



# Ultrasonic Fog Cloning System

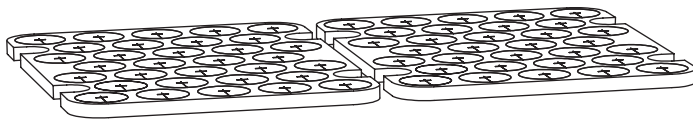
Model 60M

[www.humboldt-ecoclone.com](http://www.humboldt-ecoclone.com)

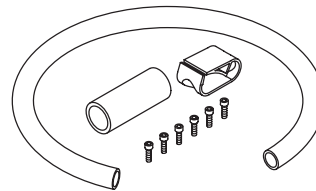


**Take cuttings as usual using a liquid or powder rooting hormone. IMPORTANT: Do not use gel hormone! This will suffocate the plant stem.**

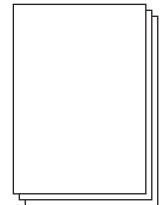
## What's in the Box



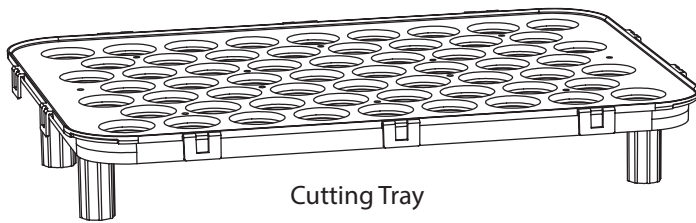
Cutting Discs



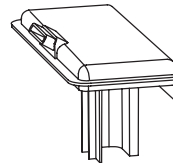
Hardware Kit



Instructions



Cutting Tray



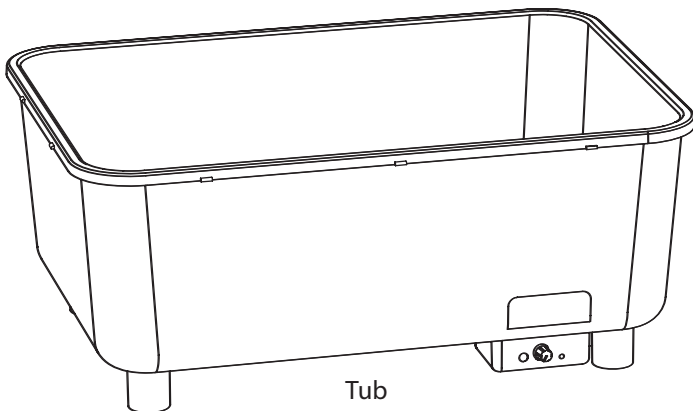
Mister Cover



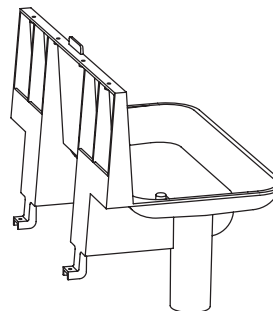
Power Supply



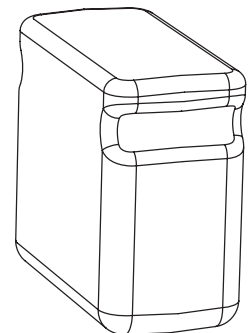
Wrench



Tub

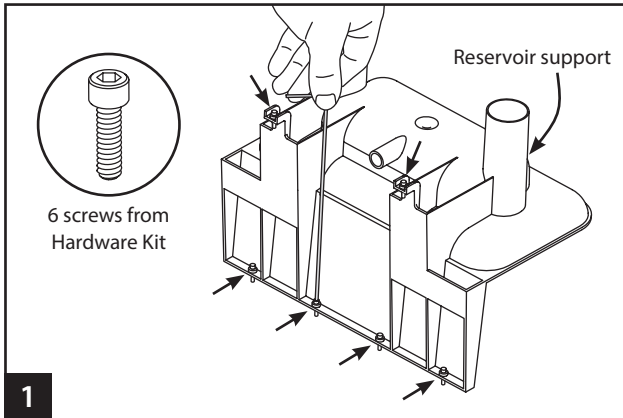


Reservoir Support

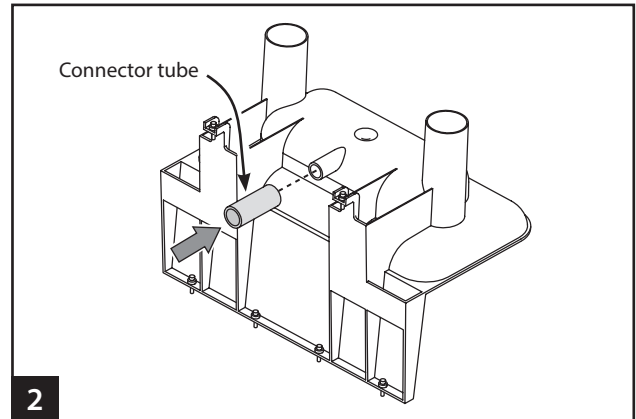


Reservoir

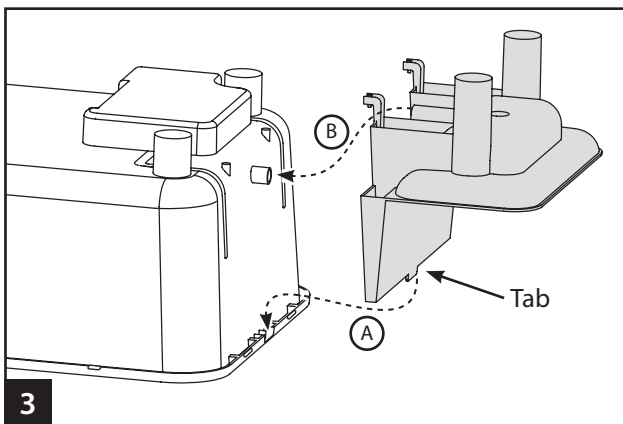
## Assembly



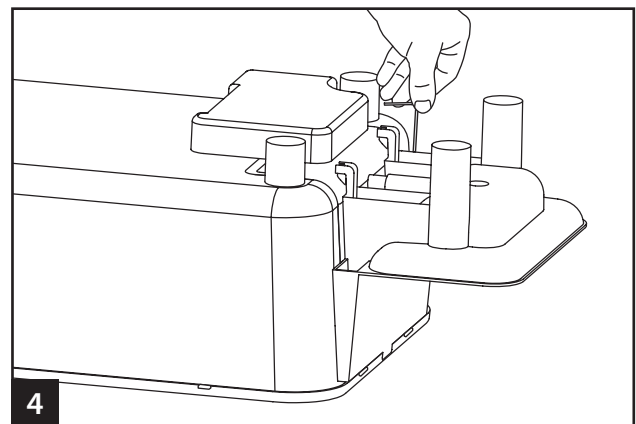
Turn reservoir support upside down. Using supplied wrench, screw 6 fasteners into holes as shown.



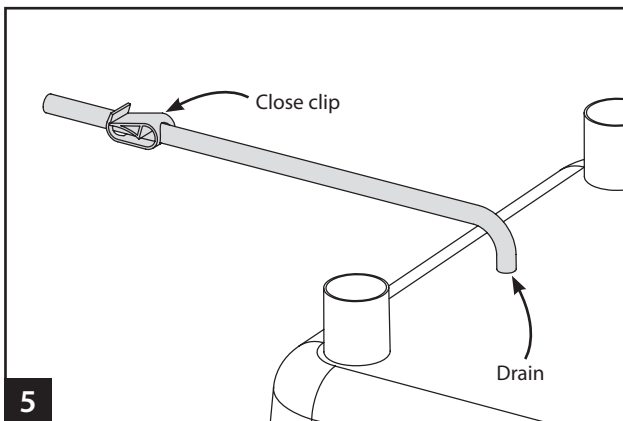
Take connector tube from Hardware Kit and push onto reservoir support (a small drop of dish soap may be used to help slide tube on).



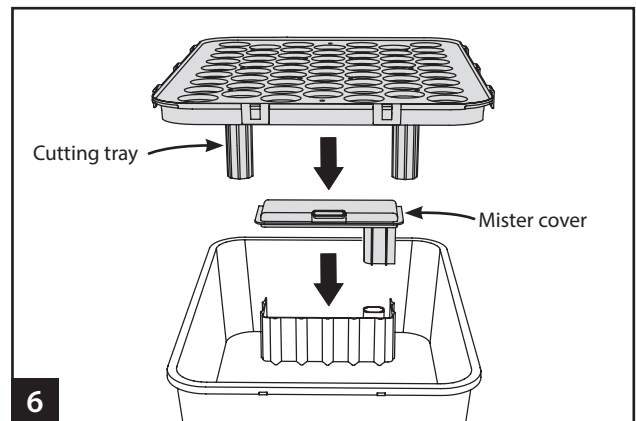
With tub upside down: A) Align tab with slot in tub. B) Slide open end of connector tube onto tub.



Tighten 6 fasteners to join tub to reservoir support.



On the underside of the tub, push the drain tube over the drain. Slide the clip on the tube and snap closed.



Install mister cover inside tub and snap on the cutting tray over the tub.

## Operation

1. Operate the Ecoclone on a level surface under an appropriate light source for hydroponic growing.
2. Remove cutting discs from foam sheet.
3. Apply root compound to plant cutting and insert it into foam cutting disc. **IMPORTANT: Do not use gel hormone! This will suffocate the plant stem.** Allow 2-4 inches of plant stem to hang below cutting disc (Figure 1). Trim off excess leaf matter to allow the plant to conserve energy and water.
4. Insert cutting disc into tray. Repeat steps 2-4 for remainder of plant cuttings. **IMPORTANT: ALL cutting disc holes in the tray must be filled with a cutting disc for proper operation.**
5. Fill reservoir with clean water only and screw cap on tightly. Orient reservoir with cap down and place into reservoir support. Water will begin flowing into system and self-regulate.
6. Plug power supply into 110VAC household power socket and plug jack into the control panel socket.
7. Turn dial clockwise to activate and set at 2-3 for normal operation. Adjust dial depending on climate and type of plants being used.
8. Water use will vary depending on dial setting. Do not allow unit to run out of water as a prolonged loss of irrigation may result in plant loss.

