

2021

CliMist™ Misting System
Owner's Manual v2.2



CLIMIST™ HYDRATION SYSTEMS

Please follow the instructions in this owner's manual fully to properly setup and install all CliMist™ hydration misting systems. For more info, please visit <https://www.climist.com>

Welcome to the Coastal Exotics Inc, family of products, CliMist™ development started back in 2004 where our first publication on DIY misting systems started (<http://www.chameleonnews.com/04JanLucas.html>). Things have improved dramatically through the process. We have produced the parts and accessories specifically for our CliMist™ brand hydration misting systems. Not happy with the quality of what was out there resulted in where things are today. Over the years we have received many questions about DIY misting systems. Now with our brand of custom parts anyone can build a better DIY system or go with one of our out of the box CliMist™ kit and expand as need from there. Options are endless and everything is at your finger tips online at www.climist.com .

We would like to thank you for choosing our system and welcome you to the journey in hydrating the wildlife we all love so much. No matter if you your purpose is for hobby, commercial, or institutional use you will find great value and quality in our product line. Not only that, but we are always here to offer support along the way too. While we started this with chameleons and plants in mind, the uses are endless and evolving even for us now also customizing for tortoise habitats.

If you have any questions, concerns, comments, or issues with our products please contact us directly by www.CliMist.com or email at sales@climist.com Our Company has been around for over a decade now most know us as Coastal Silkworms™! We are based in the USA, and offer the fastest shipping times for any support, claims, and warranty repairs. We know how import automatic hydration is to our customers, and will do everything we can to minimize down time. This is why our systems come with a 2-year warranty*; you just can't beat the quality and value. Not to mention the free shipping on every order in the US*!

Now let's get the obvious out, we are dealing with water and electricity of which do not mix. Please use caution and common sense when installing, repairing, and cleaning your system. Always keep electrical outlets and equipment away from water. Installing a GFI outlet around water is always ideal to prevent electrical related incidents. Make sure all equipment is unplugged when working on it. Allow for proper drainage and keep over spray away from power plugs, equipment, and power strips. **PUMPS ARE NOT SUBMERSIBLE, DO NOT INSTALL THEM IN WATER.** Be safe, allow for proper drainage to prevent water damage. Our pumps can run dry with no harm to the pump; however, you should check your reservoir water level on a regular basis as well as drain(s) to make sure everything is working as planned.

CliMist™ Hydration Systems

Tools needed:

9/16" Drill Bit

Power Drill

Adjustable Wrench

Measuring Tape

Marker



(This is a key step to prevent leaks and clogging pump.)

1. From the bottom of your chosen reservoir measure 1.5" from the bottom of the bucket and make a mark with marker. This mark will be the center point you will use to line the drill point to. With an electric power drill with 9/16" bit bore a hole in to the reservoir. You want this to be a tight fit to get a proper seal with provided rubber gasket in the next step.

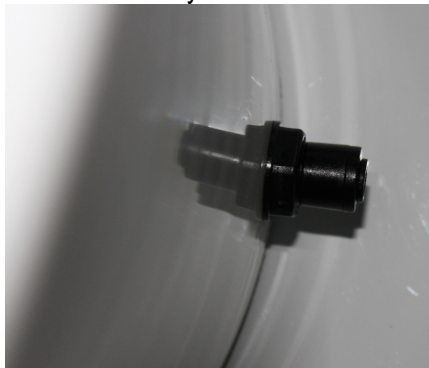


2. Take the 1/4" bulkhead with plug and gasket, unscrew and remove bulkhead nut. Insert bulkhead through the hole you made from the inside of the reservoir. The gasket should be against the inside wall of the reservoir to make a water tight seal.

