



HORTIVINYL[®]
PRODUCTS FOR HYDROPONICS

A Brand by  **TECNOPERFIL[®]**



Installation and Management Manual

Mini Bench Hortivinyl

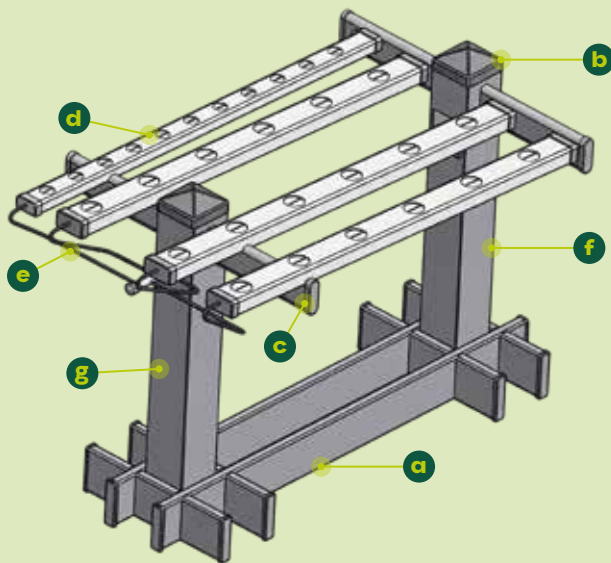
Important: read all instructions before assembling the HORTIVINYL® MINI BENCH, operation, and planting.



Choose a flat location with abundant sunlight and a nearby electrical power outlet. Check if the local voltage is compatible with the MINI BENCH (110V or 220V).

Mini Bench Hortivinyl

It is an automated hydroponic system that allows the cultivation of vegetables without using soil, in small spaces in a simple and practical way.



Composed of:

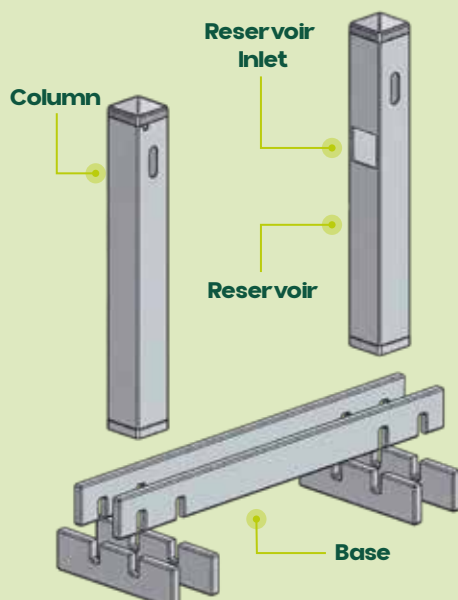
- a) 01 Base
- b) 01 Collector Profile
- c) 01 Crossbeam
- d) 04 Cultivation Profiles
- e) 01 Irrigation System (distributor + hose + pump)
- f) 01 Reservoir Profile with Lid
- g) 01 Column Profile
01 Timer
01 Nutrient Solution

Assembly

Follow the steps in the drawing below:

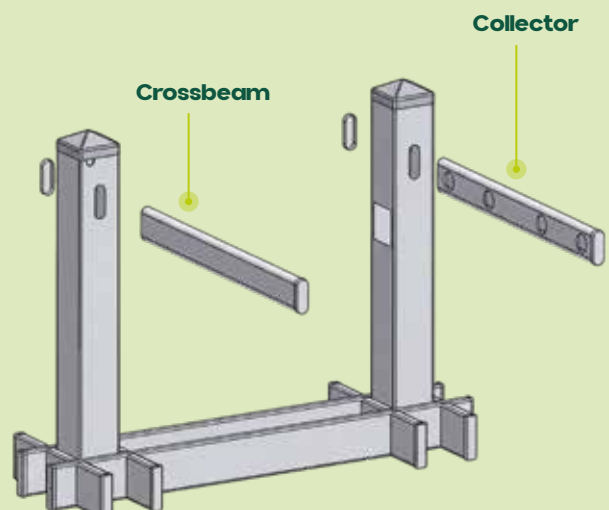
1

STEP 1: Fit the profiles together to form the base, then assemble the reservoir and the column.



