



Nursery 0.35m2

Opbouw instructies/ Installation instructions/ Installationsanleitung



Version: Augustus 2023



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1. Important information! READ FIRST!

1. Make sure that the plug is always removed from the socket during maintenance, such as replacing the lamps or filter.



2. The Nursery grow box must be connected to an earthed socket.

3. Remove the foil from the panels before starting to assemble.

4. Make sure that the ventilation openings are not blocked, keep a minimum distance of 10 cm from the wall.

5. Make sure that the space around the cabinet is well ventilated.

6. Make sure that the room where the Nursery grow cabinet is placed has a WIFI signal.



2. General specifications:

Power consumption: max. 108 Watts

Dimensions (h x l x w): 180 x 61 x 61 cm

Materials Nursery cabinet: PVC/XPS patented sandwich panels
Aluminum profiles
Plastic insert connectors

Lay out cabinet: 3 floors +/- 35 cm high.

Ventilation: GT 125 mini fan, 185m³/hour, 16 Watt

Filter: PK 2600 mini active carbon filter

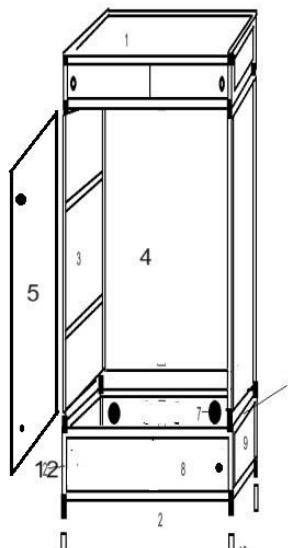
Lighting: -6 x Sanlight Flex II, 10 Watt

Irrigation: -2 x GT 800 boost/circulation pump, 16 Watt

Controller: WIFI Smartbox

Components:

- 1 x top compartment with sliding doors and suspension for lamps, ventilation set, 150 Watt driver and WIFI switch box (no. 1)
- 1 x bottom panel glued in profiles (no.2)
- 1 x intermediate ring with suspension for 1 drip tray (no. 6)
- 2 x side panels with profiles and suspension for 2 drip trays (no. 3)
- 1 x center section back plate (1028 x 563mm no.4)
- 1 x back panel bottom section (328 x 563mm) with holes for air inlets (no.7)
- 2 x bottom section side panels (328 x 563mm no.9)
- 1 x door bottom section (328 x 563mm no.8) inc. hole for lock.
- 3 x locks
- 4 x hinges with screws (8 x self-tapping screw, 8 x bolt M4 8mm countersunk head, 8 x nut M4)
- 4 x aluminum angle profiles (300mm no.12)
- 1 x door center section (1028 x 590mm no.5) inc. holes for locks and handle
- 2 x G-tools air inlets (no.7)
- 1 x door handle with screws and washers
- 4 x aluminum legs (80mm no. 10) with plastic feet
- 6 x Sanlight Flex II 10 Watt grow lamp
- 3 x Sanlight Flex II T connector
- 1 x Sanlight Flex II 4-way Y splitter
- 3 x drip tray 52 x 52 cm with ½" hole
- 3 x lead though drip tray ½"
- 1 x 16 liter water tank with lid.
- 1 x GT800, 800 liters/hour supply pump
- 1 x GT800, 800 liters/hour circulation pump
- 2 x black Tylen drain hose with connections for drip trays and dosing valves.
- 1 x female threaded corner piece with valve and quick coupling
- 1 x yellow supply hose (700mm) with quick coupling
- 1 x yellow drain hose (700mm) with quick coupling
- 1 x PVC water supply pipe (850mm) with quick coupling and dosing valve
- 1 x Instruction manual

