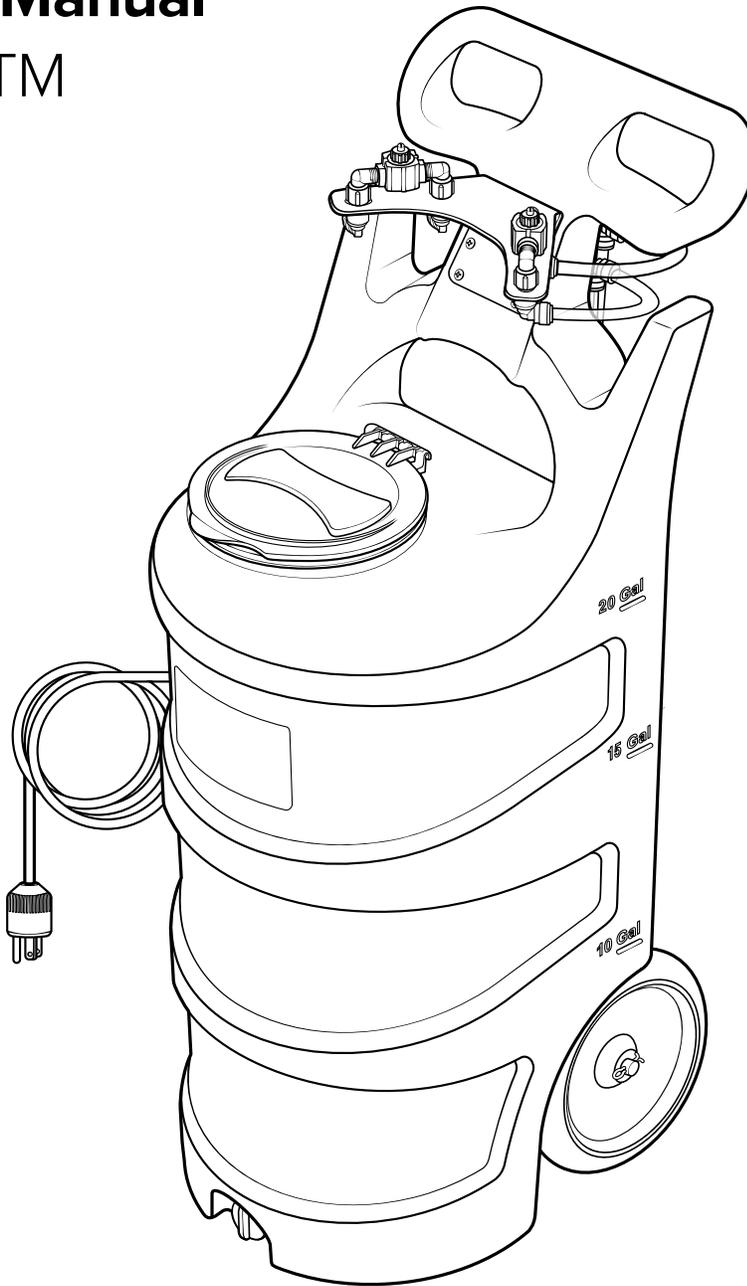


20 Gallon Fog Unit With Timer

Operation Manual

FG-20N-2-TM



READ ALL INSTRUCTIONS BEFORE USING OR
SERVICING THIS UNIT. KEEP THIS MANUAL IN A
LOCATION THAT IS READILY AVAILABLE TO USERS
AND SERVICE TECHNICIANS.

English (Original Instructions)



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operation manual



Safety

WARNING

PEOPLE OR OBJECTS CAN BE HURT OR DAMAGED IF THIS UNIT IS NOT USED CORRECTLY!



Failure to read all the instructions before operating the unit may result in personal injury or death from the improper use or the chemical solution. Anyone handling, operating or using the unit must read and understand the instructions in the manual. The buyer assumes all responsibility for safety and proper use in accordance with the instructions.



