www.MistKing.com



Reference Manual PLEASE READ THIS MANUAL! (Even if you don't read manuals!) version3



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Getting Started

We know you are excited and eager to use the mister, however, before you connect it learn a few basics.

Seriously, read the manual first. You will set things up on the first try!

Thank you for purchasing a MistKing system. A Versatile solution to all your misting needs. The quality choice of professionals at :

- Zoos
- Universities
- Botanical Gardens
- Hobbyists
- Institutions Around The World!

For more information on systems and parts please go to: www.MistKing.com

Please Read The Entire Booklet To Familiarize Yourself With Your New Product.

DO NOT Contact The Store Where You Made The Purchase

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Should you have any issues with your MistKing system or any of the parts please contact us directly via www.MistKing.com website or email us at info@mistking.com. We will do our best to provide you with the fastest, worry free customer experience.



Use Common Sense



A misting system is a device that sprays water. Like with any other water appliance, parts may break, burst, leak, etc. Ensure you always rely on your good design and common sense and not your product.

Drainage capacity should **ALWAYS** be larger than your reservoir misting capacity. In case of trouble the worst

that will happen is that you will over mist and possibly run the pump dry. Don't worry, our equipment can run dry without problems and if properly set up, it will start misting as soon as you add water.

Remember: Water and electricity don't mix. Do not mist onto electrical appliances and keep your reservoir away from receptacles plugs and power bars. Install GFI outlets where necessary and provide drains where possible.

6 Things You Must Know Before You Start.

- 1. DO NOT try to syphon water into the pump. DO NOT install the pump above the reservoir or it will not prime properly 100% of the time. Even if it works, it's not the way to do it. Install the reservoir bulkhead with 1-2 ft leading to the pump. Always gravity feed water to the pump.
- 2. DO NOT force fittings apart or rip tubing out of the fitting. To take them apart, press on the collet and gently pull. Parts will not come out simply by pulling apart. See this video if you don't know how: MistKing.com/RemovingTubing.html
- **3. DO NOT** ever unscrew the tip of the nozzle when you receive the system. We test them twice so they come fully functional. If it's not working, it's probably something with the setup and not the misting assembly. Touching the delicate cone in the middle of the misting nozzle will alter the spray pattern and possibly damage the nozzle. Be careful and don't touch the center!

- **4. Remember** that misting assemblies are for high pressure application and have a check valve built in. You cannot blow through the nozzle. Even if you could blow through it, the flow is so little you would not feel it.
- 5. When connecting tubing to fittings or pump, don't take shortcuts. Use a fresh utility knife/blade, or **MistKing cutter** to make perfect cuts. Never use scissors or anything that will pinch the tubing before cutting. Make sure that tubing is not bent right as it comes out of the pump. It should go straight out before bending to avoid leaks.
- 6. Push the tubing into the fitting. If you turn on the pump and the connection leaks, push harder until the tubing passes the o-ring and makes a proper seal.

Good Design

In order to have a properly configured system there are few things to keep in mind. Most are outlined in the previous 6 points. If you do not follow the steps you will have a poor install, so understanding the basics is very valuable. It will save you time, so connect it right!

Always Remember that this is a water appliance and treat it as such. Take proper precautions in order to avoid mishaps. We don't ship reservoirs with our systems as you can buy one for just a few dollars at any hardware store. Painter's buckets work great, have lids, large capacity and are food safe. You can also use any reservoir you wish that fits into your design.





If you are familiar with MistKing systems, you can connect everything in a matter of minutes. If you do not know anything about them, we recommend reading this manual and learning about proper misting system setup. Even though this reference manual is geared towards plants and animals, this setup can be applied anywhere automated misting is required (aeroponic, greenhouse, plants, animals, industrial, etc).