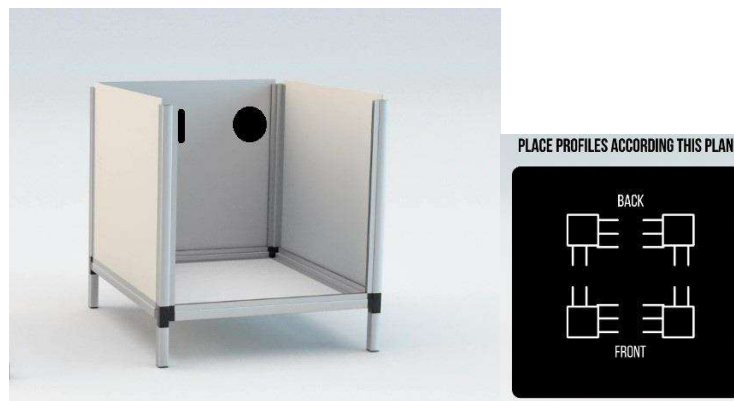


3. Assembly instructions

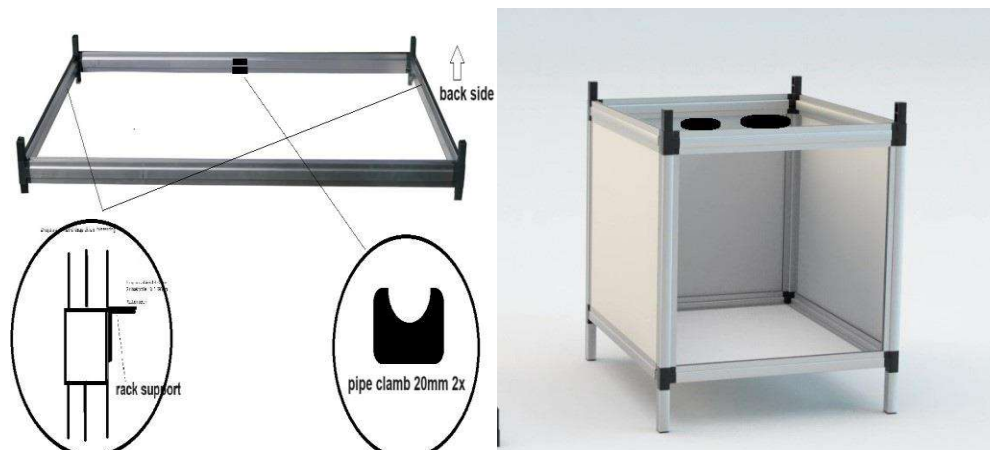
- a. Open the boxes and check all components for presence and damage.
- b. Place the 4 aluminum legs (80mm) with the plastic feet (no. 10) on the insert connectors at the bottom of the base plate.



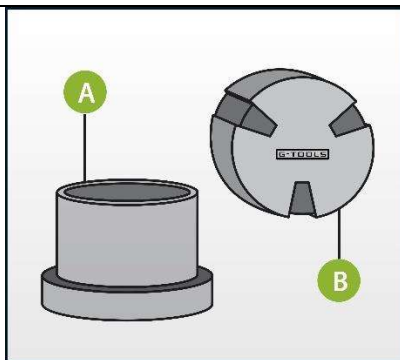
- c. Then place the 4 angle profiles (300mm) (no. 12) on the insert connectors and slide the side and back panels (328 x 563mm) between the aluminum profiles. The panel with the holes for the air inlets is the back plate. For installing the doors, see Chapter 4.



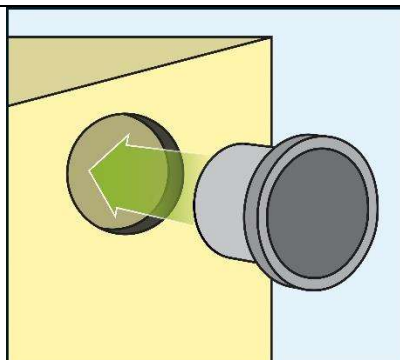
- d. Place the intermediate ring with suspension for 1 drip tray (no. 6)