Using or servicing the unit without appropriate personal protective equipment (PPE) may result in serious injury such as burns, rashes, eye, throat or lung damage and death. Always wear PPE as indicated in the Safety Data Sheet (SDS) when using or servicing the unit. Protect eyes, skin, and lungs against drifting spray.



Chemical solutions may pose a health risk and death if they contact the skin or eyes, are inhaled or swallowed. Always read and follow all chemical safety precautions and handling instructions provided by the chemical manufacturer and the SDS associated with the chemical solution before using the unit.



Pressure within the equipment may cause an unexpected release of the chemical solution and cause serious injury such as burns, rashes, eye damage, throat or lung damage and death. Always depressurize and clean the unit after each use. Never leave the unit unattended while pressurized.

Using the unit with fluid temperatures above 100°F (37.8°C) may result in scalding, burns, serious injury or death. DO NOT use a solution with a temperature above 100°F (37.8°C).

Operating the unit when damaged or leaking may result in exposure to chemical solutions, serious injury or death. Never use the unit if it is damaged or leaking.

Never point the discharge wand at yourself, another person, or any object you do not want covered in chemical.



Using incoming air pressure exceeding 100 psi (6.9 bar) may result in pressure buildup, explosion, serious injury or death. DO NOT exceed 100 psi (6.9 bar) incoming air pressure when operating the unit.



Use of hydrocarbons and flammable products may result in explosions, fire and serious injury or death. Never use hydrocarbons or flammable products with the unit.

Mixing an alkaline with an acid may result in a chemical reaction. Overheating of the mixture may cause it to splatter caustic compounds or release hazardous fumes, gas and vapors. Always flush the unit with fresh water thoroughly when switching from an alkaline to an acid or an acid to an alkaline.



Touching damaged electrical cords may result in electrical shock, serious injury or death. Always inspect electrical cords and extension cords for damage before connecting the unit to power supply. DO NOT touch a damaged electrical cord, or extension cord, that is connected to power supply.

NOTICE

Servicing or modifying this unit with parts not listed in this manual may cause the unit to operate improperly. Do not use unauthorized parts when servicing the unit.

Use of an air lubricator before the unit may result in diminished performance and damage to the unit. Do not use an air lubricator before the unit.

Moisture in the air lines will damage the pump and diminish the pump life. The air must be filtered, clean, dry and free of moisture. If needed, install an air dryer before the unit.

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

Product Overview

Requirements

Compressed air requirements	50 psi (3.4 bar) with 7 CFM (198.2 l/min)
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	Compressed air and electricity
Chemical pickup type	Draws from pre-mixed solution
Number of products unit can draw from	One product
Suction line diameter	3/8 in. (9.5 mm) inside diameter
Capacity	20 gallons (75.7 liters)
Flow rate*	3.7 gal/hour at each nozzle
Pump seals	Santoprene, Viton, or Kalrez
Timer operation type	Single shot timer with delay
Droplet size	15 microns at 50 psi
Coverage area**	1 liter of solution will cover approximately 1000 cubic feet (up to system max of 47,320 cubic feet)
Run time from full tank**	Approx. 1.5 hours
Number of nozzles	2 nozzles
Wheel type	Two 10 inch (25.4 cm) non-marking wheels.