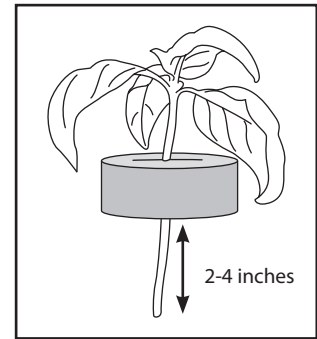


Figure 1

## Water Level

The Ultrasonic Fog Cloning System will automatically maintain the correct water level and the green LED will light. The red LED will light and the fogger will turn off when the water runs out. More water is used when the dial is set to a higher number. Excess water that collects in the tub can be drained by releasing the drain hose clip.

## Nutrients

A rooting compound is required on plant cuttings prior to insertion into the foam cutting discs. Nutrients added to the water will not improve root growth and are not recommended.

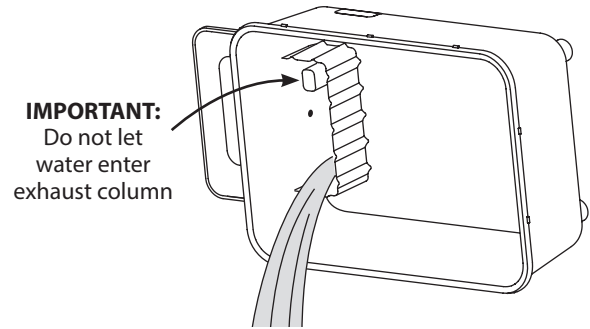
## Growing Tips

1. Take cuttings as usual using a liquid or powder rooting hormone. **IMPORTANT: Do not use gel hormone! This will suffocate the plant stem.**
2. Plants will be ready to transplant in 7-14 days depending on type of plant and health of cutting.
3. Transplant cuttings into your preferred growing medium or hydroponic unit.
4. Thoroughly clean Ecoclone with fresh water taking extra care to clean piezo (see Cleaning section).

## Cleaning

### Empty Water

1. Remove reservoir tank, tray and mister cover.
  2. Open drain hose clamp to drain tub.
  3. Tip tub sideways to drain water from mist chamber.
- IMPORTANT: Do not let water enter exhaust column.**

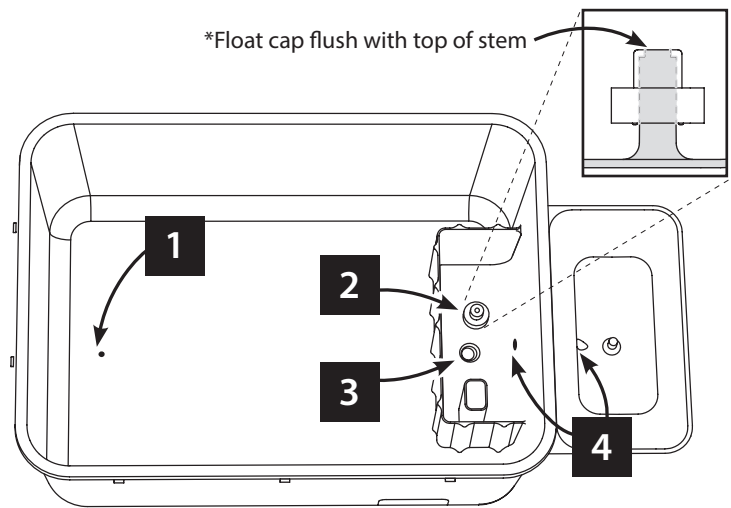


### Clean Parts

Dampen a towel with fresh water and wipe away dirt. Use Q-tips to clean smaller crevices. If nutrients are used (not recommended) clean with white vinegar. Be sure to clean the following:

1. Tub drain
2. Magnetic float\*
3. Piezo
4. Connector tunnel

\* When reattaching magnetic float cap, ensure it's top is flush with top of stem.



## Troubleshooting

Symptom	Possible Cause	Solution
Nothing happens	Power supply is disconnected	Reconnect power supply
	Water level is too low	Add more water to reservoir
	Dial is turned off	Turn dial clockwise to activate
	Float is stuck	Remove mister cover and inspect the float to ensure it moves freely up and down over the post
Poor performance	Piezo is dirty	Clean piezo (see Cleaning section)
Leaks	Connector tube is loose	Check tubing for proper fit
Unit won't drain	Clogged drain hole/tube	Clear debris from drain hole/tube

**Questions or Replacement Parts:** Visit [www.humboldt-ecoclone.com](http://www.humboldt-ecoclone.com)