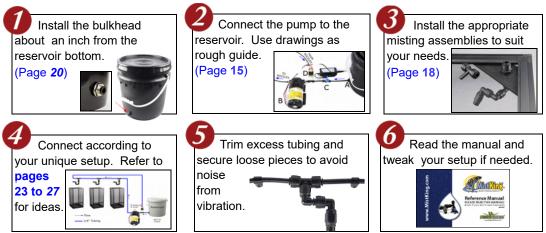
HINT 1: Pump <u>must</u> always be gravity fed from the reservoir bulkhead.

HINT 2: Never force fittings and tubing apart. These are standard "push to connect" fittings and should be easy to insert and remove once you know how. Press on the collet and pull the tubing/part out. To see a video about how to do this, visit: **MistKing.com/RemovingTubing.html**

HINT 3: Nozzles are tested for mist pattern and dripping. The center of the misting tip is very delicate. Be careful, **DO NOT** disassemble or mess with the nozzle tip to avoid permanent damage. If nozzles are not misting, it's probably set up wrong.

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If you have questions read this manual first and refer to the Troubleshooting Guide. If you still need help, contact us via MistKing.com.

Reservoir And Pump Placement

Why Don't You Want To Install The Pump Above The Reservoir?

If you have the pump above the reservoir water will first need to be sucked up to the pump, then mist. Water will never be instantly available when you need it. Always gravity feed and be ready to mist right away!

> All our nozzle tips contain a check valve that will stop the majority of the dripping right at the nozzle after misting. This is a great feature but makes it more difficult for the pump to self prime when the pump is above the reservoir.

Remember: The pump is not a valve. If you have the pump above the reservoir, water from the lines can drain between spraying, leaving a pump full of air. This makes it difficult or impossible to self prime.

Always, gravity feed water to the pump for years of worry free service!

Where do I place the reservoir?

NO

servoir bulkhead

Reservoir

Draw an imaginary line at the level where your misting nozzles are. Ensure that you place the reservoir and the pump below that line. If placed above, the reservoir will be draining through your nozzles.

Where do I place the pump in relation of the reservoir?

The main objective is to get instant flow to the J pump without any delay. This will allow you to

create short misting durations and consistent pump performance.

Most important. You must use the reservoir bulkhead. Siphoning water through the top of the reservoir is not correct way to connect to the reservoir.

Draw an imaginary line at the level of the installed bulkhead.

YES Place pump on the same level as the reservoir bulkhead. You can go lower, but it's not necessairy.



Quality Misting Systems

Why Mistking Or Jungle Hobbies Ltd?

Virtually all of our products are custom made for us, starting with pumps, timer circuitry, fittings, tubing, etc. We continually strive to perfect the products we sell and do not use anything commonly available as most copycats do. We stand behind our products 100%. Our list of customers includes:

- Zoos
- Universities
- Botanical Gardens
- Hobbyists
- Institutions Around The World!

Many business owners recognize our constant dedication to quality, and distribute our products all over the world. We offer **ALL** products directly through **MistKing.com**. Should you ever be dissatisfied with anything we do, please contact us directly. We simply do not accept anything less than a 100% satisfaction.

Disassembling The Nozzle Or Fittings

We already mentioned that all fittings and tubing can easily be removed. Never force them apart, press on the collet (ring around the tubing) and pull gently while the ring is pressed. Watch this video to see how it's done MistKing.com/RemovingTubing.html

Programming The Timer



We are constantly contacted regarding the programming needs for your specific application. If you're misting plants or animals be sure to research misting and humidity requirements in your favourite online community. Keep in mind that currently we have 3 different controlling devices:

ST-24 Seconds Timer, HT-24 Hygrostat/Thermometer & RCT-24 Repeat cycle timer. Each is best suited for particular application. For more information on how each controls the misting system visit: MistKing.com/Timers-and-Controllers. (Use and program as per the instructions included with each controller.)

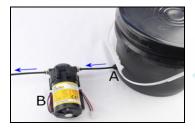
Installing A Misting System

Now that you have learned how to properly set up the system and how to remove tubing/fittings without damage, follow these steps to set up your misting system. Remember that every system can be different and this is a guide only. Some connect 1 misting assembly while others connect multiples. The idea is the same once you understand the concepts. Here are steps to help you put the misting system together.