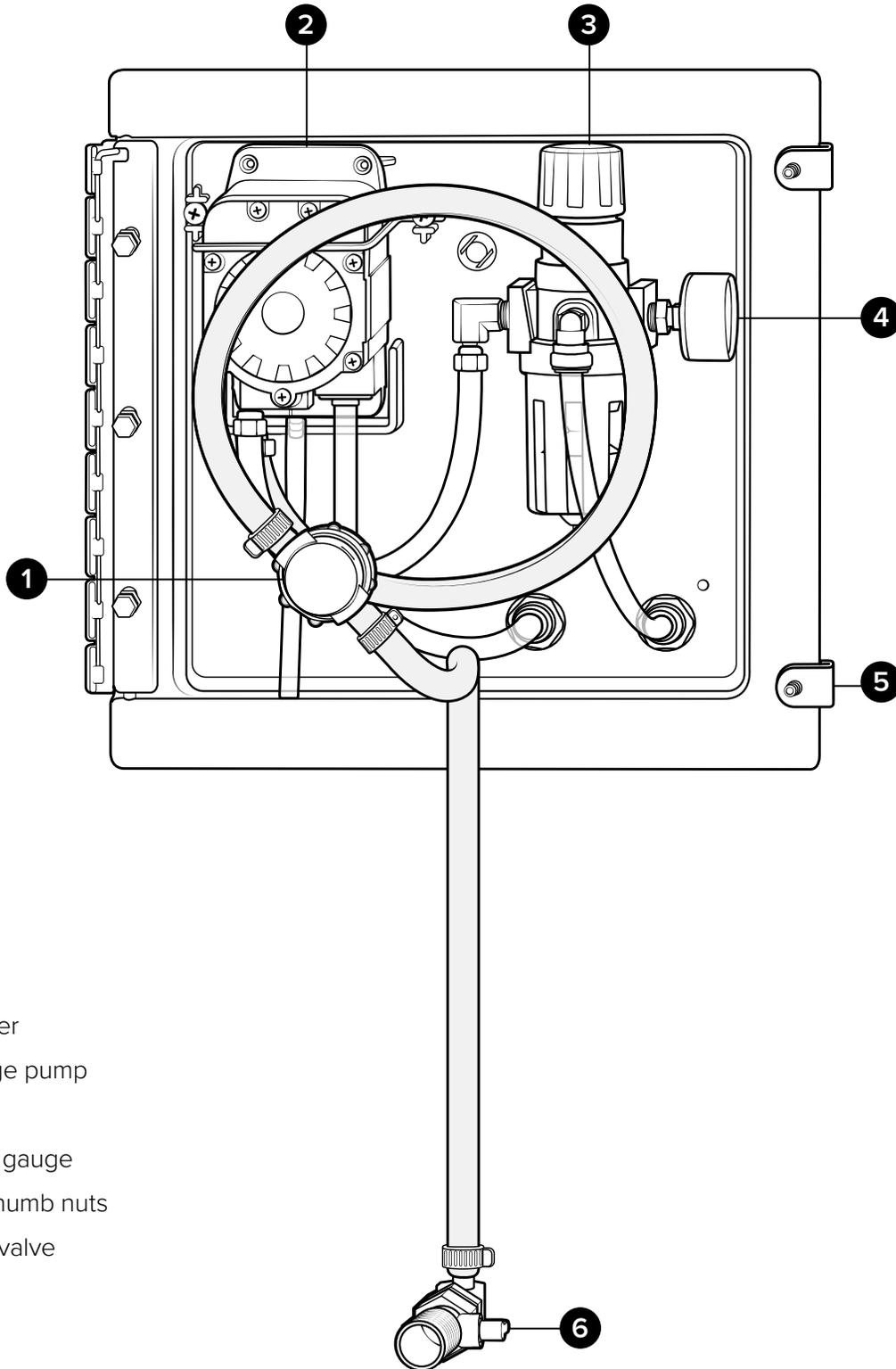
*Dilution rates and flow rates given are based on chemical with viscosity of water and factory air pressure settings.

**Area covered and run time may vary based on humidity, air flow, and product used.

Product Components

Get to know the FG-20N-2-TM components that you will need to use, adjust, or assemble.

