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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 BEFORE OPERATING EQUIPMENT



# WARNING



**Read this manual completely and understand the machine before interacting with it.**

- 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.

### PROTECT THE ENVIRONMENT

Please dispose of packaging materials, old machine components, and hazardous fluids in an environmentally safe way according to local waste disposal regulations.



Always remember to recycle.

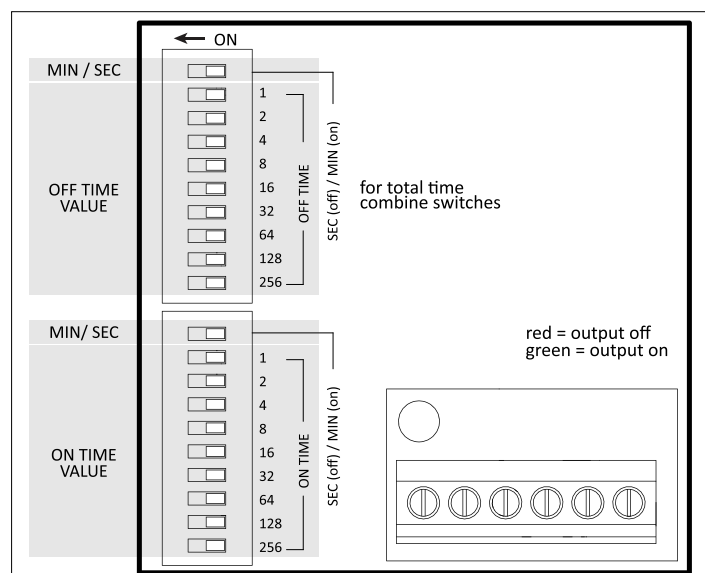
Specifications and parts are subject to change without notice.

### TIMER ADJUSTMENT INSTRUCTIONS

The TMR-RPT-120VAC 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.



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REQUIREMENTS	
Liquid temperature range	40-100°F (4.4-37.8°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.

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### 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  $\frac{3}{16}$  inch drill bit.
5. Install quick connect elbows to outlet fittings on bottom of control box.
6. Mount the fog nozzle assemblies in desired locations.
7. Run  $\frac{1}{4}$  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.

