



The Urban Cultivator Residential User Manual



Call Us 7 Days a Week: +32493535394

Watch Video Tutorials: www.urbancultivator.eu

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 in this manual please contact Urban Cultivator using support@urbancultivator.net or telephone our toll free number +32493535394 available seven days a week.

Safety Precautions	4
Child Safety	4
Safety Precautions In Daily Use	4
Disposal	5
Unpacking	6
Hardware & Accessories	6
Installation Instructions	7
Your Environment	7
Built In	7
City Hook-Up Option	7
Stand Alone Option	8
Installing The Lights And Glass Panels	8
Installing Castor Wheels (Optional)	8
Installing Counter Top (Optional)	9
Replacing The Grow Lights	10
Electrical Connection	10
Describing Your Urban Cultivator Residential	11
The Grow Trays	12
The Control Panel	13
Your First Grow	14
Setting Up Your Growing Preferences	14
Planting Your First Herbs And Microgreens	15
Mixing Nutrients	16
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
Technical Specifications	21
External Dimensions	21
Encloser Specification	22
Connecting The Power, Water and Electricity	23
Process & Instrumentation Diagram	24
Frequently Asked Questions	25
Service And Spare Parts	27
Customer Care	27
Standard Guarantee Condition	27

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.

The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction

Child Safety

- This appliance is designed to be operated by adults. Children being supervised are not to play with the appliance.
- 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.

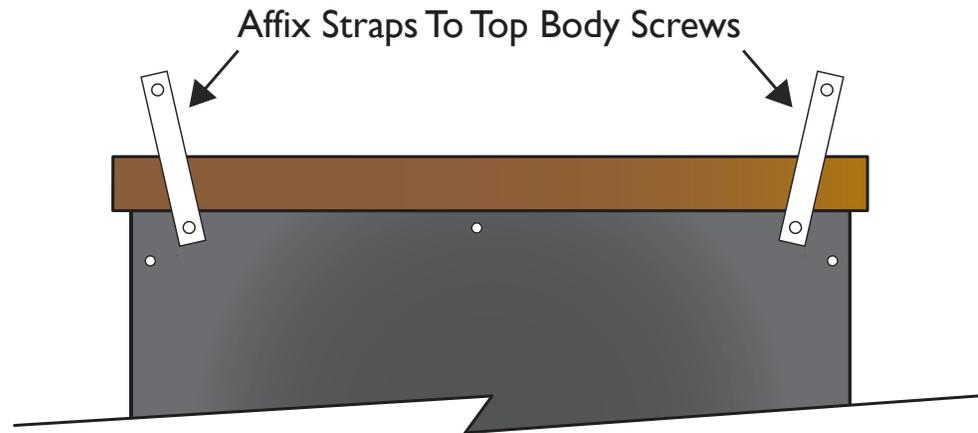
- Always keep the door closed.
- Do not remove the grow trays or lighting shelf when the machine is watering or providing light. Refer to the Control Panel (Page 13) table for instructions on controlling the watering & lighting schedules.
- Only use products that have been designed to be used with the Urban Cultivator Residential.
- Ensure that the Urban Cultivator Residential door is always closed to avoid injury.
- 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 water that may not have drained completely after a watering cycle. It can take up to ten minutes for the Grow Tray to drain.

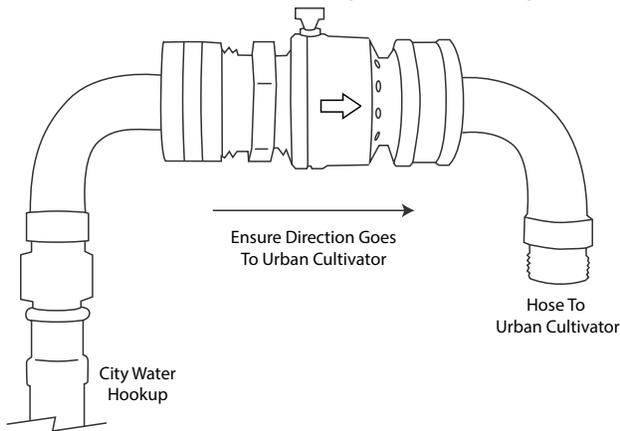


Please secure the Cultivator to the building structure using the strap and fixing provided. See below.



Vacuum Breaker Installation

- Install the Vacuum Breaker in all Canadian Installations to meet CSA standard.
- Install direct after the city valve for ease of access and maintenance. Warning, the Vacuum Breaker could leak in the event of a pressure drop due to City water.



