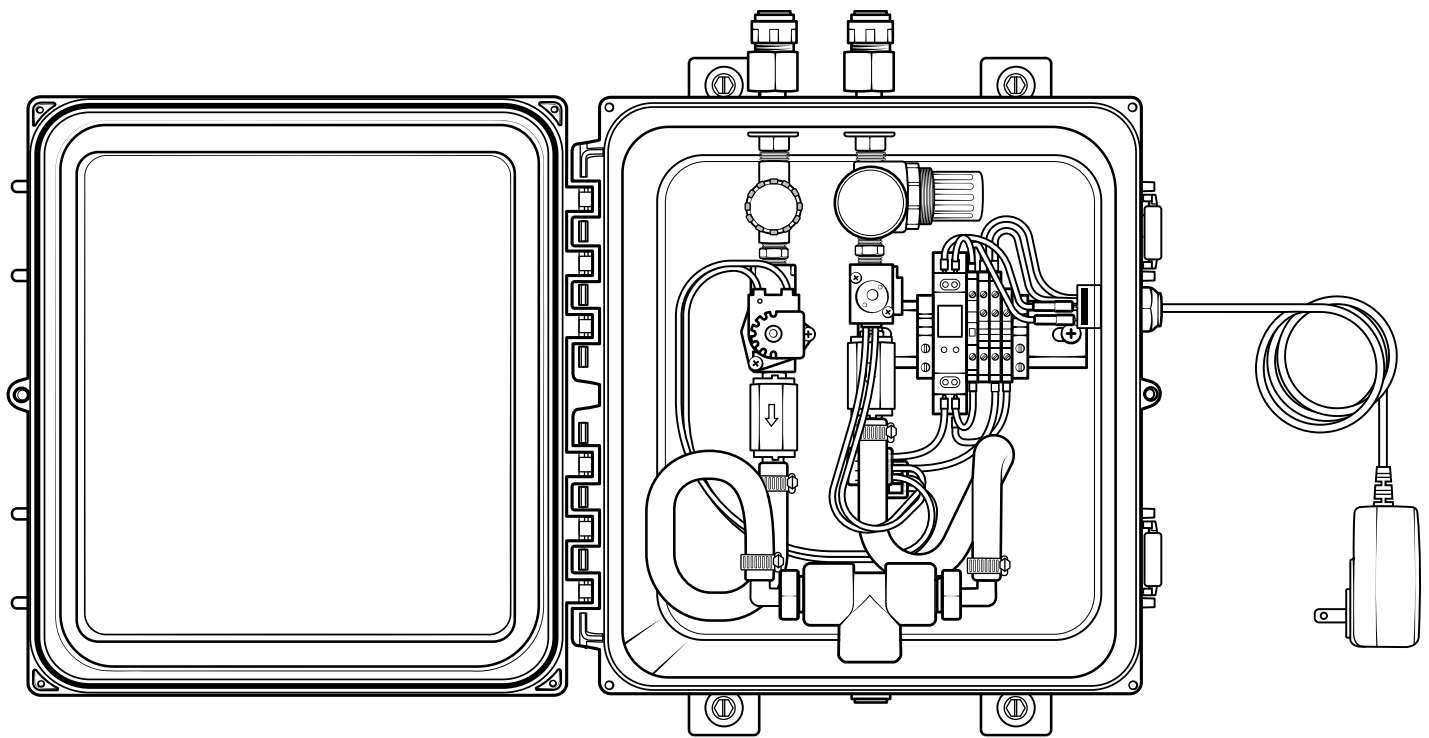


Single Line Central Doorway Foam Station

Operation Manual DS-STN



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)



Scan this code for
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 proper protective clothing, gloves, and eye wear may result in serious injury such as burns, rashes, eye, throat or lung damage and death. Always wear protective clothing, gloves, and eye wear 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 Safety Data Sheet (SDS) associated with the chemical solution being used 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.



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 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.



Performing any maintenance with the unit turned ON, plugged into an electrical power source or connected to the air supply may serious injury or death. Always ensure that the unit has been turned OFF, unplugged from the electrical power source, and disconnected from the air supply before conducting any maintenance.



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.

NOTICE

Servicing, or modification, of 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 pumps 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	40-80 psi (2.8-5.5 bar) with 5-10 cfm (141.6-283.2 l/min)
Liquid temperature range	40-100°F (4.4-37.8°C)
Electrical requirements	100-240VAC, 50-60Hz, 1A (GFCI protected outlet)
Operating voltage	24 VDC
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

