

The Urban Cultivator Residential User Manual



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!



Information and best practices.



Environmental information.

If you are unclear about any aspect of information within please contact Urban Cultivator using support@urbancultivator.net or telephone our toll free number +1 877 352 0490 available seven days a week.

Child Safety	Safety Precautions	4
Disposal	Child Safety	4
Installation Instructions6Your Environment6Built In6City Hook-Up Option6Stand Alone Option7Installing The Lights And Glass Panels7Electrical Connection8Unpacking9Hardware & Accessories9Describing Your Urban Cultivator Residential10How Does The Urban Cultivator Residential Work10The Grow Trays11The Removable Lighting Shelf12The Control Panel13Your First Grow14Setting Up Your Growing Preferences14Planting Your First Herbs And Microgreens15Mixing Nutrients15Nutrient Feeding Table16Top Ten Growing Tips17Planting, Growing & Cultivation Table18Maintenance19Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Reservoir In City Hook Up Mode20Cleaning The Grow Lights21Technical Specifications22External Dimensions22	Safety Precautions In Daily Use	4
Your Environment6Built In6City Hook-Up Option6Stand Alone Option7Installing The Lights And Glass Panels7Electrical Connection8Unpacking9Hardware & Accessories9Describing Your Urban Cultivator Residential10How Does The Urban Cultivator Residential Work10The Grow Trays11The Removable Lighting Shelf12The Control Panel13Your First Grow14Setting Up Your Growing Preferences14Planting Your First Herbs And Microgreens15Mixing Nutrients15Nutrient Feeding Table16Top Ten Growing Tips17Planting, Growing & Cultivation Table18Maintenance19Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode20Cleaning The Reservoir In City Hook Up Mode20Cleaning The Fipes In City Hook Up Mode20Cleaning The Forw Lights21Technical Specifications22External Dimensions22	Disposal	5
Built In	Installation Instructions	6
City Hook-Up Option6Stand Alone Option7Installing The Lights And Glass Panels7Electrical Connection8Unpacking9Hardware & Accessories9Describing Your Urban Cultivator Residential10How Does The Urban Cultivator Residential Work10The Grow Trays11The Removable Lighting Shelf12The Control Panel13Your First Grow14Setting Up Your Growing Preferences14Planting Your First Herbs And Microgreens15Mixing Nutrients15Nutrient Feeding Table16Top Ten Growing Tips17Planting, Growing & Cultivation Table18Maintenance19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Grow Lights21Technical Specifications22External Dimensions22	Your Environment	6
City Hook-Up Option6Stand Alone Option7Installing The Lights And Glass Panels7Electrical Connection8Unpacking9Hardware & Accessories9Describing Your Urban Cultivator Residential10How Does The Urban Cultivator Residential Work10The Grow Trays11The Removable Lighting Shelf12The Control Panel13Your First Grow14Setting Up Your Growing Preferences14Planting Your First Herbs And Microgreens15Mixing Nutrients15Nutrient Feeding Table16Top Ten Growing Tips17Planting, Growing & Cultivation Table18Maintenance19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Grow Lights21Technical Specifications22External Dimensions22	Built In	6
Installing The Lights And Glass Panels 7 Electrical Connection 8 Unpacking 9 Hardware & Accessories 9 Describing Your Urban Cultivator Residential 10 How Does The Urban Cultivator Residential Work 10 The Grow Trays 11 The Removable Lighting Shelf 12 The Control Panel 13 Your First Grow 14 Setting Up Your Growing Preferences 14 Planting Your First Herbs And Microgreens 15 Mixing Nutrients 15 Nutrient Feeding Table 16 Top Ten Growing Tips 17 Planting, Growing & Cultivation Table 18 Maintenance 19 Cleaning The Reservoir In Stand Alone Mode 19 Cleaning The Reservoir In City Hook Up Mode 20 Cleaning The Pipes In City Hook Up Mode 20 Cleaning The Counter Top 20 Replacing The Grow Lights 22 External Dimensions 22		6
Electrical Connection 8 Unpacking 9 Hardware & Accessories 9 Describing Your Urban Cultivator Residential 10 How Does The Urban Cultivator Residential Work 10 The Grow Trays 11 The Removable Lighting Shelf 12 The Control Panel 13 Your First Grow 14 Planting Your Growing Preferences 14 Planting Your First Herbs And Microgreens 15 Mixing Nutrients 15 Nutrient Feeding Table 16 Top Ten Growing Tips 17 Planting, Growing & Cultivation Table 18 Maintenance 19 Cleaning The Grow Trays 19 Cleaning The Reservoir In Stand Alone Mode 19 Cleaning The Reservoir In City Hook Up Mode 20 Cleaning The Reservoir In City Hook Up Mode 20 Cleaning The Counter Top 20 Replacing The Grow Lights 21 Technical Specifications 22 External Dimensions 222 External Dimensions 222	Stand Alone Option	7
Electrical Connection 8 Unpacking 9 Hardware & Accessories 9 Describing Your Urban Cultivator Residential 10 How Does The Urban Cultivator Residential Work 10 The Grow Trays 11 The Removable Lighting Shelf 12 The Control Panel 13 Your First Grow 14 Planting Your Growing Preferences 14 Planting Your First Herbs And Microgreens 15 Mixing Nutrients 15 Nutrient Feeding Table 16 Top Ten Growing Tips 17 Planting, Growing & Cultivation Table 18 Maintenance 19 Cleaning The Grow Trays 19 Cleaning The Reservoir In Stand Alone Mode 19 Cleaning The Reservoir In City Hook Up Mode 20 Cleaning The Reservoir In City Hook Up Mode 20 Cleaning The Counter Top 20 Replacing The Grow Lights 21 Technical Specifications 22 External Dimensions 222 External Dimensions 222	Installing The Lights And Glass Panels	7
