



GHE

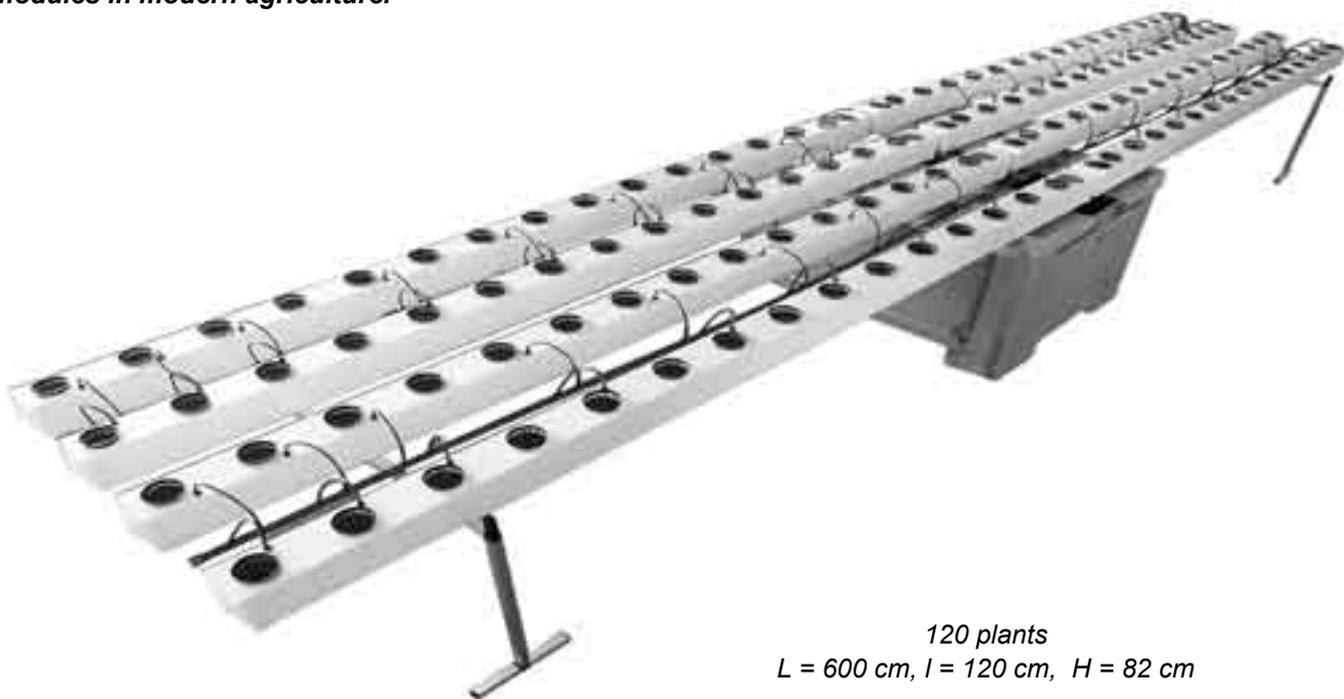
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The AeroFlo 120 L™

Thank you for purchasing an AeroFlo 120 «L».*

The AeroFlo is the highest quality growing system in our industry. It is designed to allow optimal oxygenation of the nutritive solution as well as maximum growth for your plants. It is the ideal system for beginners and professionals alike.

In January 1998, the AeroFlo was selected by the Cité des Sciences (Science museum) in Paris to be presented in their exhibition «Greenhouses: Gardens of the Future», a permanent window on the most efficient growing modules in modern agriculture.



120 plants

L = 600 cm, l = 120 cm, H = 82 cm

To operate your system successfully:

- Always clean your system thoroughly between crops. See «cleaning between crops».
- Get a water analysis from your local water company: to use the fertilizer best adapted to your water (hard or soft), it is important to know it's content.
- Keep the water temperature under 24° C. Ideally between 16 - 20 °C. For your cuttings, always keep it between 22 & 24°C. Never under 22°C !
- Give your plants good lighting, excellent ventilation and adequate humidity (65 - 70 %)
- If you have questions about your water or about the development of your crop, please don't hesitate to contact us. We guarantee a free technical support and advice to all our customers.

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DESCRIPTION

- A 1 Reservoir (600 L) and cover in 2 parts
- B 8 3 m growing chambers (4 left and 4 right)
- C 4 3 m distribution lines
- C1 1 connection tubing for manifold
- D 6 support structures (2 x 1,20 m + 4 x 80 cm aluminium bars)
- E 1 Pump



A



B



C



C1



D

3 Large plastic bags

Bag N°1 :

- F 1 connection tubing (manifold to pump)
- G 8 overflow tubes (Ø 50)
- H 56 x 4,6 mm preassembled spaghetti tubing
- I 56 injectors
- J 4 bags with silicone grease



E

Bag N°2 :

- K 8 Tee connectors
- L 8 x 12 cm alu tubing with black caps

Bag N°3 :

- M 120 net pots Ø 7,5 cm
- N 5 CocoTek pots Ø 7,5 cm
- 5 CocoTek liners Ø 7,5 cm
- 5 CocoTek disks Ø 7,5 cm



O



- O 1 Flora-series 5L
- 1 Set of detailed instructions

ASSEMBLY

The AeroFlos are easy and fast to assemble.

