Please read the information inside this Instruction Booklet carefully and keep it as a reference manual.

These symbols are used to highlight important information:

⚠️ **Warnings!**

ℹ️ **Information and best practices.**

_leaf Environmental information._

If you are unclear about any aspect of information within please contact Urban Cultivator using info@tqmbvba.be or by calling us number at +32493535394 available seven days a week.
## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Precautions</td>
<td>4</td>
</tr>
<tr>
<td>Child Safety</td>
<td>4</td>
</tr>
<tr>
<td>Safety Precautions In Daily Use</td>
<td>4</td>
</tr>
<tr>
<td>Disposal</td>
<td>5</td>
</tr>
<tr>
<td>Password Protection 1821</td>
<td>5</td>
</tr>
<tr>
<td><strong>Unpacking The Cultivator</strong></td>
<td>6</td>
</tr>
<tr>
<td>Hardware &amp; Accessory Check List</td>
<td>6</td>
</tr>
<tr>
<td><strong>Describing How The Cultivator Works</strong></td>
<td>7</td>
</tr>
<tr>
<td>The Touch Screen</td>
<td>8</td>
</tr>
<tr>
<td>Password Protection</td>
<td>8</td>
</tr>
<tr>
<td>The Cultivators Default Growing Conditions</td>
<td>9</td>
</tr>
<tr>
<td>Growing And Cultivation Cycles</td>
<td>10</td>
</tr>
<tr>
<td><strong>Installation Instructions</strong></td>
<td>11</td>
</tr>
<tr>
<td>Your Room Environment</td>
<td>11</td>
</tr>
<tr>
<td>Installing The Lights</td>
<td>12</td>
</tr>
<tr>
<td>Electrical Connection</td>
<td>12</td>
</tr>
<tr>
<td><strong>Running The Cultivator For The First Time</strong></td>
<td>13</td>
</tr>
<tr>
<td>1. Setup The Clock</td>
<td>13</td>
</tr>
<tr>
<td>2. Fill The Reservoir</td>
<td>13</td>
</tr>
<tr>
<td>3. Setup The pH Doser</td>
<td>13</td>
</tr>
<tr>
<td>4. Calibrate The pH Sensor</td>
<td>14</td>
</tr>
<tr>
<td>5. Calibrate The TDS (Total Dissolved Solids) Sensor</td>
<td>14</td>
</tr>
<tr>
<td>6. Ensure Water Mover/Aerator is Functioning</td>
<td>14</td>
</tr>
<tr>
<td>7. Ensure Main Water Pump Is Functioning</td>
<td>14</td>
</tr>
<tr>
<td><strong>Planting Your Herbs And Microgreens</strong></td>
<td>16</td>
</tr>
<tr>
<td>Mixing Nutrients</td>
<td>16</td>
</tr>
<tr>
<td>Customising Growing Conditions For Each Grow Level</td>
<td>17</td>
</tr>
<tr>
<td>Planting, Growing &amp; Cultivation Table</td>
<td>18</td>
</tr>
<tr>
<td>Top Ten Growing Tips</td>
<td>19</td>
</tr>
<tr>
<td><strong>Maintenance</strong></td>
<td>20</td>
</tr>
<tr>
<td>Cleaning The Grow Trays</td>
<td>20</td>
</tr>
<tr>
<td>Cleaning The Reservoir</td>
<td>20</td>
</tr>
<tr>
<td><strong>Technical Specifications</strong></td>
<td>21</td>
</tr>
<tr>
<td>Process &amp; Instrumentation Diagram</td>
<td>22</td>
</tr>
<tr>
<td><strong>Frequently Asked Questions</strong></td>
<td>23</td>
</tr>
<tr>
<td>Service And Spare Parts</td>
<td>25</td>
</tr>
<tr>
<td>Customer Care</td>
<td>25</td>
</tr>
<tr>
<td>Standard Guarantee Conditions</td>
<td>25</td>
</tr>
</tbody>
</table>
Safety Precautions

Urban Cultivator cares about your safety and your plants. We want you to be familiar with the following safety instructions.

It is important that this instruction manual remain with the Urban Cultivator Commercial appliance so that new owners can also learn about the product and relevant safety precautions.

You must carefully read through this instruction manual before installing and using the Urban Cultivator Commercial.

If you are unclear about any aspect of information within please contact Urban Cultivator using support@urbancultivator.net or telephone our toll free number +32493535394 available seven days a week.