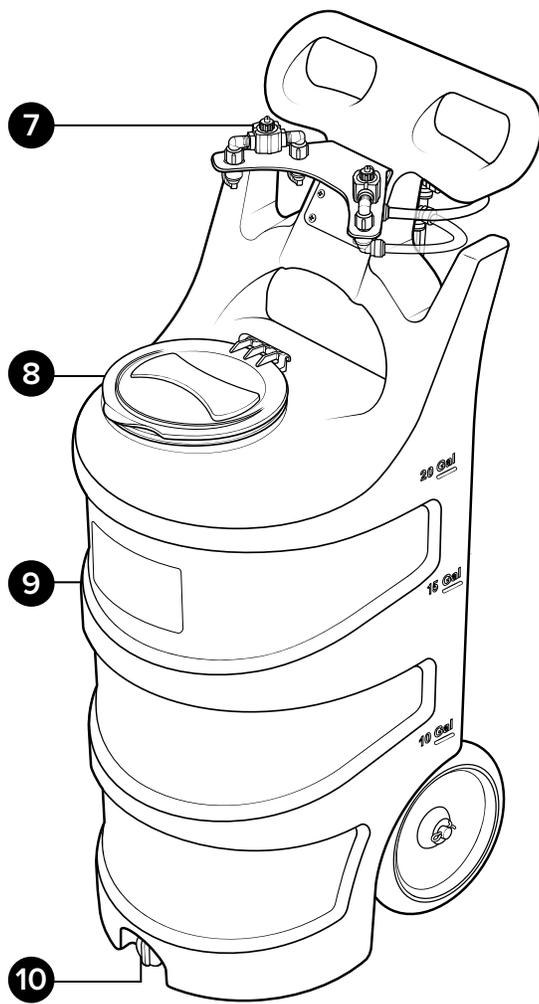
Back plate assembly • Inside view



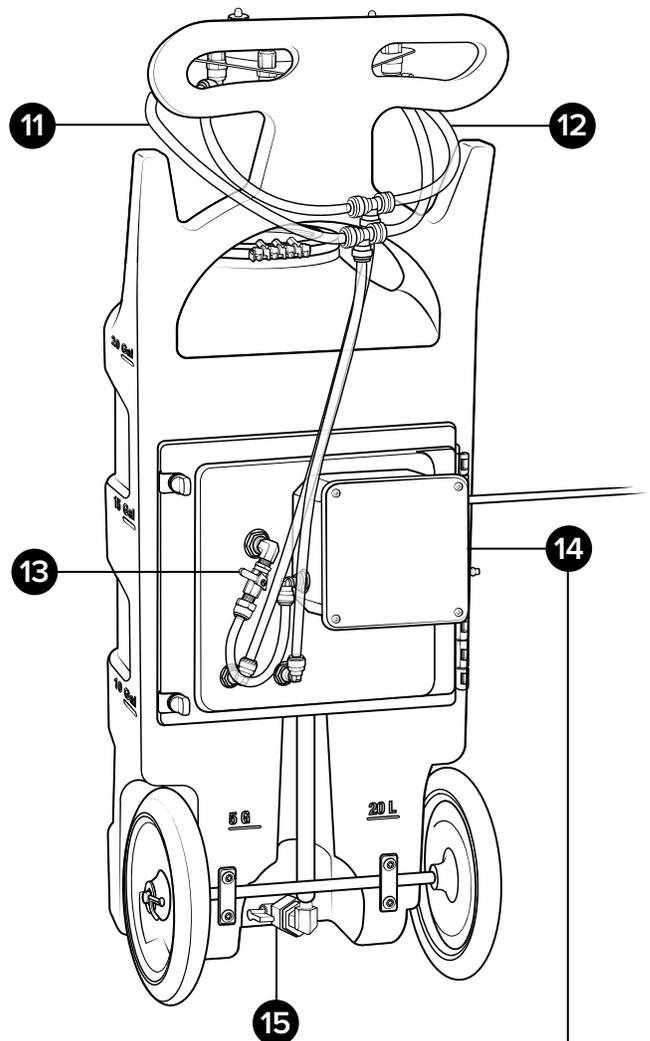
1. In-line strainer
2. Quick-change pump
3. Air regulator
4. Air pressure gauge
5. Back plate thumb nuts
6. Suction line valve

