takes 30 minutes to get to Pudong or Hongqiao Airport, which makes it very convenient for you.

Our factory was located at Zhejiang Province.

- More than 10 years experience with agriculture hydroponic products
- Leading professional hydroponic system manufacturer in China
- Private factory covering more than 20,000 square meter
- 110 skilled workers, 10 professional engineers
- All the workers with average 15 years' working experiences
- All key components are self-manufactured

With rich experience in both manufacturer and quality controlling, we supplied wide range of agriculture hydroponic products to over 50 countries worldwide.

There are two lines of our products: Agriculture and Horticulture. Please enjoy your visual journey of the catalogue. There is always one that suits you. Your choice is our greatest honor.



SHANGHAI DEHUAN INDUSTRY CO.,LTD



Shanghai Dehuan industry Co.,Ltd was found in 2009,is one of the leading professional hydroponic system manufacturer and servucer in China. It is located in Xingwei industrial park, Shanghai Pudong New Development Area.

Totally have more than 20,000 square meters area. With rich experience in both manefacturer and quenlity control, we supply wide rang of agriculture hydroponic products to over 50 countries wordwide.

Our main products are Dutch ducket,NFT Gully, Stacking pots, Hydroponic fodder system,Ebb and flow table,and other related hydroponic products.



Catalogue



Ebb and Flow Table



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Grow Pot



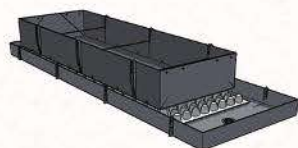
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Blueberry Pot



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Horticulture

Ebb and Flow Table

1 Ebb and Flow Tray

- 1.1 4 sided Tray
- 1.2 Modular Glued Tray
- 1.3 Flood & Drain Tray

2 Ebb & Flow Table

- 2.1 Ebb & Flow Tray with Rolling Bench
- 2.2 Expand Mesh Bench
- 2.3 Flood & Drain Table
- 2.4 Container Grow Table
- 2.5 Multilayer Grow Table
- 2.6 Mobile Grow Racks

Drying racks

Cannabis Grow Pots Sets

Stacking Pots

Stacking Pots

Set Pots

Self Watering Pot System

Aeroponic Tower System

Stacked Aeroponic Tower

Hanging Aeroponic Tower

Danish Trolley

Danish Trolley

Ebb and Flow Table

1 Ebb & Flow Tray

The trays are ideal for use with clay grow rock, rockwool or pots filled with a soilless grow substrate.

We manufacture our hydroponics trays from thick, durable, high-impact ABS plastic, which 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 trays, and large drain channels allow water to drain completely away from plants while giving extra structural support to the design.

1.1 4 Sided Tray

The following trays are available in a 4-sided 1 piece format:



Width (mm)	Length (mm)
330	2000
630	1110-3660
915	1830-3100
1220	1830-3660
1500	1800-3300
1600	1800-3300
1700	4500

1.2 Modular Glued Tray

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.

Width (mm)	Length (mm)
330	2000
630	2000
915	2000
1220	2000
1500	1500
1600	2000



Ebb and Flow Table

1.3 Flood & Drain Tray

Width(Feet)	Length(Feet)
2'	4'-12'
3'	6'-12'
4'	6'-12'
5'	8'-11'
5.5'	15'



2 Ebb & Flow Table

Ebb and Flow Table is the industry standard for propagating seedlings in a modern greenhouse.

The tables allow a large number of seedlings to be propagated in a confined space before they are transplanted into the main hydroponic system.

The Ebb and Flow tables use a flood and drain process to hydrate the growing media from beneath before draining the excess moisture away.

2.1 Ebb & Flow Tray with Rolling Bench

Bench Size (W x L)	4' x 8', 4' x 10', 5' x 10', 5' x 12', 5.5' x 15' or Longer
Bench Height	700mm or Customized
Load Capacity	75kgs/m ²
Aluminum Frame Height	130mm
Trays Depth	75mm
Moving Space	30cm



Ebb and Flow Table

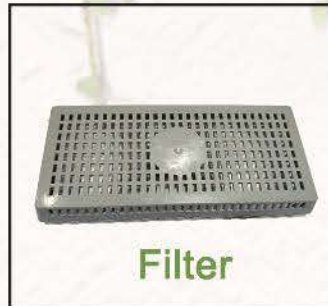
Parts & Accessories



Valve



Hoses



Filter



Glue

Advantages

- Labor savings and cost effective
- Versatile system
- An entire acre or more can be watered automatically and efficiently
- Plants are watered evenly, reducing losses due to poor watered practices
- Plants can be fertilized as they are being watered
- Floors are dry, avoiding accidents
- System can water any of our wide line of retail EBB-FLOW benches
- Compatible with many computer control systems

Application Show



Ebb and Flow Table

2.2 Expandable Mesh Bench

Bench Size	All Customized Size
Usage	Greenhouse flower cultivation, vegetable seedling, rice seedling, etc.
Bench Type	Rolling mesh bench & Fixed mesh bench
Expand Mesh Size	30*130mm, 20x130cm, 30x130mm, 25x130mm, 20x120cm
Silk Thickness	3mm, 4mm, 3&4mm mixed or customized
Mesh Material	Welded by steel wire & hot galvanized
Frame	Aluminum Alloy
Standard Height	700mm



Rolling mesh bench



Fixed mesh bench



Ebb and Flow Table

2.3 Flood & Drain Table

Flood & Drain Table uses 5 inches high 4x8ft Flood trays, the racks use hot galvanized steel pipe. It comes with wheel, have a good flexibility, perfect for home garden. Customized sizes are always available.



Size: 2.4 x 1.2 X 0.8m(L,W,H)

2.4 Container Grow Table

The Container Grow Table is a complete, self-contained lightweight aluminum rack system which can contain any number of vertical production or propagation levels.

The standard table is 2ft wide x 4ft long and can extend to 8ft high and each unit comes with heavy duty casters.

It uses 2x4ft Flood trays, the flood trays are made from ABS plastic, UV resistant and have a built in sump for drainage.



Size: 1.3 x 0.65 x 2.5m(L,W,H)

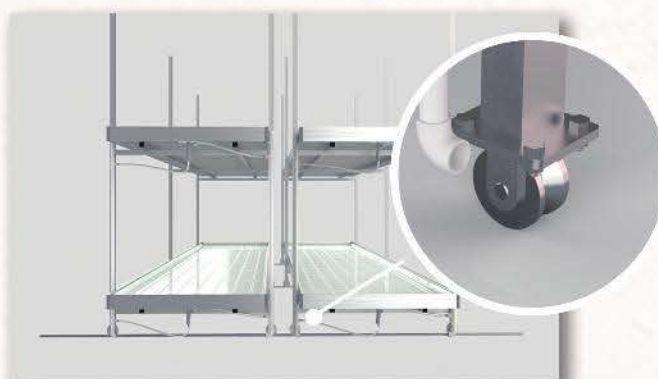
Ebb and Flow Table

2.5 Multilayer Grow Table

Multilayer Grow Tables maximize the grow potential of your space with vertical expansion. The standard sizes are 4x8FT-4x60FT, 5x8FT-5x60FT. Layers, size, height are all customized as your requirements! It's the best way to grow plants for indoor farming.



The frame is made of aluminum alloy, which is light and antirust, It can reduce the growth of bacteria.

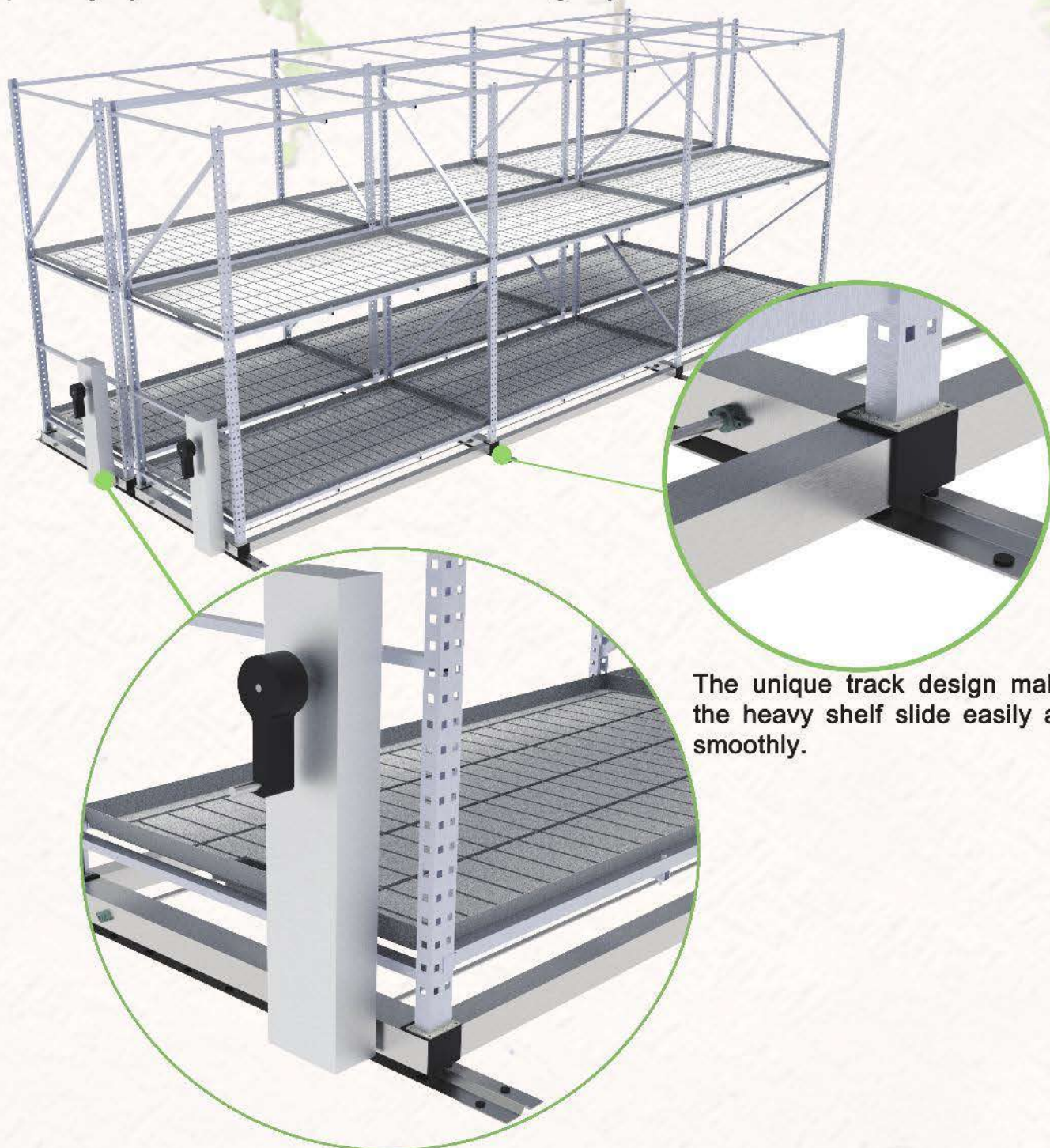


The tables with track
Advantage: Easy to operate, more space-saving, increase planting area.