Child Safety

- This appliance is designed to be operated by adults.
- The water from your Urban Cultivator Commercial is not for drinking.
- Keep your Seeds, Nutrients and Growing Mediums in a safe, dry storage area.

The Cultivator's Control Panel has a Child Safety Lock. Refer to the Control Panel Table for more information.

Safety Precautions In Daily Use

Contaminated items and/ or garbage must not be present in the Urban Cultivator Commercial.

- Keep the door closed when not working with the Cultivator.
- Do not remove the grow trays when the machine is watering. Refer to the Control Panel table for instructions on controlling the watering & lighting schedules.
- Only use products that have been designed to be used with the Urban Cultivator Commercial.
- Do not sit or stand on the open door or grow trays.
- Always unplug the power cord from the outlet and disconnect the water mains when the Cultivator is not in use. The pH sensor has to be placed back into its case with storage solution when not in use.
- The Urban Cultivator Commercial should be serviced by a licensed professional.
- Use genuine spare parts and supplies that have been provided by Urban Cultivator.
- Any attempts to fix the Urban Cultivator Commercial without an authorised professional can be dangerous and will void your warranty.
- Do not place any items on top of the Urban Cultivator Commercial.
- Be careful when removing the Grow Tray’s as they can weight up to 100 pounds when fully loaded with soil, plants and water.
- When moving your Cultivator, ensure there is no water inside the reservoir. Extra water may cause level issues if left in the Cultivator while being moved.
Whenever you take a Grow Tray out be careful of standing water. It can take up to ten minutes for the Grow Tray to drain after a watering cycle.

The Cultivator may tip dangerously forward when removing fully loaded Grow Trays from the top two levels. The Reservoir should be full with water to avoid this potential tipping hazard. Please secure the Cultivator to the building structure using the strap and fixing provided. See below.

**WARNING**
The Cultivator could tip dangerously forward. Do not use the Cultivator until it is fully installed.
Hardware & Accessory Check List

Please check that all the components for your Urban Cultivator Commercial are accounted for and that none have been damaged in shipping. Please refer to the Checklist provided.

Component Names

1. Touch Screen Control
2. Grow Tray’s (x4)
3. Reservoir Cover
4. Lockable Castor Wheels (Front Only) (x2)
5. Splash Plates (x3)
6. Grow Inserts (x16)
7. Humidity Domes (x16)
8. Grow Lights (x16)
9. Consumable’s (optional seeds, nutrients, sticky strips, pH down bottle, pH Buffer #4, pH Buffer #7, 4 spare lights and ballasts).
10. Safety Wall Straps (x2)

⚠️ Check the Urban Cultivator Commercial for any shipping damage. Never connect or start growing with a damaged machine. Please contact us at +32493535394 or email info@tqmbvba.beif your Urban Cultivator Commercial is damaged.
Describing How The Cultivator Works

The Urban Cultivator Commercial provides a self-contained growing environment for herbs and greens. Lights imitate the sun’s rays and an irrigation system delivers water and or nutrients from the reservoir to the plants. The automated system provides everything for the plants at the correct times and measures so that your herbs and greens grow all year round.

We have pre-programmed the Cultivator for an average growing situation, but you can customize to fit your environment. Please call us 7 days a week or visit our website for more details.

1. **Full Spectrum Lighting System**  
   Customisable Lighting Schedules, Removable Lights Above Each Grow Tray.

2. **Digital Feeding System**  
   With pH Control And Nutrient Monitoring,  
   90 Litre Reservoir, 3/8" NPT Female Connection To City Water In & Drain Out.

3. **Grow Levels & Removable Grow Trays**  
   Four Grow Flats Per Shelf  
   Sixteen Grow Flats In Total  
   *Grow Level 1*  
   Most Suitable For Incubation  
   *Grow Level 2*  
   Most Suitable For Young To Teenage Plants  
   *Grow Level 3*  
   Most Suitable For Teenage To Mature Plants  
   *Grow Level 4*  
   Most Suitable For Mature Plants

4. **Centre Parting Out Swinging Doors**  
   Left Door With Sealing Gasket And Recessed Pull Handle.

5. **Mobility**  
   Four Heavy Duty Castor Wheels  
   Two Lockable Swivel Castors At The Front  
   Two In-Line Castors At The Rear
The Touch Screen

The liquid crystal touch screen enables you to control the Cultivator's functions and allows the Cultivator to communicate watering, lighting, temperature, relative humidity and nutrient data back to you. Below is an illustration and table describing each function and their corresponding options.