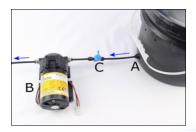
STEP 1: Install the reservoir bulkhead, shown by the red arrow. For more detailed instructions on how to install the bulkhead, refer to the BULKHEAD RESERVOIR INSTALL INSTRUCTIONS on Page 20.



STEP 2: Identify which version of a misting system you have. Blue arrows identify the direction of the water flow.

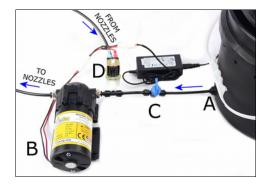


Version 1: Connect the reservoir bulkhead (A) to the pump (B) with a piece of tubing. Notice the flow direction on the pump label. Never put the pump higher than the reservoir.



Version 2: Connect the reservoir bulkhead (A) to the manual ball valve (C), then connect the valve to the input on the pump (B).

Version 3: If your system includes a ZipDrip valve (D), plug the male end of the ZipDrip "T" into the pump (B) intake. Use a piece of tubing to connect the reservoir bulkhead (A) to the manual ball valve (C) and then into the other end of the ZipDrip "T" as shown in the photo.



PLEASE NOTE that the output of the pump goes to the misting assemblies, then comes back into the input of the ZipDrip forming a loop. (HINT: ZipDrip valve has a small arrow on the underside showing flow direction.)

STEP 3: Installing The Misting Assemblies. We offer a multitude of misting assemblies that can be utilized for various applications.

Remember to NEVER touch the middle of the nozzle or unscrewing the nozzle tip. If you received the assembly from us or a distributor, assume that it works and you don't need to take it apart. If you cannot get the system to produce fine mist, please re-read this manual. Understanding the proper way to set the system up is crucial. If you still can't get things working please contact us. Send us few photos to make things easier.



Install Misting Assembly



Value Misting Assemblies can be installed through a 5/8" hole. Other assemblies may require different size holes. If you're installing the assembly into a screen top we suggest that you purchase a **Screen Top Wedge** to make installation easier.

Carefully Take The Misting Assembly Apart Do Not Force The Fittings Out!



Feed the bulkhead through the hole. Install the top nut to hold the misting assembly securely in place.



Plug in the included fitting and push in the tubing to finish the misting assembly install. You can connect multiple assemblies together as needed. Remember to push the tubing in all the way so it passes the rubber oring inside the fitting. If the connection leaks, simply push it harder to ensure a proper seal.

If your misting assembly does not include a bulkhead and if you're installing it in a greenhouse type environment, use 2 tubing clips to secure the tubing. Be careful not to install the clips too close to the misting assembly as that may break the seal causing dripping at the connection.

Bulkhead Reservoir Installation Instructions

Every system comes with hardware required to convert any container into a reservoir. Depending on the version of the system you purchased, you may have a thermoplastic or metal reservoir bulkhead.



 Select a reservoir that will fit into your setup. It is always a good idea to get one with a lid. Painter's buckets at hardware stores are food grade and are very inexpensive. For large setups or multiple systems you may require a much larger container. Select according to your needs.



2. For STARTER and ULTIMATE systems drill a 9/16" hole for a very tight fit (for loose fit use a 5/8" bit). For an ADVANCED system based on larger diameter tubing drill a 3/4" hole for very tight fit (for loose fit use a 7/8" bit) about an inch from the bottom. Use tight fit for plastic buckets that you can force the fitting into and use loose fit for hard containers (ie. acrylic, glass)

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4.

3. Take the bulkhead and put the rubber o-ring onto it so it sits tight against the non-moveable side. Insert the bulkhead all the way, as far as it will go, so the o-ring sits on the outside of the container, squeezed between the bulkhead and the container surface.