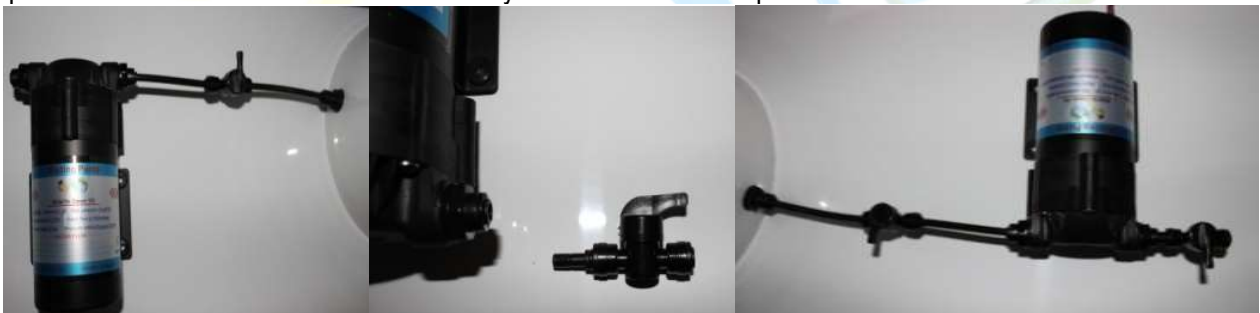


(Note rubber gasket is attached inside the reservoir; this will prevent it from drying out and make a water tight seal)

- Hand-tighten the nut back onto the bulk head. Using the adjustable wrench tighten nut no more than a ½ turn beyond hand tight. Do not over tighten you will crack the nut and or strip the threads. More times than not just hand tight will make a water tight seal when installed correctly.



- Place plug into bulkhead fitting on the exterior of the reservoir.
- Fill reservoir with water just past the bulkhead to check for any leaks. If you see water dripping tighten bulkhead nut slightly more with wrench. Drain and remove plug, reservoir is now ready to install. To remove plug, like all quick disconnects, push this fitting in all the way. Hold the plastic collect around the fitting you want to remove tight against the fitting you do not want to remove. Pull the plug in this case out and it will release with little effort. You can purchase a tool for this from our website if you wish to make the process faster.



- The above is an optional add-on if you wish to be able to close off your system to do any work on the pump without it leaking water when disconnected. This will require purchasing additional ball valves and union fittings. Contact us with any setup questions.

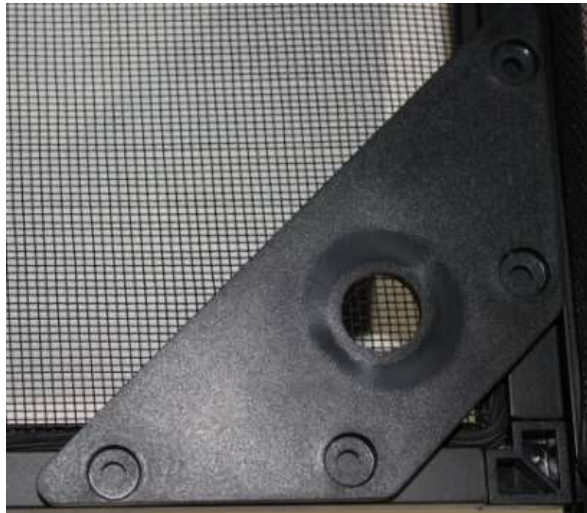
Install the pump on the exterior of the water reservoir bulkhead, our pumps are not submersible **DO NOT INSTALL THEM INSIDE THE RESIVOR UNDER WATER.** Once the pump is attached you can move on to installing the cage fittings.

CliMist™ Screen Top Mount Assembly Installation Instructions

Tools & Parts Need:

Cage Mounts (sold separately on our website not included)

Phillips Screw Driver



1. The mount will install inside the cage, you if you have an assembled cage you will need to empty the cage and flip it upside down. If this is a new cage that is not assembled yet, find the top piece. Decide what corner you want your misting assembly in, wedge the mount in the corner so it's flush on both sides of the frame.



2. Using the screw driver and the included (4) screws, install all four screws. Be sure the logo on the mount is not facing you, the screws will counter sink into the provided holes. The mount must be flush on both sides.



3. After the mount is secured, flip the cage right side up. Using the screwdriver, poke a hole in the center of the mount hole. Stretch the hole wider in a circular motion until the mounting hole no longer is covered by screen.



4. Place your misting assembly into the hole from inside the cage, screw hand tight the bulkhead nut. Your mount and misting assembly are now attached to the cage and you can continue installing your system.