Tank Assembly

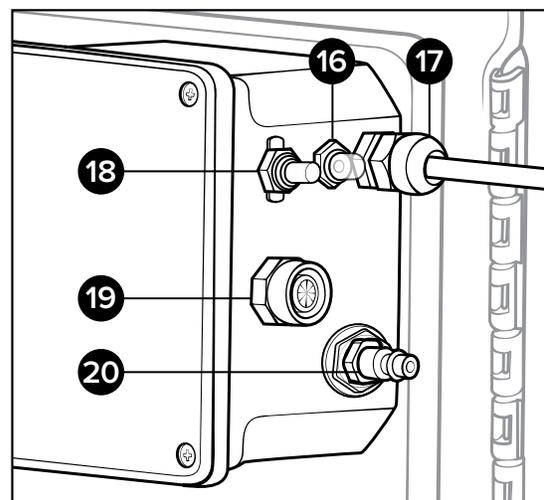
Front view



Back view



- | | |
|--------------------------|------------------------|
| 7. Fog nozzle | 14. Air control box |
| 8. Hinged lid | 15. Suction line valve |
| 9. Solution tank | 16. Circuit breaker |
| 10. Drain plug | 17. Electrical plug |
| 11. Solution supply line | 18. Power switch |
| 12. Air supply line | 19. Activation button |
| 13. Air inlet valve | 20. Air fitting |



Using your unit

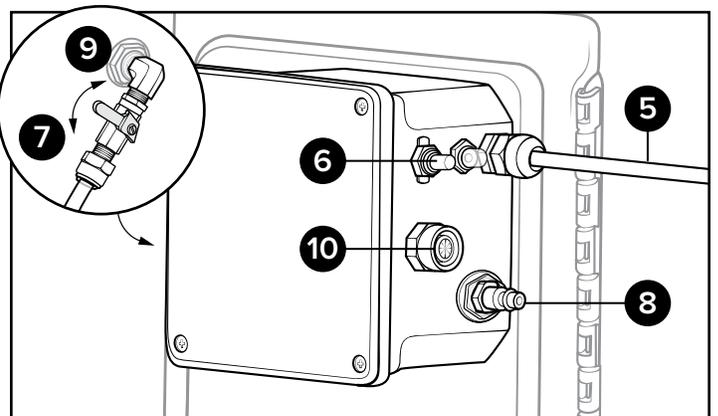
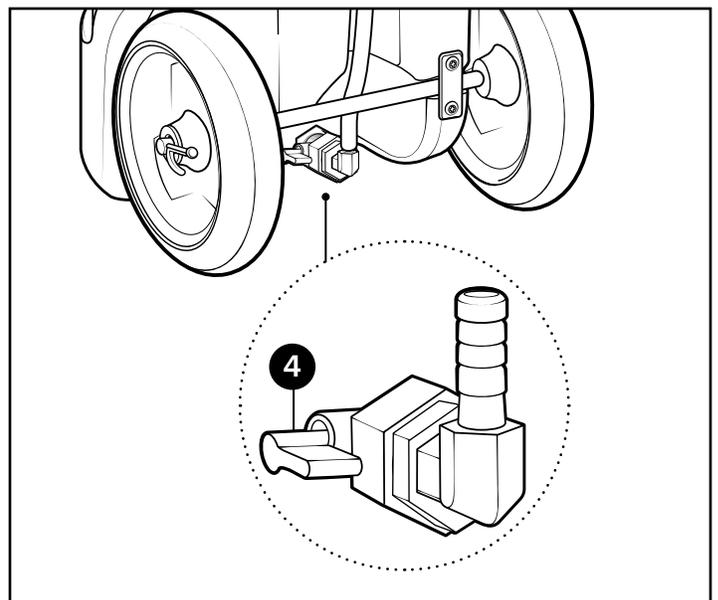
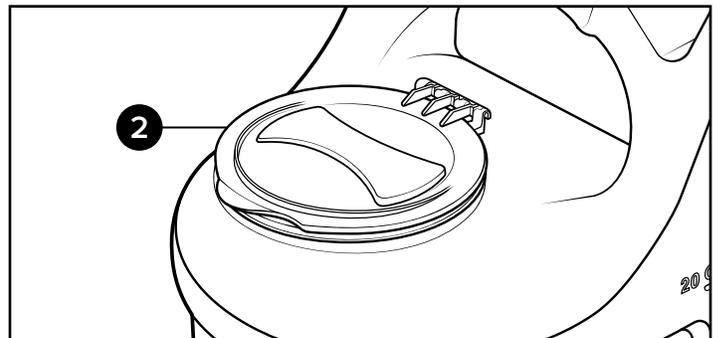
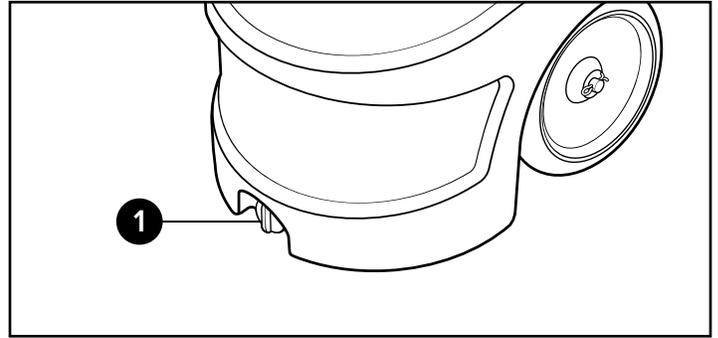
Operating Instructions