Step 1 – The support system : (designed to carry up to 300 kg/m², it ensures top stability). Assemble the aluminium tubing with the parts and connectors (D + L + K) . Use a small mallet if needed. (fig. 1)

Notice the tees (K) at the upper corners. They allow you to add a vertical structure to hang lights and yo-yos, or to build a protection frame.



Fig. 1

Step 2 – The reservoir :

Place the reservoir (A) and the stands at a sufficient distance so that you can place the growing chambers properly. (fig 2). Place the covers on each side of the reservoir, leaving it open in the middle.

Step 3 – The manifold:

Assemble the distribution lines (C) and the connecting tubing (C1) and place it on the reservoir and the stands (fig. 3 & 3 bis). Introduce the spaghetti (H) into the distribution lines in a staggered way (fig. 4 & 5)

Step 4 – The pump :

Place the pump (E) in the bottom of the reservoir. Connect the manifold to the pump with the connection tubing (F). (fig. 6 & 6 bis).

Notice : leave electric plugs far from the water at all times! To prevent your pump from burning, never let it run while sucking air or when your system is empty.

Step 5 – The growing chambers :

- Introduce the overflow tubes (G) in the access holes in the chambers. To make things easier, spread silicone gel (J) around the overflows, then gently



Fig. 2

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Fig. 3



Fig. 3 bis



Fig. 4

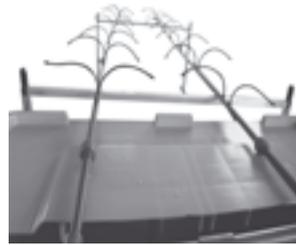


Fig. 5



Fig. 6



Fig. 6 bis



Fig. 7



Fig. 7 bis



Fig. 8

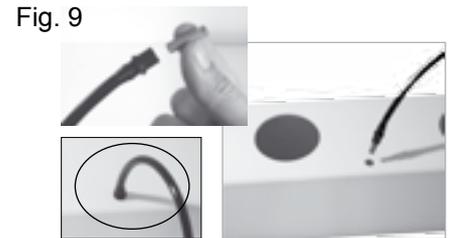


Fig. 9

introduce them in the hole at the bottom of the chambers, making sure you don't undo the rubber grommets (fig. 7 & 7 bis). Use the strap on the overflow to regulate the level of solution in your chambers.

- Place the chambers on the reservoir, with the overflow tubing hanging between the two covers of the reservoir (fig. 8).
- Introduce the injectors (I + H) in the spaghettis and the spaghettis into the chambers (fig. 9 & photo page 1) .

Notice : if by any chance the grommet did come unglued, it is imperative to glue it back with silicone glue to secure the chambers from leaking. Indeed, in case of power failure these are the parts that will keep the solution in the root zone until electricity is restored.

START UP

Your AeroFlo is now ready. The next step is to fill it with nutritive solution with adjusted pH, add a pinch of Mineral Magic (to prevent from disease and stabilise pH), and connect your pump. You are ready to grow.

As soon as your system starts running make verify that all connections are tight enough to prevent leaks.

A precious advantage in case of power failures:

Unlike most systems, the AeroFlo will keep the nutritive solution in the chambers preventing the plant from suffering or dying until electricity is restored.

FILLING AND SYSTEM CAPACITY

Before filling your system it is essential to know its capacity. Another advantage to the AeroFlo indeed is that it secures a sufficient water supply to your plants without needing too large a reservoir. This is why it is important to fill it and empty it taking a few precautions.

1 - Fill your reservoirs first then start the pump to fill the chambers.

2 - When the chambers are full continue filling 2/3 of the reservoirs, not more: if there was a power failure or if you use a timer to run the system only during the day, the reservoirs will need to collect the water surplus without overflowing. **Notice:** To empty the system start with the reservoirs first. Then empty the chambers one by one after pulling out the overflow tubes. (see § Cleaning the System).

Low and high levels

Each growing chamber holds

Low level

12 L

High level

24 L

Effective capacity of the reservoirs : 600 L

Total capacity of the AF120 L : 696 L «low level», and 792 L «high level».

For cuttings and seedlings, the chambers must be full enough so that the bottom of the pot hangs into the solution and the clay pebbles stay damp. As the roots grow, press the overflow tubing down creating an empty space between the bottom of the pot and the nutritive solution. This increases the oxygen level in the chamber while preventing excess humidity in the net pot itself.

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