Mobile Grow Racks

2.6 Multilayer Movable Grow Table

The movable grow table installed with track and wheels, maximum using the room space. Only one aisle is enough for all operations. Moreover, the rack sizes like length, height and planting layers all can be customized according to your room area.

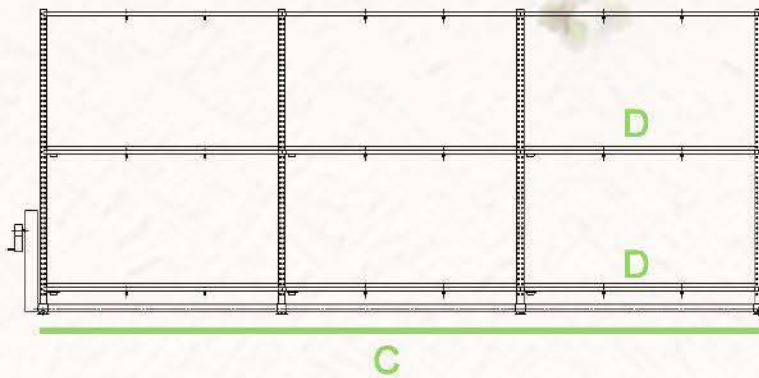


The unique track design makes the heavy shelf slide easily and smoothly.

Easily move heavy shelves with handles. Save more labor and time costs.

Mobile Grow Racks

Rack Size Customization



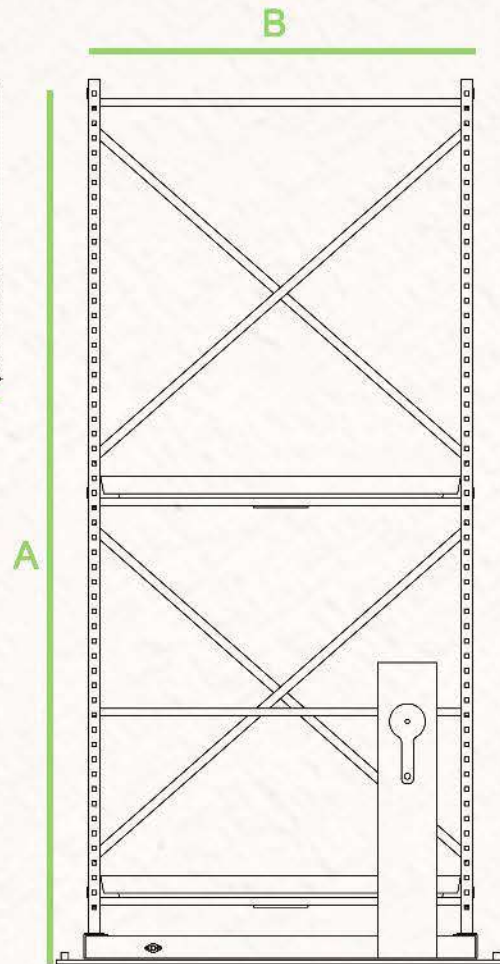
Cost depends on:

A: Total height

B: Rack width (4ft & 5ft for your option)

C: Rack length

D: Planting layers



**Just show us your room layout,
enjoy free private customization.**

Application Show



Cannabis Grow Pots Sets

Cannabis grow pot is designed to give you a more consistent flow rate, even distribution, a slightly increased air flow, and improved stabilization. Place 6 inches drip cap on top of your 6 inch rockwool cubes or the pot maximizing your space in the vegetative cycle. Fill the cap with water and nutrients by hand or automate with 2 Clips. Each cap features flower designed louvers that deliver water, nutrients, and air to the medium while blocking light. It is strategically covers the top of the media allowing the root zones to dry at a more consistent rate and delivering the necessary oxygen your plants need to thrive. Algae disappears, healthy roots fill the medium, and blossoms multiply.

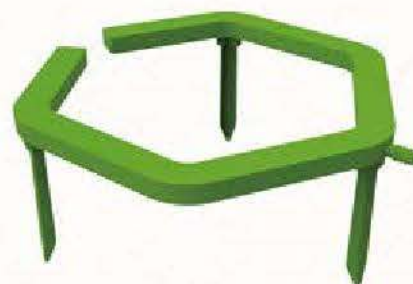
Specification



Drip Cap



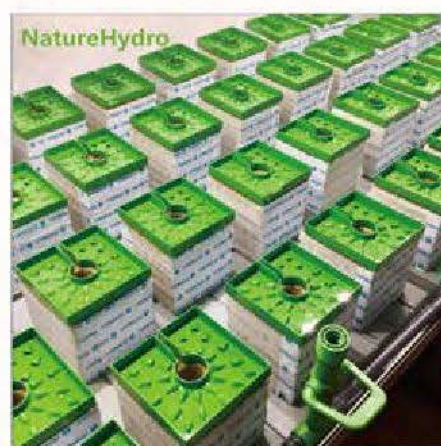
Grow Pot



Drip Ring

	Drip Cap	Grow Pot	Drip Ring
Size/Diameter	15x15x4cm	16.5x16.5x14cm	15cm/6"
Weight	77g	114g	19.6g
Material	ABS	PP	PP

Details



Drying Racks

Drying Cart

The Drying Cart is designed to accommodate hanging plants in order to dry them out for further processing. It has adjustable cantilever-style finger attachments which allow you to configure the cart as needed. The drying cart is an essential part of the cultivation process that can provide an increase in production and help streamline your workflow.

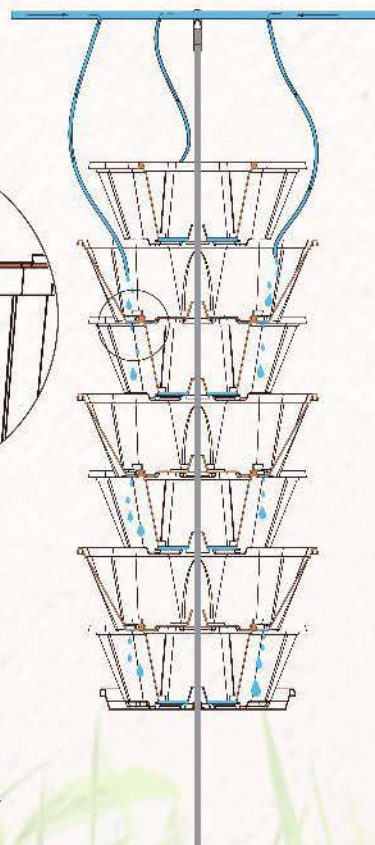
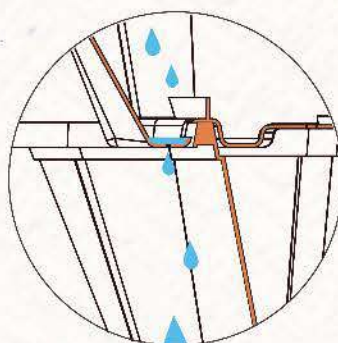


Stacking Pots

Stacking Pot is suitable for strawberry, lettuce, flower and other herbs plants.

Stacking Pots

Size	34*15cm (W,H)	45*20cm (W,H)
Material	PP&UV	PP&UV
Weight	350g / pc	550g / pc
20FT	12500 pcs	5625 pcs
40FT	25000 pcs	10500 pcs
40HQ	29800 pcs	11200 pcs
Package	97x34x34cm / 50pcs	42x42x74cm / 25 pcs
Color	Terracotta, beige, white, green, blue, yellow pink or customized	



Stacking Pots

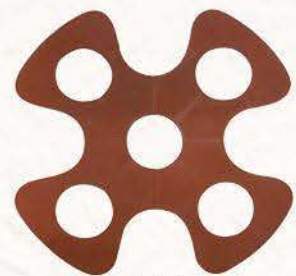
Optional Parts



Base



Grid



Lid



Stand Steel Pole



3 Inches Net Pots



Chain

Application Show

They can also be stacked as hydroponics tower, you can create your own combinations of fruit, flowers, vegetables or herbs. For large garden project, greenhouse used items.



Stacking Pots

Set Pots

3pots,1 base,1 chain combination is mainly for decoration, small private garden.3-layer of pots have a capacity of 12 planting locations allowing you to have all of your favorite fresh ingredients or flowers.



3 Layer Set	3 pots, 1 base, 1 chain
Carton Size	31.5*20*31.5cm
Carton Weight	1.85kg
20FT	1407 sets
40FT	2814 sets
40HQ	3417 sets

Self Watering Pot System

Self watering pot system is specially for home garden, suitable for flowers, herbs, and leafy plants, such as lettuce, spinach, strawberry, etc.