Unpacking9Hardware & Accessories9Describing Your Urban Cultivator Residential10How Does The Urban Cultivator Residential Work10The Grow Trays11The Removable Lighting Shelf12The Control Panel13Your First Grow14Setting Up Your Growing Preferences14Planting Your First Herbs And Microgreens15Mixing Nutrients15Nutrient Feeding Table16Top Ten Growing Tips17Planting, Growing & Cultivation Table18Maintenance19Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		8
Hardware & Accessories 9 Describing Your Urban Cultivator Residential 10 How Does The Urban Cultivator Residential Work 10 The Grow Trays 111 The Removable Lighting Shelf 122 The Control Panel 133 Your First Grow 144 Setting Up Your Growing Preferences 144 Planting Your First Herbs And Microgreens 155 Mixing Nutrients 155 Nutrient Feeding Table 166 Top Ten Growing Tips 177 Planting, Growing & Cultivation Table 188 Maintenance 199 Cleaning The Grow Trays 199 Cleaning The Reservoir In Stand Alone Mode 199 Cleaning The Pipes In Stand Alone Mode 200 Cleaning The Pipes In City Hook Up Mode 200 Cleaning The Counter Top 200 Replacing The Grow Lights 211 Technical Specifications 222 External Dimensions 222		9
Describing Your Urban Cultivator Residential10How Does The Urban Cultivator Residential Work10The Grow Trays11The Removable Lighting Shelf12The Control Panel13Your First Grow14Setting Up Your Growing Preferences14Planting Your First Herbs And Microgreens15Mixing Nutrients15Nutrient Feeding Table16Top Ten Growing Tips17Planting, Growing & Cultivation Table18Maintenance19Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		9
How Does The Urban Cultivator Residential Work 10 The Grow Trays 11 The Removable Lighting Shelf 12 The Control Panel 13 Your First Grow 14 Setting Up Your Growing Preferences 14 Planting Your First Herbs And Microgreens 15 Mixing Nutrients 15 Nutrient Feeding Table 16 Top Ten Growing Tips 17 Planting, Growing & Cultivation Table 18 Maintenance 19 Cleaning The Grow Trays 19 Cleaning The Reservoir In Stand Alone Mode 19 Cleaning The Pipes In Stand Alone Mode 20 Cleaning The Pipes In City Hook Up Mode 20 Cleaning The Pipes In City Hook Up Mode 20 Cleaning The Grow Lights 21 Technical Specifications 22 External Dimensions 22		10
The Grow Trays 11 The Removable Lighting Shelf 12 The Control Panel 13 Your First Grow 14 Setting Up Your Growing Preferences 14 Planting Your First Herbs And Microgreens 15 Mixing Nutrients 15 Nutrient Feeding Table 16 Top Ten Growing Tips 17 Planting, Growing & Cultivation Table 18 Maintenance 19 Cleaning The Grow Trays 19 Cleaning The Reservoir In Stand Alone Mode 19 Cleaning The Pipes In Stand Alone Mode 20 Cleaning The Reservoir In City Hook Up Mode 20 Cleaning The Pipes In City Hook Up Mode 20 Cleaning The Counter Top 20 Replacing The Grow Lights 21 Technical Specifications 22 External Dimensions 22		10
The Removable Lighting Shelf 12 The Control Panel 13 Your First Grow 14 Setting Up Your Growing Preferences 14 Planting Your First Herbs And Microgreens 15 Mixing Nutrients 15 Nutrient Feeding Table 16 Top Ten Growing Tips 17 Planting, Growing & Cultivation Table 18 Maintenance 19 Cleaning The Grow Trays 19 Cleaning The Reservoir In Stand Alone Mode 19 Cleaning The Pipes In Stand Alone Mode 19 Cleaning The Reservoir In City Hook Up Mode 20 Cleaning The Pipes In City Hook Up Mode 20 Cleaning The Counter Top 20 Replacing The Grow Lights 21 Technical Specifications 22 External Dimensions 22		11
The Control Panel13Your First Grow14Setting Up Your Growing Preferences14Planting Your First Herbs And Microgreens15Mixing Nutrients15Nutrient Feeding Table16Top Ten Growing Tips17Planting, Growing & Cultivation Table18Maintenance19Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		12
Your First Grow14Setting Up Your Growing Preferences14Planting Your First Herbs And Microgreens15Mixing Nutrients15Nutrient Feeding Table16Top Ten Growing Tips17Planting, Growing & Cultivation Table18Maintenance19Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		
Setting Up Your Growing Preferences14Planting Your First Herbs And Microgreens15Mixing Nutrients15Nutrient Feeding Table16Top Ten Growing Tips17Planting, Growing & Cultivation Table18Maintenance19Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		14
Planting Your First Herbs And Microgreens15Mixing Nutrients15Nutrient Feeding Table16Top Ten Growing Tips17Planting, Growing & Cultivation Table18Maintenance19Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		
Mixing Nutrients15Nutrient Feeding Table16Top Ten Growing Tips17Planting, Growing & Cultivation Table18Maintenance19Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		
Nutrient Feeding Table16Top Ten Growing Tips17Planting, Growing & Cultivation Table18Maintenance19Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		
Top Ten Growing Tips17Planting, Growing & Cultivation Table18Maintenance19Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		
Planting, Growing & Cultivation Table18Maintenance19Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		
Maintenance19Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		
Cleaning The Grow Trays19Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		
Cleaning The Reservoir In Stand Alone Mode19Cleaning The Pipes In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		
Cleaning The Pipes In Stand Alone Mode19Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		_
Cleaning The Reservoir In City Hook Up Mode20Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		_
Cleaning The Pipes In City Hook Up Mode20Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		_
Cleaning The Counter Top20Replacing The Grow Lights21Technical Specifications22External Dimensions22		
Replacing The Grow Lights		
Technical Specifications22External Dimensions22		
External Dimensions		
Process & Instrumentation Diagram		23
9		
·		
Customer Care		

