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# USER MANUAL

**MODEL NUMBER:  
FOG-IT-DS**

**110VAC ELECTRIC FOG UNIT WITH DIGISET  
TIMER**

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**English (Original Instructions)**

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**Read all instructions and warnings in this manual before using this equipment. Keep this manual for future reference. Do not discard or destroy.**



**PROTECT THE ENVIRONMENT.** Dispose of packaging materials, old machine components, and hazardous fluids in an environmentally safe way according to applicable waste disposal regulations. Always recycle when appropriate.

## IMPORTANT SAFETY INSTRUCTIONS



Safety alert symbols are used in this manual to alert you to potential personal injury hazards.



Mandatory action symbols are used in this manual to specify where personal protective equipment (PPE) requirements must be confirmed with the safety data sheet (SDS) for the chemical being used with the equipment.

### Warning

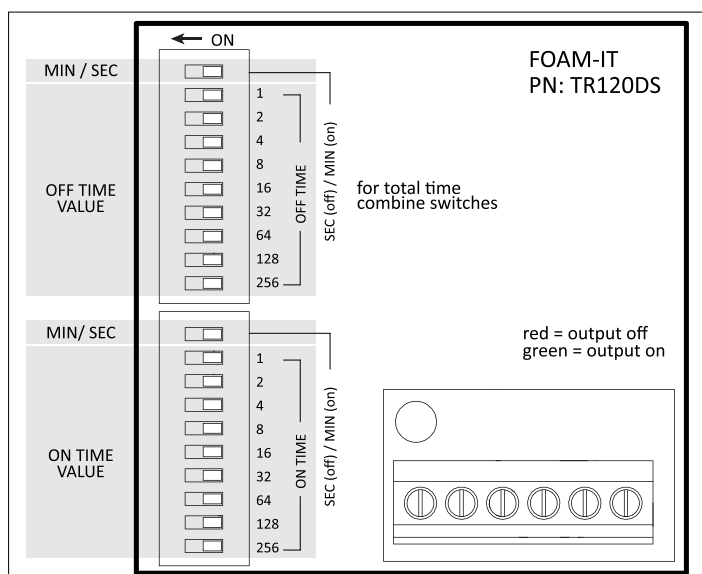
- Do not alter or modify equipment.
- Use only genuine replacement parts from original manufacturer.
- Use equipment only for its intended purpose.
- Inspect unit before each use. Tighten any loose connections. Be sure hose is not cracked or frayed and shows no sign of swelling. Repair or replace worn or damaged parts immediately.
- Do not use unit if damaged or broken.
- Do not exceed maximum air or fluid pressure for unit (refer to Technical Data).
- Do not use with flammable chemicals or hydrocarbons.
- Use only chemical products that are formulated for this type of application and compatible with unit materials and pump seals. For information about your chemical product, request chemical Safety Data Sheet (SDS) from your chemical supplier.
- Depressurize unit (as described in the After Use Instructions) when not in use and before disassembling.
- Always flush the unit with fresh water when switching from an alkaline to an acid or an acid to an alkaline.
- Before performing any maintenance on this unit, disconnect the unit from the electrical power source and depressurize.
- Make sure all electric power cords are located so that they cannot be stepped on, tripped over, or otherwise subjected to damage or stress.
- Pump, valves, and containers must be properly grounded when handling flammable fluids and whenever discharge of static electricity is a hazard.

### TIMER ADJUSTMENT INSTRUCTIONS

The TR120DS-A is an adjustable repeat cycle timer with the ON time operating first. ON and OFF times can range from 1 second to 511 minutes.

#### To set the timer:

1. Starting with the OFF time, move the top dip switch to the left for MIN (minutes) or to the right for SEC (seconds) to select the desired time interval.
2. The next 9 dip switches will be used to control the total active time. To the left is active and to the right is inactive. Combine the numbers of active dip switches to achieve the desired time. The increments are 1, 2, 4, 8, 16, 32, 64, 128, 256.
3. Repeat the above steps for the ON time setting.
4. Timer indicator light will appear red when unit output is off. The indicator turns green when output is on.