Note: Timer is factory set with a 2 minute delay, 8 minute run time. If needed, refer to the **Timer Adjustment Instructions** on next page to adjust timer settings before use.

1. Verify drain plug is securely closed.
2. Following all instructions from the chemical manufacturer, fill the solution tank with pre-mixed solution.
3. Place the unit in the area to be fogged.
4. Ensure the suction line valve at the base of the suction line is open to allow fluid flow.
5. Connect the electrical plug to a properly grounded outlet.
6. Turn the power switch to the "ON" position.
7. Confirm the air inlet valve is closed.
8. Connect an air line to the air inlet fitting.
9. Open the air inlet valve to allow air flow.
10. Press the activation button to start the unit.
11. Evacuate the area.
12. After the unit has stopped fogging, observe all appropriate safety precautions before reentering the area.
13. Close the air inlet valve and disconnect the air line from the unit.
14. Unplug the unit from the power source.

After Use Instructions

15. Ensure air line is disconnected from the air fitting and the unit is unplugged from the power source.
16. Open the air inlet valve to relieve all remaining pressure from the unit.
17. Close the air inlet valve after all pressure has been relieved. Store unit with inlet valve closed.
18. Turn the power switch to the "OFF" position.
19. Before using the unit with another chemistry, thoroughly flush with water.



Using your unit

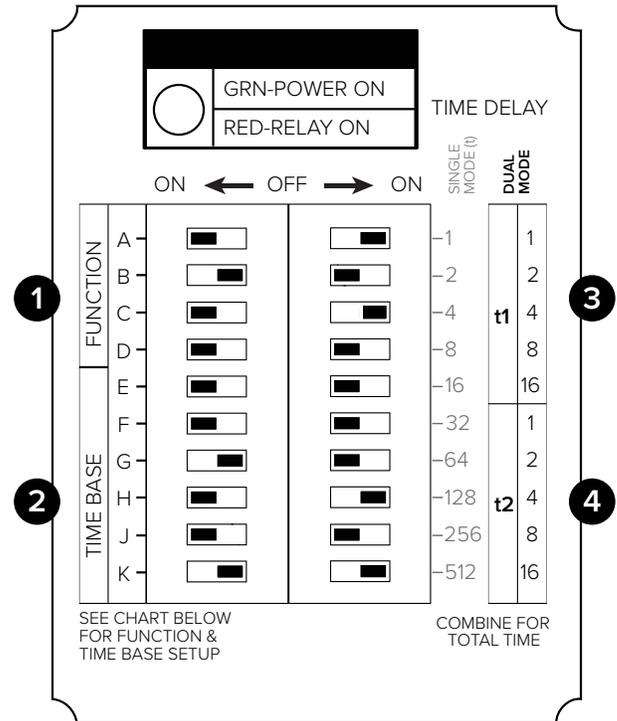
Timer Adjustment Instructions

Note: Timer is preset with 2 minute delay, 8 minute run time.