4. On the inside of the container, put the nut over the bulkhead and hand tighten as much as you can. Then use a wrench to gently turn half a rotation. There should be a small marked compression on the o-ring. Remember, only slight! NOTE: DO NOT OVER TIGHTEN. On thermoplastic bulkheads you may skip the thread and possibly damage the bulkhead. For metal bulheads DO NOT OVER TIGHTEN as not to damage, stretch or push the o-ring out from under the nut.



5. Once you install the reservoir bulkhead it will look like the photo. Plug in a piece of tubing or a plug into the newly installed reservoir bulkhead. Test for leaks by filling up the container with water and leaving it for 30min. The connection should be completely water tight.



NOTE: If a leak develops between the reservoir and oring, tighten the nut by a quarter turn inside the reservoir. If a leak develops when you insert the tubing, (between tubing and fitting) you probably didn't insert the tubing far enough and it didn't pass and seal the small o-ring inside the fitting. Insert further to fix and remember never to force things apart. System Without Zip Drip

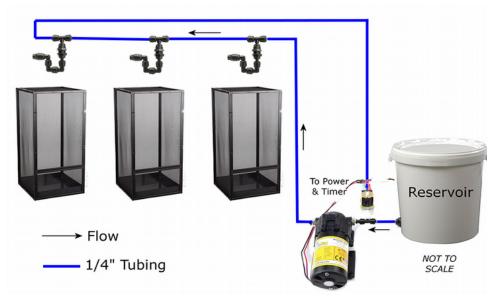


Systems that do not have a ZipDrip valve connected, terminate with a final elbow misting assembly or a T-misting assembly that has been plugged. Whether you are connecting a single or multiple nozzles, the idea will be the same. For illustration purposes, we are showing an install with 3 nozzles.

The instant the pump stops, the pressurized water inside the tubing has nowhere to go and will cause your nozzles to drip a little.

Once pressure drops where the check valves in the nozzles can engage, the nozzle will close and dripping will stop. Nozzles, will never drip for an extended period of time after misting is done. Nevertheless you should expect more dripping than from a system equipped with a ZipDrip valve.

System With Zip Drip Connection

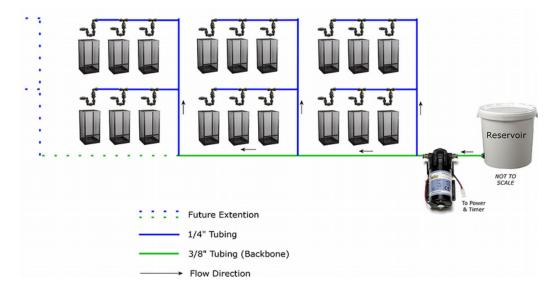


Systems that include a ZipDrip valve form a loop allowing rapid release of pressure that is trapped in the lines when misting stops.

Remember that misting system pumps run between 60-125 psi depending on how many nozzles you are using and if the pump's bypass is engaged during misting.

These nozzles already contain the built in check valve, which greatly reduce post mist drip, nevertheless little dripping is expected. A system equipped with a ZipDrip valve instantly releases pressure from the tubing, resulting in a clean finish with zero ... ZIP...DRIP! This is a great option in places that are not drained and only benefit from the added mist and not dripping.

3/8" BACKBONE SYSTEM



In larger systems (20 nozzles+) the system may bottleneck on the input and on the output as the 1/4" tubing may not be able to handle the demands of the misting system. For this reason the pump must be supplied with larger tubing. It also needs to properly supply all the misting assemblies with water. (The green line in the diagram refers to the system's "backbone" of 3/8" diameter tubing. From there you can run your 1/4" connections.)

Our systems are all modular, therefore your system will probably look totally different, but the diagram should give you an idea on how to connect things together. You can install your system in a greenhouse, a barn, Zoo, rack, etc., but the idea will be the same.