Safety Precautions

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

It is important that this instruction manual remain with the Urban Cultivator Residential 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 Residential.

If you are unclear about any aspect of information within please contact Urban Cultivator using support@ urbancultivator.net or telephone our toll free number +1 877 352 0490 available seven days a week.

Child Safety

- This appliance is designed to be operated by adults.
- Keep all packaging materials away from children and please dispose of them in a responsible manner.
- The water from your Urban Cultivator Residential is not for drinking. Biological residues may still be present and could be harmful.
- Keep your Seeds, Nutrients and Growing Mediums in a safe, dry storage area that is well away from children.



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 Residential.

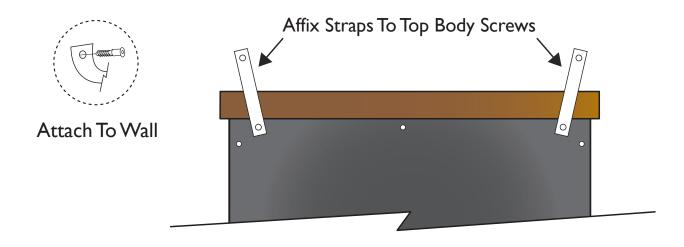
- Always keep the door closed.
- Do not remove the grow trays or lighting shelf when the machine is watering or providing light. Refer to the Control Panel (Page 13) table for instructions on controlling the watering & lighting schedules.
- Only use products that have been designed to be used with the Urban Cultivator Residential.
- Ensure that the Urban Cultivator Residential door is always closed to avoid injury when not removing or replacing the Grow Trays and Light Shelf inside.
- Do not sit or stand on the open door.
- Always unplug the power cord from the outlet and disconnect the water mains when not in use.
- The Urban Cultivator Residential must be serviced by a licensed professional.
- Only use genuine spare parts from Urban Cultivator or that have been CSA and or UA approved. Using unauthorized components void your warranty.
- Any attempts to fix the Urban Cultivator Residential without an authorised professional can be dangerous.



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.



Please secure the Cultivator to the building structure using the strap and fixing provided. See below.



Disposal

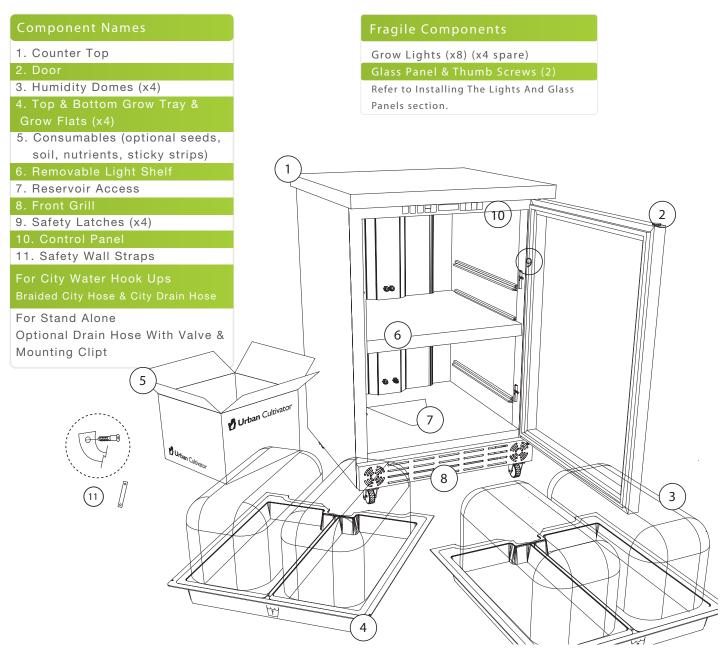
- Dispose of all packaging material correctly.
- All packaging can be recycled.
- Cardboard material is made from recycled paper and should be recycled.
- Should you cease to use your Urban Cultivator Residential please understand that many of its components can be recycled.
- You must take this unit to a recycling centre for disposal.

