



EXO-TERRA PT2479 Monsoon Nano Programmable Misting System Instruction Manual

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**PROGRAMMABLE
MISTING SYSTEM
OPERATING INSTRUCTIONS
PT2479**



**PT2479
MONSOON NANO
PROGRAMMABLE MISTING SYSTEM**

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PT2479 Monsoon Nano Programmable Misting System

Thank you for purchasing the Exo Terra® Monsoon NANO. Please read this operation manual carefully before use and operate according to the instructions provided for maximum safety and performance. We recommend that you keep this manual handy for future reference.

- Programmable misting unit for terrariums and greenhouses
- Easy to connect and install
- Strong 2 BAR / 29 PSI / 200 KPA water pressure pump
- Multi-directional brass spray nozzles for ultrafine misting (x2)
- Pressure resistant Polyether tubing
- Can be used with any water reservoir

The Exo Terra® Monsoon NANO comes with 2 easy-to-install, multi-directional brass spray nozzles, making it ideal for 1 up to 2 terrariums. The Monsoon NANO can be extended to accommodate up to 4 nozzles. The mist produced by these specially designed brass nozzles is extremely fine, creating a fog-like effect in your terrarium or greenhouse.

OPERATING INSTRUCTIONS

- Maximum Water Pressure: 2 BAR / 29 PSI / 200 KPA
- Maximum Flow Rate: 48 L/h / 12 G/h
- Wattage: 5.6W
- Dimensions: 9 x 9 x 5cm/3.5" x 3.5" x 2"

Read instructions thoroughly prior to installation and operation

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

IMPORTANT SAFETY INSTRUCTIONS

WARNING:

To guard against injury, basic precautions should be observed, including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS and all the important notices on the product before using. Failure to do so may result in personal injury or damage to the product.

DANGER – To avoid possible electrical shock, special care should be taken since water is/may be employed in the use of this product.

For each of the following situations, do not attempt repairs yourself, return the product to an authorized service facility for service if it is still under warranty or discard the product:

1. Do not operate the appliance if it has a damaged electrical cord or power adaptor, or if it is malfunctioning or if it is dropped or damaged in any manner.
2. The supply cord from the transformer supplied with this unit is detachable and must be replaced along with the power adaptor if damaged.
3. The appliance is only to be used with the power supply unit provided with the appliance.
4. The appliance must only be supplied with safety low voltage, corresponding to the marking on the appliance.
5. To avoid the possibility of the appliance plug or electrical socket getting wet, position the unit to one side of a wall-mounted socket to prevent water from dripping onto the socket or plug.

A “drip-loop” should be arranged. The “drip loop” is that part of the cord below the level of the socket, or the connector if an extension cord is used, to prevent water from traveling along the cord and coming into contact with the socket. If the plug or socket does get wet, **DO NOT** unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance.

Then unplug and examine for the presence of water in the socket.



6. **CAUTION** — Always unplug or disconnect the appliance from the outlet before putting on or taking off parts and while the equipment is being installed, maintained or handled. Never yank the cord to pull the power adaptor from the outlet. Grasp the power adaptor body and pull to disconnect. Always unplug an appliance from an outlet when not in use. Never lift this product by the supply cord.
7. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
8. Do not use this appliance for other than its intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
9. Do not install or store the appliance where it will be exposed to temperatures below freezing. Do not expose the unit to direct sunlight.
10. Ensure that the appliance is placed on a flat, even surface.
Monitor the product regularly. Do not leave the product unattended for extended periods.
11. If an extension cord is necessary, ensure the connection is watertight and dust proof. A cord with a proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care

should be taken to arrange the cord so that it will not be tripped over or pulled. The connection should be carried out by a qualified electrical installer.

12. For INDOOR HOUSEHOLD USE ONLY, NOT for commercial use.
13. CAUTION — To prevent corrosion or deterioration of materials that could lead to electric shock, use only with fresh water.
14. Do not add any chemicals or medicinal compounds to the water used in this device.
15. IMPORTANT — Pump must not be allowed to run dry.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

Only the faithful observation of these installation, electrical and maintenance guidelines will ensure the safe and efficient use of this appliance.

ATTENTION: Only use de-mineralized/distilled water or debris-free and clean rainwater!

INSTALLATION – Exo Terra Natural Terrariums

Follow this installation procedure to install the Exo Terra® Monsoon NANO system on any size of Exo Terra® Natural Terrarium. The system comes with 2 easy-to-install nozzles, which should be mounted on either of the terrarium's glass side panels, as close as possible to the opening front doors.