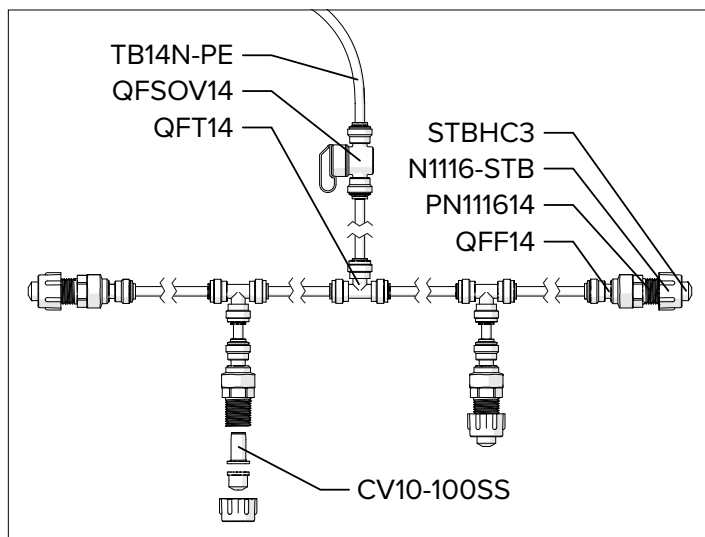
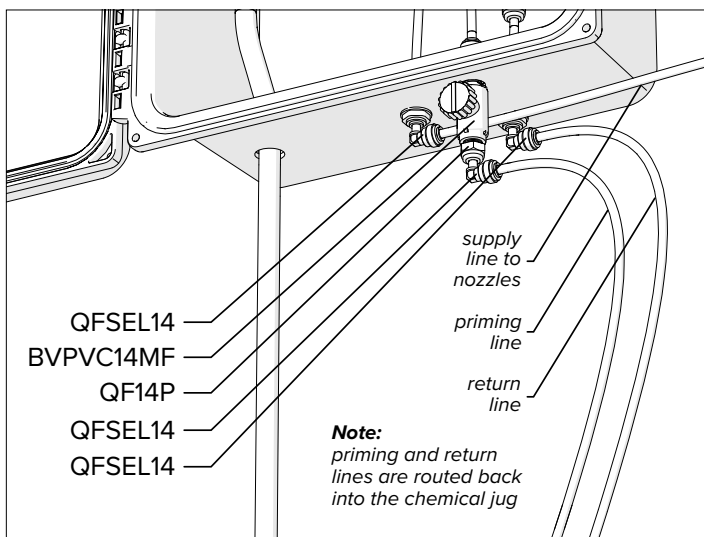
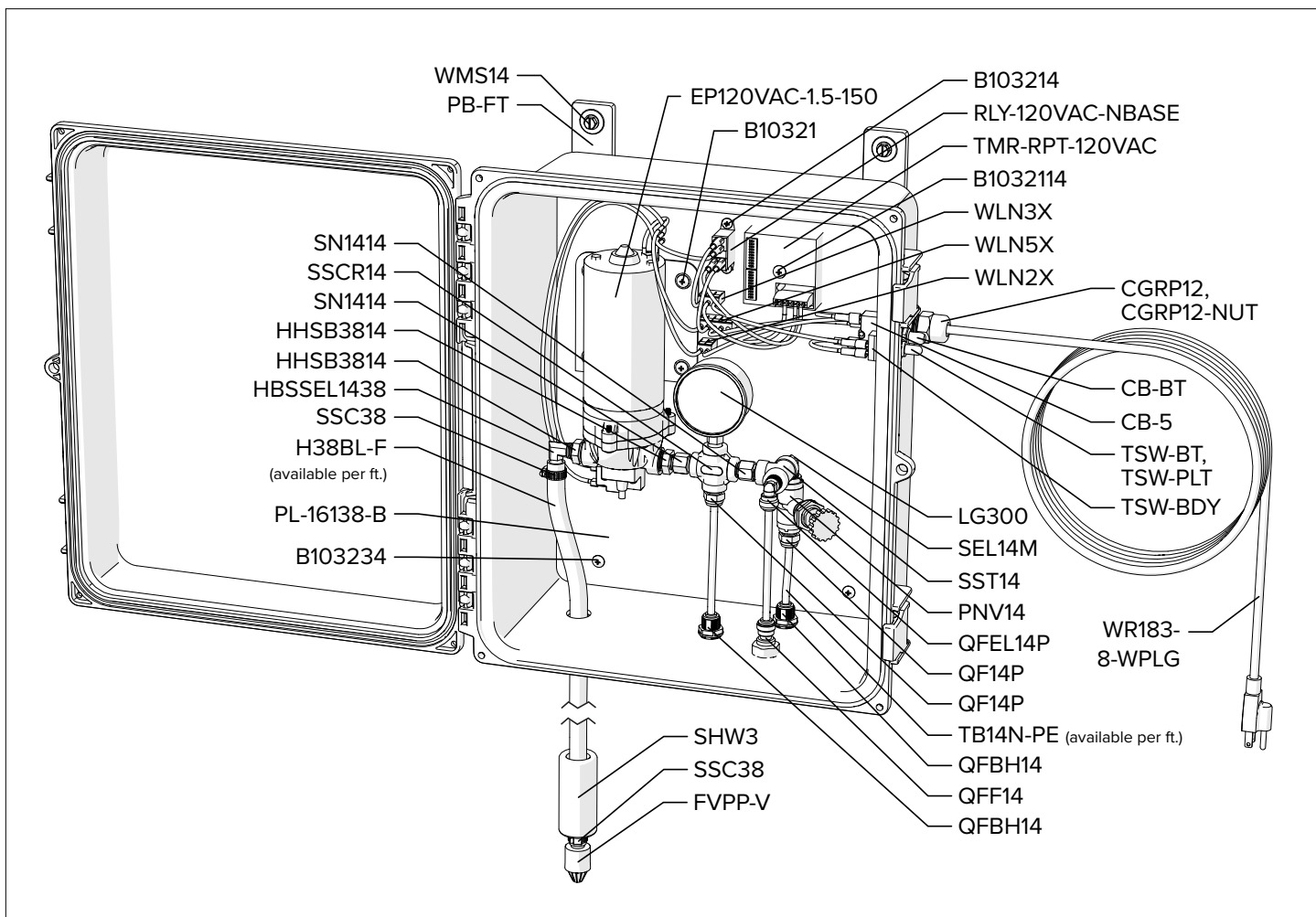
### Operation Instructions:

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 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 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 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.

