

Machine location and requirements



- Machine dimensions: 18" wide X 15.5" tall X 9.5" deep with pre-punched keyed mounting holes on 16" centers.
- The machine is designed to mount on a wall. Take into consideration which directions you need to run your nozzles. The machine should be placed in the coolest possible place and in close proximity to a power and water supply. The machines aluminum enclosure has air vents to maximize airflow. The temperature inside the machine during high temperature days will be no more than the actual temperature in the area where the machine is positioned.
- A 120 VAC standard 3 prong electrical plug outlet with additional capacity for 10 amps (2100 model) and 15 amps (2140 model) start-up surge and a standard outdoor faucet or equivalent $\frac{3}{4}$ " male hose fitting with shut off valve is required.

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Materials and tools you will need to install your system

Nozzle assemblies and fittings

*1/4" Tubing

C-clamps (for tubing and nozzles)

1" coated deck screws (not supplied)

Cordless drill

Level

Tape measure

Machine

*We supply only **nylon** tubing. Polyethylene tubing with UV inhibitors have lower pressure ratings and will not hold up over time with certain insecticide concentrates.

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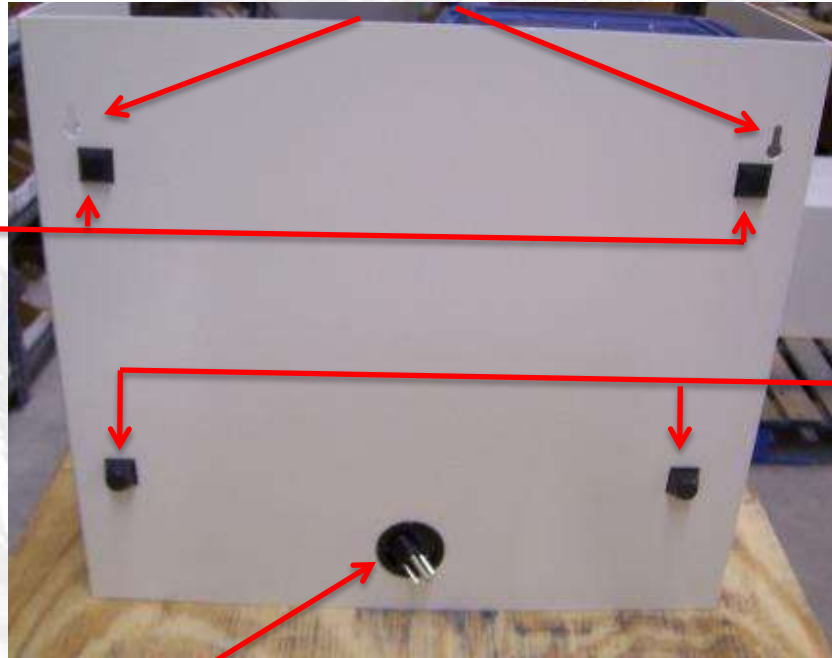
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Getting your machine ready for mounting.



The keyed mounting holes allow you to drive your mounting screws in first, leaving one half inch of the fastener exposed so you can easily slide the unit over the screw heads and lower the unit, securing it in place, then snug up.

Mount the thin adhesive dampner/spacers just below and slightly inside the keyed mounting holes spaced on 16" centers.



Mount the thicker adhesive dampner spacers 9-12" under the top spacers allowing the machine base to rest at a slight angle when mounted, where the bottom of the base is further away from the wall than the top.

3 foot grounded plug centered for flexibility

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Mounting your machine



Mark 2 level holes on 16" centers, If using wood siding, find studs. If using brick or stucco, pre-drill and use anchors. All hardware and hose bib adapter provided



Do Not run the screws all the way in, leave $\frac{1}{2}$ " exposed so you will have enough clearance for the spacers



After you hang the unit on the exposed screws, gently snug the screws down, but do not over tighten. Over tightening will flex the shell and the cover may not slide on easily as designed.



Everything is completely water tight. You can enlarging the pre-drilled hole for your own locking device.

Upgrade model shown

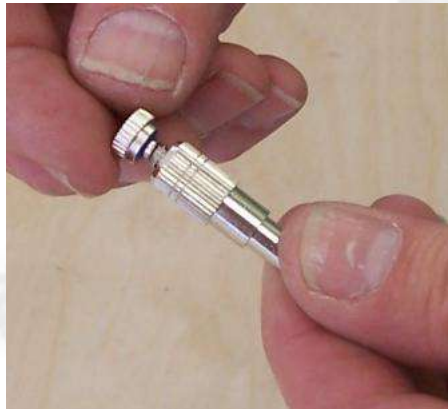


Making a 1024TSA cleanable Nozzle assembly

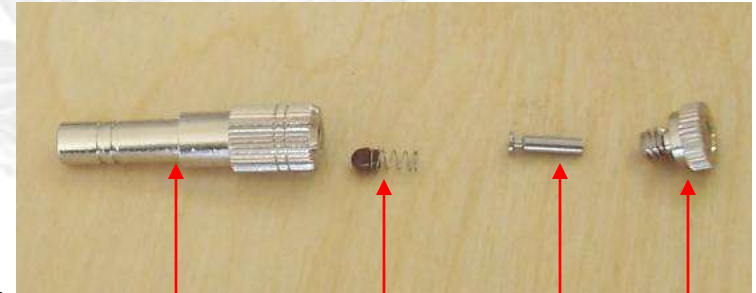


Push the pre-assembled 1024TSA tube stem nozzle assembly into the union tee to complete a tee nozzle.