The biggest advantage of this system is that it is self watering, use a pump and timer to control the watering time and frequency, bringing you joy and happiness from home garden.

Pots Size	32.5x16cm (W,H)
Total Height	112.3cm
Carton Size	51*51*34cm
Carton Weight	7.5kg
20FT	310 sets
40FT	620 sets
40HQ	736 sets
Fittings	Pots, Pot Covers, Reservoir, Pump, Timer, Net Cups, Connectors

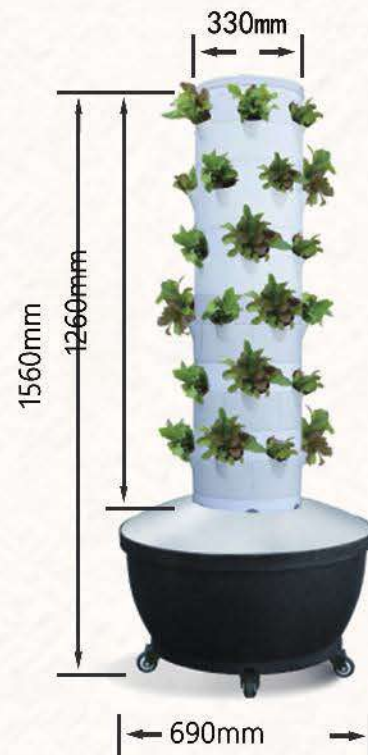


Aeroponic Tower System

Aeroponic Tower System is the process of growing plants in an air or mist environment, without the using of soil. It is the most effective and efficient way to provide plants with the necessary nutrients, hydration and oxygen.

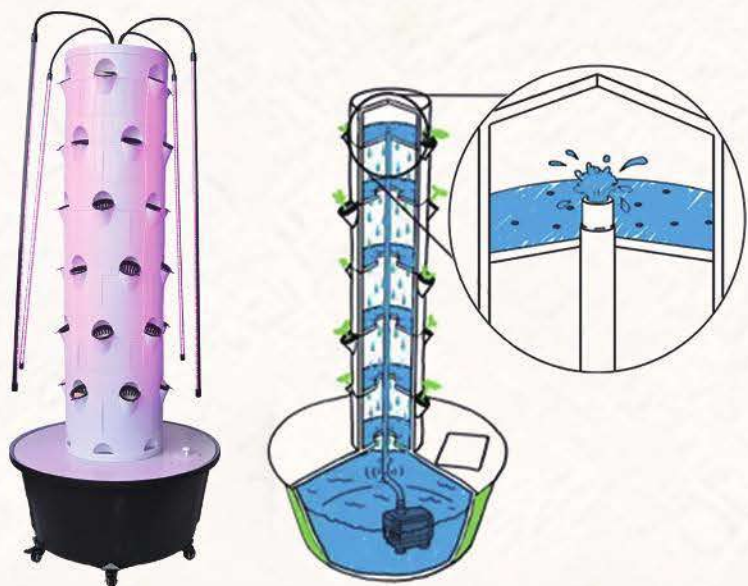
Stacked Aeroponic Tower

Material	PP&UV
Diameter	33cm
Plants/layer	6 plants/layer
Layers	6/8 layers
Height	1.7m/2.1m
Kits	Water tank,pump, timer, wheels net cups, sponges, led lights



Aeroponic Tower With Lights

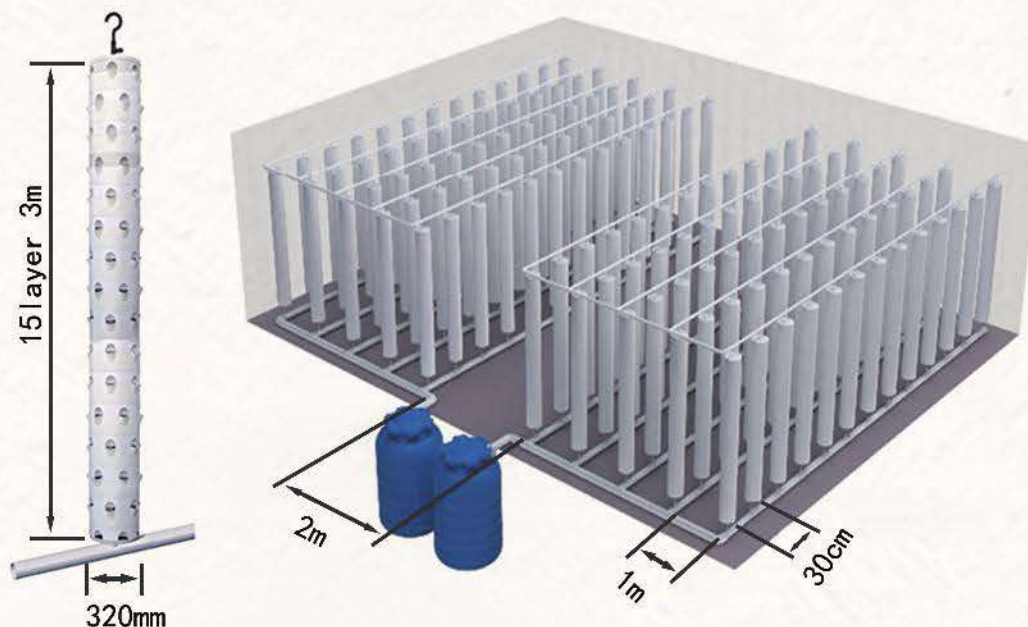
- The Aeroponic Tower System with Grow Lights Kits allows you to easily grow leafy greens, herbs and other non-fruiting crops indoors year-round.
- Parts: Support Cage, LED Lights.



Aeroponic Tower System

Hanging Aeroponic Tower

There are 6x10 and 6x15 system for your choice, 6 plants each layer, total 10 or 15 layers. suits for commercial growing in greenhouse, use for leafy vegetables, strawberry.



Advantages

- Grow Faster--3 times faster and 30% greater yields
- Grow Healthier--better protection from pests and diseases naturally without pesticides
- Save More Space--10% of the land and water than traditional
- Easy To Assemble

Commercial Project Show



Danish Trolley

Danish trolley multilayer plant stands have been a staple in horticulture for decades, they are also gaining ground in other industries.

Thanks to their great size and manoeuvrability, and the adjustable space between shelves, Danish garden flower trolley are not only perfect to transport flowers and plants, but they can also be very handy to use as a large shopping cart, moving cart, storage container, mobile rack, or in combination with our writing boards and handles, or be used as a low-cost order picking cart.



Danish Trolley Details

Size	1350*565*1900mm (53.1*22.2*74.8inch) 1500*565*1900mm (59.1*22.2*74.8inch) or customized
Product Structure	Platform, mesh, roll container
Board Type	Pull plate net, metal welding network, galvanized sheet, plywood
Surface Treatment	Cold galvanized, hot dip galvanized, powder coated
Shelves	2,3,4,5...Customized
Wheels	PP, Nylon, Rubber, Pneumatic, PU, TPR Wheel
Load Capacity	500kg-800kg, heavy duty, light duty
Usage	Storage, plant nursery, garden center display, flower shop display, flower auction, logistics transport



Danish Trolley

Two Types for the Danish Trolley



Reversible Type



Fixed Type

Application Show





Agriculture

NFT Gully

NFT Fixed Bench System

NFT Sliding Bench System

Vertical NFT Hydroponic System

Microgreen System

Microgreen System

Fodder System

Small Fodder System

Commercial Fodder System

Container Fodder System

Grow Pot

Dutch / Bato Bucket

Plant Pot

Blueberry Pots

Planting Trough

PP Trough

U-Type Trough

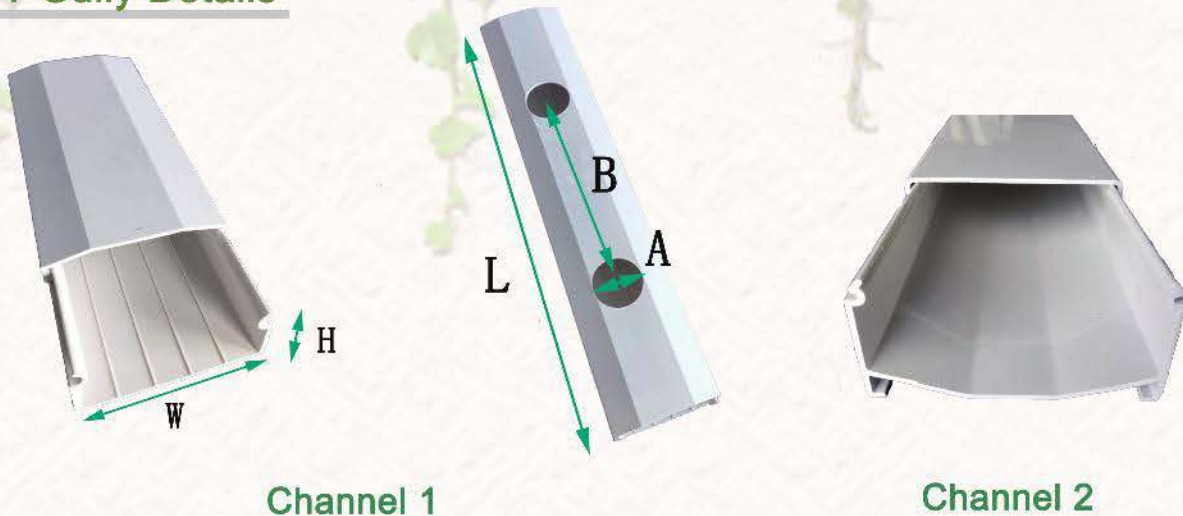
Intelligent Fertigation

Saw Tooth Greenhouse

NFT Gully

Nutrient film technique(NFT) is a hydroponic technique wherein a very shallow stream of water containing all the dissolved nutrients required for plant growth is re-circulated past the bare roots of plants in a watering gully, also known as channels or gullies.