- Function (A-D)** controls timer mode. For fogging/misting applications, A, C, and D should be on, and switch B should be off. This puts the timer in Dual Mode.
- Time Base (E-K)** controls time interval. The timer is factory set to minutes. To change the Time Base to seconds or hours, refer to the chart below.
- Dual Mode (t1)** controls delay time.
- Dual Mode (t2)** controls run time. Active time for each function is equal to the combined values of any switch(es) that are ON.

Example: In the example shown, delay time has been set to 5 minutes and run time is set to 20 minutes.

- Function is set to Dual Mode.
- Time Base is set to minutes.
- Dual Mode delay time is 5 min. (1+4=5).
- The total run time is 20 min. (4+16=20).



FUNCTION

		FUNCTION	A	B	C	D
SINGLE MODE	ON DELAY	OFF	OFF	OFF	OFF	OFF
	INTERVAL ON	ON	OFF	OFF	OFF	OFF
	OFF DELAY	OFF	ON	OFF	OFF	OFF
	TR. ON DELAY	ON	ON	OFF	OFF	OFF
	FLASHER (ON)	OFF	OFF	ON	OFF	OFF
	FLASHER (OFF)	ON	OFF	ON	OFF	OFF
	WATCHDOG	OFF	ON	ON	OFF	OFF
	ONE SHOT F. EDGE	ON	ON	ON	OFF	OFF
	SINGLE SHOT	OFF	OFF	OFF	ON	ON
	DUAL MODE	CYCLE (ON)	ON	OFF	OFF	ON
CYCLE (OFF)		OFF	ON	OFF	ON	ON
DELAYED INTERVAL		ON	ON	OFF	ON	ON
ON/OFF DELAY		OFF	OFF	ON	ON	ON
TR. DELAYED INT.		ON	OFF	ON	ON	ON
ONE SHOT-FLASHER		OFF	ON	ON	ON	ON
ON DELAY/FLASHER		ON	ON	ON	ON	ON

TIME BASE

		BASE	E	F	G		
SINGLE MODE (t)	DUAL MODE (t1)	0.01 S	OFF	OFF	OFF		
		0.1 S	ON	OFF	OFF		
		1.0 S	OFF	ON	OFF		
		0.1 M	OFF	OFF	ON		
		1.0 M	ON	ON	OFF		
		0.1 H	ON	OFF	ON		
		1.0 H	OFF	ON	ON		
		10.0 H	ON	ON	ON		
		DUAL MODE (t2)	DUAL MODE (t2)	BASE	H	J	K
				0.01 S	OFF	OFF	OFF
0.1 S	ON			OFF	OFF		
1.0 S	OFF			ON	OFF		
0.1 M	OFF			OFF	ON		
1.0 M	ON			ON	OFF		
0.1 H	ON			OFF	ON		
1.0 H	OFF			ON	ON		
10.0 H	ON			ON	ON		

Note: Switches H, J, and K, are only used on dual mode functions

Maintenance

WARNING

Performing any maintenance with the unit pressurized, connected to air supply, and/or connected to electrical power may result in serious injury or death. Always ensure that the unit has been depressurized, disconnected from the air supply, and electrical power before conducting any maintenance. Servicing or modifying this unit with parts not listed in this manual may cause the unit to operate improperly. Do not use unauthorized parts when servicing the unit.

Maintaining Your Unit

To keep your unit operating properly, periodically perform the following maintenance procedures:

- Inspect the pump for wear and leaks.
 - Inspect all hoses for leaks or excessive wear.
 - Ensure all hose clamps are in good condition and properly secured.
 - Check suction line and strainer for debris. Clean as needed.
 - Inspect nozzles for debris. Clean as needed.
 - Drain your air compressor tank on a regular basis to help extend pump life. An air source with a high moisture content will accelerate pump wear.
- Note:** If your air source has a high moisture content, install a water separator to the air fitting on the backplate.

Servicing Your Unit

To service your unit, refer to the service manual which includes:

- Troubleshooting procedures.
- Detailed parts breakdowns and illustrations.
- Part numbers of serviceable components and assemblies.



Scan this code for
service manual