2

STEP 2: Fit the collector and the crossbeam, glue the collector caps with PVC glue or silicone.



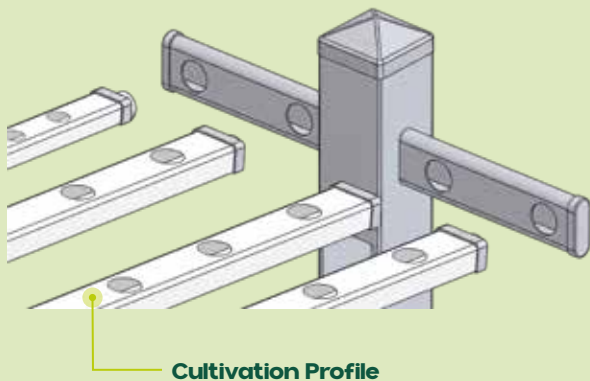
Assembly



Follow the steps in the drawing below:

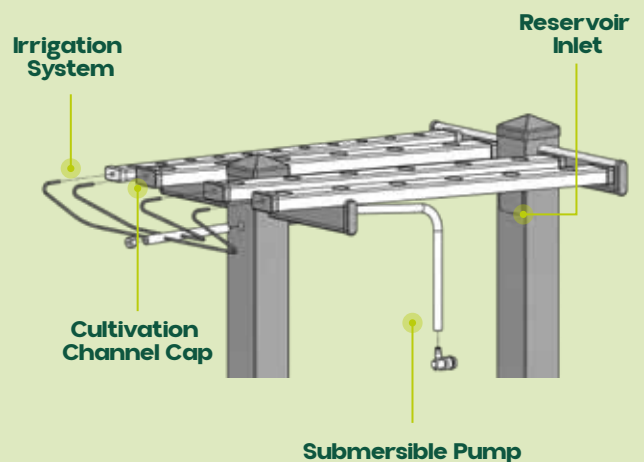
3

STEP 3: Fit the cultivation profiles into the collector.



4

STEP 4: Assemble the irrigation system and insert the submersible pump through the reservoir inlet until it touches the bottom. Fit the nutrient solution supply hoses into the caps of the cultivation channels.



DANGER

To avoid the possibility of electric shocks and equipment damage, do not connect to electrical power while handling the **Hortivinyl® Mini Bench**.

System Cleaning

Use only a soft (non-abrasive) sponge and water to clean the system. Note: In case of clogging, remove the irrigation system, clean it, and reassemble according to **Step 04**.

Management

The **Hortivinyl® Mini Bench** is a soilless planting system, therefore it is necessary to adapt the plants using the following tips:

- Choose the seedlings according to the light availability of the location where they will be grown, which can be: vegetables and/or herbs.
- Carefully remove the soil from the seedlings and transplant them into the cultivation channels.
- It is also possible to grow the seedlings in phenolic foam or similar media.



CAUTIONS

- Do not use soil or peat;
- The **Hortivynyl Mini Bench** must be installed in an environment protected from rain;
- Check if the seedlings are free of pests or diseases;
- In the event of diseases or pests, remove the affected plants from the system so that there is no contamination of the others;
- To empty the reservoir, disconnect the irrigation system from one of the cultivation profiles, turn on the submersible pump, collecting the nutrient solution into a container;
- The pump must always work submerged; running it without water can cause irreversible damage.

Nutrient Solution

The nutrient solution for the **Hortivynyl® Mini Bench** consists of two components, "A" (Hydroponic solution) and "B" (Calcium nitrate), which must be used in the same proportion.

Preparing the Nutrient Solution

Dilute components "A" and "B" separately, each in its own container, as follows:

Each container must contain 1½ liters of water; dilute the amount of 1 teaspoon of each component, separately, in each container. Shake well until completely dissolved.

Combine the two previously diluted components in a 5-liter container; then top up with chlorine-free water and neutral pH. Shake until a uniform mixture is formed, which will be the nutrient solution.