Password Protection

- The Cultivator is password protected.
- When prompted to Enter Password, type 1821 then Enter.
- Press Status to return to the home screen.
- To change or customize your password, go to 7. Set Password under Status.
The Cultivators Default Growing Conditions

The Cultivators default grow settings are appropriate for growing all the herbs and micro-greens listed on our “Planting, Growing & Cultivation Table” on page 18. Advanced users may want to customise these settings by referring to the “Customising The Growing Conditions For Each Level” section on page 19.

<table>
<thead>
<tr>
<th>Grow Level 1</th>
<th>Set Temperature (C°) (F°)</th>
<th>10° C° 50° F°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Schedule</td>
<td>1 Per 4 Days</td>
<td></td>
</tr>
<tr>
<td>Water Time (mins)</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Light Schedule</td>
<td>18 On/ 6 Off</td>
<td></td>
</tr>
<tr>
<td>Lights On Time (All Levels)</td>
<td>08:00</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grow Level 2</th>
<th>Set Temperature (C°) (F°)</th>
<th>10° C° 50° F°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Schedule</td>
<td>1 Per 4 Days</td>
<td></td>
</tr>
<tr>
<td>Water Time (mins)</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Light Schedule</td>
<td>18 On/ 6 Off</td>
<td></td>
</tr>
<tr>
<td>Lights On Time (All Levels)</td>
<td>08:00</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grow Level 3</th>
<th>Set Temperature (C°) (F°)</th>
<th>10° C° 50° F°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Schedule</td>
<td>1 Per 4 Days</td>
<td></td>
</tr>
<tr>
<td>Water Time (mins)</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Light Schedule</td>
<td>18 On/ 6 Off</td>
<td></td>
</tr>
<tr>
<td>Lights On Time (All Levels)</td>
<td>08:00</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grow Level 4</th>
<th>Set Temperature (C°) (F°)</th>
<th>10° C° 50° F°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Schedule</td>
<td>1 Per 4 Days</td>
<td></td>
</tr>
<tr>
<td>Water Time (mins)</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Light Schedule</td>
<td>18 On/ 6 Off</td>
<td></td>
</tr>
<tr>
<td>Lights On Time (All Levels)</td>
<td>08:00</td>
<td></td>
</tr>
</tbody>
</table>

*Note: Temperature is set low to ensure fans are on maximum speed - temperature will not drop to 10 degrees.
Growing And Cultivation Cycles

The Cultivator is designed to operate warmer on the top grow level (Grow Level 1) & cooler on the bottom (Grow Level 4). Germinating is recommended on the top levels where the plants can benefit from warmer temperatures. There is more vertical space to grow taller plants on the lower grow shelves than on the upper grow shelves.

Once plants develop they can be moved down as they get bigger and flourish under cooler conditions.
Installation Instructions

All plumbing and electrical work should be done by a certified professional. To successfully install the Cultivator you need to:

• Position the Cultivator on level ground so that the water inside flows evenly and lock the front two castor wheel brakes so the unit doesn’t move when the doors and grow trays are operated.
• Leave at least 36 inches at the front of the Cultivator for the doors, trays and yourself.
• Allow at least a 12” ventilation gap from the top of the Cultivator to the ceiling.
• Connect the city water supply and city drain to the 3/8” NPT female fittings at the back left of the Cultivator. See the photograph below. Neither connection can be more than 10’ away and 4’ up from ground level.
• The 120 (240v outside of North America) electrical outlet should be within 6 feet away from the Cultivator.

Pipes which have not been in regular use should be cleaned with running water before connecting the Urban Cultivator Commercial.

Make sure that the water inlet hose is not twisted, crushed, entangled or leaking in any way. Do not use connection hoses that have been used previously by other appliances.

Attach your Cultivator to the wall to ensure no tipping.

Your Room Environment

The Urban Cultivator Commercial has been designed to work inside a well ventilated commercial space that is temperature controlled. The ambient temperature must be 55F-90F (13C - 32C) and a relative humidity between 30% to 60%.
Installing The Lights

The sixteen Grow Lights are fragile and have been packed separately to ensure that they don’t get damaged in transport. Place each bulb into their holders in the top of each one of the four light shelves (sixteen lights in total). Insert the Grow Lights into their holders and gently twist the lights to lock them into position. Please refer to the diagram below for more information.

Your Urban Cultivator Commercial comes with sixteen Grow Lights. **Do not use UV rated lights**

![Diagram of Grow Lights Installation](image)

**Urban Cultivator Commercial**

1. **Twist & Pull To Release**
   - Turn clockwise or anti clockwise a quarter turn to release or engage the grow light.