Unpacking

Carefully open the product packaging and gently remove the Urban Cultivator Residential. We recommend two people to remove the unit.

Hardware & Accessories

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





Check the Urban Cultivator Residential for any shipping damage. Never connect or start growing with a damaged machine. Please contact us on our toll free number +1 877 352 0490 or e mail support@urbancultivator.net if your Urban Cultivator Residential is damaged.

Installation Instructions

All plumbing work required to install the Urban Cultivator Residential should be done by a certified professional (applicable for City Water Hook Up only).

Remove all the product packaging before positioning the Urban Cultivator Residential. The City Hook Up version needs to be five feet from the city water connection and the drain pipe should be no higher than two feet from ground level. Both versions, the City Hook Up and Stand Alone need a 120V power outlet to plug into.

Your Environment

The Urban Cultivator Residential has been designed to work inside your home. Ideally the ambient room temperature should be 55 to 90 degrees Fahrenheit (13 to 32 degrees Celsius), and relative humidity between 30% to 60%.

Built In

The Urban Cultivator Residential has been designed to fit under a North American kitchen counter top or work surface as a single cupboard unit. It can slide between other cupboards and only requires one opening at the front. No vent openings are required however you need to allow the water fill and drain hose as well as the power supply cable to pass through from the rear of the unit. Ensure that your Urban Cultivator Residential is levelled. Refer to the External Dimensions diagram towards the back of the manual.



The Urban Cultivator Residential is available with lockable castor wheels or adjustable feet so you can adjust its height.

City Hook-Up Option

The Urban Cultivator Residential should be connected to cold water from your city mains supply located within five feet from the Cultivator. The unit also needs to be connected to your city drain that should be no higher than two feet from ground level.

The water inlet hose is located at the rear of the unit and comes with a 3/8 inch hose connection. Connect the valve from your Urban Cultivator Residential to your city water line which should supply a water pressure of around 90psi for the Urban Cultivator Residential to be able to fill and drain its Reservoir effectively.



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



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.



The water intake connection is equipped with a safety mechanism that prevents any water from entering the drinking water supply.

Stand Alone Option

If you've set up your Cultivator as a stand alone island, you will have to re-fill and drain it manually

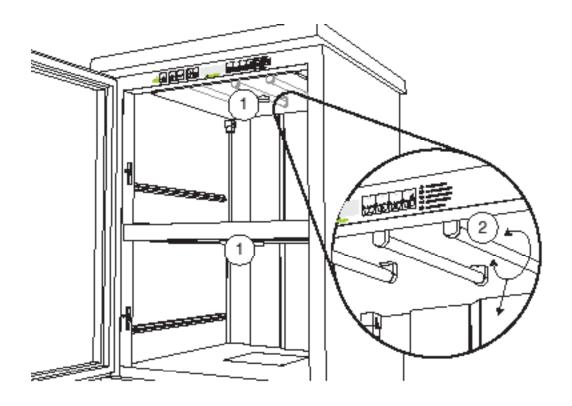
whenever the button turns on. Use the Drain Hose to drain the water out of the reservoir and the Mounting Clip to help locate the drain hose into a bucket or sink. Use a pot or small bucket to re-fill the Reservoir which has a 10 litre capacity.

Installing The Lights And Glass Panels

The twelve Grow Lights and two protective Glass Panels are fragile and have been packed separately to ensure that they don't get damaged in transport. You need to locate four Grow Lights each into their holders at the top of the unit and the Removable Light Shelf. Align either end of the Grow Lights to their holders and gently twist the Grow Light to lock it in position. Once these have been locked in place take the Glass Panel and use the provided thumb screw to lock the Glass in place. The thumb screw is located right in the middle of the Glass Panel. Please refer to the diagram overleaf for more information (refer to diagram on next page).



Your Urban Cultivator Residential comes with twelve Grow Lights four of which are spare bulbs.



Urban Cultivator Residential Component Names

I. Thumb Screw

Turn clockwise to tighten and anticlockwise to loosen and release the glass light cover.

2. Twist & Pull To Release

Turn bulb clockwise or anticlockwise a 1/4 turn to release or lock in the grow light.

Electrical Connection

The Urban Cultivator Residential must be grounded (earthed). 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 Residential via an extension cable.