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

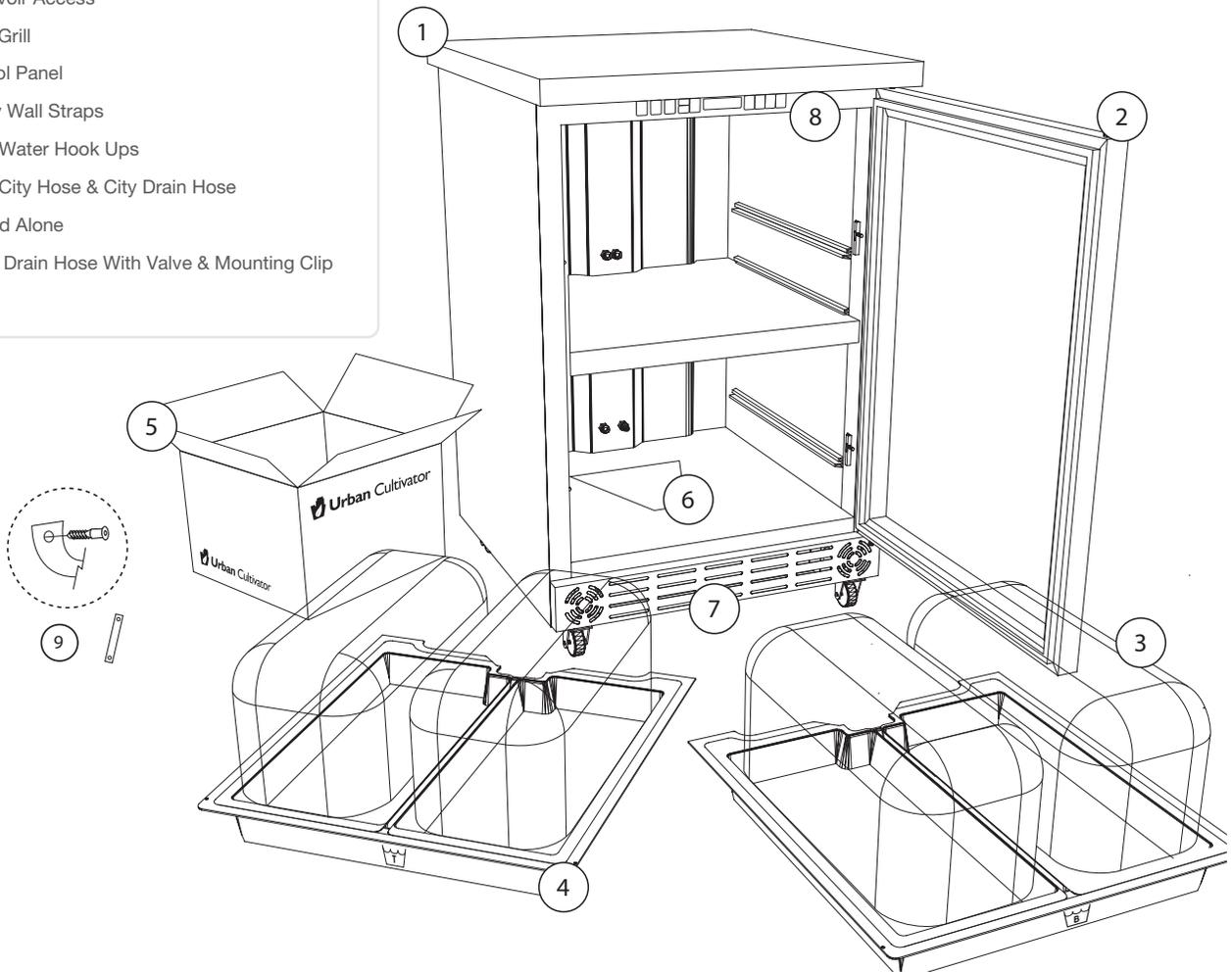
Please check that all the components for your Urban Cultivator Residential are accounted for and that none have been damaged in shipping. Please refer to the Checklist provided.

Component Names

1. Counter Top (optional)
2. Door
3. Humidity Domes (x4)
4. Top & Bottom Grow Tray & Grow Flats (x4)
5. Consumables (optional seeds, soil, nutrients)
6. Reservoir Access
7. Front Grill
8. Control Panel
9. Safety Wall Straps
For City Water Hook Ups
Braided City Hose & City Drain Hose
For Stand Alone
Optional Drain Hose With Valve & Mounting Clip

Fragile Components

- Grow Lights (x8) (x4 spare)
Glass Panel & Thumb Screws (2)
Refer to Installing The Lights And Glass Panels section.



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 110V/240V power outlet to plug into. The wall receptacle is non replaceable.

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 (p. 21) and installation manual diagram.



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 unit is intended to be permanently connected to the city mains supply and not connected by a hose-set.

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 and vacuum breaker 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 and drain hoses are 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 vacuum breaker that must be installed directly after the city valve to prevent 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 flashes green. 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. Use a pot or small bucket to re-fill the Reservoir which has a 17 litre capacity.