**Electrical Connection**

The Urban Cultivator Commercial must be grounded. Urban Cultivator does not accept any responsibility should this safety measure not be followed.

- **Electricity can be dangerous** and an unsafe plug inserted into a power socket could result in a serious safety hazard. Do not connect the Urban Cultivator Commercial via an extension cable.
- **Ensure that the plug is accessible** after the Cultivator has been installed.
Running The Cultivator For The First Time

The Cultivator’s clock, sensors and reservoir need to be set up before growing for the first time. To follow is a point to point procedure. The 1.Setup Menu Password is 1821.

1. Setup The Clock
   - Press MENU 1.Setup Menu, then 1.Clock. Set your “Date”, “Time” and “Format”.
   - Press MENU and return to the setup menu.

⚠️ Ensure water lines are hooked up first (see page 13)

2. Fill The Reservoir
   - Once full, the Cultivators on board computer will maintain a constant water level.

⚠️ Ensure reservoir is free of dirt and foreign objects before filling.

3. Setup The pH Doser
   - Remove the lower grow tray and reservoir cover to access the pH Bottle Shelf.
   - Place the pH Down bottle (#1) into the triangle shelf (see arrow below) replacing its bottle cap with the one fixed to the Cultivator with a hose (#2).

   ![Diagram](image.png)

   - Press MENU 1.Setup Menu NEXT 5.Reservoir PH Pump then hold down PRIME PUMP until you see a single drop come out from the Cultivators pH Dosing Line. Refer to the photograph above.
   - Press Back and then MENU to return to the “Reservoir Setup” screen.
4. Calibrate The pH Sensor

- Fill one cup of water, one cup of pH Buffer #4 and one cup of pH Buffer #7.
- Remove the sensor from the Reservoir, twist open its protective cap and swish it inside the water and gently dry using a cloth. Refer to the photograph on the next page.
- Now swish the pH Sensor inside the cup of pH #4 and let rest for thirty seconds.
- Press [MENU], [1.Setup Menu], [NEXT], [5.Reservoir], [Sensor Cal], [1. pH 4 Cal] and [Y].
- Repeat the above steps using the pH Buffer #7 pressing [2. pH 7 Cal] and [Y].
- Use the suction cups to stick the pH sensor onto the Reservoir’s back left corner wall (#1).

![Warning]

Safely store the pH Sensor cap and use it to stop the sensor from drying out when the Cultivators Reservoir is empty. Do not let the pH Sensor dry out as it will void your warranty.

5. Calibrate The TDS (Total Dissolved Solids) Sensor

- Fill one cup of water and one cup of TDS 1000 Solution.
- Remove the sensor from the Reservoir, remove its black protective cap and swish the sensor inside the water and gently dry using a cloth. Refer to the photograph below.
- Now swish the TDS Sensor inside the cup of TDS 1000 Solution and let rest for thirty seconds.
- Press [MENU], [1.Setup Menu], [NEXT], [5.Reservoir], [Sensor Cal], [3. TDS Cal] and [Y]
- Use the suction cups to stick the TDS Sensor onto the Reservoir’s back left corner wall (#2).

6. Ensure Water Mover/Aerator is Functioning

- Check that the level of water is above 70%. If there is no movement of water or air bubbles happening, grab the water mover (#5) and shake out the air bubble till it starts operating.
- If there is still no movement of water or air bubbles. First, clean out the intake strainer of any seeds or debris. Second, pull off the small clear air intake line and unscrew the out take fitting. Clean out any debris/seeds inside the fitting and re-screw back onto the pump and re-insert the clear tube.

7. Ensure Main Water Pump Is Functioning

- Once reservoir is full at 90% press [MENU], [1.Setup Menu], [Levels], [4. Level 4], then press [Water Now]. This will activate the pump.
- If water is not pumping into level 4, remove water pump from clear hose in the reservoir to prime the pump.
- As it is pumping water, slip pump back onto clear hose. You should now see water pumping into level 4. Turn water off to stop filling of level 4.
1. pH Sensor
2. TDS (Total Dissolved Solids) Sensor
3. Water Level Sensor
4. Filter & Water Pump
5. Water Mover Air Pump
6. Water Fill Line
7. Air Intake Line
Planting Your Herbs And Microgreens

The Cultivators default grow settings are appropriate for growing all the herbs and microgreens listed on our Planting, Growing & Cultivation Table on page 18. Advanced users may want to customise these settings by referring to the “Customising The Growing Conditions For Each Level” (page 17) section.