For simplicity, fittings are not shown on the diagrams. Remember when connecting tubing:

- 3/8" to 3/8" you will need a 3/8" fitting
- 3/8" to 1/4" you will need a reducing fitting
- 1/4" to 1/4" you will need a 1/4" fitting

Plan accordingly and figure out the system before you cut and connect things together.

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About The Pumps



When Connecting the pump for the very first time, please let the water run through it for about a minute or two. This way, if there was any debris trapped during the manufacturing process it will be flushed out and it won't clog your nozzles. We've never heard of anything being stuck as the pumps are all tested, but it's a good practice to follow. Notice the direction of the flow as indicated on top label. Typically our pumps will prime themselves. However, never mount the pump above the

reservoir. In conjunction with our check valved nozzles self priming will be virtually impossible. For that reason, **all pumps should always be gravity fed**. Always install the reservoir bulkhead. Read more about 'good design' to optimize your setup.

Our pumps operate on low voltage and draw very little power when running. In addition these are extremely quiet and robust and can run with or without water in the reservoir without damage.

Priming The Pump Manually Or First Time Use

You may never need to do this, however initially when system is fully set up, it may not mist. Sometimes leaving it running for few minutes starts it up and from then on works fine. However, if the pump head is dry after shipping or extended period of not being used, it will need to be primed manually.

- First, verify proper setup. Bulkhead installed in your reservoir, gravity feeding water to the pump (pump and bulkhead on same level or pump below it, but not above it).
- Ensure reservoir is never placed above the nozzles.
- Trim any excess tubing that may be breaking siphon or rattling.
- Assuming you are fully set up, unplug the tubing at first nozzle. Turn on the pump by either continuously holding "ARROW UP" up on the controller or plugging the pump directly into the power adapter.
- Wait until water starts to sputter out of the tubing. It may take few minutes to fully work out air out of the pump head. A quick method is to physically suck on the tubing to force draw water into the pump head while the pump is on. Once water sprays in somewhat steady stream you can plug the tubing back into the nozzle.

You should now be fully primed and ready to mist.

WARNING: NEVER PUT THE PUMP INTO THE RESERVOIR OR IMMERSE IT IN WATER!!! THIS PUMP IS TO RUN OUTSIDE THE WATER CONTAINER. THIS PUMP IS NOT SUBMERSIBLE!

Types Of Nozzles

We offer a multitude of various misting assemblies for different purposes. We currently have nozzle designs that are exclusive to us and are patented at the USPTO. We have nozzles that install through a surface, some that can be suspended, adjustable, straight, with shut off, with a tee, with an elbow, single, double, quadruple and many others.

If your needs call for it and we don't offer it for sale, we can probably design an assembly just for you. For a complete list of available misting assemblies visit **MistKing.com**. We test all the assemblies that we sell directly or through distributors. Often you will receive them wet from testing. Don't worry, these are not used as we will never sell used parts to you.

How To Connect A Screen Top Wedge

Some of our misting assemblies only require a hole to install. If you're trying to install a MistKing nozzle into something that is very flexible (ie. screen top), we suggest using a bracket for support. These can easily be crafted on your own if needed.



For your convenience, we offer corner wedges that are ideal for this application and can be mounted to a corner of a screen top frame. These offer a perfect 90 degrees, provide a secure mounting point, and strengthen the frame once installed. Wedges are black, injection moulded, made of PVC, and are MistKing branded. With counter sunk holes and matching self piercing screws these can easily be secured to a frame. Once installed, cut a small slit in the screen and install the nozzle. The previous **nozzle installation on page 18**, shows a sample install into a cage with a screen top. All Jungle Hobbies screen top cages already have factory installed brackets and are MistKing ready.

Distribution Opportunities

If you run an online store or have a brick and mortar store and would like to sell Jungle Hobbies and MistKing products, contact us at **info@mistking.com**. We have a multitude of distributors through stores and websites across Canada, USA. and the world.

BE SURE TO CHECK OUT OUR OTHER HOT PRODUCTS!