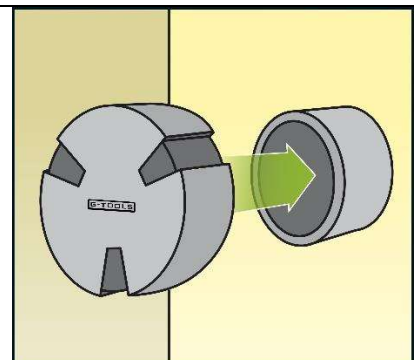
4. Installing the air inlets



Each air inlet consists of 2 parts



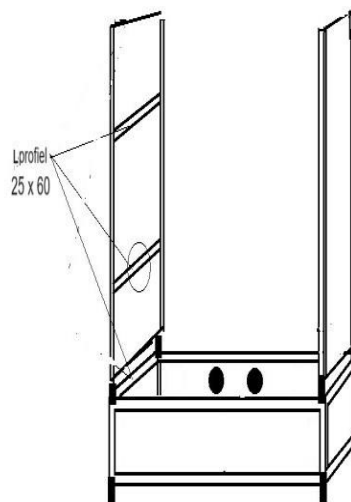
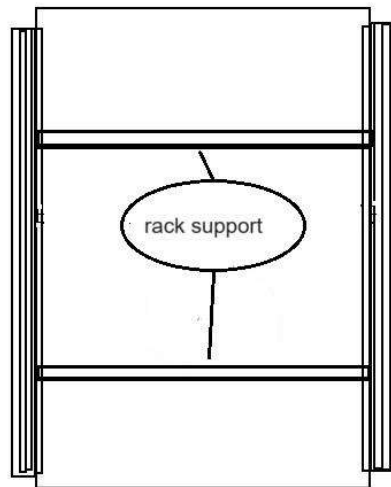
Insert part A through the hole in the back panel



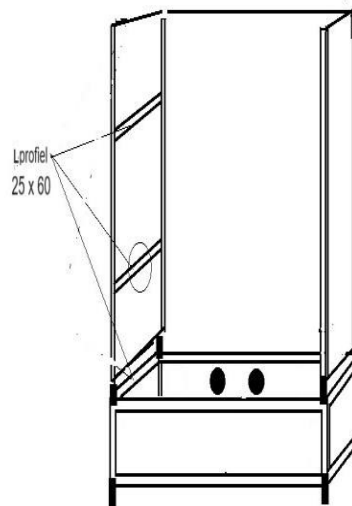
Then twist and lock part B onto part A

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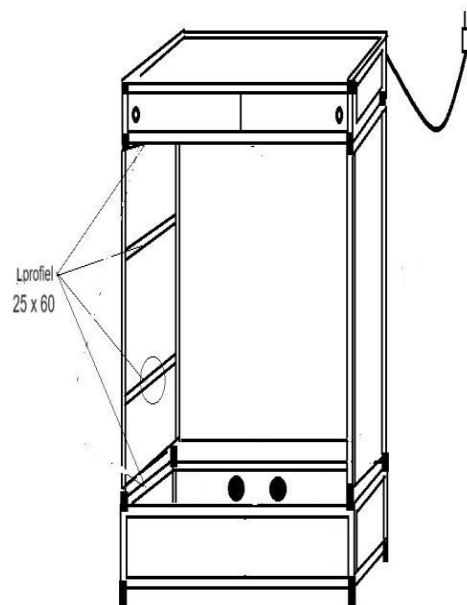
- a. Take the 2 side panels (with the aluminum uprights 1000mm, no. 3) and place them on the plastic corner pieces of the intermediate ring. Please note that the rack supports are located on the inside of the cabinet.