Installing The Lights And Glass Panels

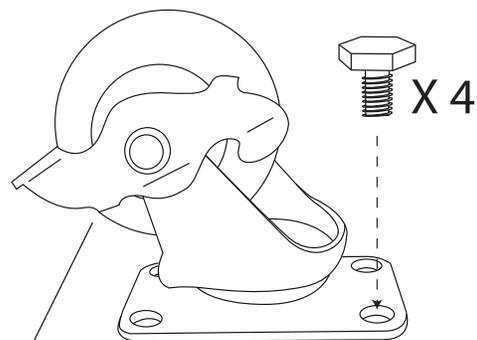
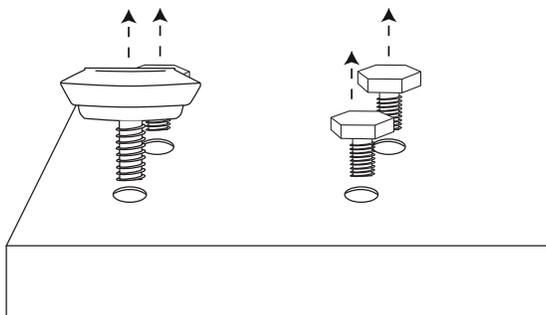
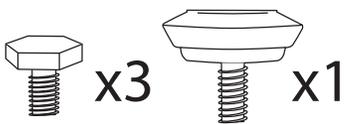
The four Grow Lights and two protective Glass Panels are fragile and have been packed separately to ensure that they don't get damaged in transport. You need to locate four Grow Lights each into their holders at the top of the unit and the light shelf. Align either end of the Grow Lights to their holders 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 (refer to diagram on next page).



Your Urban Cultivator Residential comes with six Grow Lights two of which are spare bulbs.

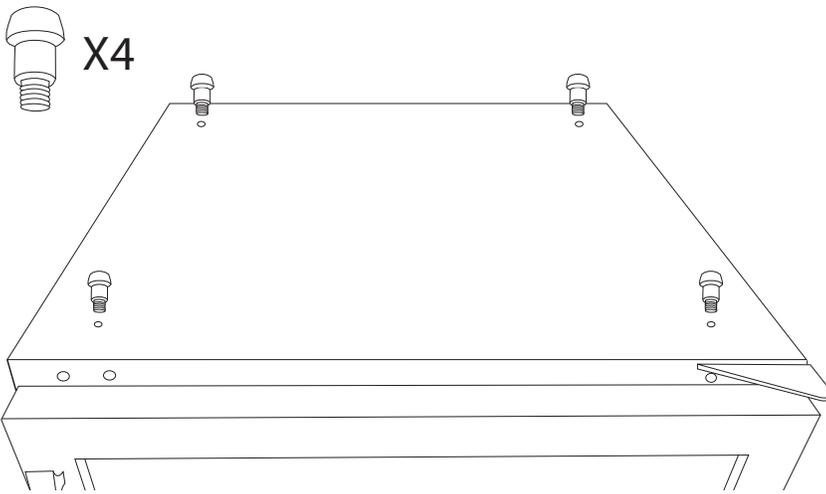
Installing Castor Wheels (Standalone model)

To install castor wheels first remove the 3 bolts and 1 rubber foot from each corner on the bottom of your Urban Cultivator Residential. Then secure castor wheels to the unit using the bolts (note: 4 extra bolts are provided with your Urban Cultivator for wheel installation).

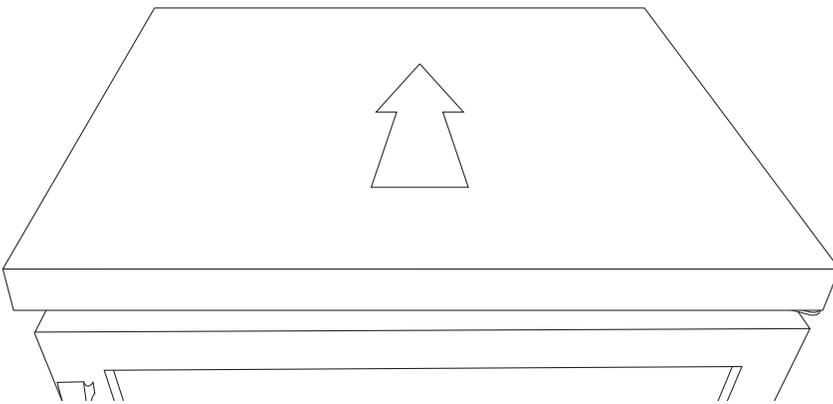


Installing Countertop (Standalone model)

To install the countertop piece, first remove the four black plastic filler pegs from the four holes in the top of the machine. Then screw in the 4 stainless steel studs that were provided with your Urban Cultivator Residential counter top.

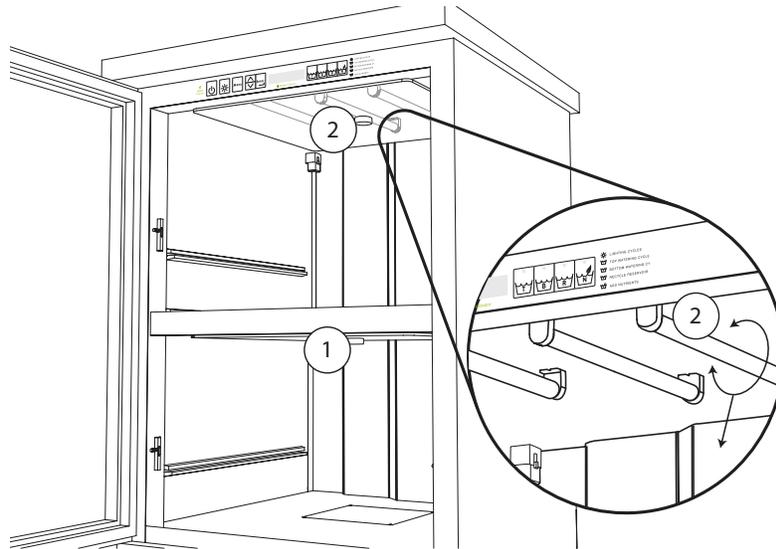


Position the counter top piece onto the studs and slide towards the back of the machine to lock the counter top into place.