Tired of the low end products available at your local retil outlets? Consider Jungle Hobbies Ltd. If you're serious and want to take your passion to the next level, try some of our products that many are already relying on. We are constantly growing. **For example:**





Advanced LED Lighting System now come in two (2) sizes.

Uses extremely bright 6500K LED, provides high PAR values, has a remote control, 5 daily cycles – Dawn / Sunrise / Day / Sunset / Night, it's low voltage and can be networked with other lights. If that's not enough, enjoy the 15,000 hr rating on the LED's as well as lightning and cloud modes!



75 GPD Reverse Osmosis Filter With Pressurized Storage Tank And Faucet

This filter provides pure filtered water for you and for your hobby.

In addition this RO unit can be connected to your MistKing misting system with an **extra valve**. One of the most difficult thing on bargain RO systems is the changing of the filters and knowing when to change them. Also not knowing what quality water you are producing and if you're producing the water efficiently if you're only relying on your house pressure alone.

Jungle Hobbies RO filter features HOT SWAPPABLE filters. You can replace a filter in seconds without any tools and without turning the water off.



The display will indicate to you when a filter needs changing and an on board TDS meter will tell you exactly what quality water you're producing. You don't need to worry about your house water pressure as the system uses a MistKing booster pump that will effortlessly boost pressure to efficiently make the cleanest water possible.

Stay In Touch With MistKing And Jungle Hobbies!

At times we will offer special incentives, coupons and latest news that some of you may find useful. Be sure to subscribe to us via various social media outlets. Get the latest information and always be in the loop.



Facebook.com/mistking



Youtube.com/mistking1



Twitter.com/mistking



Instagram.com/junglehobbies

Troubleshooting

1. Pump hums but no water comes out or the mist is very weak.

Ensure that the pump is **ALWAYS** gravity fed and that you're using a bulkhead. Although it seems that it should work, don't forget that our misting assemblies are check valved, preventing the pump from properly priming on its own. It's also a good practice to always have water available for the pump as soon as you energize the misting system.

2. Brand new system nozzles don't spray.

Whatever happens, please do not try to "fix" the nozzle tips. We test them twice before shipping them out and these work just fine. Before doing anything to the misting assembly or the nozzle tip, correct your system setup, pump position, bulkhead install and test the system. (**NOTE:** You cannot blow through the nozzle as they contain a check valve.) Even if you could blow through it, the flow would be so low that you would not feel it. Pumps work at high pressure and open the check valve.

3. Nozzles used to spray better, what happened? It worked before!

- Always ensure that the bulkhead is installed and that the pump is gravity fed. Never install the pump above the reservoir.
 - Keep the reservoir clean. You may have dust, debris falling into the reservoir making the clean water dirty.
 - Use only Reverse Osmosis or de-mineralized water. Using tap water or water filtered though a small kitchen filter will still have minerals present which will eventually distort the misting pattern or clog the super fine nozzle opening.
- Never tamper with the center of the nozzle tip as that will certainly damage it. If you used tap water for months/years and spray isn't so fine any more, try soaking the whole assembly in CLR or vinegar solution to dissolve the minerals. If the nozzle is clogged with debris, you may want to try to unscrew the nozzle tip



and clean the tiny filter or replace the nozzle tip as soaking it won't work.

4. Cannot maintain pressure when misting, water only drips,

- You may not be setup optimally, (See notes about good design on page 8.)
- Check the ZipDrip valve (If Installed) that the electrical connections are secure. It may be possible that the ZipDrip has been disconnected and now allows water to be pumped in a loop.



5. Pump is noisy

Key to remember is that all our pumps are very quiet. Most of the noise is actually coming from the pulsation that the working pump transfers to the tubing and as it vibrates it's creating the noise hitting various objects. Easy fix is just to use tubing clips, zip ties, or tape to secure the tubing so it is tight with no excess that is allowed to make noise.