- b. Place the back panel of the center compartment (1028 x 533mm)

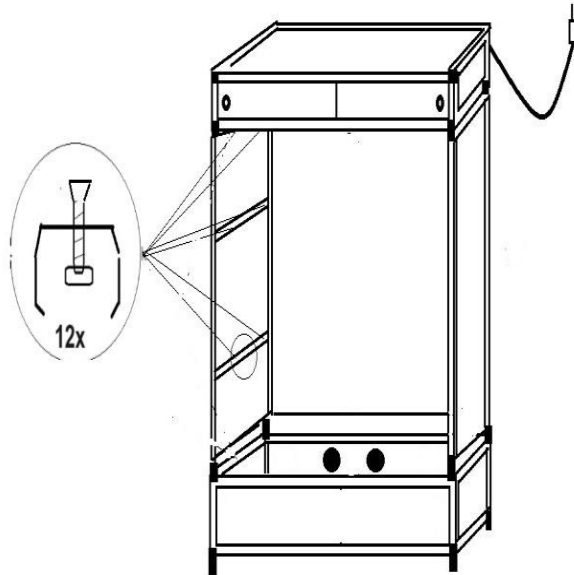


- c. Place the top compartment with the extractor and carbon filter on the aluminium posts. Make sure that the WIFI Smartbox is on the right side and the cable comes out at the back of the compartment. The help of a second person is required to install the compartment.



5. Mounting and connecting the grow lights

Holes have been drilled in the aluminium carriers for the drip trays. This is where the clips for the grow lights are installed. Install them with the supplied nuts and bolts according to the example below.

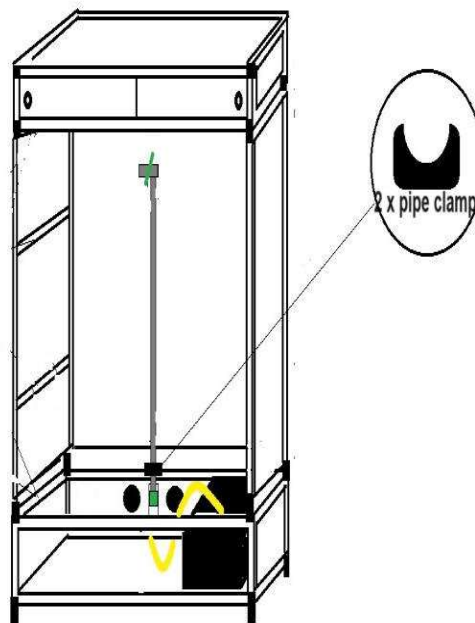
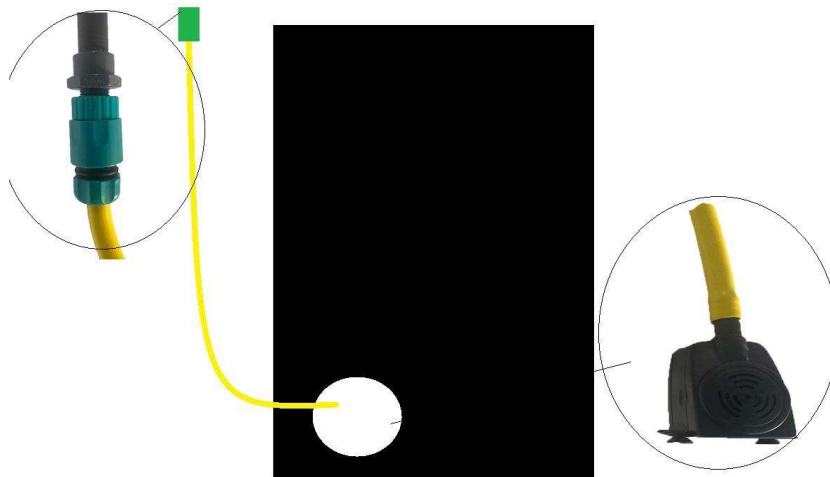


Before the LED lights can be clicked into the mounting clips, the PVC water supply pipe (850mm) with the tap is first installed in the cabinet. This can easily be clicked into the clamps on the profile at the back of the cabinet.