- Mix approximately 5-10 parts soil to one part water (depending on the moisture in your soil) stirring until the lumps are gone.
- Place green screen or tray filter on the bottom of tray before you put dirt in. This is to ensure that no dirt gets into the reservoir causing any blockages.
- Fill the Grow Inserts 1/2 to 3/4 full and level the soil without patting it down.
- Sprinkle your seeds onto the top soil with an even amount of space between the seeds. Either gently mix seed under the top 1/8” of soil or add 1/8” of sifted soil on top. This will speed up and increase your germination rate. Refer to the Planting, Growing And Cultivation table (page 18) for detailed information or watch our online tutorials at www.urbancultivator.net/videomanual.
- Place the planted Grow Inserts into the Grow Tray and run a Manual Water. Press , type in your password then . Press and .
- Use the Humidity Domes with the air vents closed for two days.
- Close the Cultivator’s door.
- After two days remove the Humidity Domes and wipe away the condensed water. If there is an established growth open the Humidity Dome’s air vents and put them back onto the Grow Trays for one more day before removing the Domes for the remainder of the plants growing life (This may vary slightly between plant varieties but this is a good average).

When using humidity domes, lift the lid daily to ensure a fresh air exchange

Use the Humidity Domes and their adjustable air vents for germinating seeds. The domes increases temperature and humidity levels inside to help germinate the seeds.

Incubate new plants in the top Grow Tray and grow larger plants from the Bottom Grow Tray.

Mixing Nutrients

- Your Commercial unit will tell you the amount of nutrients in your reservoir. This is the “TDS” reading on your touchscreen.
- When TDS is 0, add 160ml’s of nutrients into the reservoir through the hole in the reservoir lid.
- Ideal TDS is 200 - 250. If TDS gets low, add nutrients in 60ml increments every 15 minutes until TDS reads 200 - 250.
Customising Growing Conditions For Each Grow Level

The Cultivators default grow settings are appropriate for growing all the herbs and micro-greens listed on our “Planting, Growing & Cultivation Table” on page 17. Advanced users can customise the growing conditions by following this point to point procedure.

- Select 1. Level 1. Input your desired;
  - “Water Schedule” tells the Cultivator how many times to water a Grow Level over a certain period of time.
  - “Water Time (mins)” is the total time that the Cultivator will pump water from its Reservoir to the Grow Level.
  - “Water Now” waters the Grow Level.
  - “Light Schedule” is the number of hours on against the number of hours off.
  - “Lights On Time (All Levels)” sets the time at which the Grow Lights switch on.
- Press Back once to set your settings and return to the “Select Level” section.
- Repeat the above for 2. Level 2, 3. Level 3 and 4. Level 4.
- Press [MENU] to return to the home screen.

Germinating is recommended on the top levels. Once plants develop they can be moved down as they get bigger. Refer to the “Growing & Cultivation Cycles” section (Page 17).
## Planting, Growing & Cultivation Table