NFT Gully Details



	Channel 1	Channel 2
H	50mm/80mm/100mm	50mm
W	100mm	
L	ANY	
A	$\phi 30/\phi 45/\phi 50$ mm or customized	
B	150/200/250/300mm or customized	
Material	Food Grade PVC	
Thickness	2.0/2.5mm	2.0mm

Accessories



NFT Fixed Bench System

NFT Fixed Bench System

The Fixed Benches system are most popular for lettuce, herbs, leafy greens, strawberries. Standard NFT Fixed Benches typically use 8pcs (Width 1.6m) 100x50mm gullies each set, standard length is 5m, other length can be supported. 8pcs gullies is the standard width for you to plant and harvest from both sides.



Size: 5.0 x 1.6 x 0.7m (L,W,H)

Application Show

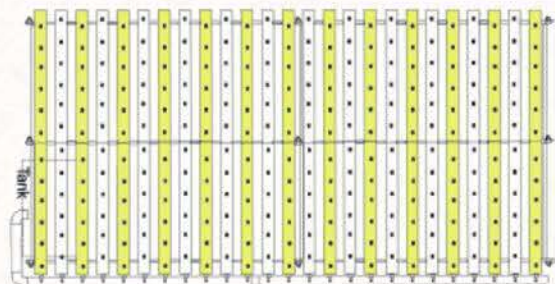


NFT Sliding Bench System

NFT Sliding Bench System

NFT Sliding Bench System is the most efficient user of greenhouse space for any type of NFT system.

- It has the highest yield per m² of greenhouse space for any type of NFT system.
- It's a manually operated system requiring two workers to plant, harvest and move the gullies.
- The nutrient solution is recirculated through the pump room and automatically dosed and re-oxygenated.



Application Show



Vertical NFT Hydroponic System

Vertical NFT Hydroponic System

Vertical NFT Hydroponic System is the technique used in big commercial hydroponics systems.

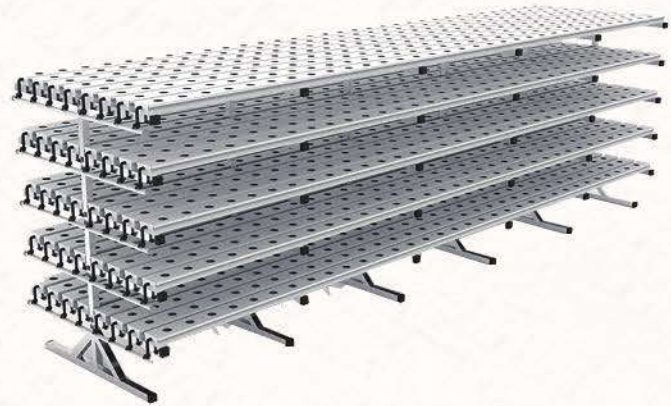
The vertical growing system can increase the harvest two or three times compared to the horizontal NFT system.

All Sizes of the NFT System Can be Customized!



H type

Size: 2.4 x 0.85 x 2.1m (L,W,H)



I type

Size: 5.0 x 1.2 x 1.6m (L,W,H)

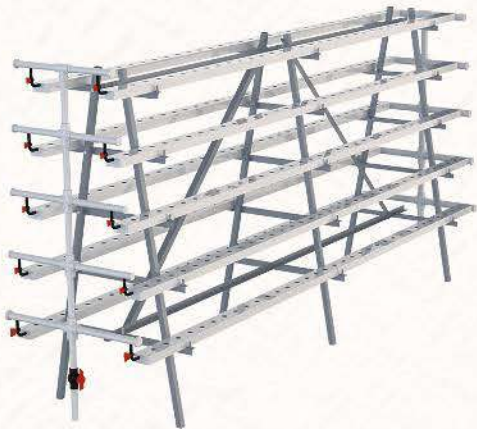
Application Show



Vertical NFT Hydroponic System

There are A type and T type NFT system for your choice. It can be used Square NFT Gullies or Round Pipes.

The standard system has 5 layers, each gully is 5 meters, you can grow at least 250 plants.



A type

Size: 5.0 x 0.6 x 1.5m (L,W,H)



T type

Size: 5.0 x 0.3 x 2.0m (L,W,H)

Application Show



Without Cover--- You can grow Microgreens, Fodders ect.



Material	PVC
Color	White
Size	28*5/25*7cm(W,H)
Length	2 meters, 4 meters or customized



With Cover--- You can grow big vegetables such as Tomatoes ect.



Hydroponic Microgreen System

Microgreen is the shoot of a vegetable plant that is picked just after the first few true leaves have developed.

The Hydroponic Microgreen Growing System is designed to allow for more sunlight to reach between each level. There is even enough space to add artificial lighting above each level. With 5 levels per rack and 4 channels per level, 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 having fresh, beautiful Microgreens available all year around.



Size: 3m x 1.35 x 2.2m(L,W,H)

Application Show



Hydroponics Fodder System

Hydroponics Fodder System is used for animal feeding and can be produced in great numbers within 7days from seed to grass for all livestock, such as sheep, cattle, horse, pig and even chickens.

Optional Sizes

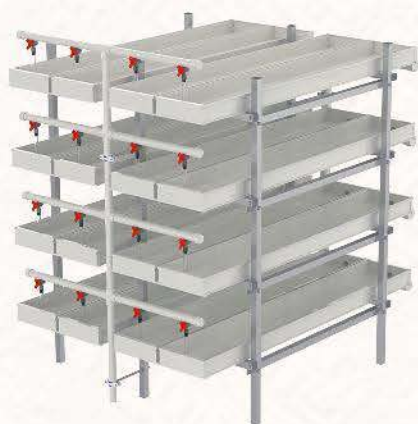
1.5-4 System (4 layers)

Each Layer: 4 channels (1.5 meters)

Daily Output: 25kg

20FT: 51 sets

40FT: 104 sets



Size: 1.5m x 1.35m x 1.2m (L,W,H)

2-4 System (4 layers)

Each Layer: 4 channels (2 meters)

Daily Output: 35kg

20FT: 41 sets

40FT: 85 sets



Size: 2m x 1.35m x 1.2m (L,W,H)

3-5 System (5 layers)

Each Layer: 4 channels (3 meters)

Daily Output: 60kg

20FT: 24 sets

40FT: 50 sets



Size: 3m x 1.35m x 1.5m (L,W,H)

4-6 System (6 layers)

Each Layer: 4 channels (4 meters)

Daily Output: 100kg

20FT: 17 sets

40FT: 34 sets



Size: 4m x 1.35m x 1.8m (L,W,H)

Hydroponics Fodder System

4-7 System (7 layers)

Each Layer: 4 channels (4 meters)

Daily Output: 125kg

20FT: 15 sets

40FT: 30 sets



Customized size is available !

Size: 4m x 1.35m x 2.1m (L,W,H)