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.



1. Thumb Screw

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

2. Twist & Pull To Release

Turn bulb clockwise or anti-clockwise a 1/4 turn to release or lock in 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.

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.

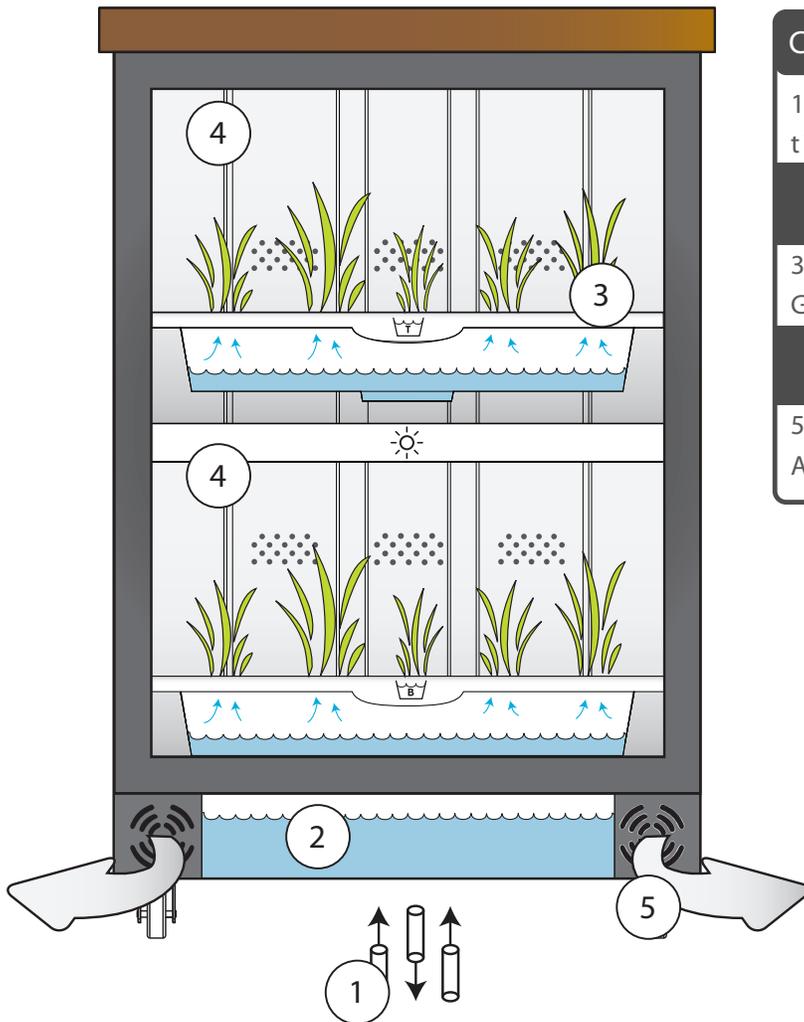


Ensure that the plug is still accessible after the Urban Cultivator Residential has been installed. If you need to replace the electrical cable call us toll free on +32493535394 or e mail info@tqmbvba.be

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.



Component Names	
1. Water In, Out and Electricity Connections	
 2. Reservoir Sends & Receives Water To & From Each Grow Tray	
3. Plants Use Their Roots To Grow In The Grow Tray's	
 4. Lights Shine Down On Each Grow Level	
5. Air Chambers Keep Temperatures At Ambient Room Temperature	



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  light 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.

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. Make sure that the grow trays are pushed all the way into the machine.



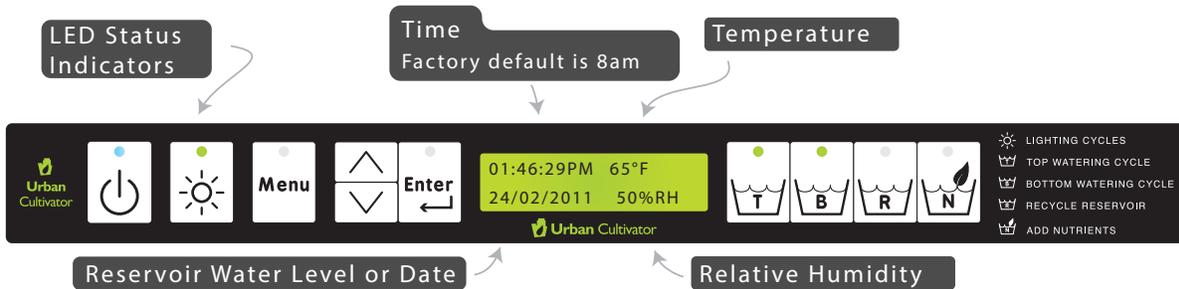
Please be careful when removing the trays as they could be unbalanced, heavy and will contain some residual water.