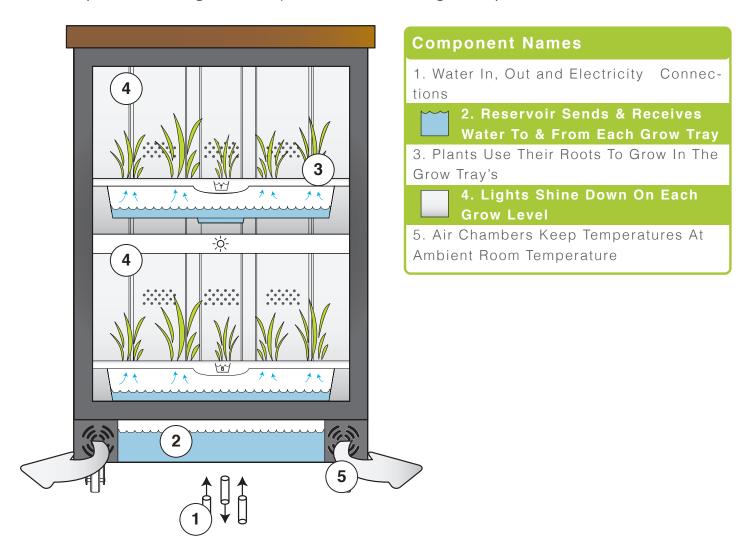


Ensure that the plug is still accessible after the Urban Cultivator Residential has been installed. If you need to replace the electrical cable call us toll free on +1 877 352 0490 or e mail support@urbancultivator.net.

Describing Your Urban Cultivator Residential

How Does The Urban Cultivator Residential Work

The Urban Cultivator Residential 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 to ensure your herbs and greens will sprout and continue to grow all year round.



If you've connected your Cultivator to the city plumbing it will automatically re-fill and drain the water once per week. If you've set up your Cultivator as a stand alone island, you will have

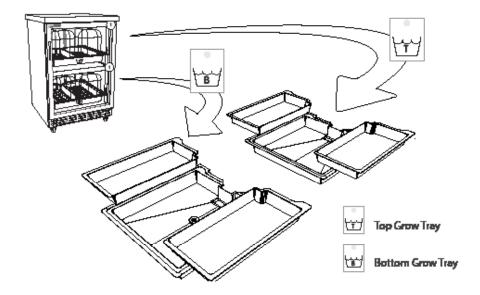
to re-fill and drain it manually whenever the button turns on (once per week).

The Grow Trays

Your Urban Cultivator Residential comes with two growing levels referred to as the Top and Bottom Grow Trays. Both tray levels are removable to provide easy access for cultivating crops, cleaning and maintenance. Be careful when removing the trays as they may be heavy and unevenly balanced. We recommend putting them on your kitchen counter with the back of the tray towards the sink where they can be safely and easily accessed when you are working with your plants.

You can remove either one of the trays by unlocking the safety latches and gently pulling on the handle to slide the trays out of the box.

To continue growing herbs and greens the trays must be returned into their original position. Ensure that the top grow tray is placed back into the top rails and the bottom grow tray into the bottom rails. You can do this by sliding the uppermost edge of the grow tray in-between the tray guide rails. Make sure that the tray handle is facing towards you so that the coupler valves at the rear align themselves correctly. Finally make sure that you drop all the Safety Latches back into the lock position. These are positioned left and right of the grow trays.



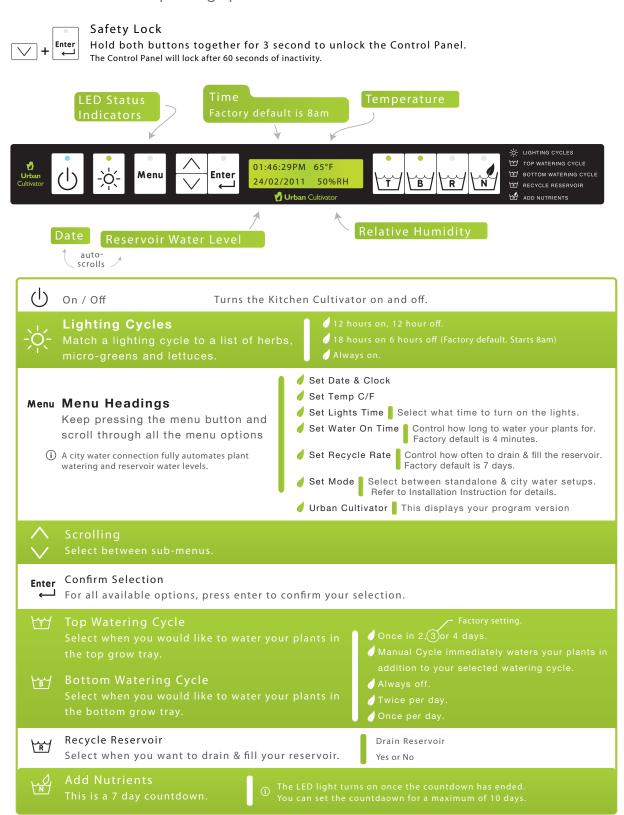


Please be careful when removing the trays as they could be unbalanced, heavy and may contain residual water.