6. Tubing or fitting is stuck. How do I remove it ?

Once you know how to remove tubing or fittings this becomes easy and trivial. If you don't know how the push to connect fittings work you may end up damaging the fitting.

Watch this video on how to remove tubing easily **MistKing.com/RemovingTubing.** If you cannot get to a computer, just remember that you can press the collet and remove the tubing gently, never forcing it apart.

7. ZipDrip valve is very hot to touch (If your system is equipped with one)

It means you connected it wrong. ZipDrip should only be powered when the pump is powered. Ensure the power adapter is connected to the blue lead on the timer. The black lead on the timer should be connected to the ZipDrip, which also connects to the pump via the short zipdrip cable. See connection diagrams for each controller in the instructions section MistKing.com/instructions

8. Why is there so many parts for a misting system? I'm confused.

This is a question we hear often, typically by new people that feel a bit overwhelmed. Always remember that whatever you need, we're always there to help. Don't think that our systems are complicated, but rather open yourself up to the fact that this is like small scale plumbing, where things just click together and can easily be taken apart as well. One which can adapt to any situation. If one person has setup "A", they will need specific combination of tees, elbows, nozzles, etc., that suits their needs. A person with much larger setup "B", will have a different, larger combination of same parts, perhaps a different pump that can accomplish the same misting goal on a larger scale. It's hard to include a specific diagram without knowing your setup. It's better to understand the idea behind MistKing systems rather than follow a specific design. We're able to adapt to any setup, being a terrarium, Zoo, university lab, greenhouse, cattle barn, patio, air conditioner. Remember, if you need to mist it, we can help you!

9. Are the nozzles adjustable? Can I spray more or less?

This question is little tricky and you may think that these are non adjustable, however: YES you can adjust the amount of water that the system sprays. To answer it in more detail you have to understand that when you mist more or less in a given time you're most likely increasing the size of water droplets to make things more wet faster (think rain vs mist). This will result in less benefit as far as humidity goes. For this reason we opted only to use the lowest flow misting nozzles available, basically setting our starting point on extremely fine mist. In essence, you cannot make finer mist if you were to adjust it, as this is as low as it will go. To mist more, you simply mist longer.

10. Mist from our systems is extremely fine.

The average droplet size is about 50 microns. How fine is 50 microns?

- 5 Microns Very Fine Fog
- 20 Microns Heavy Fog
- **50 Microns** MistKing Nozzle
- 100 Microns Fine Spray
- 240 Microns Medium Spray
- 400 Microns Course Spray
- 1000 Microns Fine Rain Or Drizzle
- 1000+ Microns Rain



11. System not able to spray short durations.

In order for your misting system to spray very short durations, you need to ensure that everything in your setup is fully optimized. This way you will be able to mist almost instantly. If you have a 'sloppy' misting setup, with excessive lengths of tubing that are

snaking around the reservoir, badly placed reservoir and no bulkhead, then you can assume that it will take a long time in order to bring water to the pump to mist. For example, If it takes 30sec for your pump to be ready to mist and you want to mist for 10 or 20 sec then this will not be possible.

If you follow the setup rules and have proper reservoir placement, connect the pump properly, remove all the excess tubing then your pump will always have water available for misting. This means if you want to mist for short durations then you will be able to. Be sure to always run a tidy and optimized misting setup to get the most out of it.

12. WHAT ABOUT A CONTAINER ?

We are asked this all the time. Why don't you include a reservoir, or why don't you build everything into a single enclosure, etc. Our idea is very simple. Our system should not be the center piece of your design. You want to build it into your design in such a way to hide all the elements and just enjoy what it offers - the mist! Clean and crisp finished product is our focus.

