

MAINTENANCE

Submersible Pump

- To assist in emptying your reservoir we include a small submersible pump and hose. Every week when you change your nutrients simply place the pump inside of the reservoir with the black hose extending to a drain area. This could be a bucket, large plastic container, or anything with enough volume to accommodate your nutrient waste.
- Plug in the pump and wait until the reservoir is drained.
- Pump will leave a small amount of nutrient in the bottom of the reservoir. It will not remove all of the liquid.
- Unplug the pump and remove from the reservoir.
- Wipe off the pump and run water through the black hose to displace any minute accumulation of mineral salts.
- Store in a convenient location.
- Replace nutrients.

Cleaning

- Periodically you will notice dust buildup on your intake filter and exhaust fan. This issue is simply remedied by using the hand tool on a vacuum cleaner and/or compressed air.
- Fan filter and guard on the interior of the box may be removed by unfastening one of the four clips on the fan guard, then working all the way around. (Replacement filter material and fan kits may be purchased at Dealzer.com)
- Between every grow—or more often if necessary—remove your reservoir and wipe down all reflective insulation within the box and vacuum all creases, corners, and seams. This will aid in preventing any insect or fungus problems drastically.

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CASH CROP

5.0





PROPAGATION

— Insert included net pots to coordinating holes on the reservoir lid.
— Place a single organic starter plug into each net pot.
— Fill the reservoir base with either filtered water (Reverse osmosis, de-chlorinator/sediment filter, distilled water) or tap water which has had time to sit in order to evaporate excessive chlorine. 24 hours is preferable. NOTE: Water level should reach the BOTTOM of your net pots as they sit in the reservoir lid.

— Place one seed per net pot into the organic starter plugs. Pinch a small amount of the plug from the bottom and place into the opening to block light from reaching the seed.
— When all seeds are placed in the starter plugs you must now plug in the air pump. (Direct power source, always on)
— Once a single seed has germinated and extended out of the starter plug you must turn your light and exhaust fan ON. Be sure your timer is still coordinated with your personal schedule.

— Continue monitoring germination rates until all seedlings have appeared. This normally does not and will not take longer than 10 days. If no seedlings appear after this period it is a safe bet the seed was no longer viable.
— Seedlings will drop their seed coats and survive solely on reserve energy until the cotyledons (Embryonic leaves) open up to first photosynthesize. You will NOT need to add fertilizer to your reservoir until the first true leaves begin to appear. Fertilizing a seedling can cause extreme shock and most likely will kill the young plant.
— Once true leaves appear on all germinated seedlings you may begin your Vegetative Week 1 feeding schedule.

VEGETATIVE GROWTH

— After you begin your weekly fertilizer regimen you will see noticeable growth rates. Plant roots will extend from the bottom of the net pot searching for water.
— At this point decrease your water/nutrient level to roughly 1/2" below the bottom of the net pot to avoid over-saturation of the starter plug. It should stay moist, but not entirely soaked.
— Monitor daily—if possible—to ensure your young plants are happy and thriving.
— Plants whose metabolism is strong will have drastically higher rates of nutrient and water uptake than a plant of inferior health. Leaf blades and petioles will be at a 45 degree angle or more optimally and continue both apical and lateral new growth.
— Nutrients must now be changed weekly for best results. It is recommended you designate one day every week for this chore, whichever day is best for you.
— Included to aid this process is a small submersible pump and hose. See MAINTENANCE section for full description.
— Once plants have reach 1/3 of the growing space (top of reservoir to the bottom of your LED light), we recommend you induce flowering by now switching your timer to 12 hours ON/12 hours OFF. Plants will stretch 2-3 times their height during the reproductive cycle.
— You are now ready to switch your fertilizer regimen to the Bloom nutrients.

REPRODUCTIVE GROWTH

— Within the first week of flowering induction you will notice visible changes in your plants.
— Overall plant height will now begin to rapidly increase and internode spacing will stretch.
— Flowering plants require higher levels of both phosphorous and potassium with lower uptake of nitrogen.
— Do not find yourself discouraged if the flowers appear smaller than you want during the first two weeks.
Bulking period occurs—usually—between weeks 3-6 and will continue until the final stages up to and including the flush period.
— Beginning week 3 of flowering you will begin to add small amounts of the included bottle of RX Bulk. Rates are noted on your feeding schedule and continue through week 6.
— Follow the nutrient schedule consistently, as any variation in feeding can stall your plants or potentially increase the harvest time of your crop.
— Finish times will always vary slightly between genetics, so deciding when to harvest entirely up to you. By week 8 and beyond—if necessary—you will notice growth rates and bulking slow down. This is a solid indication you are ready or close to ready for your harvest!

SETUP

- Open cabinet and remove all included items. Check packing list to validate all items were received.
- Place empty reservoir base in the bottom of the cabinet.
- Place air line and air stone (already assembled) in the center of your empty reservoir.
- Uncoil air line and thread through the small hole in the reservoir lid with a small amount of slack within the reservoir base.
- Place lid onto reservoir base.
- Connect air line to the outlet nipple on your air pump. This is secured to the back panel of the cabinet and resembles a black computer mouse. Outlet nipple is facing downward.
- Plug your mechanical timer into a power source and set accordingly to the current time of day. (Bottom of a standard home outlet is preferable so you will have access to the top half)
- Set timer dials to 18 hours ON/6 hours OFF. Each incremental black switch operates on a 15 minute interval. When pushed down on the timer dial this interval will be active. (Power on)
- Be sure to coordinate your on/off intervals with your personal availability and schedule.
- REMEMBER: Once you switch to a flowering/reproductive cycle the timer should be set for 12 hours ON/12 hours OFF and MUST be an uninterrupted dark period. Do not change the start ON time, but instead decrease timer switches from when your light goes OFF back toward your ON time. For example, if you set the timer to come ON at 5PM for 18 hours it will turn OFF at 11AM for 6 hours. If you desire to switch to flowering the OFF time will now be 5AM. All black intervals switches from 5AM to 11AM should be raised.
- Never open your cabinet during the off time, even for one second.
- Next, plug in your Quasar LED light and your exhaust fan to the each side of the mechanical timer. (Note: The red switch on the side of the timer will allow it to function either as set by user for on/off intervals or remain on 24 hours. If the clock icon is visible below the red switch, then user intervals will be active. If the letter "I" is visible your light and fans will remain on uninterrupted. Please take time to make sure the clock icon is visible.)
- Plug your air pump into a power source—not the timer—that will remain on for 24 hours a day. Your plant roots need air just as you do.
- Turn on each electrical component and make sure everything is working properly.
- Turn off all electrical devices.
- Now you are ready to plant some seeds.