1. Unlock the top screen cover and lift it off the terrarium.
2. Slide the inlet holes (located on the back of the screen top on either side) to the open position, so the tubing will fit through.
3. Feed the tubing through the first inlet hole on each side on the back of the terrarium. (fig. A)
4. Position the nozzle on the glass portion of the terrarium's side panels with the suction cup, or use the Monsoon Nozzle mounting points if these are available in your terrarium. When using the suction cups, please make sure that the glass area is clean and free of any dirt or deposits before mounting the nozzles.
5. For optimal spray performance, position the nozzle as close as possible to the front opening windows and the top screen (fig. B).

Direct the nozzle position toward the middle of the terrarium to prevent the spray from reaching the front and side glass panels during operation. This ensures the most effective and precise application of the spray water. This ensures the spray water is optimally distributed.

6. Replace the top screen cover and lock it back into position.
7. Close the remaining inlets by sliding the slider against the tubing to prevent escape from feeding insects and smaller animals. (fig. C)
8. Remove any slack in the tubing inside the terrarium. Make sure there are no kinks in the tubing that could impede water flow to the nozzles.
9. Connect the tubing to the OUT-spout on the side of the unit by pressing the tubing firmly onto the OUT-spout. (fig. D)
10. Connect the inlet tubing to the IN-spout and lead the inlet tubing to the designated water reservoir and position the water filter inside a reservoir of your choice (fig. E).
11. Make sure the unit is in its final operating location, on a solid, level surface.
12. Fill the reservoir with de-mineralized/distilled water up to a maximum of 2,5 cm (1") from the top. (Using regular tap water will cause clogging of the nozzles by mineral deposits!)
13. Connect the USB-C connector to the side of the unit, and the USB-A connector to the power adaptor.
14. Plug the power adaptor into the wall socket, and your Exo Terra® Monsoon Programmable Misting system is now ready to use.

Suspension system using the self-adhesive clips

1. Determine where you want the Monsoon NANO to be positioned on the terrarium or other surface of your choice.
2. Remove the protective backing from the male-part of the clip and carefully fit the Self-adhesive Clip on the back of your Monsoon NANO. Make sure the tape is pressed evenly for at least 30 seconds.
Please make sure to adhere the Self-adhesive male-part in the correct position, so your Monsoon NANO will reside in the correct horizontal position with readable display.
3. Clean the surface of the terrarium glass or other surface with a clean cloth or paper towel.
4. Remove the protective backing from the female-part of the clip and carefully fit the Self-adhesive Clip on the terrarium glass or other surface of your choice. Make sure the tape is pressed evenly for at least 30 seconds.
Please make sure to adhere the Self-adhesive female-part in the correct position, so your Monsoon NANO will reside in the correct horizontal position with readable display.
5. Clip the male part in the female part to suspend the Monsoon NANO.

SETTING – adjusting Spray Interval and Duration

To manually start the spraying process, or to test if the spray heads are set to a fine mist, you can briefly press the “Settings” button so the display lights up, then long press and hold the “Settings” button until the Monsoon NANO starts spraying. The Multi-directional Brass Nozzles can be adjusted by turning the front part of the nozzle head clockwise against the rear part, this will adjust the spray water from a jet to a fine mist. Do not turn the nozzle head too far clockwise, this will close the nozzle and stop the spray. To stop the manual spraying process, briefly press the “Settings” button again.

The standard setting of the Monsoon NANO is as following:

Spray Interval every 12 hours with a Spray Duration of 10 seconds, meaning, the Monsoon NANO will spray twice a day for 10 seconds.

To review the current configuration, just press the “Settings” button, prompting the LCD screen to illuminate and display the current setting.

To adjust this setting to cater to the specific requirements of your animals or plants, simply press the “Settings” button again, and the “Seconds” or “Minutes” indication will start flashing.

If the “Seconds” indication is flashing you can increase or decrease the Spray Duration by simply clicking the “+” (plus) or “-” (minus) button. Every click on the button will increase or decrease the Spray Duration by 1 second, but if you press-and-hold the “+” or “-” button, the value will begin to increase or decrease progressively.

You can increase the Spray Duration up to 59 seconds, once above 59 seconds, the Spray Duration will switch automatically to the “Minutes” indication.

If the “Minutes” indication is flashing you can increase or decrease the Spray Duration by simply clicking the “+” (plus) or “-” (minus) button. Every click on the button will increase or decrease the Spray Duration by 1 minute, but if you press-and-hold the “+” or “-” button, the value will begin to increase or decrease progressively.

You can increase the Spray Duration up to 9 minutes, once above 9 minutes, the Spray Duration will switch automatically back to the “Seconds” indication.