Hydroponics fodder growing process



Day 1 - Soaked Grains



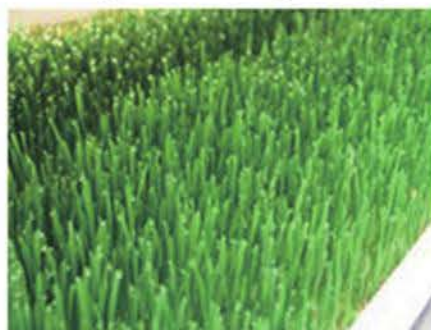
Day 2 - Initial Spouting



Day 3 - Initial Shoots



Day 4 - Root Mat/Stem Growth



Day 5 - Root Mat/Stem Growth



Day 6 - Root Mat/Stem Growth



Day 7 - Harvest Ready



Day 7



Animal Feeding

Hydroponic Fodder System

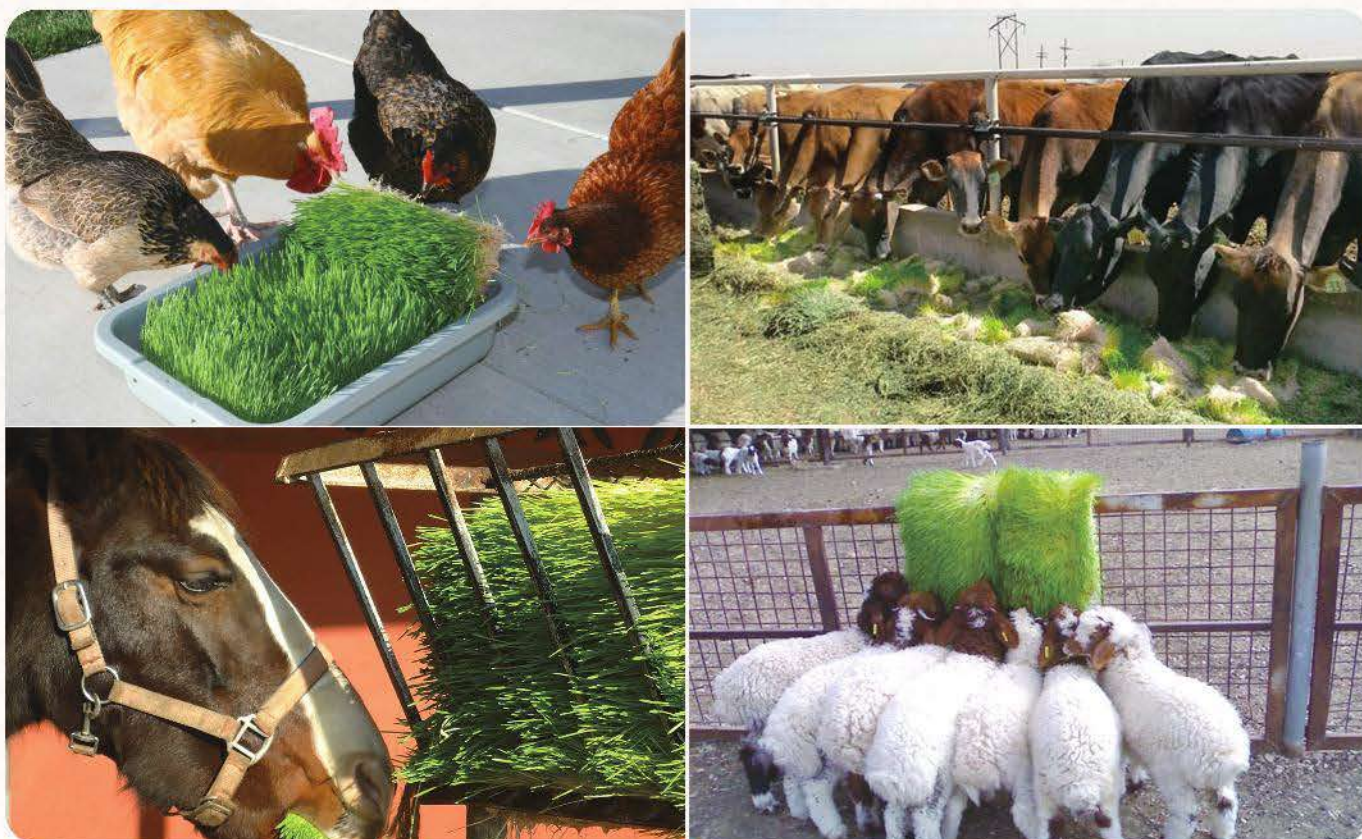
Fodder Growing Tips

1. 1kg seeds can produce about 6.5kg fodder.
2. Seeds for producing green fodder are mainly: barley, wheat, sorghum, corn.
3. 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.
4. After the seeds being soaked for 24 hours, they will sprout with 8-12 hours, and grow to 20-25cm high in 7 days.

Hydroponics Grown 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.

Animal Feeding Show



Commercial Fodder System

NatureHydro modular fodder production 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.

Mode	Type	Poduction (daily) /kg	Daily Seed Need(kg)	Water Consumption (m³)	Electric Consumption (kwh/day)	Labour	The Proposed Facility Area(m)
FS-300	A	300	42-54	0.3m³	8	1-2	6x5x4
FS-500	A	500	70-91	0.5m³	8		7.8x5x4
FS-1000	B	1000	140-182	0.8m³	10		12x6x4
FS-1500	B	1500	210-273	1m³	15		16x6x4
FS-2000	B	2000	280-364	1.5m³	20	2-5	6x4x20
FS-3000	B	3000	420-546	2.2m³	25		6x4x30
FS-5000	B	5000	700-910	3.5m³	35		6x4x50
FS-6000	B	6000	840-1092	4.0m³	38		6x4x60
FS-10T	B	10 TONS	1400-1820	6.0m³	55		12x4x50
FS-10T/50T		10TONS - 50TONS UPON REQUEST					



Container Fodder System

NatureHydro series of modular, containerized systems are designed to fulfill a specific set of customer requirements:



Container Type	Production (Daily)	Air Conditioner	Approx Daily Water Consump	Approx Daily Electric Consump	Dimensions (mm)
20RH	500KGS	1.5P	0.5M3	8 kw/h	6058*2438*2591
40RH	1000KGS	3P	0.8M3	15 kw/h	12032*2438*2896

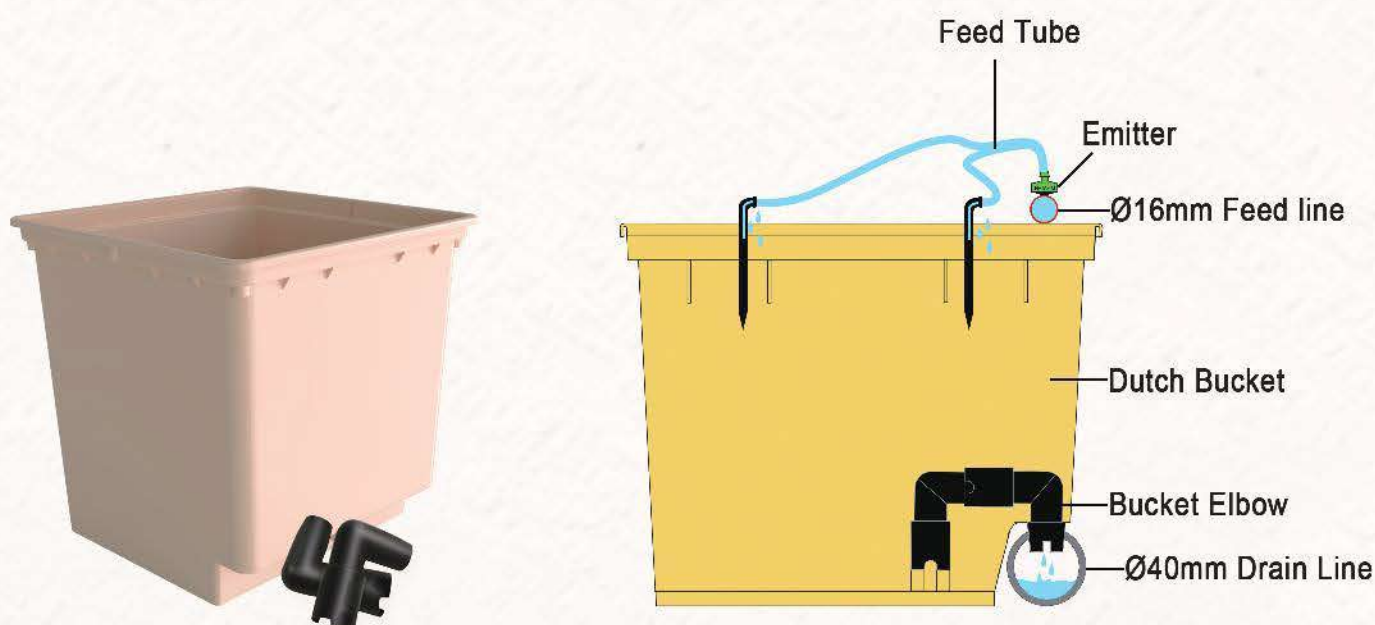


Dutch Bucket

Dutch Bucket is an efficient drip irrigation system and is extremely suitable for larger, long-term crops such as vine tomatoes, peppers (capsicum), eggplants, cucumbers and even roses. You can use just about any type of growing media, including expanded clay pellets, perlite, and coconut coir. It is popular in drought area, or where the soil is not suitable for growing.

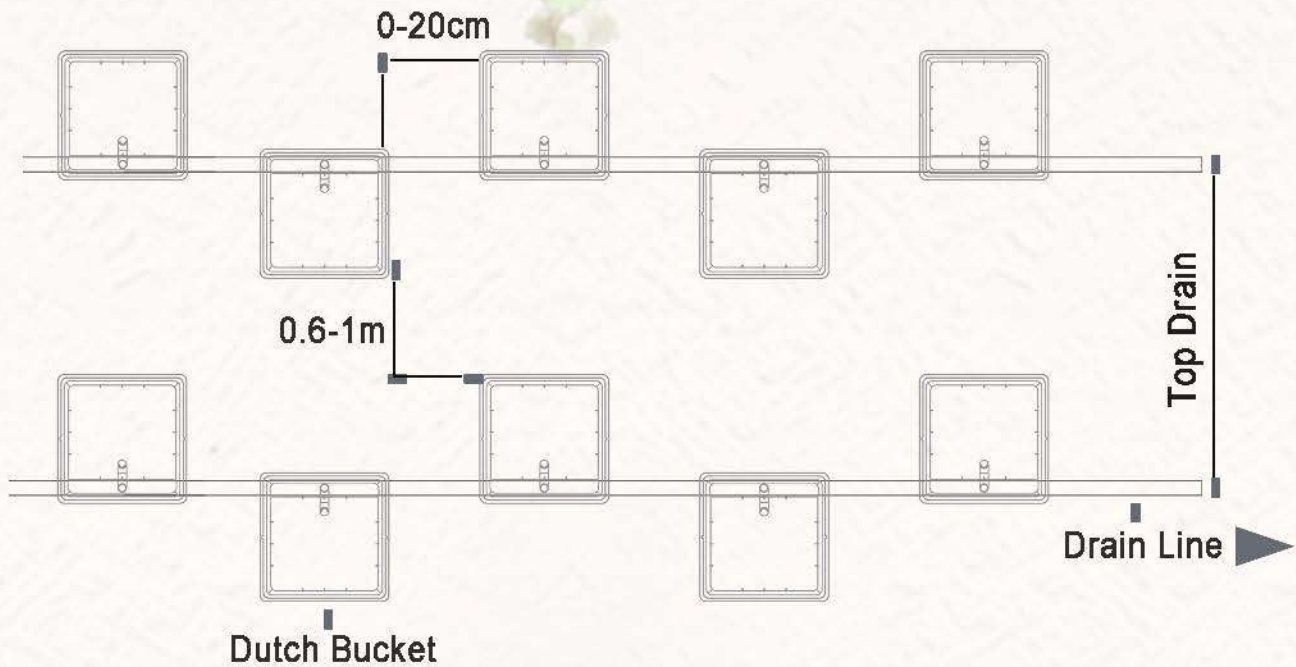
Bucket Details

Bucket Size	30*25*23 cm(L*W*H)	31.5*31.5*35 cm(L*W*H)	35*35*35 cm(L*W*H)
Volume	11 L	24 L	32 L
Weight	0.4 Kg	0.72 Kg	1.15 Kg
Material	Food-grade PP&UV	Food-grade PP&UV	Food-grade PP&UV
Color	Beige,Black or customized	Beige,Black or customized	Beige,Black or customized
Packing Detail	25 * 34 * 162 cm / 30 pcs	Pallet Packing	Pallet Packing
20FT	6600 pcs	6000 pcs	3500 pcs
40FT	13200 pcs	12000 pcs	6000 pcs
40HQ	15500 pcs	15000 pcs	8700 pcs



Dutch Bucket

Greenhouse Layout



Application Show



Bato Bucket

Bato Bucket is as the same material, same use as dutch bucket, both good choice for lettuce, tomato, cucumber, strawberry and other plants.