<table>
<thead>
<tr>
<th>Herbs &amp; Microgreens</th>
<th>Seeds per flat</th>
<th>Cultivate (Weeks)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arugula</td>
<td>2 tsp</td>
<td>3</td>
</tr>
<tr>
<td>Basil</td>
<td>1 tsp</td>
<td>5-6</td>
</tr>
<tr>
<td>Beat Tops</td>
<td>½ cup</td>
<td>2</td>
</tr>
<tr>
<td>Broccoli</td>
<td>2 tbsp</td>
<td>1</td>
</tr>
<tr>
<td>Buckwheat</td>
<td>1 cup</td>
<td>1</td>
</tr>
<tr>
<td>Cabbage</td>
<td>2 tbsp</td>
<td>2</td>
</tr>
<tr>
<td>Chervil</td>
<td>2 tsp</td>
<td>3</td>
</tr>
<tr>
<td>Chives</td>
<td>2 tbsp</td>
<td>2-3</td>
</tr>
<tr>
<td>Cilantro</td>
<td>¼ cup</td>
<td>3</td>
</tr>
<tr>
<td>Dill</td>
<td>1 tbsp</td>
<td>3</td>
</tr>
<tr>
<td>Fenugreek</td>
<td>½ cup</td>
<td>2-3</td>
</tr>
<tr>
<td>Flax</td>
<td>1 tbsp</td>
<td>2-3</td>
</tr>
<tr>
<td>Kale</td>
<td>1 tbsp</td>
<td>2</td>
</tr>
<tr>
<td>Komatsuna</td>
<td>2 tsp</td>
<td>2</td>
</tr>
<tr>
<td>Lemon Balm</td>
<td>2 tsp</td>
<td>4</td>
</tr>
<tr>
<td>Lentils</td>
<td>½ cup</td>
<td>1</td>
</tr>
<tr>
<td>Lettuce</td>
<td>1 tbsp</td>
<td>3</td>
</tr>
<tr>
<td>Marjoram</td>
<td>1 tsp</td>
<td>3</td>
</tr>
<tr>
<td>Mung Bean</td>
<td>1 cup</td>
<td>1</td>
</tr>
<tr>
<td>Mustard Greens</td>
<td>1 tbsp</td>
<td>2</td>
</tr>
<tr>
<td>Nasturtium</td>
<td>½ cup</td>
<td>1</td>
</tr>
<tr>
<td>Onion</td>
<td>2 tbsp</td>
<td>2-3</td>
</tr>
<tr>
<td>Oregano</td>
<td>1 tsp</td>
<td>3</td>
</tr>
<tr>
<td>Parsley</td>
<td>1 tbsp</td>
<td>4</td>
</tr>
<tr>
<td>Pea Tendrils</td>
<td>2 cups</td>
<td>2-3</td>
</tr>
<tr>
<td>Peppercress</td>
<td>2 tsp</td>
<td>2-3</td>
</tr>
<tr>
<td>Peppermint</td>
<td>1 tbsp</td>
<td>4</td>
</tr>
<tr>
<td>Radish</td>
<td>2 tbsp</td>
<td>1</td>
</tr>
<tr>
<td>Sage</td>
<td>2 tbsp</td>
<td>2</td>
</tr>
<tr>
<td>Spinach</td>
<td>1 cup</td>
<td>4</td>
</tr>
<tr>
<td>Sunflower</td>
<td>1 cup</td>
<td>1</td>
</tr>
<tr>
<td>Thyme</td>
<td>2 tsp</td>
<td>4</td>
</tr>
<tr>
<td>Wheatgrass</td>
<td>2 cups</td>
<td>1</td>
</tr>
</tbody>
</table>

- Fill the Grow Inserts (flats) half way to three-quarters full with Planting Soil or Sure To Grow Pads.
- Water once every four days.
- Keep lights on for eighteen hours and off for six.

The above is a recommendation only. Flats can be sown heavier or thinner.

You can sow heavy then thin out as the plants grow by plucking out patches allowing the other greens to fill out. This allows you to use greens from start to finish.
Top Growing Tips

- **Room Temperature And Humidity**
  Keep your room temperature between 55°F – 90°F (13°C – 32°C) and humidity levels between 30% – 60%.

- **Keep Everything Clean**
  Keep your growing environment clean. Clean your Reservoir, Reservoir Filter and Grow Trays every month and rinse out the filter inside the grow trays every week or 2 weeks.

- **Don’t Overwater**
  Don’t overwater especially at the beginning of the plants life as it may bring on mould and mildew. We have factory set the watering levels for once every 4 days but this will vary depending on what your ambient temperature and humidity is. The goal is to have the plant want water before you water but not to dry out.

- **Humidity Domes Help Germinate Plants**
  Use the Humidity Domes to increase temperature and humidity in the Grow Trays when germinating seeds. Keep the Domes on for the first two or three days after the seeds have been planted with the air vents closed. Lift domes off once per day to ensure fresh air circulation.

- **Use Proper soil or pads.**
  We highly recommend the soil brands Sunshine #4 or Premiere HP. You can use other mediums, such as our Sure to Grow white pads or green screens but we have found better results with soil.

- **Don’t Add Too Much Nutrients**
  Overfeeding can cause damage to the plants listed in our Planting, Growing & Cultivation Table. Follow the Nutrient Feeding Table (Page 16). Most quick growing micro greens (1-2 weeks) don’t require any nutrients. Only longer growing greens (herbs, arugula, etc) require nutrients and should only be added after week 1 or 2 at the earliest.

- **Restart After Fourteen Weeks**
  Most of the herbs and microgreens listed in our Planting, Growing & Cultivation Table should be re-sown and replanted after a maximum of fourteen weeks.

- **Keep pH Levels Between 5 - 7**
  Balancing your pH level at 5 is smart as it will increase throughout the week.