- If you remove a Grow Tray for more than two days turn off its Watering Schedule. Refer to the Control Panel table.
- The Bottom Grow Tray receives water an hour after the Top Grow Tray. Both trays take about ten minutes to drain.
- Filters located at the back of the Grow Trays catch sediment and should be rinsed out with clean water every week.
- The Cultivator will continue to water according to the Watering Cycle. If the trays are removed when watering, ensure that the plant receive the water that they have missed.

The Control Panel

The Control Panel enables you to control the Cultivator's functions and allows the Cultivator to communicate watering, humidity and nutrient data back to you. Below is an illustration and table describing each function and their corresponding options.



Your First Grow

Setting Up Your Growing Preferences

Now that you've installed the Cultivator, understand how it works and are able to control it, you'll want to set up the Cultivator's computer system using the Control Panel before Growing Herbs & Greens.

- Release the Safety Lock + Enter
- Press the Power button and turn your Cultivator on.
- Press the Menu button and scroll through each of the Menu Headings setting your preferences as you go along (see previous page "Menu Headings"). Here's an ordered list of these preferences:



The Cultivator waters when the lights come on.

The Bottom Grow Tray waters one hour after the Top Grow Tray.

Planting Your First Herbs And Microgreens

- Unlock the safety latches, remove both grow trays and place them on a table so it's easier to work with.
- 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.
- Mix approximately six parts soil to one part water until the lumps are gone.
- Fill the Grow Inserts 1/2 to 3/4 full and level the soil without patting it down.
- Sprinkle your seeds into the top layer of the soil with an even amount of space between the seeds. Refer to the Planting, Growing And Cultivation table (Page 17) for detailed information.
- Slide the Grow Trays back into the Cultivator ensuring that all the Safety Latches have clicked into place.
- Press the button and run a Manual Watering Cycle. Press the button and run a Manual Watering Cycle.
- Place the Humidity Domes with the air vents closed for two days onto the Grow Trays.
- Use the Control Panel to customise settings however the Cultivator's default Lighting Cycles and Watering Schedules are appropriate for growing all the herbs and microgreens listed on our Planting, Growing & Cultivation table (Page 17).
- 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).
 - You will be working with water and soil which can be messy so make sure your in an appropriate location.
 - 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.
 - Grow larger plants from the Bottom Grow Tray by removing the Light Shelf and Top Grow Tray.

Mixing Nutrients

- Remove the Bottom Grow Tray to access the Reservoir.
- Add the correct amount of Nutrients into the Reservoir. Refer to the Nutrient Feeding Table for more information.
- Insert the Lower Grow Tray back into position ensuring that all the safety latches have clicked into place before closing the door.
- The Urban Cultivator Residential will automatically mix the nutrients and draw the water along with the added nutrients from the Reservoir during its next scheduled water cycle.



Add your chosen Grow Nutrients into the Reservoir. Make sure to follow the directions on the back of your chosen product. The Urban Cultivator Residential holds 10 litres of water inside its Reservoir.



Only add nutrients after at least one week of seed germination.

Nutrient Feeding Table



Top Ten Growing Tips

Keep your room temperature between 55F - 90F (13C - 32C and humidity levels between 30% - 60%.

Keep your growing environment clean. Clean your Reservoir and Grow Trays every month and rinse out the filter inside the Reservoir and Grow Tray's.

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 days after the seeds have been planted with the air vents closed.

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

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

Planting, Growing & Cultivation Table

Herbs & Microgreens	Seeds (Cups)	Cultivate (Weeks)	Ideal pH
Amaranth	$\frac{1}{8}$ to $\frac{1}{16}$	2-8	6
Arugula	1/8 to 1/16	1-6	6.5
Basil	¹ / _{8 to} ¹ / ₁₆	10	6.5
Bean Tendrils	1 to 1 1/2	1-4	6.5
Chamomile	$\frac{1}{8}$ to $\frac{1}{16}$	2-10	6.5
Chives	1/8 to 1/4	1-10	7
Choi Sum	1/8 to 1/16	2-8	5.5
Cilantro	$\frac{1}{4}$ to $\frac{1}{8}$	2-8	7.5
Dill	$\frac{1}{8}$ to $\frac{1}{16}$	2-10	6
Lemon Balm Seeds	¹ /8 to ¹ /16	2-12	6.5
Lettuces	$\frac{1}{4}$ to $\frac{1}{16}$	1-5	6.5
Marjoram	$\frac{1}{16}$ to $\frac{1}{32}$	2-12	7
Mint	$\frac{1}{16}$ to $\frac{1}{32}$	2-8	6.5
Mizuna	¹ /8 to ¹ /16	1-8	6
Mustard Greens	$\frac{1}{8}$ to $\frac{1}{16}$	1-6	7
Nasturtium	1/2 to 1	2-12	7
Oregano	$\frac{1}{16}$ to $\frac{1}{32}$	2-12	5.5
Pac Choi	¹ /8 to ¹ /16	2-10	6.5
Parsley	¹ /8 to ¹ /16	2-10	6.5
Pea Tendrils	$1^{1/2}$ to 2	1-4	6.5
Rosemary	¹ /16 to ¹ /32	2-12	7
Sage	$\frac{1}{16}$ to $\frac{1}{32}$	2-12	6
Shiso	¹ /8 to ¹ /16	12-8	6
Shungiko	1/8 to $1/16$	1-8	6
Sorrel	$\frac{1}{16}$ to $\frac{1}{32}$	2-10	7
Spearmint	$\frac{1}{16}$ to $\frac{1}{32}$	2-10	6.5
Spinach	1/2 to 1 1/2	2-12	7
Thyme	$\frac{1}{16}$ to $\frac{1}{32}$	2-12	6.5
Tarragon	¹ /16 to ¹ /32	2-12	6.5
Tatsoi	¹ /8 to ¹ /16	1-6	6.5
Watercress	1/ _{4 to} 1/ ₈	2-10	6.5
Wheatgrass	1 to $1^{1/2}$	1-7	6.5



