

# Micron-Master™ EL Series Fogger

## Instruction Manual



**CARDINAL**  
**PROFESSIONAL PRODUCTS**

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### **Notice:**

Except as stated on the warranty enclosed with your Micron-Master EL Series ULV fogger, there are no warranties of merchantability, fitness for a particular purpose, performance or otherwise, express, implied or statutory, and the company shall have no liability for consequential, incidental or other damages, howsoever caused.

### **Introduction:**

The Micron-Master™ EL Series ULV fogger is designed for permanent installation on walls or other suitable supporting structures. The Micron-Master™ EL Series is also available for portable use on carts, for easy maneuverability in structures. Each unit will treat approximately 300,000 cubic feet, or much larger areas when used on a cart.

### **Specifications:**

Height: 14 inches

Width: 11 inches

Depth: 11 inches

Weight: 15 lbs.

Droplet size: 85% 1-20 µm (microns)

### **Electrical:**

115 Volts

50/60 Hz

10 Amp continuous

30 Amp start

### **Electrical Timers:**

Various electrical timers are available for controlling Micron-Master™ EL Series foggers. Seven day, single zone timers are most commonly used for controlling a minimal amount of units. Cardinal can manufacture custom timers to control an unlimited amount of units in very large structures.

Cardinal Programmable Timer



### **Installation of the Micron-Master™ EL Series Fogger:**

For maximum efficiency and proper chemical application, the units should be evenly positioned around the area to be treated. In general, each unit should effectively cover approximately 10,000-15,000 square feet for controlling various insects. Installation can be made at any convenient height, but should be above or away from obstructions which would interfere with the spray discharge from the nozzles. Each nozzle can be adjusted independently up or down. Micron-Master™ EL Series foggers can be custom ordered with one to three nozzles per unit. In most situations the units can be positioned so they are in close proximity to existing electrical outlets.

The flange of the unit has two holes for mounting. Bolt or screw the unit to a sturdy support, located as described above.

The chemical container bracket has two pre-drilled holes for mounting. The bracket should be sufficiently anchored to support the size of chemical container to be used. A five gallon container of Cardinal insecticide may weigh as much as 75 lbs., therefore, the bracket should be mounted so it will support at least 100 lbs. The top of the chemical container should be located a few inches below the level of the nozzles to prevent siphoning of the chemical when the unit is turned off.



5 Gallon Insecticide Holder

### **Calibration of the Micron-Master™ EL Series Fogger**

The application rate of the Micron-Master™ EL Series ULV fogger should be monitored with each insecticide that is applied. The calibration rate will depend on the viscosity of each insecticide formulation. In general, the application rate will be approximately 4 ounces per minute per nozzle. Therefore, if you are using the Micron-Master™ EL-3, which has three nozzles, the unit's application rate will be approximately 12 ounces per minute. Once you have determined what the actual flow rate is, you can calculate the amount of time that will be necessary to run the Micron-Master™ EL-3 foggers.

#### **Example:**

- Insecticide applied: Cardinal Food Plant 5-1. Label requires 1 ounce/1,000 cubic feet
- Flow rate: 2 ounces per minute per nozzle
- Micron-Master™ EL-3: 3 nozzles x 2 ounces/minute = total flow rate of 6 ounces/minute
- 500,000 cubic foot warehouse: 500 ounces of insecticide is required
- $500 \div 6$  ounces/minute (flow rate of EL-3) = 83 minutes
- If two EL-3's are used, each must run for 42 minutes

### Options Available:

Micron-Master™ EL-3 Cart Fogger  
Micron-Master™ EL-3 Generator Fogger  
7 day Programmable Timer  
1-4 Station Timers  
Micron-Master™ Air Series Foggers  
Micron-Master™ Hand Held Fogger



### Cardinal Insecticides Available:

~~Thermal Fogger Type M~~  
~~Food Plant Concentrate~~  
~~Cardinal 1-2-3~~  
Food Plant 5-1  
~~Cardinal 3-6-10~~  
~~Cardinal 25-5~~  
~~Card-O-Sect 25~~  
~~Premium Grade 10-1~~  
~~3% Insecticide (Resmethrin)~~  
~~Card-O-Vap 5 (Vapona)~~  
Card-O-Vap 8 (Vapona)  
Endure™ ULV (Esfenvalerate)



### Warranty:

Cardinal Professional Products, herein referred to as the "Company", warrants that the Micron Master™ Chemical Dispersal System herein referred to as the "Equipment", shall meet the standard specifications for the Equipment in effect at the time of manufacture of same, and shall be free from defects in material and workmanship if properly maintained and operated under normal conditions in accordance with the applicable instructions published by the Company concerning the operation and maintenance of the Equipment. The term of this warranty shall commence on the date on which the Equipment is purchased as new by the first user thereof from the Company or a licensed dealer of the Company and shall remain in effect thereafter (i) for a period of one year with respect to the motor and (ii) for a period of ninety days with respect to all other parts. If repairs or replacements are made to the Equipment or any of its parts without the Company's prior written authorization, then the Company shall have no obligation or liability under this warranty. The liability of the Company (whether in contract or in tort) arising out of warranties, representations, instructions or defects from any cause shall be limited to the replacement or repair, at the Company's factory or other location designated by the Company, any part or parts which shall appear to the satisfaction of the Company to have been defective in material and workmanship. This warranty does not cover (i) defects, damage or deterioration due to normal use, wear and tear or exposure, (ii) normal maintenance services, such as replacing lines and filters, and (iii) defects or damage due to misuse, alteration, negligence or accident. The Company shall not bear any transportation charges in connection with its obligations under this warranty.

EXCEPT AS STATED HEREIN, THERE ARE NO WARRANTIES OR MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, PERFORMANCE OR OTHERWISE, EXPRESS, IMPLIED OR STATUTORY, AND THE COMPANY SHALL HAVE NO LIABILITY FOR CONSEQUENTIAL, INCIDENTAL OR OTHER DAMAGES, HOWSOEVER CAUSED. No person is authorized by the Company to give any other warranties on behalf of the Company or to assume for the Company any obligation or liability in connection with the Equipment not stated herein.

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