- If you remove a Grow Tray for more than one day turn off its Watering Schedule. Refer to the Control Panel table.
- The Bottom Grow Tray receives water an hour after the Top Grow Tray after lights turn on. 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 controls the automated function of your Urban Cultivator Residential. You can customize the program using the menu outlined below.

 +  **Safety Lock**
 Hold both buttons together for 3 second to unlock the Control Panel.
 The Control Panel will lock after 60 seconds of inactivity.



	On / Off	Turns the Urban Cultivator Residential on and off.
	Lighting Cycles	Match a lighting cycle to a list of herbs, micro-greens and lettuces.
		<ul style="list-style-type: none"> 12 hours on, 12 hour off. 18 hours on 6 hours off (Factory default. Starts 8am) Always on.
Menu	Menu Headings	<p>Keep pressing the menu button and scroll through all the menu options</p> <p><i>i</i> A city water connection fully automates plant watering and reservoir water levels.</p>
		<ul style="list-style-type: none"> Set Date & Clock Set Temp C/F Select temperature for fan control. Set Lights Time Select what time to turn on the lights. Set Water On Time Control how long to water your plants for. Factory default is 5 minutes. Set Recycle Rate Control how often to drain & fill the reservoir. Factory default is 7 days. Top Up Reservoir *If connected to city water Air Pump on/off *Not Recommended Set Mode Select between standalone & city water setups. Refer to Installation Instruction for details. Urban Cultivator This displays your program version number.
	Scrolling	
		Select between sub-menus.
	Confirm Selection	For all available options, press enter to confirm your selection.
	Top Watering Cycle	Select when you would like to water your plants in the top grow tray.
		<ul style="list-style-type: none"> Once in 2, 3 or 4 days. <i>3</i> Factory setting. Manual Cycle immediately waters your plants then resets your previous schedule. Always off. Twice per day. Once per day.
	Bottom Watering Cycle	Select when you would like to water your plants in the bottom grow tray.
	Recycle Reservoir	Select when you want to drain & fill your reservoir.
		<ul style="list-style-type: none"> Drain Reservoir - Yes or No Fill Reservoir - Yes or No (*City Hookup Only)
	Add Nutrients	This is a 7 day countdown.
		<i>i</i> The LED light turns on once the countdown has ended. You can set the countdown for a maximum of 7 days.

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  + 
- 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").



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

- Remove both grow trays and place them on a table so it's easier to work with.
- 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 18).
- 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 you're 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.

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 grow tray 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 17 litres of water inside its Reservoir.



Add nutrients to fresh water only. In City Water Mode press the  button to drain and fill your Reservoir with fresh water. In Stand Alone Mode use the supplied Drain Hose to drain the Reservoir and manually fill it back up again



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

Nutrient Feeding Table

Week 1	
Don't add nutrients	
Week 2	
Add 4 cc's / ml's per litre	68 cc's
Week 3	
Add 8 cc's / ml's per litre	136 cc's
Week 4 And Ongoing	
Add 8 cc's / ml's per litre	136 cc's

Top Ten Growing Tips

🌿 Room Temperature And Humidity

Keep your room temperature between 55F – 90F (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

Planting, Growing & Cultivation Table

Herbs & Microgreens	Seeds (Cups)	Cultivate (Weeks)	Ideal pH
Amaranth	1/8 to 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	1/8 to 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	1/4 to 1/8	2-8	7.5
Dill	1/8 to 1/16	2-10	6
Lemon Balm Seeds	1/8 to 1/16	2-12	6.5
Lettuces	1/4 to 1/16	1-5	6.5
Marjoram	1/16 to 1/32	2-12	7
Mint	1/16 to 1/32	2-8	6.5
Mizuna	1/8 to 1/16	1-8	6
Mustard Greens	1/8 to 1/16	1-6	7
Nasturtium	1/2 to 1	2-12	7
Oregano	1/16 to 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	1/16 to 1/32	2-12	6
Shiso	1/8 to 1/16	12-8	6
Shungiko	1/8 to 1/16	1-8	6
Sorrel	1/16 to 1/32	2-10	7
Spearmint	1/16 to 1/32	2-10	6.5
Spinach	1/2 to 1 1/2	2-12	7
Thyme	1/16 to 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.

🌱 Fill the Grow Inserts half way to three-quarters full with your chosen Planting Soil or Sure To Grow Pads.

🌱 Water once every three 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.

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 17 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 17 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.