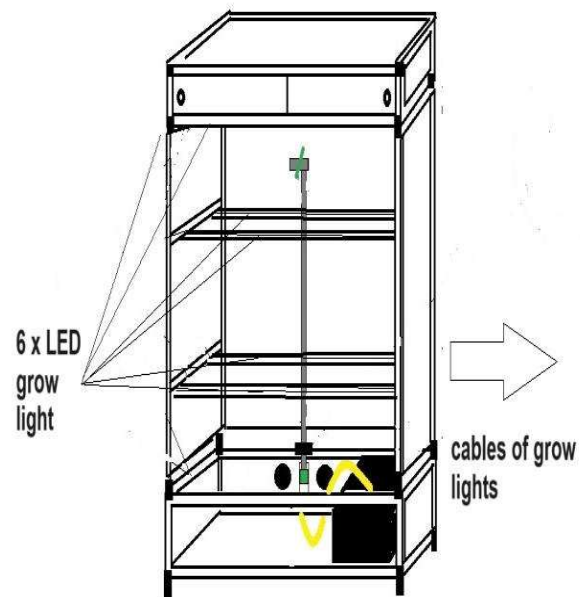
The water tank can now be placed in the cabinet and the yellow supply hose(70cm) can be connected to the water supply pipe with a quick coupling. The other end of the hose is connected to the supply pump and placed through the hole in the lid of the water tank.

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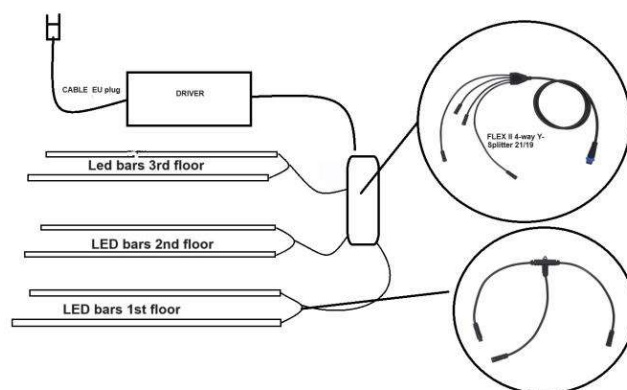


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Click the LED grow lights into the mounting brackets with the connecting cables to the right

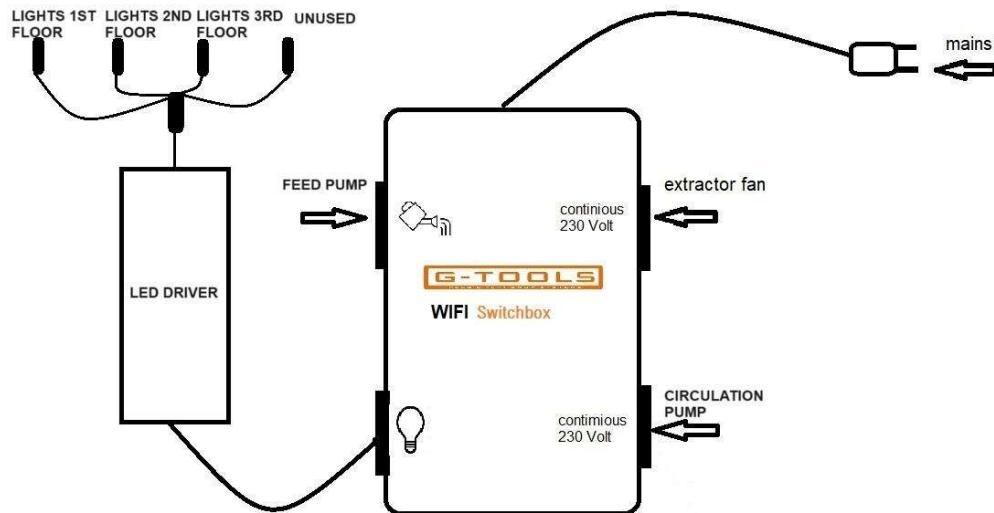


Now connect the lights per floor with each other with the Flex II T connector and connect it to the driver in the ceiling of the cabinet.



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Insert the plugs of the LED driver, the air extractor, the feed pump and the circulation pump into the sockets of the Smartbox as indicated in the drawing.

