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Auto Insect Control
Systems

CoastalMister
MAKING OUTDOORS LIVABLE



<https://www.autoflyspraysystems.com>

How To Install A System

Before starting the actual install, walk the job. Determine where the tank will be located (standard locations are near HVAC or pool equipment.) A 110 volt grounded outlet is needed for operation.

Next, visualize the placement of all the risers and nozzles. Strategize how you will get tubing around the layout. If you need to go underground or along a fence.

Note all parts used on inventory sheet or work order. Parts are very often neglected and left at the job site, tools too. Have a tool bag, belt, or pouch on each job.

Set Tank

- Confirm presence of GFI 110V outlet, site for system, level ground (pad preferred).
- Rinse out tank of new system
- Firmly plug in pickup and return lines to system manifold, set lid on tank
- Fill ½ way with water
- Plug in system, verify time of day, program the run times, program duration.

Test Pump, Motor, and Manifold Operation

- Place a plug in the ¼" outlet of the manifold.
- Turn the needle valve all the way out, for minimum pressure.
- Check that mist now turns on the system immediately, carefully watching that the system never goes above 250 PSI.
- Turn off after 5 – 10 seconds. Check that the holding pressure of the blowback valve is between 10 and 25 PSI. Adjust blowback as needed (30 feet = 15 PSI).
- With the pump turned on, adjust the needle valve in, increasing pressure until the pump bypass valve starts to make a high pitched noise, which should be around 225 PSI. Adjust to 225 PSI using the flat head screw on the pump if needed.

Install Tubing, Nozzles, Risers, Unions, Underground Lines

- CONNECT all unions and tubing fully, with a secure push, and double check
- NEVER use hidden underground connections; mount unions above ground
- PROTECT all lines into and out of the ground with PVC or copper conduit 6" – 10"
- FLUSH all lines, unions progressively for 3-4 minutes to clear out all installation debris (dirt, sawdust, paint) before installing nozzle tips. Using the remote helps.

Test the System:

- Install all nozzle tips during / after flushing
- Check that pressure is in the normal range (150 – 200 PSI) and the system pressures up quickly.
- Check motor for running cool
- Run 4-5 mist now cycles and check for leaks by walking around
- Make sure system runs for programmed duration
- Check that timer activates system (analog)
- Turn clock to one cycle and slowly rotate to be sure the clock activates a cycle
- Set the clock 1 minute before a timed cycle and be sure clock will rotate and activate a cycle
- Check that timer activates system (digital)
- Set a run time 2 minutes out.
- Check that timer activates the pump for desired duration at the desired time.
- Reset to desired time of day settings.
- Adjust for sunset and seasons if needed

Testing for Leaks (with leak down tester (or Coastal system with blowback valve))

- Turn system on, then when it reaches 150 psi turn it off
- Gauge should drop to 30 PSI fairly quickly as nozzles and blowback relieve pressure until valves close.
- Gauge should hold between 10 and 30 psi after 5 minutes if all nozzles close and there are no system leaks. Even a pinhole will drain a whole system to 5 psi in 5 minutes
- Fix all leaks until system holds adequate pressure. Utilize leak tester in different locations to narrow down where leaks might be.
- Record final holding pressure on work order

Complete the Chemical Fill

- Fill with chemical slowly to avoid spills. 32" tank = 55 gallons. 1 inch = 1.7 gallons. $1.7 * 64/55 = 2$ ounces of Riptide or Sector. So, 2 ounces per inch, 1 ounce per half inch. New system = 1 full half gallon jug. Affix chemical label to tank (required).
- Add remaining water to fill tank until filled 1 inch below top of tank
- Run system for 120 seconds to mix the tank and send chemical to all nozzles, and more if the mosquito pressure is bad to "fog" the house up front.

Record As-Left Conditions

- Timer settings, duration, time of day
- System holding pressure
- Record all parts installed
- Check out with homeowner as needed. Show system as needed.