BugSource.com

Providing Bug Control Solutions That Work! Bug Source LLC



Designing BUG SOURCE MISTING SYSTEMS



For Mosquito & Fly Control Residential (outdoor)

- 1. Decide what areas of your yard require insect control, i.e. around deck, fence line, and perimeter of house.
- 2. Figure one nozzle every 8 12 feet.
- 3. Sketch layout of yard including house location with approximate dimensions. Show deck fence line, pool, etc.
- 4. Locate nozzles in areas requiring insect control (remember 8 12 foot nozzle spacing). Do not locate nozzles near flowers, vegetation (gardens), pools, etc.
- 5. Decide on best spot to locate reservoir/pump unit. Preferably near GFCI electrical outlet. Draw location on your sketch.
- 6. Layout tubing lines. Rule of thumbs:
 - a. If longest tubing line is 300 feet or less, ¼ inch tubing is required.
 - b. Longer than 300 feet than 3/8 inch tubing required for the first 200 feet followed by 1/4 inch tubing for the remaining 200 feet. Longer tubing runs are possible with proper layout and zoning (call for design assistance).
- Determine the type of Nozzles needed:
 - a. Nozzles located along tubing lines: TEE Nozzle or Straight Nozzle
 - b. Nozzles located at the end of tubing lines: Elbow Nozzle
 - c. If Nozzle is located on side of house: 45 degree Nozzle required (TEE or Elbow)
 - d. Nozzles located at eaves/gutters pointing towards ground: standard TEE, Elbow or Straight Nozzle
- Determine Fittings required:
 - a. Elbows at corners or 90-degree bends
 - b. TEES branch lines, 1/4 x 1/4 x 1/4 or 3/8 x 3/8 x 3/8
 - c. Reducers 3/8 x ¼, locations where 3/8 inch main changes to ¼" tubing
- 9. Determine size of pumping unit:
 - a. 20 gal. System 1/3 HP: 10 nozzles max.
 - b. 55 gal. System 1/3 HP (standard pump): 90 nozzles max.
 - c. 55 gal. System 1/2 HP, (Heavy Duty Pump): 125 nozzles plus (please call for design assistance)

For Mosquito & Fly Control Livestock (Horse Stable, Dairy/Beef/Swine Facilities)

- 1. Decide what areas of your barn or facility require insect control, i.e. stalls, paddocks, aisle way.
- 2. Figure one nozzle per:
 - a. 10ft. x 10ft. or 12ft. x 12ft. stall
 - b. Above each door
 - c. Every 12ft. down aisle way
- 3. Sketch layout of barn including stalls, paddocks, aisle way locations with approximate dimensions.
- 4. Locate nozzles in areas requiring insect control. Do not locate nozzles over/near feed locations, hay/straw storage locations and birthing stalls.
- 5. Decide on best spot to locate reservoir/pump unit. Preferably near GFCI electrical outlet. Draw location on your sketch.
- 6. Layout tubing lines. Rule of thumbs:
 - a. If longest tubing line is 300 feet or less, ¼ inch tubing is required.
 - b. Longer than 300 feet than 3/8 inch tubing required for the first 200 feet followed by ¼ inch tubing for the remaining 200 feet. Longer tubing runs are possible with proper layout and zoning (call for design assistance).
- 7. Determine the type of Nozzles needed:
 - a. Nozzles located along tubing lines: TEE Nozzle or Straight Nozzle
 - b. Nozzles located at the end of tubing lines: Elbow Nozzle
 - c. If Nozzle is located on side of house: 45 degree Nozzle required (TEE or Elbow)
 - d. Nozzles located at eaves/gutters pointing towards ground: standard TEE, Elbow or Straight Nozzle
- 8. Determine Fittings required:
 - a. Elbows at corners or 90-degree bends
 - b. TEES branch lines, $\frac{1}{4}$ x $\frac{1}{4}$ or $\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$
 - c. Reducers 3/8 x ¼, locations where 3/8 inch main changes to ¼" tubing
- 9. Determine size of pumping unit:
 - a. 20 gal. System 1/3 HP: 10 nozzles max.
 - b. 55 gal. System 1/3 HP (standard pump): 90 nozzles max.
 - c. 55 gal. System 1/2 HP, (Heavy Duty Pump): 125 nozzles plus (please call for design assistance)