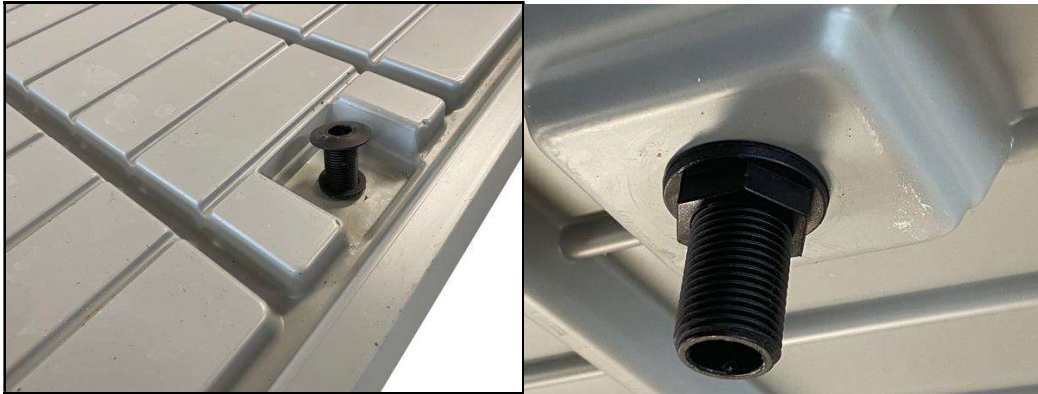


6. Installing and using the irrigation system

Place the 3 drip trays (52 x 52cm) on the supports with the drain on the left side of the cabinet



a. Insert the lead through in the hole in the drain and tighten it with the corresponding nut.

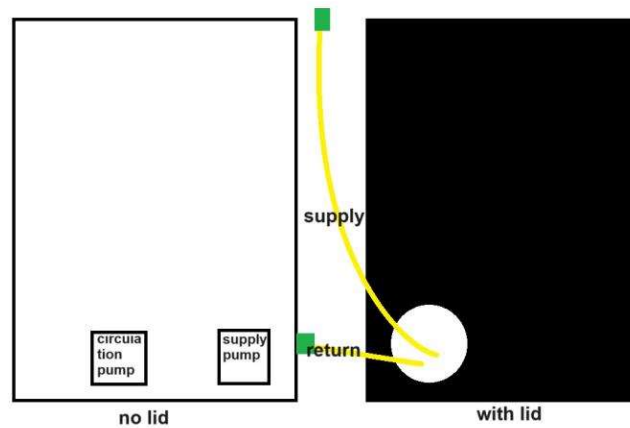


a. The two valves with the straight drain pipe are mounted on the top 2 floors.
The valve with the elbow and the quick coupling is mounted on the bottom floor.



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a. The yellow drain hose with the quick coupling (700mm) is now clicked onto the bottom valve. The other end of the yellow drain hose is led through the hole in the lid back into the water tank.



Now the water tank can be filled. When the feed pump switches on, the water is pumped from the water tank into the upper drip tray. Close the valve under the drip tray so that the water is pumped in faster than it drains to the floor below.

The tray now fills with a layer of water and slowly empties again. Now the underlying tray is filled with a layer of water. You close the valve on this tray so far that the water flows into the drip tray faster than it drains out.

Repeat this process for the bottom floor.

In the WIFI Smartbox you can set the number and duration of watering moments.

7. Installing the locks.



Before the doors can be installed the locks have to be mounted. The locks are pushed through the 19 mm holes on the sides of the doors first. The top door has two locks and the bottom door one. The side with the black sealing strip is the inside of the door. The side of the lock with the keyhole should be on the outside of the door. On the inside of the door the locks are fixed with the supplied nut. The latch should be fixed horizontally, pointing outward when the lock is in its locked position. So when the key can be pulled from the lock.

