

Basic Misting System™

REVISION 2.0



Vivaria Projects

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Vivaria's Basic Misting System™

- ◇ Usable for Vivaria, Terraria, Greenhouses and so on.
- ◇ Produces a mist so fine that it floats on air.
- ◇ Hollow cone spray pattern with 80 degree spray angle.
- ◇ High number of droplets under 60 microns.
- ◇ Self priming pump with no brass parts used.
[for indoor use only]
- ◇ Highly suitable for reverse osmoses water.
- ◇ No electrical or plumbing work required.
- ◇ Ready for use right out of the packing.
- ◇ Simply push-in system.
- ◇ Easy to expand, simply add another piece of hose and nozzle where ever its needed.
- ◇ Expandable to a total of 7 nozzles.
- ◇ Uses only 48 watt (230V/50cy system)
41 watt (120V/60cy system)
- ◇ Quiet operation 64.5 [db(A)]at p=0 bar/20 cm
- ◇ For intermittent use only.



The Vivaria Basic Misting System™ consists of the following parts,

- ◇ 1 Pressure pump in PVC holder and mounted by way of three swing rubbers on the base plate.
- ◇ 2 Mist jet nozzles complete with elbows and panel mount connector. (push-in system)
- ◇ 1 TEE connector 6 mm. (push-in system)
- ◇ 2 Reducers 6 / 4 mm. (push-in system)
- ◇ 1 In-Line filter.
- ◇ 3 meter Tube 6 mm PA black
- ◇ 1.5 meter Tube 4 mm PA black
- ◇ 1.5 meter Tube 6 x 1.5 mm flexible transparent.
- ◇ 1.8 meter Electrical cable with flat euro plug.

Mounting example for a Vivaria vivarium

It is necessary to drill holes in the top cover plate of the vivarium (plate between vivarium and light top) for the panel mount connector of the mist jet nozzles.

If you have a glass plate you have to change this to an acrylic plate.

Drill with a 2 mm drill, on the desired place, carefully a hole in the acrylic cover plate.

Take a 10 mm drill, place the cover plate on a hard surface, and drill carefully the 2 mm drill holes up to 10 mm.

Drill on the desired place, on the back side of the light top 2 holes for the 4 mm tubing.

Mount the 2 panel mount connectors and connect them with the necessary 4 mm tubing in the top cover of the light cap.

Insert the 4 mm tubing through the drilled holes, and connect the tubing with the TEE connector by way of the reducers.

Connect the tubing, TEE connector, flexible transparent tube, in-line filter, nozzles and pump according the drawing on page 7.

Connect the electrical cable to the pump.

Before you connect the 6 mm tube to the pump you must clean the pump inside by way of pumping water through it for about 3 minutes.

Don't do this with the nozzles connected.

After cleaning you can connect the nozzles with the pump.

Place the transparent tube in a clean reservoir with reverse osmoses water.

Connect the pump to an electronic timer and switch on the timer.

Max. time ON 1 or 2 minutes depending of pump voltage, and 1 minute OFF

The first time the pump will make a rattling noise till the water reaches the pump.

This is normal.

After the water has reached the pump, the pump will be quieter.

The above standing mounting instructions are an example how to build-in the misting system in Vivaria vivariums .

For other applications these instructions are in general the same, but details can be different.

PAY ATTENTION FOR THE FOLLOWING

There are two types pressure pumps.

One for 230V/50cy and one for 120V/60cy.

Depending of the voltage used in your country, one of them is inside this package.

Both pumps are self-priming and for intermittent duty only.

230V type use 2 minutes ON and 1 minute OFF

120V type use 1 minute ON and 1 minute OFF

(max medium temp. 25°C)

Don't exceed this maximum and never let the pump run dry without water.

Use always osmoses water, filter and a clean reservoir.

Mix no additives in the water.

Disconnect all electricity before working with the light top.

Take care that no water can reach the inside of the light top, because of short-circuiting your lighting and possibility of mortal electrical shock.

Carefully examine the appliance after installation.

It should not be plugged in if there is water on parts not intended to be wed.

Do not operate any appliance if it has a damaged electrical cable or plug, or if it is malfunctioning or has been dropped or damaged in any manner. REMEMBER water with electricity is DANGEROUS and MORTAL.

Misting System Pump

- ◇ Produces up to 15 bar
- ◇ Max. flow rate 650 cc/min. at p=0 bar
- ◇ Noise 64.5 [dB(A)] at p=0 bar/20cm
- ◇ For intermittent duty only
220V/50cy type 2 minutes ON 1 minute OFF
120V/60cy type 1 minute ON 1 minute OFF
(max. medium temp. 25°C)
- ◇ Runs from 1-7 nozzles with 6mm tubing
- ◇ Use for vivariums, terrariums, greenhouses etc.
- ◇ No brass parts used, there fore special suitable for reverse osmoses water.
- ◇ Self priming
- ◇ For indoor use only
- ◇ Uses only 48 Watt (220V type)
41 Watt (120V type)



