

Tefais Starter Kit
Smart Urban farming with Hydroponics

User Manual

Germination Process:

1. Begin by placing coco peat into the tray and lightly moisten it with RO water.
2. Evenly spread the coco peat across the germination tray.
3. Firmly press down the coco peat within the germination tray using the second provided germination tray.
4. Take the necessary seeds and carefully position them in each designated slot.
5. Tidily cover the seeds with the coco peat.
6. Secure the germination process by placing the second provided germination tray on top.
7. Position the prepared germination tray in a corner of the room.
8. Allow 3 to 4 days for the plants to successfully germinate.

Prepare Your Nutrient Water:

1. Start by acquiring 1 litre of RO or drinking water.
2. Assess the Total Dissolved Solids (TDS) of the water:
 - a. Submerge the TDS meter in water and turn it "ON/OFF."
 - b. Press the "hold" button and record the value displayed (should be below 60).
3. Begin the nutrient mixture:
 - a. Firstly, add 5 ml of Nutrient Solution A to the water and mix thoroughly with a metal spoon.
 - b. Similarly add 5 ml of Nutrient Solution B and mix thoroughly.
4. Check the TDS of the water:
 - a. Follow the procedure in Step 2 to achieve the desired TDS range:
 - 700-800 (Beginning stage)
 - 1000-1100 (Intermediate stage)
 - 1300-1400 (Harvest stage)
 - b. If TDS is below the desired range, keep adding nutrient solutions A and B in equal amounts till you get the desired TDS range.
 - c. If TDS surpasses the target, dilute by adding more RO water.
5. Check the pH of the water:
 - a. Immerse the pH meter in water and turn it "ON/OFF."
 - b. Check the pH falls within 5.5 to 6.5 after adding nutrient solutions.
 - c. Adjust pH if necessary:
 - If below 5.5, mix a few pH Up crystals accordingly.

- If above 6.5, use the dropper and mix a few drops of pH Down solution accordingly.

Your nutrient water is now ready for application to the plants.

Setting up the Kit:

1. Assembling the Air Circulation System:
 - a. Take the air pump and connect the silicone tube.
 - b. Insert the tube into the small hole located on the kit's lid.
 - c. Position the air stone inside the tray and connect it to the silicone tube.
 - d. Plug the air pump into a power source.
2. Filling with Nutrient Water:
 - a. Pour the nutrient water into the tray until it reaches halfway up the net pot.

Placing the Plants into the Kit:

1. Preparing the Germination Tray:
 - a. Retrieve the germination tray.
2. Transferring the Plants:
 - a. Gently squeeze the bottom of the cavity in the germination tray.
 - b. Slowly pull the plant out of the cavity and place it in a net pot.
3. Adding Clay Pellets:
 - a. Place 5 to 6 clay pellets in each net pot.
4. Arranging Net Pots in the Kit:
 - a. Position each net pot in the designated holes on the kit's lid.

Placement:

1. Place the kit indoors, preferably near a window, for the next few days.
2. Once the plants have grown a bit, shift them outdoors for better sunlight.

Your kit is now set up and ready to nurture the plants

Enjoy your Tefais Hydroponics kit, Urban farmer.