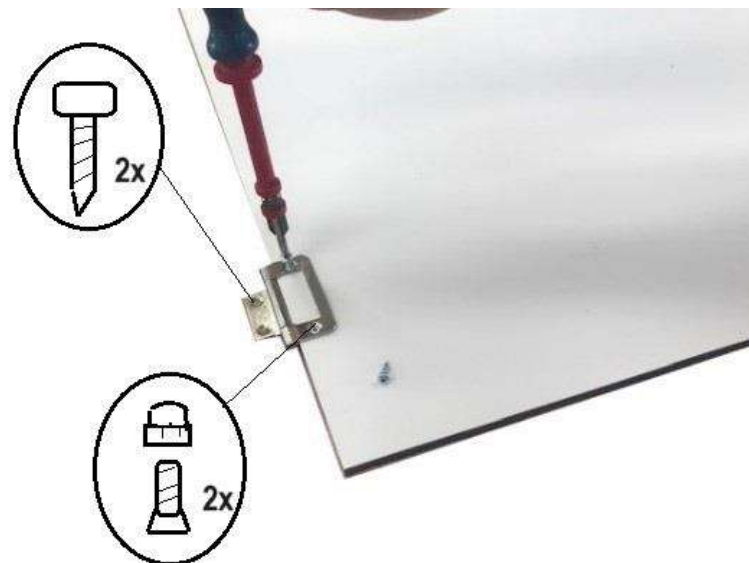


8. Installing the doors

At the left side of each door are 4 holes of 2 mm. This is where the hinges should be fixed with the 10 mm screws. Before mounting the doors the cabinet should first be leveled using the adjustable feet. Hold the doors in their position and screw the hinges in the aluminium profiles with a cordless drill and the supplied drill screws. This can best be done with the help of a second person that holds the door in its position while the other person tightens the screws.



Install the door handle using the supplied screws.



At the left side of each door are holes of 2 mm. This is where the hinges should be fixed with the 10 mm screws.

handleiding



Hold the doors in their position and screw the hinges in the aluminium profiles with a cordless drill and the supplied drill screws.

9. Setting up the WIFI Smartbox



With the WiFi Smartbox you can set the number of lighting hours and the number of watering moments per day. For more information about installing the app and programming the Smartbox, click the link below
<https://www.g-tools.nl/en/download/manual-g-tools-smartbox-dual-3-version/>

10. Maintenance

The Nursery grow box requires little maintenance during normal use.

- a. Replace the filter after 1 year. The active carbon parts lose their effectiveness after 1 year under normal conditions.
- b. Replace the pre-filter more often than once a year if the cabinet is located in an environment with a lot of particulate matter.
- c. Clean the drip trays, pump and water tank with a disinfectant. This prevents pests and diseases.

11. Frequently Asked Questions (F.A.Q.s)

What is the power consumption of a cabinet?

The Nursery grow box uses approximately Euro €9 per month in electricity.

The cabinet is getting too hot, what to do?

In normal circumstances, a nursery becomes 5 to 6 degrees warmer than the ambient temperature. When installing, make sure that the cabinet is not in the sun, in front of a heater, etc. Also note that the temperature is measured in the shade so that the radiant heat from the lamps is not measured. The cabinet blows its warm air into the room where it is located. To dissipate the heat, you can leave a window slightly open.

Can a Nursery be placed in a storage room or shed?

Yes No problem. Pay attention to access to fresh air and temperatures that are too low in winter.

Is a fire extinguishing system necessary?

A Nursery is a fireproof cabinet. Made of non-flammable materials (fire class B1), with a safe, fused electrical installation that only uses CE-approved materials.

12. Contact:

For all your questions about the Nursey and all other growing systems, please visit our website www.g-tools.nl, you can also send an email to info@g-tools.nl or call 0294 -458 202.

WEEE registration number: DE 68161470



The symbol of the crossed-out wheeled bin on electrical and electronic equipment means that it mustn't be removed in household waste. There are free collection points for the return of WEEE available nearby. Please inquire at your city or municipality about the addresses. You can also contact us regarding other options to return old equipment. By separate collection of WEEE, the reuse and recycling of old equipment are made possible and any negative impact on the environment and human health due to hazardous substances in old equipment is eliminated. You are responsible for the erasure of any private data which could still be stored on old equipment. Further information can be found on www.elektrogesetz.de.