By pressing the “Settings” button, the “Seconds” or “Minutes” setting is stored and the Spray Interval “Hours” or “Days” indication will start flashing.

If the “Hours” indication is flashing you can increase or decrease the Spray Interval by simply clicking the “+” (plus) or “-” (minus) button.

Every click on the button will increase or decrease the Spray Interval by 1 hour, but if you press-and-hold the “+” or “-” button, the value will begin to increase or decrease progressively. You can increase the Spray Interval up to 23 hours, once above 23 hours, the Spray Interval will switch automatically to the “Days” indication.

If the “Days” indication is flashing you can increase or decrease the Spray Interval by simply clicking the “+” (plus) or “-” (minus) button.

Every click on the button will increase or decrease the Spray Interval by 1 Day, but if you press-and-hold the “+” or “-” button, the value will begin to increase or decrease progressively. You can increase the Spray Interval up to 30 days, once above 30 days, the Spray Interval will switch automatically back to the “Hours” indication.

NOTE: When the reservoir is nearly empty, it is advisable to refill the reservoir immediately or to switch off the unit. Although the pump can run idle without overheating once the reservoir is empty, it is still advised to refill the reservoir as soon as possible or disconnect the Monsoon NANO from the power source to ensure a longer pump life.

NOTE: The Exo Terra® Monsoon NANO should be set according to the needs of the animals and the size of the terrarium. Be careful not to operate the unit too frequently or too long to avoid overflowing the terrarium! The unit should be set so that water added to the terrarium from the first operating cycle is allowed to evaporate before the next operating cycle begins, or at least make sure that the excess water can be drained out of the terrarium.

Adding additional Nozzles to the system

The Exo Terra® Monsoon NANO can be operated with up to 4 nozzles. Please note that every additional nozzle will result in less performance from each nozzle installed. To connect additional nozzles, an extra nozzle and a Y-connector (PT2498) are needed

(sold separately). Simply cut the tubing where convenient. Make sure the nozzle can easily be mounted in its intended location without stretching the tubing. Connect the tubing coming from the unit to the single inlet of the Y-connector and the other end of the tubing to the double inlets. Connect the tubing from the additional nozzle to the other inlet of the Y-connector. Please note that additional nozzles can be mounted in multiple terrariums.

MAINTENANCE

Only use de-mineralized/distilled water or debris-free and clean rainwater! Wash or replace the filter regularly, at least every six months depending on the usage and water quality. To wash the water filter, open the water filter cartridge and remove the filter sponge. Thoroughly rinse the filter sponge and replace it in the cartridge. If the nozzles are clogged or if they spray irregularly, place the nozzles overnight in a 50/50 water/vinegar solution. Rinse thoroughly with clean water before mounting the nozzles back onto the terrarium. A replacement filter and other accessories are available at your local Exo Terra® pet retailer.

GUARANTEE

This unit is guaranteed for defects in material or workmanship for a period of 1 year from date of purchase. This guarantee is valid with proof of purchase only. The guarantee is limited to repair or replacement only and does not cover consequential loss, loss or damage to livestock and personal property or damage to animate or inanimate objects, irrespective of the cause thereof. This guarantee is valid only under normal operating conditions for which the unit is intended. It excludes any damage caused by unreasonable use, negligence, improper installation, tampering, abuse or commercial use. The warranty does not cover wear and tear, breakage of glass or parts which have not been adequately or correctly maintained. **THIS DOES NOT AFFECT YOUR STATUTORY RIGHTS.**

SERVICE

If you have any problem or question about the operation of this product, please consult your Exo Terra® specialist retailer in the first instance. Most problems can be resolved in store, but in the unlikely event it cannot, please return the unit with a valid proof of purchase to the retailer for a replacement under the two year warranty. When you call (e-mail or write) our Customer Service Department, please have all relevant information such as model number and/or part numbers available, as well as the nature of the problem:

Customer Service and Authorized Warranty Repair Service:

Canada:

Rolf C. Hagen Inc.

20500 Trans Canada Hwy

Baie d'Urfé QC, H9X OA2

Toll Free Number 1-800-55HAGEN (1-[800-554-2436](tel:18005542436))

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U.S.A. :

Rolf C. Hagen (U.S.A.) Corp.

305 Forbes Blvd, Mansfield, MA. 02048

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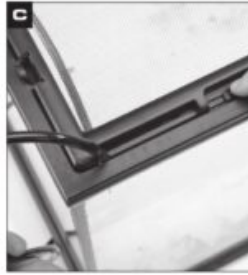
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Documents / Resources



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References

- [User Manual](#)

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