The Cultivator's default Lighting Cycle and Watering Schedule are appropriate for growing all the herbs and microgreens listed here.

As you become more experienced you'll want to begin customising your growing conditions using the Control Panel to control the Cultivator's automated features.

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.

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 Hydrogen Peroxide labels.



You should rinse out the filter at the rear of your Grow Trays on a weekly basis.

Cleaning The Reservoir In Stand Alone Mode

- Release the Safety Latches and remove the both Grow Tray's.
- Press the button and select Yes to drain the reservoir.
- Re-fill the Reservoir with clean water and add your preferred cleaning agent (please follow the guidelines on the rear of the agent's packaging. The Cultivator's Reservoir holds 10 litres of water).
- Press the button and select Yes to drain the reservoir.



If you wipe clean the Reservoir do not knock the pumps, mis-align the Pipes and in particular the Pressure Sensor that detects the water level located at the top towards the front of the Cultivator.

Cleaning The Pipes In Stand Alone Mode

- Fill your Reservoir with clean fresh water and add your preferred cleaning agent following the guidelines on the rear of the agent's packaging. The Cultivator's Reservoir holds 10 litres of water.
- Insert the Grow Tray's and lock all the Safety Latches.
- Run a Manual Cycle (watering) to the Top and Bottom Grow Tray's.
- Press the Button and select Yes to drain the reservoir.
- Re-fill the Reservoir with clean water and drain one more time ensuring that there is no residual cleaning product.



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. Ensure that drained water from the hose goes into an appropriate vessel such as a bucket. Water from your Urban Cultivator Residential is not for drinking. Biological residues may still be present and could be harmful.

Cleaning The Reservoir In City Hook Up Mode

- Press the button and select Yes to drain the reservoir.
- Add your preferred cleaning agent following the guidelines on the rear of the agent's packaging for 5 litres of water.
- Press the button and select Yes to drain the reservoir.



If you wipe clean the Reservoir do not knock the pumps, mis-align the Pipes and in particular the Pressure Sensor that detects the water level located at the top towards the front of the Cultivator.



In City Water Mode the Cultivator will fill and drain your Reservoir with 5 litres of water twice. This takes about 15 minutes.

Cleaning The Pipes In City Hook Up Mode

- Insert the Grow Tray's and lock the Safety Latches.
- Add your preferred cleaning agent following the guidelines on the rear of the agent's packaging for 5 litres of water.
- Run two Manual Cycle's (watering) for the Top and Bottom Grow Tray's.
- Press the button and select Yes to drain the reservoir.

Cleaning The Counter Top

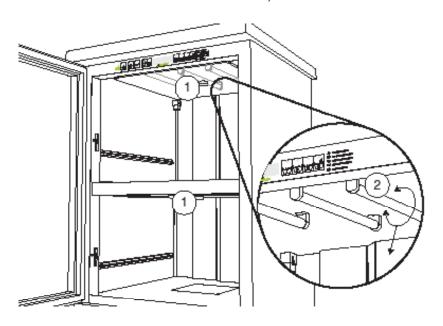
Use soapy water or commonly available kitchen counter top cleaners. Do not let moisture stand on the surface.



This counter top is otherwise known as a "Butchers Block". The finish is formulated to repel most household solvents such as detergents and alcohol. Stains will normally be on the surface of the finish and can be removed with finger nail polish remover or bleach.

Replacing The Grow Lights

- Press the button and turn off the Urban Cultivator Residential.
- Unscrew the thumb screw whilst supporting the glass sheet with your free hand so that it doesn't fall.
- Gently twist the Grow Light a quarter turn and remove it from its holder.
- Insert a new Grow Light.
- Replace the glass window and ensure it is secured safely with the thumb screw.



Kitchen Cultivator Component Names

1. Thumb Screw

Turn elockwise to tighten and anti-elockwise to locsen and release the glass.