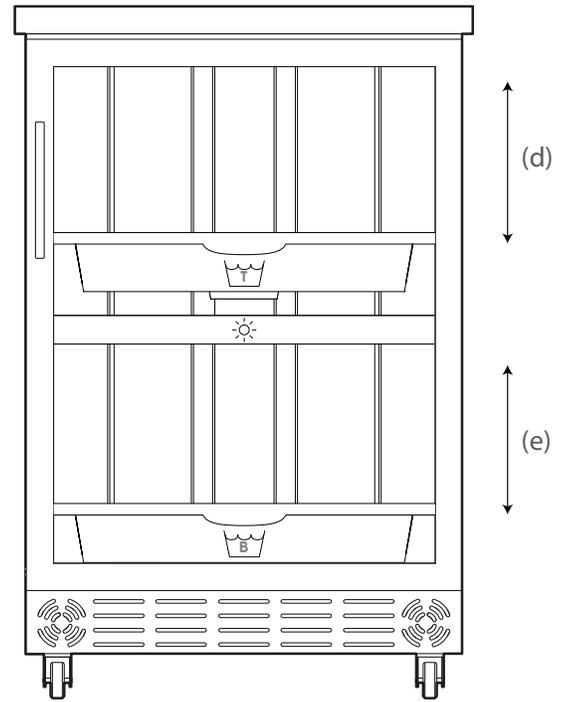
This counter top is otherwise known as a "Butchers Block". The finish is formulated to repel most household solvents such as detergents and alcohol. Stains will normally be on the surface of the finish and can be removed with finger nail polish remover or bleach.

Technical Specifications

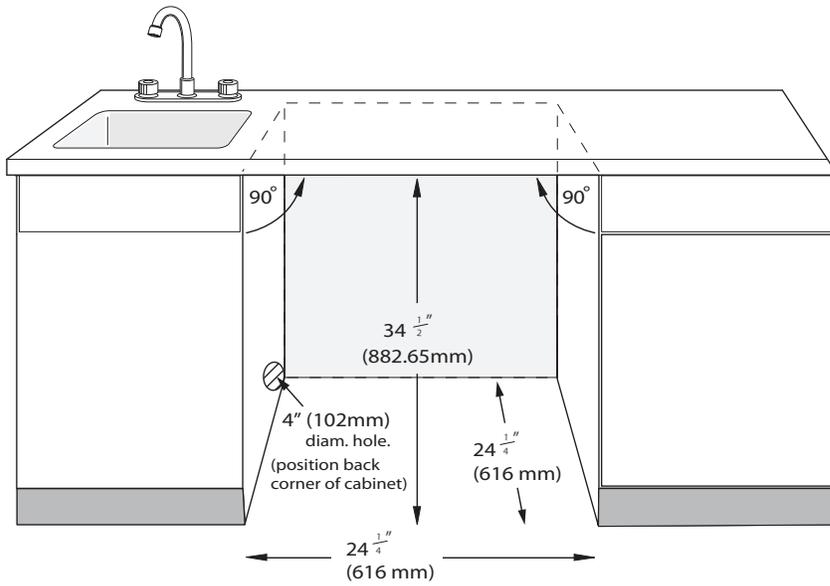
External Dimensions

Dimensions With Counter Top		Growing Space	
(a1)	633mm or 25"	(d)	241mm or 10"
(a1+a2)	1160mm or 46"	(e)	610mm or 24"
(b)	633mm or 25"	i Use (a) to determine depth.	
(c)	965mm or 38"		

Dimensions Without Counter Top Or Wheels	
(a)	605mm or 24"
(b)	605mm or 24"
(c)	876.3mm or 34.5"