We have three types of Bato bucket for you to choose from: Bato A, Bato B, Bato C.

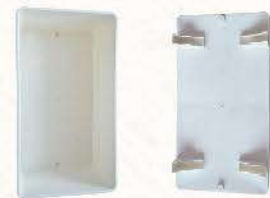
Volume	12.3L	13.9L	21.6L
Size	40.5 x 22.6 x 21.3cm	48.3 x 20.9 x 18cm	48×26.2×25cm
Weight	450g	550g	650g
20FT	5600 pcs	6300 pcs	3625 pcs
40FT	11300 pcs	12600 pcs	7275 pcs



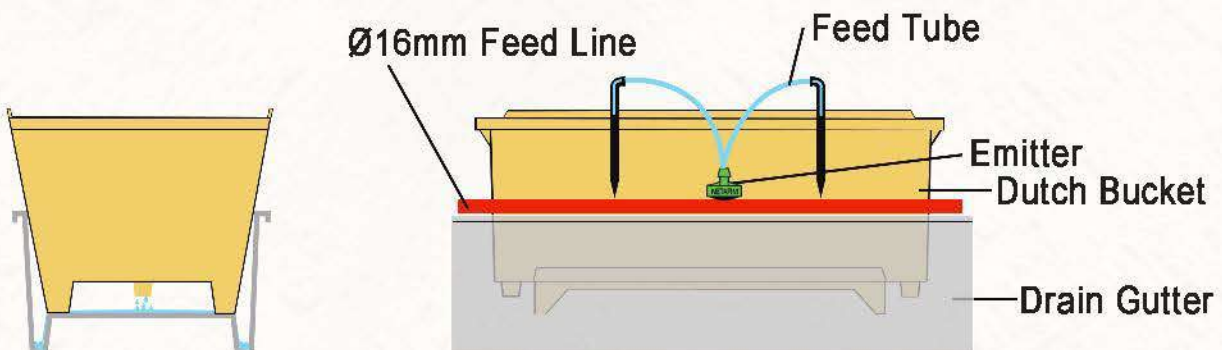
Bato A (12.3 L)



Bato B (13.9 L)



Bato C (21.6 L)



Application Show



These plastic flower pots has high strength and anti-aging properties, allowing you to use them for a long time and repeatedly. Can hold enough soil to ensure the growth of seedlings. There are drainage holes at the bottom of the plant pot, which can keep the roots of plants breathable, promote plant growth and prevent root rot

Specification



Size	16.5x16.5x14cm
------	----------------

Weight	114g
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Material	PP
----------	----

Color	Black, green or customized
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Advantages

1. Classic Square ---- The classic square design, layered appearance, nice-looking, inexpensive, lightweight.
2. Eco-friendly ---- Made from high quality PP material, square nursery pots are strong.
3. Durable ---- Adopting injection molding process, ensures long lifespan and reusable.
4. Breathable ---- Unique hollow bottom design with drain holes improves drainage and soil aeration, promotes plants to grow.
5. Easy handling ---- Reinforced rim design for easy handling and stacking. Several sizes for your planting needs.

Square Pot is suitable for various crops. The pot has a optimal drainage, preventing wetter spots in the substrate. Additional drain holes for drainage. The pot has hig legs at the bottom. The opening makes it possible to place a plastic drainage gutter under the pot to collect the drain water. Because of the high legs there is plenty of space between the bottom of the pot and the ground, reducing the chance of disease.

Specification

Volume	4.7L/5L	Size	20x20x19.5cm
Weight	175g	Matreial	Food grade PP&UV
Color	Black, Beige, or customized.	20FT	82000pcs
40FT	164000pcs	40HQ	200000pcs

Details



4.7L



5L



4.7L



5L

Advantages and Benefits

- 1) Robust and thickened injection molded plastic makes pots be durable.
- 2) It is highly engineered to minimize growth cycles and increase high densely grown crop yields. Such as tomatoes, blueberry, strawberry, blackberry, etc.
- 3) Level-designed drainage provides optimum airflow for the root, also avoids of pooling, prevent sushine and disease, make the roots grow healthily.
- 4) It is designed smarter and has an efficient nestable stack, which allows a larger quantity to be stacked per pallet, saving on shipping costs.
- 5) Ribs on walls prevent root spiralling growth, keeping roots from chocking themselves.

Application Show



The 7L Square pot is the narrow version of the 10L pot, suitable for the growth of several crops such as Raspberries. The pot has a complete grid base for optimum drainage, this reduces the chances of water logging in the substrate. Due to the 4 legs, there is no contact between the roots and ground, and therefore there is less chance of soil borne diseases becoming a problem.

7L Square Pot



Size	20.3 x 20.3 x 25.8cm (L,W,H)
Volume	7L
Weight	200g
Matreial	Food grade PP&UV
Color	Black, Beige, or customized.
Packing	100pcs/carton
Packing size	21.4*42.8*85.5cm
20FT	36000pcs
40FT	72000pcs
40HQ	90000pcs

9L Substrate Trough



Size	47.8 x 22.1 x 11.2cm (L,W,H)
Volume	9L
Weight	400g
Matreial	Food grade PP&UV
Color	Black, Beige, or customized.
Packing	50pcs/carton
Packing size	71*24*49cm
20FT	18000pcs
40FT	36000pcs
40HQ	45000pcs

Advantages

- 1) V-shaped folded surface treatment, make the pot more stronger.
- 2) Bottom bevel design: More beneficial to plant growing and air circulation.
- 3) Stackable design: Maximize stack height and save on shipping cost.



Application Show



Drainage Collection Pot as the dutch bucket's upgrading. It is an efficient drip irrigation system and is extremely suitable for larger, long-term crops such as vine tomatoes, peppers (capsicum), cucumbers and even roses. You can use growing media of coconut coir for planting.

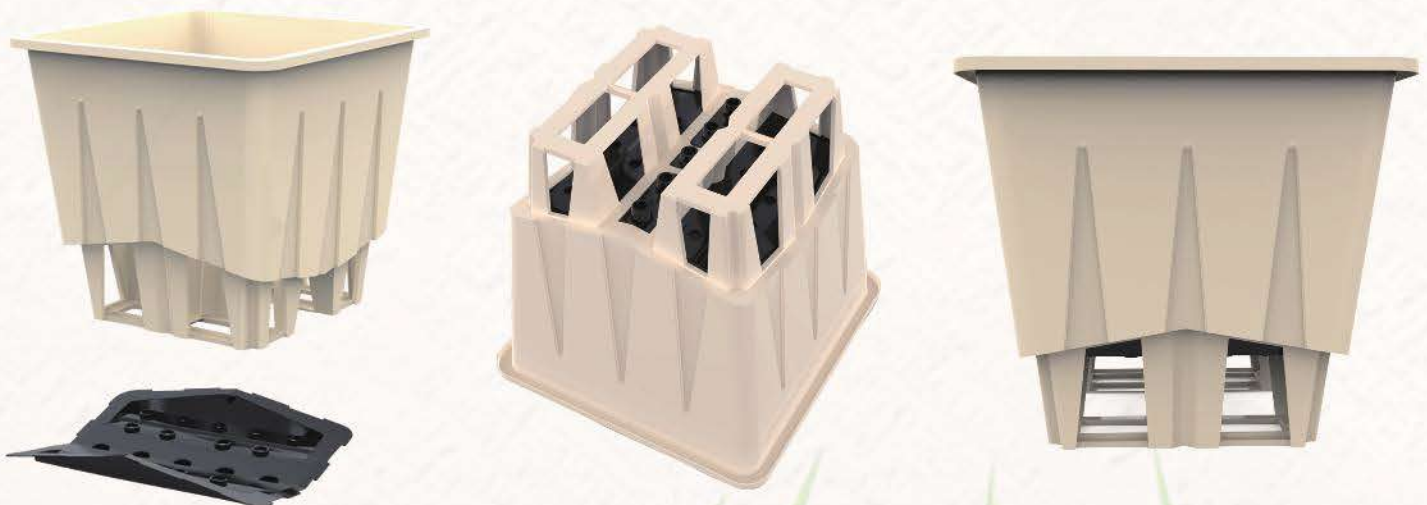
Drainage Collection Pot are suitable for greenhouse hydroponics system. The biggest advantage is 100% drainage collection. No water accumulates at the bottom, causing plant root mold. What's more the roots will absorb more oxygen which better for growing.