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ITEM NUMBER	DESCRIPTION
B10321	BOLT - 10-32 X 1IN - STAINLESS STEEL - TRUSS HEAD PHILLIPS
B1032114	BOLT - 10-32 X 1 1/4IN - STAINLESS STEEL - TRUSS HEAD PHILLIPS
B103214	BOLT - 10-32 X 1/4IN - STAINLESS STEEL - TRUSS HEAD PHILLIPS
B103234	BOLT - 10-32 X 3/4IN - STAINLESS STEEL - TRUSS HEAD PHILLIPS
B103238-PH	BOLT - 10-32 X 3/8IN - STAINLESS STEEL - PAN HEAD PHILLIPS
BVPVC14MF	BALL VALVE - PVC - 1/4IN NPT TO 1/4IN FNPT - EPDM SEAL
CB-5	CIRCUIT BREAKER ASSEMBLY - 5 AMP - INCLUDES CLEAR BOOT
CB-BT	CLEAR BOOT FOR CIRCUIT BREAKER
CGRP12	CORD GRIP - 1/2IN MPT - BLACK NYLON - CORD RANGE 0.17IN TO 0.45IN - WATER RESISTANT - FOR 7/8IN HOLE - NO NUT INCLUDED
CGRP12-NUT	NUT - 1/2NPT - BLACK NYLON
CV10-100SS	STAINLESS 100 MESH 10 LB VITON BALL CHECK STRAINER - GREEN PP BODY
EP120VAC-1.5-150	ELECTRIC FLUID PUMP - 120VAC - 1.5 GPM - 150 PSI PRESSURE SWITCH - ZINC AND NYLON BODY - SANTO DIAPHRAGM - VITON VALVES - 1.20AMP MAX DRAW - 2X 3/8IN FNPT
FVPP-V	FOOT VALVE - POLYPROPYLENE BODY - NOT CUT TO SIZE - VITON CHECK VALVE - BLACK
H38BL-F	3/8IN ID BLUE HOSE-HYBRID TPE-AVAILABLE PER FT
HBSSEL1438	HOSE BARB - STAINLESS STEEL - ELBOW - 1/4IN MPT X 3/8IN BARB
HHSB3814	HEX HEAD STAINLESS BUSHING 3/8 MPT X 1/4 FPT
LG300	LIQUID GAUGE - 1/4IN NPT - 0-300 PSI MARKINGS - FLUID FILLED
N1116-STB	POLY NUT 11/16IN - FOR SECURING BUTTON TIP SPRAY NOZZLES
PBA-16138	POLY BOX ASSEMBLY - 16IN X 13IN X 8IN - GRAY POLYPROPYLENE - INCLUDES BRAND LABEL AND MOUNTING HARDWARE
PB16138-LID	POLY BOX LID - GRAY POLYPROPYLENE - FOR PBA-16138 - INCLUDES PB-GSKT ROPE SEAL
PB16138-BOX	POLY BOX - GRAY POLYPROPYLENE - FOR PBA-16138
PB-FT	POLY BOX FOOT - GRAY POLYPROPYLENE - FOR PBA-12117 AND PBA-16138
PB-LTCH	POLY BOX LATCH - GRAY POLYPROPYLENE - TWO PIECES ASSEMBLED - FOR PBA-12117 AND PBA-16138
PB-PIN	STAINLESS STEEL HINGE PIN FOR PB16138 AND PB12117
PL-16138-B	PLATE FOR PB16138 (BLANK) - PL-4X8
PN111614	11/16IN X 1/4IN MPT POLY NIPPLE
PNV14	PVC 586-4F4F-T, NEEDLE
QF14P	QUICK FIT - 1/4IN MPT X 1/4IN OD TUBE - POLYPROPYLENE BODY - EPDM O-RING