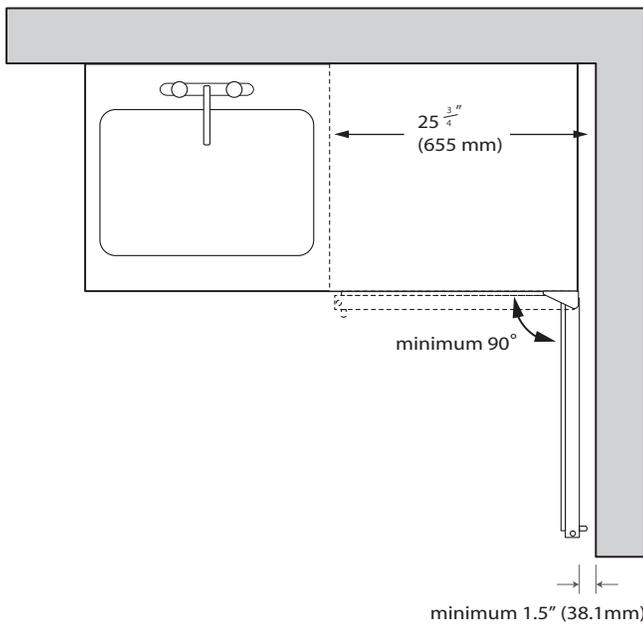


Enclosure Specification

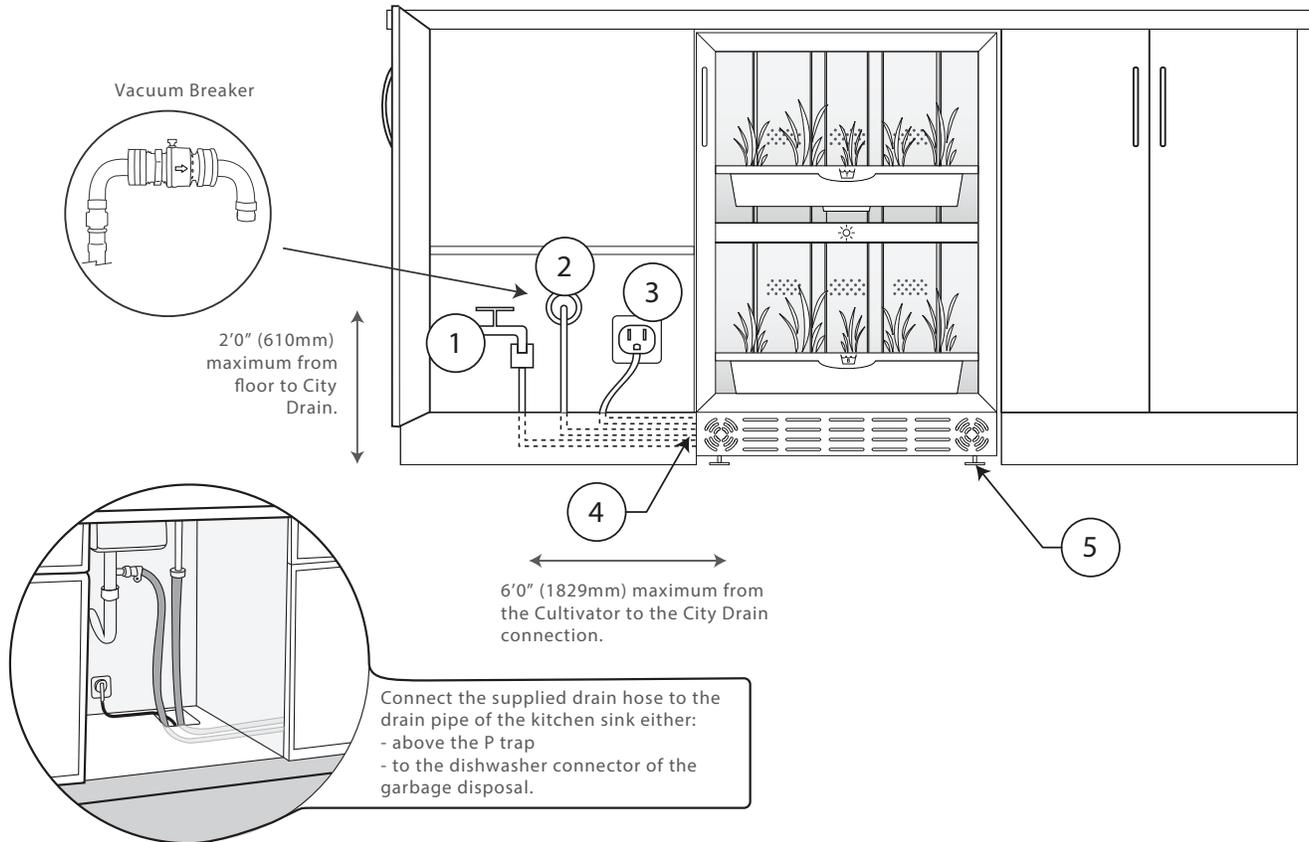


Cabinet Cut-Out Dimensions		
Height $34 \frac{1}{2}''$	Width $24 \frac{1}{4}''$	Depth $24 \frac{1}{4}''$
Product Dimensions Without Counter Top Or Wheels		
Height $34 \frac{1}{4}''$	Width 24"	Depth 24"

Allow an extra 1.5" (38mm) clearance space if you are installing your Cultivator into a corner enclosure. The additional space is clearance for the Cultivators door handle. The door must be able to open a minimum of 90 degrees to the cabinet so that the grow trays slide in and out.



Connecting The Power, Water and Electricity



Numbered Items

1. City Water In Connection

Use the vacuum breaker & braided City Hose to connect to your city water connection. The hose comes with a standard $\frac{3}{8}$ " compression fitting.

2. City Drain Out Connection

Connect the City Drain Hose ($\frac{1}{2}$ " to $\frac{3}{4}$ " hose connection) to your city drain which should be no further than 6' from the Cultivator and 2' up from the floor.

3. Power Connection

Connect the Cultivator to a standard 110/240V power outlet. The electricity plug should be no further than 2' away from the unit and should run out on the same side as the water and drain hose. The wall receptacle is non-replaceable.

4. Hole Size For All Connections

Use a 4" hole saw and remove part of the bottom shelf of the cabinet adjacent to the Cultivator where all the connections run from.

5. Adjustable Feet

Twist the Cultivators feet to adjust its overall height from $34\frac{1}{4}$ " to $34\frac{1}{2}$ "