- **Sow Seeds A Little Heavy And Thin Out Young Plants**
  Pluck out young plants to allow others to grow and fill out. This is a great way to enjoy your Cultivator Every Day.

- **Use Hydrogen Peroxide**
  If you accidentally keep your humidity domes on too long or overwater and develop unwanted bacteria, you can spray with Hydrogen Peroxide and water (30% HP – 1 Gal water). Only spray the soil and not the plants as this can cause your plants to rot in on themselves.

- **Love Your Plants**
  Take time and care with your plants. Look at them, pick them up (for weight. If its light, water). Call Us Toll Free, Seven Days A Week and check out www.urbancultivator.net/videomanuals
Maintenance

Cleaning The Grow Trays

Clean your grow trays between each harvest however you should immediately clean mould or unwanted organic matter.

⚠️ Do not use any chemically damaging or unhealthy cleaning products such as bleach. Using chemical cleaning products may be toxic and could potentially erode the Grow Trays. You can use 30% Hydrogen Peroxide to clean the reservoir and water lines (5 tsp per gallon). Read all warning labels on the H₂O² labels.

ℹ️ Keep your growing environment clean. Clean your Reservoir, Reservoir Filter and Grow Trays every month and rinse out the filter inside the grow trays every week or 2 weeks.

Cleaning The Reservoir

• Remove the bottom Grow Tray and Reservoir Lid.
• The Cultivator will start to drain the Reservoir so you can wipe it clean. This can take up to 30 minutes.
• Add your preferred cleaning agent (H₂O₂) into the Reservoir following the guidelines on the rear of the agents packaging. The Urban Cultivator Commercial holds 90 litres of water.
• Once the Reservoir has re-filled press [MENU] → 1. Setup Menu → 2. Levels → 1. Level 1 and [Water Now] so that the cleaning agent flows through the Cultivators piping system.
• Repeat the process for each Grow Tray; [2.Level 2], [3.Level 3] and [4. Level 4].
• Once the levels and reservoir are cleaned, press [3. Recycle] then [ACCEPT] to remove the cleaning agent and the reservoir will automatically re-fill and start over.
• As reservoir is re-filling, unscrew the blue filter (#4 in picture on pg. 13) from it black top and rinse/flush out or replace if needed. Filters should last 1 to 2 years.

⚠️ When you wipe clean the Reservoir do not knock the pumps, mis-align the Pipes and in particular the Sensors.

ℹ️ We recommend using a non-chlorine bleach purchased from a reputable environmentally conscience company. Please follow the quantity guidelines on its packaging.

⚠️ Draining the reservoir sends water down and out from the Drain Hose. Water from your Urban Cultivator Commercial is not for drinking and biological residues may still be present and could be harmful.
Technical Specifications

1. Air Flow System
   - Arrows show the direction of air flow
   - Ducting located on this side
   - Fans located on this side

2. Full Spectrum Lighting System
   - Automated lighting schedules

3. Digital Feeding System
   - With pH control and nutrient monitoring,
   - 90 litre reservoir, 3/8 NPT fittings to city water in and drain out.

4. Grow Chambers & Slide Out Shelves
   - Four grow flats per shelf
   - Sixteen flats of herb and microgreens
   - Total volume 40cf

   - Grow Level 1 (Top)
     - Most suitable for incubation
   - Grow Level 2
     - Most suitable for young to teenage plants
   - Grow Level 3
     - Most suitable for teenage to mature plants
   - Grow Level 4 (Bottom)
     - Most suitable for mature plants

Dimensions
- (a) 750mm or 29.5"
- (b) 1550mm or 66"
- (c) 2007mm or 79"

341 Watts. Max Amp draw is 4.56Amps.
Monthly average KWH = 65kwh.
## Frequently Asked Questions

### What is the password for the child lock screen?
1821 or your own personal 4 digit password.

### How often should I do maintenance on my cultivator?
Wet/dry shop vacuum or wipe down reservoir and levels every 6-8 weeks. Ensure to check filters and pumps for seed and soil build up.

### Is my Cultivator pre-programmed?
Yes, it comes pre-programmed for an average growing environment and an average for all plants needs. To set it to your environment or specific plant’s needs check the manual, call our support line or check urbancultivator.net/videomanual

### When and should I use plant nutrients?
Your cultivator will display the TDS (Total Disolved Solids) of the water in the reservoir. Make note of what the TDS is when you first fill the reservoir and try to maintain a TDS of 200-250 above that number. Add 60ml of nutrients at a time and wait 15 minutes to adjust TDS.

