

## CliMist Darwin Misting Systems

### Tools needed:

Water Reservoir (we recommend a 5 gallon food grade bucket from any home improvement store with lid)

9/16" Drill Bit

Power Drill

Adjustable Wrench

Measuring Tape

Marker



(Skip step 1 if you bought a system that comes with a reservoir, and start from step 2.)

1. From the bottom of your chosen reservoir, measure 1.5" from the bottom up and mark as shown. This mark will be the center point you will use to line the drill point up to. With the power drill and 9/16" bit attached, bore a hole in to the reservoir. Make sure to clean out any scrap pieces left behind from the drilling.



2. Take the 1/4" quick connect bulkhead with plug and gasket, unscrew bulkhead nut and slide through hole from the inside of the reservoir. The gasket should be against the inside wall of the reservoir to make a water tight seal. This is very important; the water will keep the rubber seal lubricated to prevent it from drying out and cracking. It will leak any other way over time.



3. Hand tighten the nut back onto the bulk head as shown. Using the adjustable wrench tighten nut no more than a 1/2 turn beyond hand tight. **Do not over tighten you will crack the nut, and will have to replace it before use.**



4. Place plug into bulkhead fitting on the exterior of the reservoir. If you chose to use a ball valve, you can use it in place of the plug here (ball valve is included with the Hurricane system only). Turn valve off and place a piece of tube between it and the bulk head. Later you will connect the pump to the other end of the ball valve.



5. Fill reservoir with water and check for any leaks. If you see water dripping tighten bulkhead nut slightly more with wrench. Empty reservoir and remove plug, you are now ready to attach the pump. If you used a ball valve here no need to empty reservoir.



*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.*

## How To Install CliMist Hydration Nozzles On Solid Cage Walls

See mounting plate instructions for screen cages and screen top terrarium installs below. <http://climist.com/mountinstall>

### Tools needed:

5/8" Drill Bit  
Power Drill  
Measuring Tape  
Marker

1. Measure and mark all locations you wish to install a hydration 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. Typically about 1.5" from any adjacent wall.
2. Using the power drill and 5/8" bit attached, 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 nozzles do adjust and move 360 degrees.)
3. Remove from the top of all hydration assemblies bulkhead any attached fittings and place on top of the cage you are working on. Then remove the nut and slide the bulkhead from inside the cage out through the hole. Lock in place with the nut until hand tight, replace the fitting you removed and continue this process until you have all hydration assemblies installed. **Do not over tighten, hand tight will be just fine, you will crack the nuts otherwise.**

## Installing Water Line

Tools needed:

Tube Cutter (supplied with some kits)

**Caution: It is important you use this 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 at connection**

points due to cuts being pinched and uneven. We sell replacement tube cutters if needed.

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 nozzle in the system. Using the supplied cutters mark the cut point with a marker and cut the line. Push tube into the fitting and continue this all the way back to your first hydration assembly. You want the line taught to prevent vibration noise when pump is running. Otherwise loose tubing can rattle, and will cause unnecessary annoyance.
2. Decide where your water reservoir will be stored; connect the black tube from the bulkhead or ball valve on the outside of the reservoir. Then decide where the pump will mount, be sure to have access to power. Run the black tube to the pump and connect to the intake (be sure you follow the arrow on the pump pointing to the flow of water through the pump), the arrow should be pointing away from this tube connection. Ideally 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 (as well as on the label). The intake 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.
3. Double check all fittings are secure. The system is now ready to use, plug in the pump and allow new systems to bleed out all the air for about 5 min. Then connect to timer and start CliMisting! See timer instructions for program options and setup.

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 please please do yourself a favor and install/use a RO 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. Hold the collect down while you pull the fitting out by rocking the tube cutter in an up and down motion.

### 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 back to the pump. Turn the pump back on and allow 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 off 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 mm socket remove the tip from the fitting and replace with a new tip. This happens often with hard water, you will need to use RO to prevent this from happening.

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

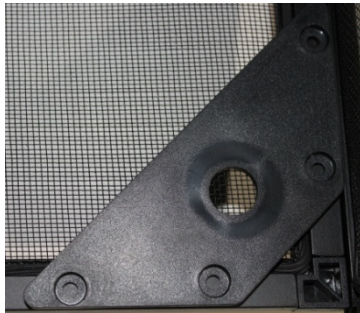
You need to upgrade the pump or install a second pump for the new assemblies. Please follow the instructions for installing a bulkhead into the reservoir above. Note you can draw multiple pumps from the same reservoir, just install additional bulkheads for each pump and be sure your reservoir is

large enough to handle the volume. In this case you may want an auto fill system; this will be covered in future updates soon!

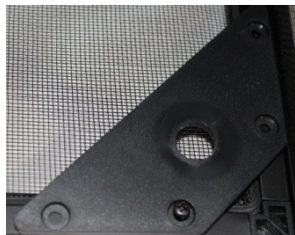
## CliMist Mount Assembly Installation Instructions

### Tools Need:

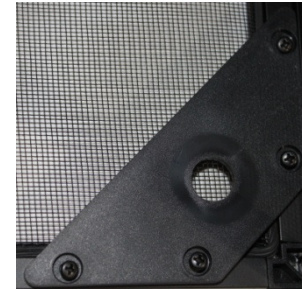
Phillips Screw Driver



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.



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.



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.



Place you 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.

For parts and accessories please visit:

[www.CliMist.com](http://www.CliMist.com)

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