QFBH14	BULKHEAD 1/4in TUBE POLYPROPYLENE
QFEL14P	FIXED ELBOW 1/4in TUBE X 1/4in MPT - POLYPROPYLENE
QFF14	FEMALE ADAPTER 1/4in TUBE X 1/4in NPTF POLYPROPYLENE
QFSEL14	PLUG-IN ELBOW 1/4in TUBE X 1/4in TUBE - POLYPROPYLENE
QFSOV14	SHUT OFF VALVE 1/4in TUBE - POLYPROPYLENE
QFT14	UNION TEE 1/4in TUBE - POLYPROPYLENE
RLY-120VAC-NBASE	RELAY 120VAC-NO BASE-PANEL MOUNTED
S1034-FH-HL	SCREW - #10 X 3/4IN - STAINLESS STEEL - FLAT HEAD PHILLIPS - HILO THREAD
SEL14M	STAINLESS ELBOW 1/4IN MPT X 1/4IN MPT
SHW3	SUCTION HOSE WEIGHT - 15/16IN ID X 1 1/2IN OD X 3 1/4IN LONG - PVC COATED STAINLESS
SN1414	STAINLESS HEX NIPPLE 1/4 MPT X 1/4 MPT
SSC38	SCREW BAND CLAMP - STAINLESS STEEL - FOR 3/8IN HOSE
SSCR14	STAINLESS STEEL CROSS - 304 - 1/4IN FPT
SST14	STAINLESS TEE 1/4 FPT
STBHC3	SPRAY TIP-BUTTON STYLE-HOLLOW CONE-3.0 GAL/HR
TB14N-PE	1/4IN OD NATURAL TUBE - POLYETHYLENE - AVAILABLE PER FT
TMR-RPT-120VAC	TIMER - REPEAT CYCLE - SECONDS AND MINUTES ADJUSTABLE DIGI-SET - 120VAC - SCREW TERMINAL BLOCK - INCLUDES INSTRUCTIONS
TSW-BDY	TOGGLE SWITCH - BODY - SINGLE POLE SINGLE THROW - NICKEL-PLATED BRASS - 1/4IN SPADE TERMINALS - 1/2IN MOUNTING HOLE - 15/32-32 KEYED THREADED BUSHING
TSW-PLT	TOGGLE SWITCH - ON/OFF PLATE - NICKEL-PLATED STEEL - MOUNTING HOLE FOR 15/32 KEYED BUSHING
TSW-BT	TOGGLE SWITCH - MOUNTING BOOT - BLACK SILICONE RUBBER - 15/32-32 INTEGRATED NUT
WC1416-FSPD14	WIRE CONNECTOR - FOR 10 TO 12 GAUGE WIRE - 1/4IN FEMALE SPADE - YELLOW NYLON INSULATED
WC1822-FSPD18	WIRE CONNECTOR - FOR 18 TO 22 GAUGE WIRE - 1/8IN FEMALE SPADE - RED PVC INSULATED
WLN2X	WIRE CONNECTOR - FOR 12 TO 24 GAUGE WIRE - LEVER NUT - 2 POSITION
WLN3X	WIRE CONNECTOR - FOR 12 TO 24 GAUGE WIRE - LEVER NUT - 3 POSITION
WMS14	WALL MOUNT SCREW - #14 X 1 1/4IN - STAINLESS STEEL - HEX HEAD SLOTTED
WMS14A	WALL MOUNT SCREW ANCHOR -#14 X 1 1/4IN - PLASTIC - 5/16IN DRILL SIZE
WR183-8-WPLG	WIRE CORD WITH US STANDARD UNPOLARIZED GROUNDED PLUG - 18AWG 3 CONDUCTOR - 8FT LONG - BLACK RUBBER JACKET - EPDM INSULATION - TYPE SJ00W - 10A RATING