Drainage Collection Pot



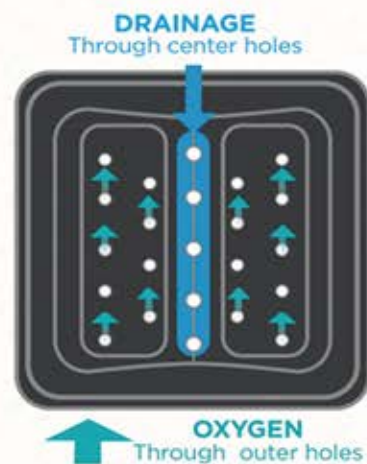
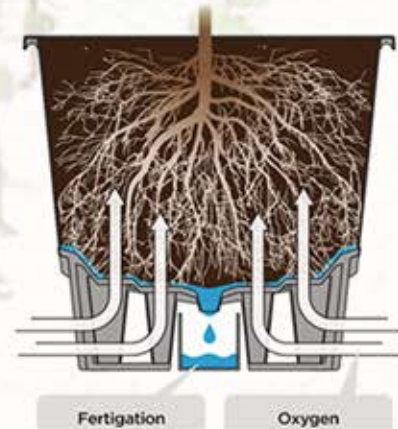
Bucket Size	29cm × 29cm × 28cm
Volume	10L
Weight	0.4kg
Material	Food-grade PP&UV
Color	Beige, black or customized
Packing Detail	25pcs/carton
Carton Size	87.5cm × 30.5cm × 30.5cm
20FT	8600 pcs
40FT	17200 pcs

Details



Advantages

- 1) 100% Drainage Collection
 - Control humidity within tunnels.
 - Excellent oxygen uptake.
 - Cost effective system design.
 - Avoid environmental impact of drainage.
- 2) Long Legs (55-85mm/2.2-3.3")
 - Prevents root contact with soil.
 - Prevents contact with pathogens.
 - Improves drainage and rootzone health.
- 3) Excellent Drainage & Root Ventilation
 - 5 center holes drain into inexpensive gutter.
 - 18 side holes allow oxygen uptake to prevent anaerobic conditions.
 - Wide legs are stable even on soft surfaces.



Application Show



The 25 liter substrate pot is our newly designed product, enlarged and improved based on our 10 liter drainage collection pot. With long standing legs on the bottom, there is enough space between the ground and the pot, which will reduce the risk of disease, increase the health of the plant and allow the grower to feed the plant very well without drowning the plant.

There was a huge demand for pot with better drainage, better airflow and better isolation from diseases. Our design does not only optimize drainage, but also allow air to enter the pot to increase root health. Reusable, durable pot designed for maximum root development. This pot is great for fruits and vegetables, alternative crops, and woody ornamentals.

Specification

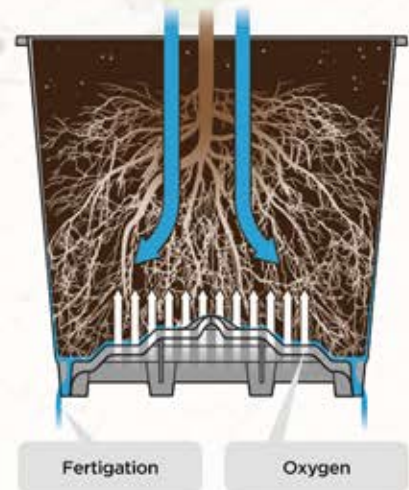
Volume	25L / 6.6Gallon	25L / 6.6Gallon
Size	36 x 36 x 33cm	35.4 x 35.4 x 33.7cm
	14 x 14 x 13inch (L,W,H)	13.9 x 13.9 x 13.3inch (L,W,H)
Weight	680g	686g
Matreial	Food grade PP&UV	Food grade PP&UV
Color	Black, Beige, or customized.	Black, Beige, or customized
Packing	Pallet packing	Pallet packing
20FT	11340pcs	13482pcs
40FT	25200pcs	26964pcs

Details



Advantages and Benefits

- 1) Robust and thickened injection molded plastic makes pots be durable.
- 2) It is highly engineered to minimize growth cycles and increase high densely grown crop yields. Such as tomatoes, blueberry, strawberry, blackberry, etc.
- 3) Level-designed drainage provides optimum airflow for the root, also avoids of pooling, prevent sushine and disease, make the roots grow healthily.
- 4) It is designed smarter and has an efficient nestable stack, which allows a larger quantity to be stacked per pallet, saving on shipping costs.
- 5) The square shape allows for more density in both growing and shipping.



Application Show



Blueberry Pot

To meet request from different customers and also meet the increasing market request of round pots, we have developed the 25-liters&30-liters round pot with grooves, which is ideal for the blueberry production in substrate due to its exclusive design developed to maximize drainage and oxygen uptake to maintain healthy roots and plant vigor.

The design does not only optimize drainage, also allow air to enter the pot to increase root health. Reusable, durable pot designed for maximum root growth. This pot is great for soft fruits, like blueberry.

Specification

Volume	25L / 6.6 Gallon	30L / 8 Gallon
Size	φ38.5 x 34cm	φ40.7 x 38cm
	φ15 x 13.4inch	φ16 x 15inch
Weight	650g	740g
Matreial	Food grade PP&UV	Food grade PP&UV
Color	Black, Beige, or customized.	Black, Beige, or customized.
Packing	Pallet packing	Pallet packing
20FT	11300pcs	8600pcs
40FT	22600pcs	17200pcs

Details



Advantages and Benefits

- 1) Robust and thickened injection molded plastic makes pots be durable.
- 2) It is highly engineered to minimize growth cycles and increase high densely grown crop yields. Such as tomatoes, blueberry, strawberry, blackberry, etc.
- 3) Level-designed drainage provides optimum airflow for the root, also avoids of pooling, prevent sushine and disease, make the roots grow healthily.
- 4) It is designed smarter and has an efficient nestable stack, which allows a larger quantity to be stacked per pallet, saving on shipping costs.
- 5) Ribs on walls prevent root spiralling growth, keeping roots from chocking themselves.



Application Show



Blueberry Pot

With the increasing demand of drainage collection from growers, our technical team have developed 25L&30L round pot with drainage collection bottom. These pots are with even higher legs(5cm) , improving the yield and at the same time avoid enviromental impact of drainage.

The design does not only optimize drainage, also allow air to enter the pot to increase root health. Reusable, durable pot designed for maximum root growth. This pot is great for soft fruits, like blueberry.

Specification

Volume	25L / 6.6 Gallon	30L / 8 Gallon
Size	φ38.1 x 33.5cm	φ40.5 x 38.3cm
	φ15 x 13.2inch	φ16 x 15inch
Weight	628g	679g
Matreial	Food grade PP&UV	Food grade PP&UV
Color	Black, Beige, or customized.	Black, Beige, or customized.
Packing	Pallet packing	Pallet packing
20FT	12825pcs	11096pcs
40FT	25650pcs	22192pcs

Details



Advantages and Benefits

- 1) With 100% drainage collection bottom.
- 2) It is highly engineered to minimize growth cycles and increase high densely grown crop yields. Such as tomatoes, blueberry, strawberry, blackberry, etc.
- 3) Level-designed drainage provides optimum airflow for the root, also avoids of pooling, prevent sushine and disease, make the roots grow healthily.
- 4) With higher legs(5cm) . smart nestable stacking, can pack more per container, saving shipping cost
- 5) Ribs on walls prevent root spiralling growth, keeping roots from chocking themselves.
- 6) with more holes on side walls, even better air ventilation



Application Show



Blueberry Pot

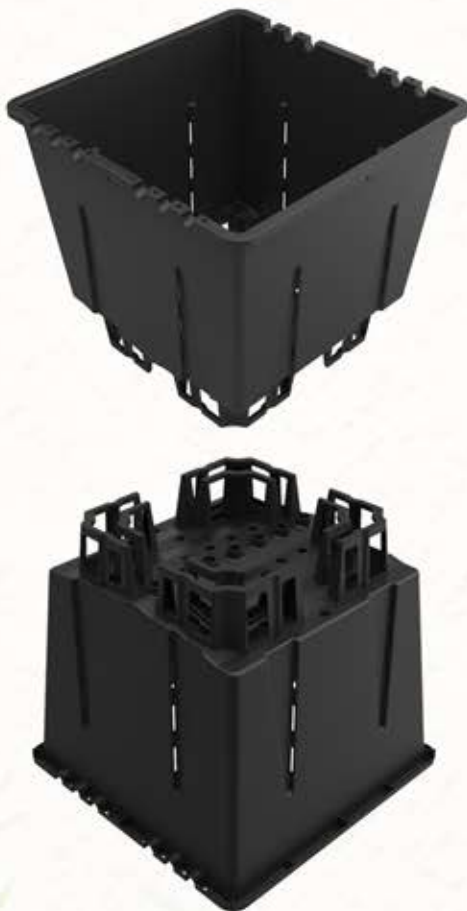
Square Pot is suitable for various crops. The pot has a optimal drainage, preventing wetter spots in the substrate. Additional drain holes for drainage. The pot has hig legs at the bottom. The opening makes it possible to place a plastic drainage gutter under the pot to collect the drain water. Because of the high legs there is plenty of space between the bottom of the pot and the ground, reducing the chance of disease.

Specification

Volume	30L / 8 Gallon	40L / 10.5 Gallon
Size	37.5x37.5 x 34cm	φ45.9 x 39.7cm
Weight	760g	855g
Matreial	Food grade PP	Food grade PP
Color	Black, Beige, or customized.	Black, Beige, or customized.
20FT	13050pcs	9125pcs
40FT	26100pcs	18250pcs

Details

30L



40L



Advantages and Benefits

- 1) Robust and thickened injection molded plastic makes pots be durable.
- 2) It is highly engineered to minimize growth cycles and increase high densely grown crop yields. Such as tomatoes, blueberry, strawberry, blackberry, etc.
- 3) Level-designed drainage provides optimum airflow for the root, also avoids of pooling, prevent sushine and disease, make the roots grow healthily.
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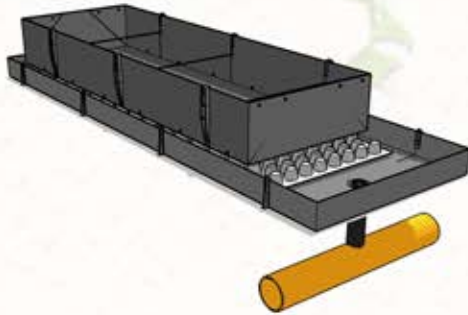
Application Show



PP Trough

PP trough is the most economical hydroponic products compared with buckets and NFT gullies. It is a good option especially for the planting that don't have demanding for water recycling. Tomatoes, cucumbers, peppers, flowers like roses are mostly suitable growing in it.