### How many flats will I get out of one of my seed containers?
You will get 3-6 flats out of every Urban Cultivator seed containers. You can plant heavy and thin out young plants and use as you go or plant more flats thinner and let them grow out before you harvest. Try using the shaker to sow seeds evenly.

### How much soil should I put in my flats?
You should fill each flat ½ to ¾ with our recommended potting soil (Sunshine #4 and Premiere HP). ½ full for shorter life cycle (1-2 weeks) plants such as; Pea Tendrils, Wheat Grass, Sunflower, Broccoli, etc. Fill your flat ¾ full when planting longer life cycle (2-14 weeks) plants such as; Classic Herbs (basil, oregano, etc), Arugula, Beet Tops, etc.

### Do I mix in my seeds or cover them with dirt?
We have found great results by covering the newly sown seeds with a light dusting of soil that’s been shifted through a regular strainer. The finer soil spreads nicely and makes a protective blanket during germination. Sow your seeds over the dirt, then give them a good spray of water from a spray bottle, next cover with the sifted dirt and then another light spraying of water just to moisten the top blanket. Be careful not to spray too much or too close and wash off the thin dirt blanket.

### What do I do if my water mover isn’t aerating in the UC Commercial?
Check that the level of water is above 70%. If there is no movement of water or air bubbles happening, grab the water mover (#5) and shake out the air bubble till it starts operating. If there is still no movement of water or air bubbles. First, clean out the intake strainer of any seeds or debris. Second, pull off the small clear air intake line and unscrew the out take fitting. Clean out any debris/seeds inside the fitting and re-screw back onto the pump and re-insert the clear tube.
Frequently Asked Questions (cont’d)

Does my water reservoir keep itself filled?
Yes, if you received your Cultivator with City Hook-up capabilities and have it plumbed in, then it is pre-programmed to exchange the water in the reservoir once a week.

What do I do if my reservoir won't exchange?
Check to insure the connection on your city drain is open and free of blockage. If the cultivator is new it may not be primed and may need 2 to 3 minutes to prime. If it is still not draining, remove the bottom grow tray to access your reservoir. Insure there is more then 50% water inside, then reach in and make sure the pump is on and vibrating. If is, take it off the outtake hose and insure the water is running.

What do I do if my level won't water?
Ensure there wasn’t a level just watered before, as it may be waiting for the last water of another level to drain back into the reservoir before it waters the next. Ensure the reservoir has higher then 50% water level. Ensure that the level is set into a schedule and not in Always Off. If still no watering, get access to your reservoir and insure the pump is on and primed, as listed above.

What should my lighting schedule be?
We have pre-programmed our lighting schedules for most herbs, micro greens, lettuces, etc, which is 18 hours light and 6 hours dark. If you wish to grow cherry tomato’s or peppers or other plants that require a fruiting schedule, you can easily change your light schedule to 12 hours on and 12 hours off.

How often should I change my bulbs?
For maximum plant growth, we recommend you change your bulbs every 6 months.
Service And Spare Parts

Please call our toll free number +32493535394 or e mail support@urbancultivator.net if you think there is a problem with your Urban Cultivator Commercial.

Customer Care

In the event that your Urban Cultivator Commercial requires service, or you wish to purchase plant supplies and spare parts please call us toll free on +32493535394 or e mail info@tqmbvba.be

Please provide the following information when you are calling to arrange for an engineer or return of goods:

• Your name, address, zip number or postal code.
• Your contact telephone number and best time to be reached.
• Clear and concise details of the problem.
• The purchase date and name of the sales representative who sold you the Urban Cultivator Commercial.

Standard Guarantee Conditions

Urban Cultivator Limited guarantee that if within 36 months of the date of purchase this Urban Cultivator Commercial appliance or any part thereof is proved to be defective due to faulty workmanship or materials, we will, at our option repair or replace the same FREE OF CHARGE for labour, materials or carriage on condition that:

• The Urban Cultivator Commercial has been correctly installed and used only on the electricity supply stated on the rating plate.
• The Urban Cultivator Commercial has been used in accordance to the manufacturer’s instructions.
• The Urban Cultivator Commercial has not been tampered with by any person not authorised by us.
• All service work under this guarantee must be authorised by Urban Cultivator.
• Any appliance or defective component shall become the property of Urban Cultivator.
• This guarantee is in addition to your statutory and other legal rights.
• Urban Cultivator DOES NOT warranty light bulbs.