## Technical Data

REQUIREMENTS	
Liquid temperature range	40-100°F (4.4-37°C)
Electrical requirements	120 VAC at 60 Hz, 2 amps (GFCI protected outlet)
Operating voltage	120 VAC
Chemical Compatibility	Chemical products used with this equipment must be formulated for this type of application and compatible with unit materials and pump seals. For more information on chemical compatibility, consult the manufacturer or SDS for your product or contact our customer service department.

SPECIFICATIONS	
Power type	Electricity
Chemical pickup type	Draws from pre-mixed solution
Number of products unit can draw from	One product
Suction line length/diameter	8 ft. (2.4 m) hose with 3/8 in. (9.5 mm) inside diameter
Output distance	3-5 ft. (0.9-1.5 m)
Output volume	7.8 oz/min (0.23 l/min) per nozzle
Flow rate*	7.8 oz/min (0.23 l/min) per nozzle
Pump seals	Santoprene/EPDM
Timer operation type	Repeat cycle
Droplet size	Very fine
Nozzle type	Hollow cone spray tip
Number of nozzles	One control box can support up to thirty nozzle assemblies
Distance from nozzles to control box	The combined distance between the control box and the nozzle(s) must equal 200 ft. (61 m) or less
Tubing/fitting sizes	Designed for use with 1/4 in. (6.4 mm) outside diameter tubing between control box and nozzle(s)

\*Dilution rates and flow rates given are based on chemical with viscosity of water and factory air pressure settings.

## Instructions

### Installation Instructions:



1. Remove all components from packaging.
2. Select an area to mount the control box.  
Note: The control box should be mounted to a vertical wall. We recommend mounting the control box at a height of 6 feet or less. The chemical suction line must reach the bottom of the chemical container. The bottom of the chemical container should not be positioned higher than the bottom of the control box.
3. Attach the control box mounting feet to the back of the control box, using the four screws provided in the parts package.
4. Mount the control box to the wall using four of the screws and plastic anchors provided in the parts package.  
Note: To drill holes for the plastic anchors, use a 5/16 inch drill bit.
5. Install quick connect elbows (QFSEL14) to outlet fittings on bottom of control box.
6. Mount the fog nozzle assemblies in desired locations.
7. Run 1/4 inch tubing from control box outlet to the fog nozzles.
8. Install pressure relief tubing to the quick connect closest to the wall.  
Note: this line should be dispensed back into the chemical container.
9. Set the timer for the desired on time and off time, as described in the Timer Adjustment Instructions.
10. With the power switch in the OFF position, plug the unit into a GFCI protected 120VAC power outlet.
11. Follow all instructions from chemical manufacturer and place the end of the chemical intake line into container of pre-diluted chemical solution.
12. Place the priming valve line and pressure relief line in the chemical container.

### Operation Instructions:



1. Prepare area to be fogged.
2. Verify the ON/OFF times on the timer are set per the application requirements.
3. To activate the unit, turn the power switch (TS2, TS2PLATE, TSBT12) to the ON position. The unit will begin cycling through the run and delay time intervals set on the timer, beginning with the run time.
4. With the pump running, open the priming valve until solution begins to flow through the line. Once solution is flowing through the line close the priming valve.
5. Begin to adjust the pressure relief valve until the liquid gauge reaches below 150 psi.  
Note: If the pump is making a hammering sound the pressure relief will need to be opened further. Slowly open the pressure relief valve until the pump is no longer hammering.

### Troubleshooting Instructions:



1. Check the chemical suction line and strainer for debris or damage. Clean or replace as needed. To prevent damage to the unit, the strainer (FV2) must always be used.
2. If pump is not drawing chemical, repeat steps 4 and 5 from Operation Instructions.
3. If pump is hammering loudly, adjust pressure relief valve until the pump equalizes, around 75 to 100 PSI.
4. If product is not being dispensed through a fog nozzle, disassemble the nozzle and inspect for any debris or build up.
5. If unit is not turning on but power is supplied to the unit, confirm the timer setting is correct.

## Diagrams