Completed 45 degree Tee nozzle assembly



To clean the nozzle, unplug the tube stem assy. From the union tee or elbow. Unscrew the o-ring sealed nozzle tip from the tube stem adapter, remove the check valve and stem, then blow air or run water or a wire through the nozzle tip and tube stem to remove the obstruction, then reassemble hand tight and push nozzle assy. back into the union tee or elbow.



Tube stem check valve stem nozzle tip

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Making a Hago nozzle assembly

Install the viton o-ring as shown on the nozzle tip, then screw into the Hago nozzle adapter hand tight, then plug in to a union tee or elbow to complete the assembly.

Step 1



Step 2



Step 3



Step 4



Step 5



Completed Hago tee nozzle assembly

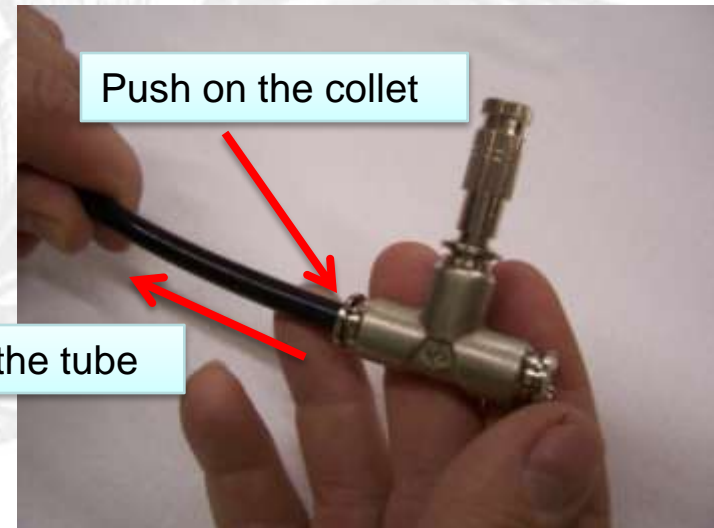


Fitting and nozzle connections require no tools and are leak proof



Use a tube cutter to make easy straight quick cuts. Push the tubing into the nozzle fitting until you feel it seat. Internal steel barbs grab the tubing when pushed in deep enough. An internal o-ring prevents leakage

Push the tube in until you feel it seat

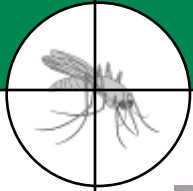


Pull on the tube

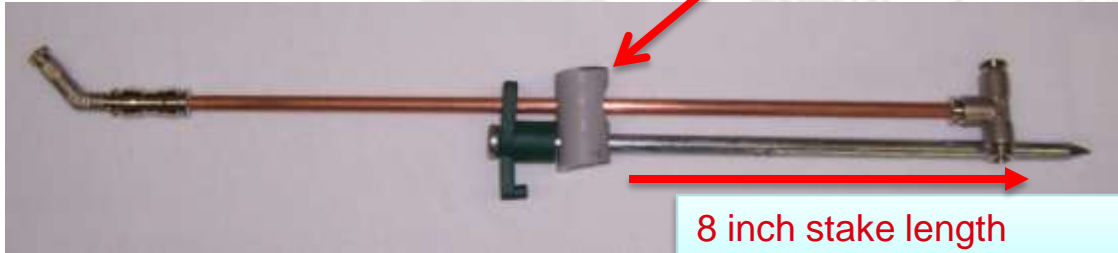
To remove the tubing, simply push the collet toward the body which releases the steel barbs while simultaneously pulling on the tubing.

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1024R slim line copper Tee or Elbow connection pre-assembled risers available in 12, 20" or 30" lengths



Pre-drilled coupling



Elbow to end a run



Tee to continue a run

Prior to pushing into the ground, connect the tubing and slide the fitting up inside the pre-drilled coupling. Do not cover your underground connections until you pressure test the system to make sure you have no leaks.



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Plastic 18" pre-fab Tee riser assembly is easy to install



Comes in an easy to assemble 3 piece kit.



Slide the shaft all the way through the base until it bottoms out on the union tee fitting.



Use the mouse holes to recess your tubing.



Plug in the 1024-45 nozzle to complete the assembly.

If you wish to end a run with your riser, you must purchase a $\frac{1}{4}$ " tube plug separately and insert into the union tee as shown.



New construction techniques



Drill holes in your electrical boxes larger than the $\frac{1}{2}$ " diameter of your flexible conduit so the conduit can easily slide through the holes in the outlet box but not so big that a rodent can get in.

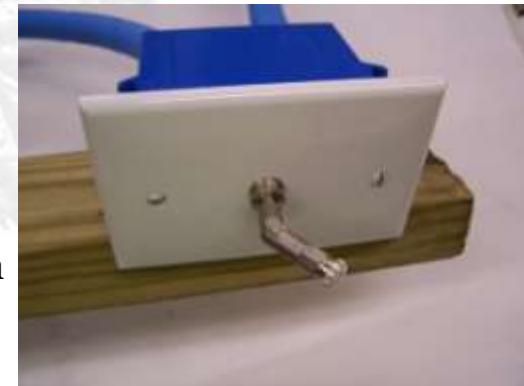
Mount your boxes on the joists so that when the soffit is installed your boxes will mount flush.



Run your tube from box to box and use a $\frac{1}{4}$ " Union Y if you've got a continuing run or a straight union if ending a run.

Sleeve all attic lines in conduit and close loop the circuit to even out pressures.

Leak test and cap off until soffit is installed, then install pre-drilled outlet covers and nozzles.



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