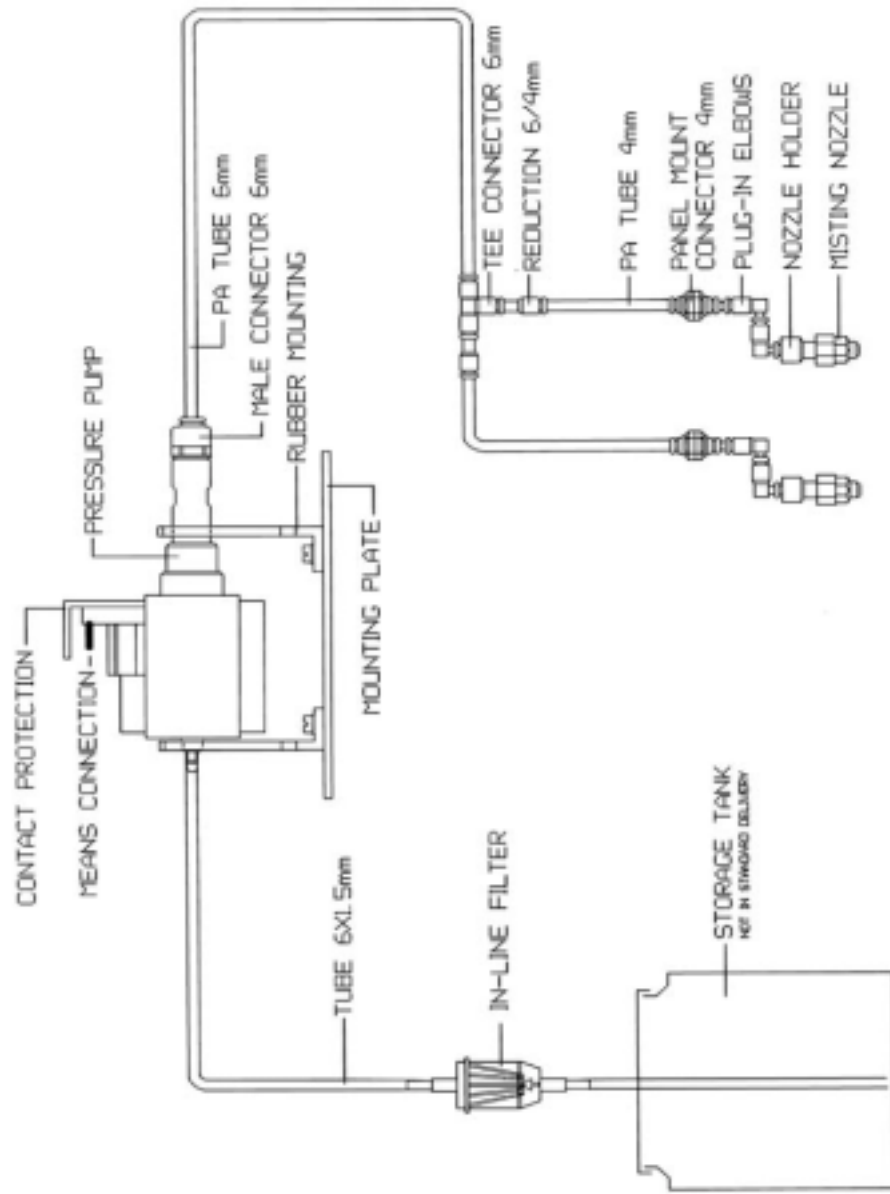
Polyacetal Misting Nozzle

- ◇ Designed for low-pressure operation
- ◇ All plastic construction (polyacetal)
- ◇ 1/8 Male connection
- ◇ Sprays very fine, fog-like mist
- ◇ Produces high number of droplets under 60 micron
- ◇ Hollow cone spray pattern
- ◇ 80-degree spray angle
- ◇ Flow rates

3 bar	2.8 ltr/hour
4 bar	2.9 ltr/hour
5 bar	3.2 ltr/hour
7 bar	3.8 ltr/hour
10 bar	4.4 ltr/hour

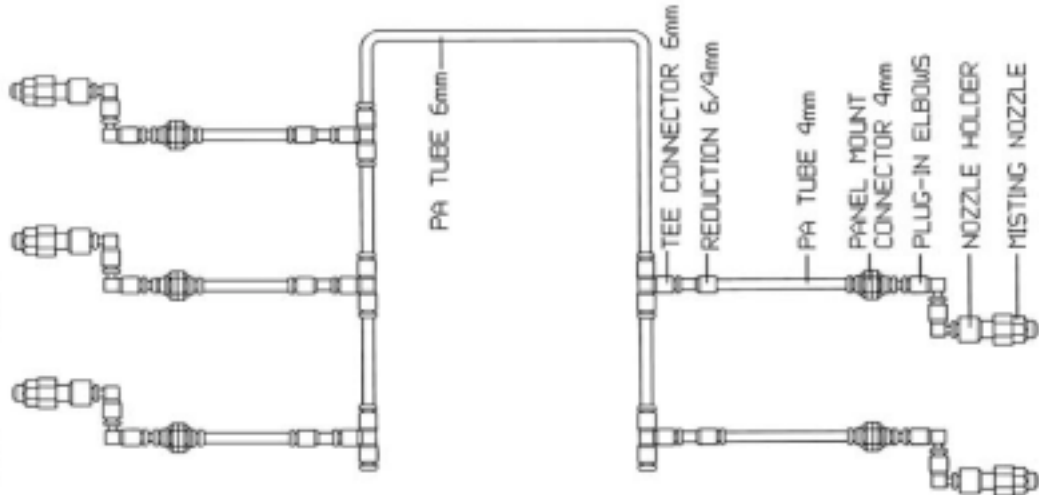


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OPTIONAL PARTS



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