* To eliminate chlorine from the water, leave it exposed to the sun in an open container for approximately six hours.

Place the 5 liters of previously prepared Nutrient Solution into the Mini Bench reservoir to activate the system and start feeding the plants. At the end of the first week, discard it and repeat the nutrient solution preparation procedure.

If necessary, correct the concentration of the nutrient solution by adding water or salts (components "A" and "B").



REQUIRED CAUTION WITH THE NUTRIENT SOLUTION

- Close component packaging tightly and store in a dry, ventilated place away from sunlight;
- Nutrient solution: after dilution, store in a covered, dry, ventilated place, protected from direct sunlight;
- Avoid contact with mucous membranes and wounds; in case of ingestion, seek medical attention;
- Validity of components "A" and "B": see manufacturer's packaging;
- The disposal of the nutrient solution can be done by using it to irrigate and nourish other plants in pots, flowerbeds, or lawns; in this case, add at least five more liters of water and irrigate other plants or the lawn.

Irrigation Time

The **Hortivynyl Mini Bench** features a "timer" to regulate the amount and time of irrigation required daily.

Suggestion: 15 min irrigation with 30 min intervals;

If necessary, change the irrigation frequency to adjust to the plants' needs.

To install, plug the power cable of the submersible pump into the Timer and connect it to the electrical outlet.

Note: To adjust the timer, see the manufacturer's manual attached to the packaging.

ADDITIONAL CAUTIONS

- Check that the local voltage and that of the **Hortivynyl® Mini Bench** are the same (110V or 220V) before plugging it into the outlet.
- Remove the plug from the outlet before performing any management on the **Hortivynyl® Mini Bench**.
- In cases of electrical power interruption, readjust the timer for operation startup.

WARRANTY

The warranty for this product is against manufacturing defects for a period of 10 years from the invoice issue date.

Discover our Range of Solutions



Super
F Line



Super
S Line



Pot Holder Gutter and Slab



Gutter for Substrate Cultivation



Collector Support and Flute Support



Columns and Crossbeams



Collector



Injectors for the Hydraulic System





Hortivinyl is committed to providing customers and partners with the best performance for cultivating vegetables and fruits in the hydroponic growing system. Always attentive to the market, it offers complete solutions in high-quality and highly productive benches, profiles, and gutters, meeting the needs of each project.

In addition to the 10-year warranty, Hortivinyl products are designed using high-grade material (PVC), providing greater durability and efficiency to the cultivation system. Its team of specialized technicians handles the most diverse projects, helping customers and partners with system sizing.

The entire product line from Hortivinyl is recyclable after use, assisting in environmental preservation and the planet's social and economic development.

Products, projects, and quotes

We develop, produce, and market products for hydroponic cultivation with high performance and long service life. Hortivinyl has a technical sales team that assists in project development, evaluating system types, area, and productivity, aiming for the best cost-benefit ratio for its customers and partners.



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A Brand by  **TECNOPERFIL[®]**

We serve all over Brazil and Latin America



WhatsApp
+55 47 3431.1200



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Aware of its role in industry, society, and the environment, TECNOPERFIL strives to implement activities aimed at employee development through a participatory management style that promotes social responsibility. Our commitment is to respect the environment and people through responsible administration policies.

Learn about the socio-environmental actions adopted by TECNOPERFIL.
Access: www.tecnoperfil.com.br/tecno/

The warranty applies to the entire line of Hortivinyl profiles, columns, gutters, crossbeams, and collectors, which carry a 10-year warranty from the date of delivery against flaws, irregularities, or manufacturing defects. For the warranty to be valid, Hortivinyl products must be installed and stored in accordance with the instructions in the Hortivinyl installation and storage manuals. Damage caused by improper operation/use, acts of nature, or damage caused during transportation will not be covered by the warranty. If the product purchased by the customer is no longer in our portfolio, Tecnoperfil will offer as a replacement another similar product currently being commercialized, possessing the same quality and application purpose. In the case of purchasing the Hobby line, the 10-year warranty applies only to profiles, columns, crossbeams, and collectors, while the pump, timer, and other accessories have a maximum warranty of 3 months. Images for illustrative purposes only.