HYDRATE
YOUR
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How To Install CliMist™ Hydration Nozzles To Hard Surfaces

Tools needed:

5/8" Drill Bit

Power Drill

Measuring Tape

Marker

1. Measure and mark all locations you wish to install a CliMist™ nozzle assembly to. There is no set location every install is custom for each individual animal and enclosure. Be sure to allow room in all corner locations for the assembly bulkhead to fit through once drilled with 5/8" bit. We recommend 1 ½" from all corners and walls.
2. Using the power drill and 5/8" bit drill out holes in all locations you marked. Keep in mind you need to allow room for the bit to drill through in all location close to corners and side walls. (The hydration nozzle tips do adjust and move.) For extra thick walls you will need to bore a larger hole ½ way through, then follow up with the 5/8" bit to sink bulkheads in order to catch the threads of the bulkhead and nut.
3. Remove from the parts bag all hydration assembly's bulkhead and fittings (tee/elbow), place on top of the cage you are working on. Then remove the nut and slide the bulkhead from inside the cage up through the hole. Lock in place with the nut until hand tight (DO NOT OVER TIGHTEN YOU WILL CRACK THE NUT), insert the fitting you (tee/elbow) and continue this process until you have all assemblies installed.

Installing Water Lines

Tools needed:

Tube Cutter (available on our website for cyclone systems, included with hurricane systems.)

Caution: It is important you use our specialized tool for cutting all tube connections that will be used with the quick-connect fittings in our systems. This tool will make clean flush cuts without pinching and compressing the tube at the cut end. Failure to use this tool may cause leaks. We sell replacement tube cutters if you did not purchase a full kit or need to extra ones on hand.

1. Start from the last assembly on the loop you are installing of new cages to the misting system. From there push in the black tube and snug the ¼ black tubing to your next last nozzle in the system. Using tube cutters, cut the line to desired length. Push tube into the fitting and continue this all the way back to your first hydration assembly. Keep in mind these are quick connect fittings, you need to push tube firmly into fittings for water tight seal. You should feel the tube click twice, if your fittings leaks push harder!
2. Decide where your water reservoir will be stored; connect the black tube from the bulkhead on the outside of the reservoir. Then decide where the pump will mount and have access to power. Run the black tube to the pump and connect with the intake (be sure you follow the arrows on the pump pointing the flow of water through the pump), the arrow should be pointing away from this tube connection. **Be sure the pump is not above the reservoir; it should be gravity fed by the pressure inside the reservoir.** This is a key step for the pump to work correctly, look at the bottom of the pump you will see arrows pointing in one direction. The intake line will be pointing into the pump. Mark the tube and cut with the tube cutter. Connect the tube to the opposite side of the pump and then to your first hydration nozzle. Mark and cut with the tube cutter, attach to fitting. If you are connecting only one cage, this will be an elbow fitting, if you have more then one case this will be a tee fitting supplied with the misting assembly. Then connect to the back of the bulkhead
3. Double check all fittings are secure.

Please note you should only use RO/DI water in our systems if you want longer life of your misting tips. Tap water will clog these tips over time resulting in frequent clogging and replacement costs. We do not cover these tips under the warranty for this reason, please do yourself a favor and install/use a RO/DI water filter source.

Trouble Shooting

How do I remove a fitting?

To remove a quick-connect fitting, press the fittings collect in, this will release the teeth and pull the fitting out the opposite way. Often you will need the use two fingers to hold the collect in, or you can use the tube cutter end with the collect fitting to hold the collect down while you pull the fitting out.

The fittings are leaking water, not mist is coming out?

The fittings are not secure, turn the system off and press all the fittings that are leaking into each other further, you should feel a click. If they will not budge, remove the tube from the fittings, insert a ball point pen into the fitting, roll it around (this will reset the O-rings) and reattach. You should feel the tube click twice now into the fittings.

My system is brand new and the nozzle will not mist when the pump is on?

Make sure the intake is installed correctly, so the pump is sucking water from the reservoir. If your pump still will not prime, remove the outtake line from the pump prime and replace the line. Turn the pump back on and all it to purge the air from the line until the mist appears solid from the tips.

The nozzle tip is spraying not misting?