Specification



Thickness	0.7mm or customized
Packing	100m/roll
Color	All Black Inner black & outer white

Planting trough	Drainage trough
(H,W,H)	(H,W,H)
20*20*20cm	5-25-5cm
20*30*20cm	6.5-35-6.5cm
20*40*20cm	6.5-45-6.5cm
20*50*20cm	6.5-55-6.5cm
25*30*25cm	6.5-35-6.5cm
25*40*25cm	6.5-45-6.5cm
25*50*25cm	6.5-55-6.5cm
30*30*30cm	6.5-35-6.5cm

More sizes are coming...

Accessories



Pegs



Clip laces



Fixed clip



Button

Details



Hydroponic Gutter

The Hydroponic Gutter is suitable for growing strawberry, tomato, peppers and other plants.

Strawberry vertical cultivation in greenhouse can greatly save greenhouse land, improve greenhouse use area and space, reduce pests and diseases, and facilitate daily management. It is a new modern strawberry cultivation techniques.

Planting Gutter

Top width*Height*Bottom width	Length
-------------------------------	--------

30x25x20cm	<6m
------------	-----

22x18x12cm	<6m
------------	-----

18x20x12cm	<6m
------------	-----

18x17x12cm	<6m
------------	-----

18x16x12cm	<6m
------------	-----

15x9x10cm	<6m
-----------	-----

16x15x8cm	<6m
-----------	-----

Planting Gutter with Drainage

Top width*Height*Bottom width	Length
-------------------------------	--------

18x16x12cm	<6m
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19x16x12cm	<6m
------------	-----

21x18x13cm	<7m
------------	-----

30x20x20cm	<6m
------------	-----



Application Show



Accurate use of water and nutrients is critical to the good performance of the crop. The fertigation system ensures that the correct fertilizer is matched each time when the crop is watered. which will ensure optimal crop growth, increase yield, improve color and taste, extend shelf life and increase disease resistance. Practice has proved that intelligent fertilizer application can help you increase the production per square meter, widely used in containers, greenhouse and other fields.

Intelligent Fertilizer



Size	77.5x50x75cm (L,W,H)
Power supply	220V/110V
Motor power	1.1kw
Fertilizer pump flow rate	4.2m ³ /h
Fertilizer pump head	38m
Pipe mouth size	Dn25
Fertilizer channel	4
Suction method	Peristaltic pump
Maximum absorption capacity	1.1L/min

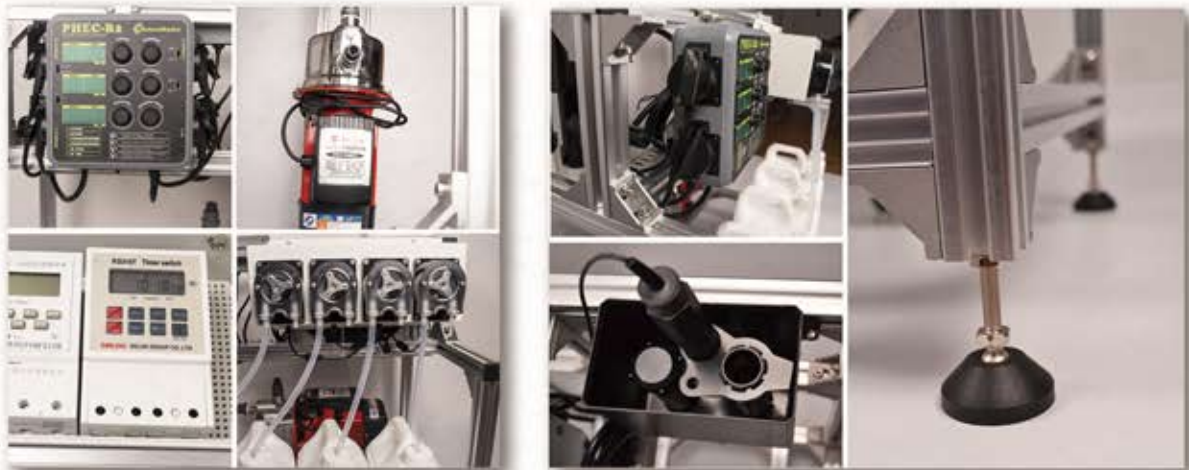
The main function:

- EC and PH values can be customized
- Channel selection
- Online or standard solution for EC and PH correction
- EC and PH use digital sensor without secondary transmission error
- Record EC and PH values
- Timing control of the water pump on or off
- It can monitor EC and PH curve changes and other data on the PC side.

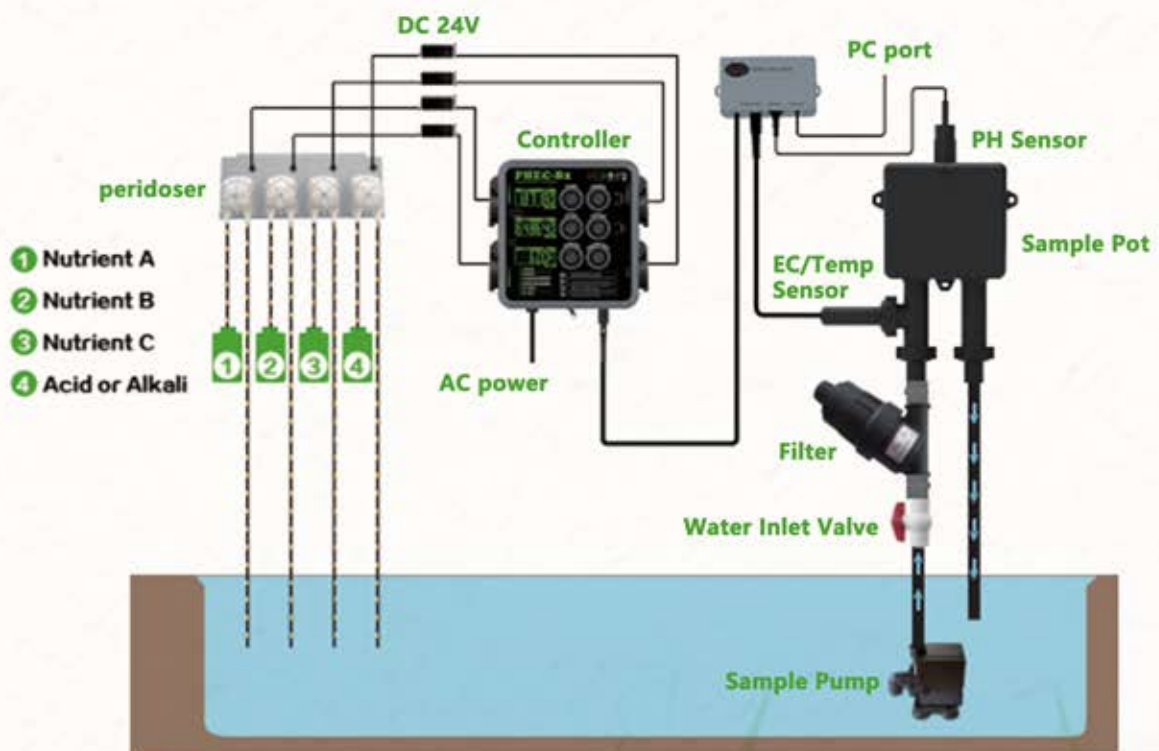


Advantages

- Safe and reliable
- Flexible and efficient
- Save costs through water reuse
- Durable, low maintenance
- EC, PH sensor monitoring
- Covers an area of only 0.4 square meters



Operation flow chart



Intelligent Fertigation

The Intelligent Fertilizer consists of 3 main components: Input Module, Expansion Module, Control Module. You can get complete system, Or if you already own a timer and valves, the system can be adapted to your current setup. You just need to exclude the control panel and last expansion panel to the piping leading to your valves and timer.

Intelligent Fertigation



Size	160x80x18cm (L,W,H)
Power supply	220V/110V
Working water pressure	0.1-0.6Mpa
Work flow	10-2500L/H
Drug injection speed	0.02-50L/H
Adjustment ratio	0.2%-2% (1:500-1:50)
Pipe size	Dn20
Fertilizer channel	3-8
The electromagnetic valve	0-10
EC	0.00-10.00ms/cm
PH	0.00-14.00ph
Water temperature	-50.0-100.0℃

The Intelligent Fertigation include

- 1.Unions for quick connect/disconnect of system parts, no tools required;
- 2.Waterproof, chemical-resistant mounting board and bracket;
- 3.Plug and play operation: All required components are attached to the board;
- 4.Suction hose with strainer;
- 5.Control panel, which displays PH, EC, water temperature;
- 6.Manure applicator: Extract the required proportion of nutrient solution, mix it thoroughly through a static mixer, and flow into the next manure applicator;
- 7.Irrigation area: It can be extended to 10 solenoid valves to control different irrigation areas.
- 8.Simple PLC: Can timed irrigate for areas of 10 solenoid valves controlled areas;

Application Show



Input Module



Expansion Module



Control Module

Saw Tooth Greenhouse

The span size of this model makes it the most ventilated and strongest of all models. It can be reinforced for wind load of up to 180 M/h.



Span	6.4m
Height under gutter	4 , 4.5 , 5m
Height at the peak	6--6.5m
Distance between arches	4m
Arch diameter	Ø 2''
Posts	3''
Wind resistance	150-180km/h
Trellising capability	25kg/m ²
Size of roof vent opening	1.6m
Climate Condition	All climate

Heavy rainfall suitable and wind load up to 180 km/h !

Advantages

- High roof openings for natural ventilation.
- Optimal heat and humidity release.
- Structure suitable for warm and moderate-cold climates.
- Basic columns – 3" diameter – every 4 meters.
- Roll-up curtains on side wall openings and on roof openings.
- This type is suitable for polyethylene coverings only.

Application Show





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