2. Twist & Pull To Release

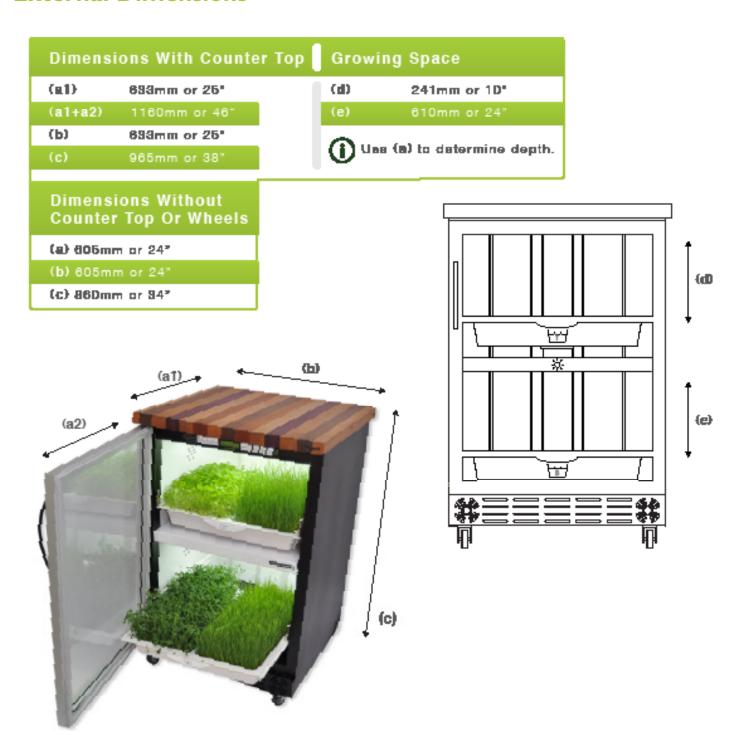
Turn elockwiss or anti clockwise to release or engage the grow light.



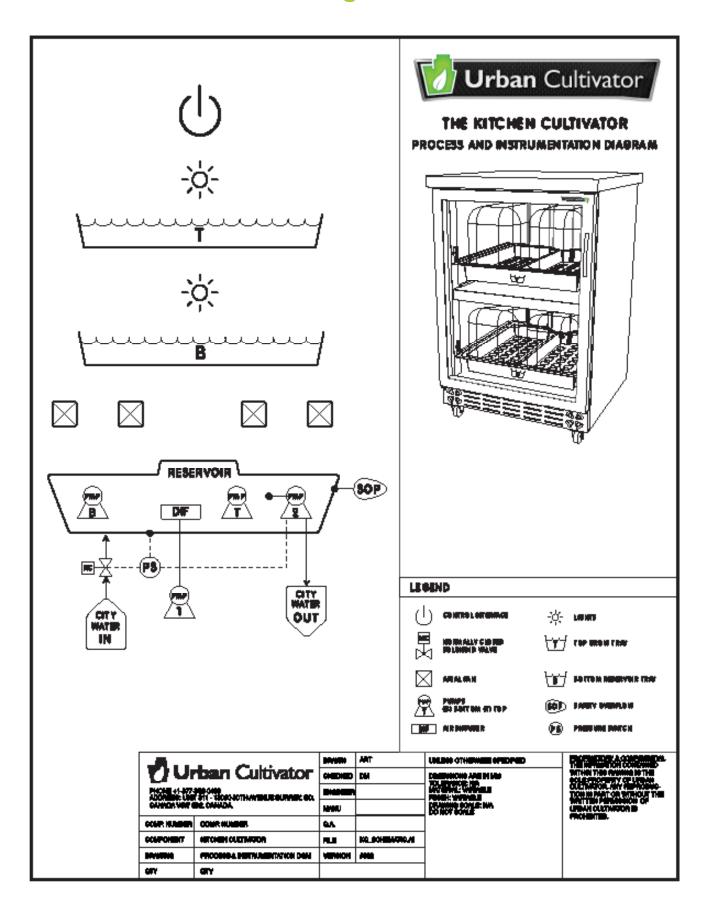
Unplug the Urban Cultivator Residential from the main power supply. Ensure that the light bulbs are cool before handling them with your hands. Unplug the power chord for the Removable Light Shelf before changing the Lights.

Technical Specifications

External Dimensions



Process & Instrumentation Diagram



Service And Spare Parts

Please call our toll free number +1 877 352 0490 or e mail support@urbancultivator.net if you think there is a problem with you Urban Cultivator Residential.

Customer Care

In the event that your Urban Cultivator Residential requires service, or you wish to purchase plant supplies and spare parts please call us toll free on +1 877 352 0490 or e mail support@urbancultivator.net.

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 model and serial number of the appliance can be found on the back of the product and by scrolling to the last option.
- The purchase date and name of the sales representative who sold you the Urban Cultivator Residential.

Standard Guarantee Conditions

Urban Cultivator Limited guarantee that if within 12 months of the date of purchase this Urban Cultivator Residential 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 Residential has been correctly installed and used only on the electricity supply stated on the rating plate.
- The Urban Cultivator Residential has been used in accordance to the manufacturer's instructions.
- The Urban Cultivator Residential 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.