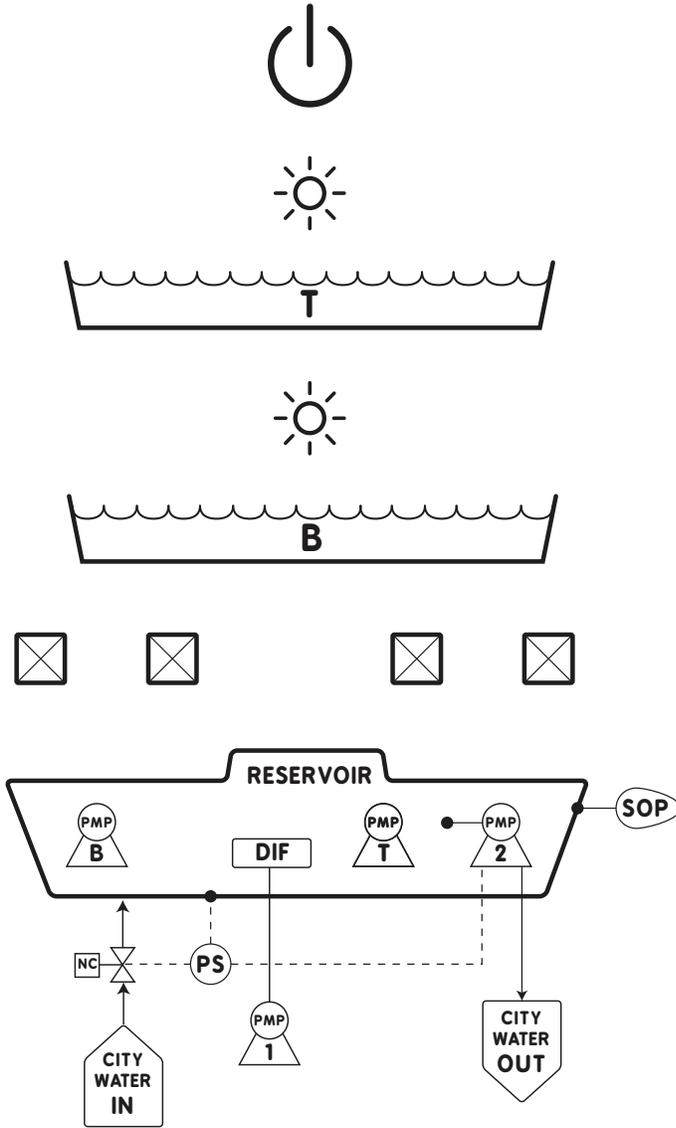
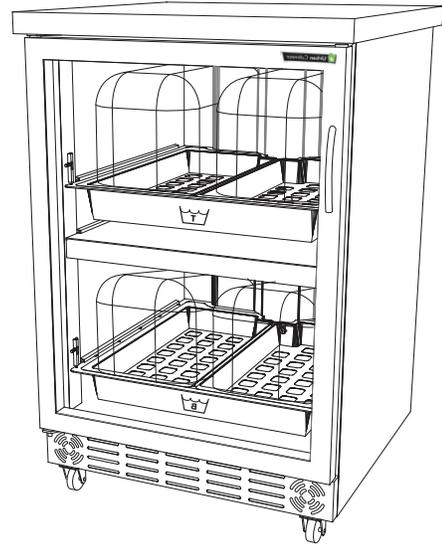
 Leave $1\frac{1}{2}$ " clearance gap for the door swing and handle when installing the Kitchen Cultivator adjacent to a wall.

 Water In, City Drain Out & Electricity connections run out from one side only, the left or the right. Please contact Urban Cultivator using info@tqmbvba.be or telephone our toll free number +32 493 535394 available seven days a week.

Process & Instrumentation Diagram



THE KITCHEN CULTIVATOR PROCESS AND INSTRUMENTATION DIAGRAM



LEGEND

- CONTROL INTERFACE
- LIGHTS
- NORMALLY CLOSED SOLENOID VALVE
- TOP GROW TRAY
- AXIAL FAN
- BOTTOM RESERVOIR TRAY
- PUMPS (B) BOTTOM (T) TOP
- SAFETY OVERFLOW
- AIR DIFFUSER
- PRESSURE SWITCH

<p>PHONE +1-877-352-0490 ADDRESS: UNIT 311 - 13060 80TH AVENUE SURREY, BC, CANADA V3W 3B2, CANADA.</p>		DRAWN	ART	UNLESS OTHERWISE SPECIFIED	PROPRIETARY & CONFIDENTIAL THE INFORMATION CONTAINED WITHIN THIS DRAWING IS THE SOLE PROPERTY OF URBAN CULTIVATOR. ANY REPRODUC- TION IN PART OR WITHOUT THE WRITTEN PERMISSION OF URBAN CULTIVATOR IS PROHIBITED.	
		CHECKED	DM			DIMENSIONS ARE IN MM TOLERANCE: N/A
		ENGINEER				MATERIAL: VARIABLE FINISH: VARIABLE
		MANU				DRAWING SCALE: N/A DO NOT SCALE
COMP. NUMBER	COMP. NUMBER	Q.A.				
COMPONENT	KITCHEN CULTIVATOR	FILE	KC_SCHEMATIC.AI			
DRAWING	PROCESS & INSTRUMENTATION DGM	VERSION	#002			
QTY	QTY					

Frequently Asked Questions

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

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 $\frac{1}{2}$ to $\frac{3}{4}$ with our recommended potting soil (Sunshine #4 and Premiere HP). $\frac{1}{2}$ full for shorter life cycle (1-2 weeks) plants such as; Pea Tendrils, Wheat Grass, Sunflower, Broccoli, etc. Fill your flat $\frac{3}{4}$ 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 sifted 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.

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. If you have received your Cultivator as a Stand alone please refill as needed and recycle when required.

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 than 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 than 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 +32 493 53 53 94 or e mail info@tqmbvba.be 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 +32 493 53 53 94 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 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.

Manual Version: 3.0613