Remove the tip from the hydration assembly and turn the pump on and of for a second to purge the line. Replace the nozzle and try to mist now. If your tip is still not misting, you will need to replace the tip. Using a 12mm socket remove the tip from the fitting and replace with a new tip.

I added more assemblies to my system and now the mist is not as strong?

You need to upgrade the pump or install a second pump for the new assemblies. Please follow the instructions for installing a bulkhead into the reservoir above. Note you can draw multiple pumps from the same reservoir, just install additional bulkheads for each pump and be sure your reservoir is large enough to handle the volume. In this case you may want an auto fill system; this will be covered in future updates soon!



Timer Instruction Manual

Timer features LCD display with 8 separate ON/OFF intervals with minimum setting of only 1 second and maximum of one full week. Daylight savings and random ON/OFF cycles are configurable. Fully customizable settings include day, hour, minute, and second settings with NiCad battery to save setting in the event of power outage. Please note some timers may require a charge before display will show, in this case plug timer into wall to charge unit.

1. Setting Current time

- 1.1. Hold "CLOCK" and press "HOUR" to set the current hour
- 1.2. Hold "CLOCK" and press "MIN" to set current minute
- 1.3. Hold "CLOCK" and press "SEC" to set current second
- 1.4. Hold "CLOCK" and press "WEEK" to set current day

2. Setting Timer Program

- 2.1. Press "PROG" to enter the setup mode, the display will show "1 ON"
- 2.2. Press "HOUR", "MIN", and "WEEK" to set desired on time and day for 1st ON period. (This is the setting you want the timer to turn on.)
- 2.3. Press "PROG" again to set the OFF time, display will read "1 OFF". (This is the setting you want the timer to turn off at.)
- 2.4. Follow step 2.2 to set the time and day you wish the timer to turn off. Remember you can program to the second the amount of time you want per setting. This time should be longer than the setting you want the timer to turn "ON" for. For instance if your "ON" time is 8:00 and you want the timer to run for 1min 30sec you will set the "OFF" time to 8:01:30 and select the days of the week you want this to cycle to run for both "ON" and "OFF".
- 2.5. Press "PROG" again to enter into 2nd ON/OFF cycle.

Repeat steps 2.1 – 2.4 until all desired timer setting cycles are configured. There is a total of 8 individual ON/OFF settings, you can use one or all eight or any combo thereof. Press "R" to cancel the time setting. All unused ON/OFF setting should have - - - - on the screen.

3. Combination Weekly Setting

- 3.1. During the timer ON/OFF setting in setup 2.1 - 2.4 press "WEEK" once. The display will show Mo Tu We Th Fr Sa Su at the top of the LCD screen. This setting will turn the unit ON or OFF 7 days a week
- 3.2. Press "WEEK" again, the day setting will change. Set the required day selection for each ON/OFF cycle. The timer will only work on the day or days you select. Example, if only "Mo" is selected, then the timer will only function on Mondays for that setting.
- 3.3. Options for weekdays only, weekends only, one day a week, every 2nd day, and more are possible. Just cycle through the options by pressing "WEEK" until the desired setting is reached.
- 3.4. Repeat "WEEK" function for each ON/OFF setting.

4. Timer ON/AUTO/OFF Finger

- 4.1. Press "SEC/FINGER ICON" the indicator at the bottom of the LCD display will show "ON" or "AUTO" or "OFF", this indicating the current mode the time is in. "ON" – this indicates the timer is now permanently turned ON. "AUTO" – this indicates the timer will follow the programmed cycle settings setup in section 2. "OFF" – this indicates the timer is permanently OFF.

5. Special Functions – Daylight Savings & Random

- 5.1. Press “WEEK” and “HOUR” at the same time, the LCD will display “O” on the right side of the screen. This will randomize your timer settings from 2 min to 32 min.
- 5.2. Press “HOUR” and “MIN” at the same time, this will activate the daylight savings function and change the current clock time one hour ahead or one hour behind the current setting.

6. **Notes**

- 6.1. Before first use, charge timer batter for 2 hrs by plugging unit into wall.
- 6.2. Timer has a tolerance of approx 2 minutes per month.

For parts and accessories please visit:

www.CliMist.com

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Visit our sister company for all food and animal needs:

www.coastalsilkworms.com

