Emesh Farms Technik

The Healthy Planet

Hydroponic Vegetables Components

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Hydroponic Dutch Bucket

Hydroponic Dutch bucket is the best choice for growing big fruity vegetable plants like Tomato, cucumber, capsicum, cherry tomato etc. Best advantage they have over other hydroponic formats like grow bags or trough system is that nutrients water is recyclable. It helps saving a great deal of nutrients, hence the growing cost.

We manufacture Hydroponic dutch bucket ourselves and it comes with following features:

- Virgin quality PP
- Yellow cream colour
- 30cm X 25 cm X 23 Cm with Siphon (2 of them)
- Water Recycling connections
- It is typically used with Hydroton (and sometimes also mixed with Perlite). In one dutch buckets around 10 Liters of Hydroton is used. Hydroton is not provided by default with the Dutch buckets however, it can be supplied on demand.

Hydroponic Indoor Grow Lights

Hydroponic Indoor Grow Lights are ideal choice for growing indoor vegetables. They are typically available in 3:1 or 4:1 Red and Blue ratio and offer the best 400-700 nm spectrum to the plant. Photosynthesis activity is highest in this range and plant energy is best utilized.

Emesh supplied Hydroponic Indoor grow lights comes in strip form and they are high power, High PPFD. Following are few important features:

- Lights are fitted with very bright 5050 chipset
- They are available in 3:1 and 4:1 options
- They have high PPFD (Photosynthetic Photo Flux Density) rating of 35-50 µmol/m2/s at 6 inch distance. Higher the PPFD, higher the plant growth.
- Power rating is 12w/meter.
- Hydroponic indoor Grow light Strip is available in 3 or 5 meter standard size.
- They are typically used with NFT (nutrient film technique)
- Emesh makes the grow light stands, which allows lights position to move up and down for the best vegetable growing results.

Hydroponic NFT Channels

Hydroponic NFT Channels are self designed and indigenous manufactured by Emesh Farms technik. They are made of food grade, virgin plastic (with Guarantee) NFT channels in 2 sizes. These top open- able channels are easy to slide and clean to ensure no deposition at the bottom.

Following are the main features:

- NFT channels with openable top. (100mmX50mm, 100mmX80mm white color) – Best for Leafy Vegetables and fruiting plants like Strawberry
- NFT channels can be made in any sizes upto 6 Meter
- We provides holes free of cost as per customer requirements.
- It comes with the End Caps. End caps are of two types – with spout and without spout (same color)
- Spout is of 3/4 inch and suitable to connect with the 3/4 inch UPVC pipes and fittings.
- Hydroponic NFT Channels is made of Virgin plastic. It is food grade and it comes with replacement warranty
- It is normally fitted with the timer setting for water flow and still period

Hydroponic Vegetable Growing Netcups

Emesh Hydroponic vegetable growing netcups are ideal choice for growing crops using Hydroponic. They are an ideal choice for growing all kinds of leafy vegetables and fruity plants like Strawberry. It provides a good support and act as media holder. Also, contains the root growth and provide some protection from direct sun light to the root.

Following are few features:

- High quality, virgin plastic, food grade
- Available in 2"(depth) and 3"(depth) sizes
- Works well for all types of NFT (Nutrient film technique) pipes; circular or flat
- Ideal media holder for DWC (Deep water culture), Vertical tower (Aeroponics tower) or Dutch bucket system
- Long life, sturdy and great load bearing.
- Design to sustain the plant load of up to 50KG

Hydroponic Vertical Aeroponics Tower

Hydroponic Vertical Aeroponics Tower provides very high density of plants with no compromise on the growth. Aeroponics Vertical tower gives the dual power of nutrient through fogging and through drip rains. Roots get the maximum air and hence display most optimum growth. Multiple towers could be connected to form one single setup.

Following are its main features:

- It has flexible plant hosting blocks of 6 inches size. We can increase or decrease number of plants by removing or adding blocks.
- Typically, the tower has 40 plants – 6.5 Feet height, 6" diameter
- Made of PP and ABS, It is White in colour. 2 mm thickness
- Dual system of fogging and raining of water inside the tower
- 100% water recycling
- Time Setting for water flow, still period
- System for tower cleaning, maintenance and tower parts removal
- System for individual towers to add/removal the towers from the system
- Hydroponic Vertical Aeroponics Tower is suitable for all leafy plants or small plants like chilly, strawberry etc.

Temperature Sensor Hydroponic PLC Control system

Emesh temperature sensor and control for Hydroponic Shadenet fodder and Vegetable system allows long range of temperature setting using the Software. Automatically control up-to 4 electrical equipment e.g. Pumps, lights, foggers etc

1 Year Warranty. – System comes with all electrical protections. It is completely Plug and Play and supplied with detailed manual. Following are the main features:

- Temperature sensor and PLC control system is used in Hydroponic Shadenet fodder and Vegetable system
- Allows Any temperature setting along with the range
- Software to automatically control up-to 4 electrical equipment e.g. Pumps, lights, foggers etc can be controlled through with interplay logic
- 1 Year Warranty. – System comes with all electrical protection
- Plug and Play – Detailed manual for all settings