We don't offer reservoirs because, for starters, we have to ship an empty container which drives up cost. You are forced to purchase a container, which may or may not fit into your setup. If you need something standard, you can pick up a painter's bucket locally at hardware stores for just a few dollars. Some Zoo's use specialized water tanks, some hobbyists use a small tub. You decide, whatever works in your setup! Our systems come with reservoir bulkheads to convert any container into a reservoir. **Ensure That You Have A Lid!**

13. Which water to use?

We always recommend using de-mineralised water for use in our systems. Reverse Osmosis (RO) is ideal and is commonly used and sold as filtered drinking water. Using tap, well, spring, or water treated by pitcher or faucet filters won't prevent the minerals from depositing in the nozzles, and aside from improving the taste, do nothing else.

A misting system is a convenience tool, so remember RO water doesn't clog your nozzles, dries perfectly clear with no water spots, and is ideal for your daily misting. Make sure you don't subscribe to the bogus chain letters or urban legends that relate to RO water. Entire industries rely on RO with no ill effects!

14. Cleaning

Make sure that you always use RO water. This means that you'll virtually never have to clean or worry about deposits in the nozzle tips. Keep your reservoir lids closed to prevent dust and debris from falling in and clean it regularly.

If you don't use the recommended water and you start to notice a degraded mist pattern due to mineral deposits, try soaking the entire nozzle in a 50/50 solution of water and vinegar for 12 hrs. Sometimes you may be able to make it work better again.

15. Components are wet when received

Don't worry, we don't ship used parts and never will. We test most parts and they may be wet when you receive them.

Timers and Controllers Troubleshooting

The following are the most common questions regarding our controllers. These are covered in the instructions, nevertheless we still get asked.

"Arrow Up" on all our controllers initiates manual override and turns the system ON. Press it, after 5 sec the system will turn ON for as long as the button is held. As soon as you let go, everything goes back to normal and follows the preset program.

ST-24 Seconds Timer

Times are programmed and system turns ON but never shuts off. There are 2 possibilities.

- Programming is wrong. Ensure that every program is set to start time and duration, ie: P0 Start at 08:05:00am, Stop 00:00:17 meaning the system will start 8:05am and mist for 17sec. Do not enter end time in the second number as 08:05:17 or you will be misting for 8hrs, 5min and 17sec.
- Relay could potentially be sticking, which we addressed in ver5 of our systems. If you are sure your programming is correct but timer doesn't shut off when it should contact us via MistKing.com.

Resetting the timer to factory defaults. Hold Arrow UP/Arrow DOWN for 10sec. Easiest way to start over.

HT-24 Seconds Timer

Hygrostat alarm goes off and nothing is being misted. Humidity reads 99%, but my tank is dry. This is a 2-fold problem. Remember that the humidity sensor cannot be sprayed directly or it will get waterlogged. This happens often, where the tank is too small and frequent misting causes water droplets to accumulate on the sensor. It then erroneously reads humidity as being 99% because the sensor is totally wet. For that reason, hygrostats cannot be used in small terraria. For ideal applications use hygrostats for very large terrarium setups, grow rooms or greenhouses. Seconds timer is ideal for terrarium use.

Satisfaction

If for any reason you are not satisfied with this misting kit or if you do not feel we are worth being recommended to others, we would like you hear from you. We value your opinion and would like to hear what it is that you're not happy with, and if possible, we will do our best to remedy the situation. Your satisfaction is of utmost importance to us.

Guarantee

If for any reason you're not satisfied with your purchase return the product within 14 days of your purchase date and we will refund you the purchase price, minus shipping. Contact us first to discuss the return. Product has to be purchased through us in order to be returned to us. Please note that in case of a return or a repair, you are responsible for shipping the product properly packaged to our location. Upon the receipt, your refund will be processed.

Warranty

Your system has a warranty of 2 years for pump (not including fittings) and 1 year warranty for electronics (timer, pump power adapter) and other components. Nozzles are not guaranteed at all due to the fact that people use variety of water through them. We test all nozzles twice before shipping them out. Should a nozzle not work properly when you get the system, contact us and don't try to fix it. All MistKing parts must be purchased either from MistKing.com or one of our distributors to qualify the original purchase for warranty coverage.





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