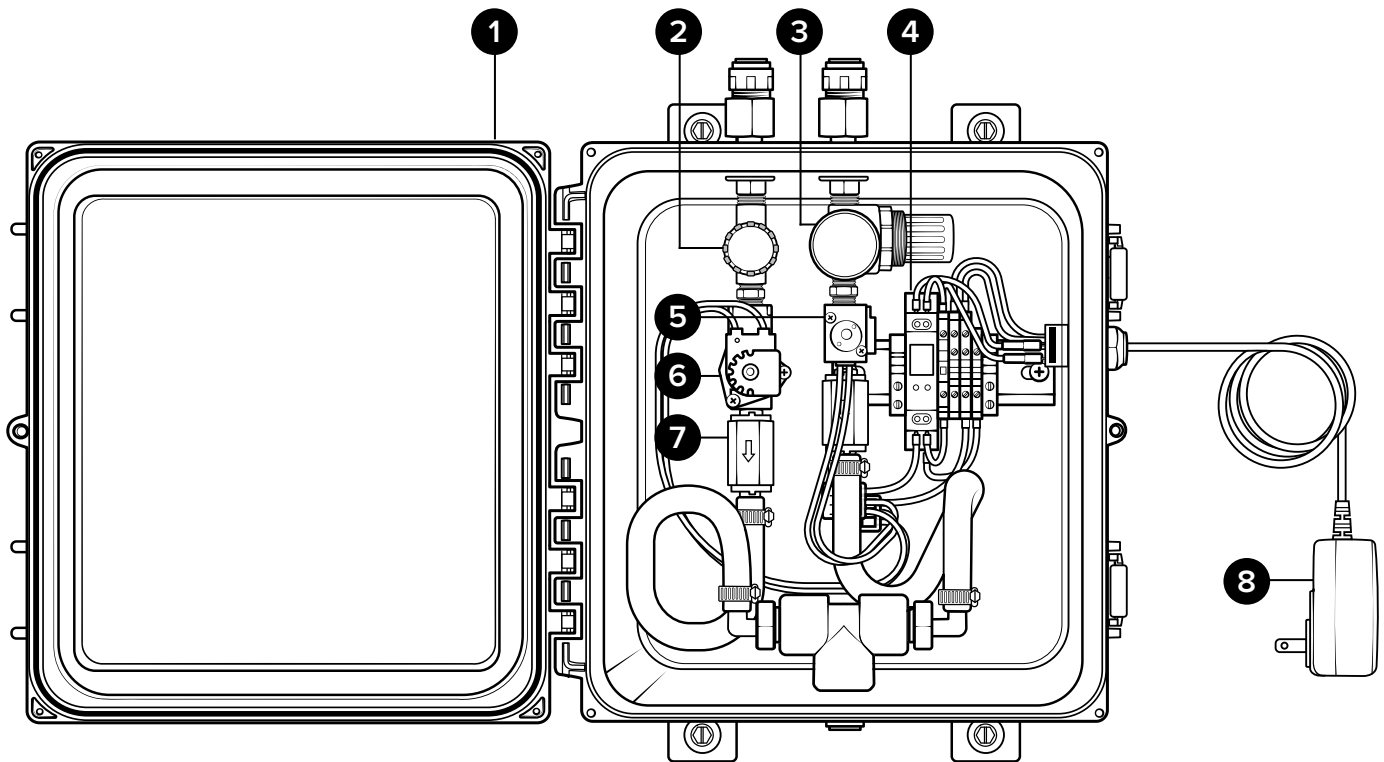
Power type	Central system, electricity
Chemical pickup type	Supplied with pre-mixed solution from a central system
Number of products unit can draw from	One product
Flow rate*	2 gal/min (7.6 l/min)
Timer operation type	Repeat cycle
Coverage area**	- One nozzle: up to 9x4 ft. (2.7x1.2 m) - Two nozzles: up to 5x3 ft. (1.5x0.9 m) at each nozzle
Nozzle type	Single-line nozzle assembly (NZA-DS-SL) (sold separately)
Number of nozzles	One control box can support up to two nozzle assemblies
Distance from nozzles to control box	The combined distance between the control box and the nozzle(s) must equal 25 ft. (7.6 m) or less
Tubing/fitting sizes	Designed for use with ½ in. (12.7 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.

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

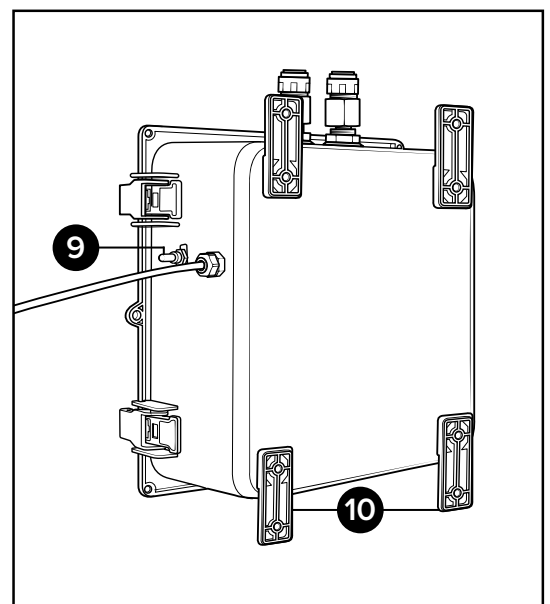
Product Components

Before you begin get to know the components that you will need to use, adjust or assemble.



1. Control box
2. Needle valve
3. Air regulator
4. Timer
5. Air control valve
6. Fluid control valve
7. Check valve
8. Power cord
9. Power switch
10. Mounting feet

Side/Back View



Installation

Preparation

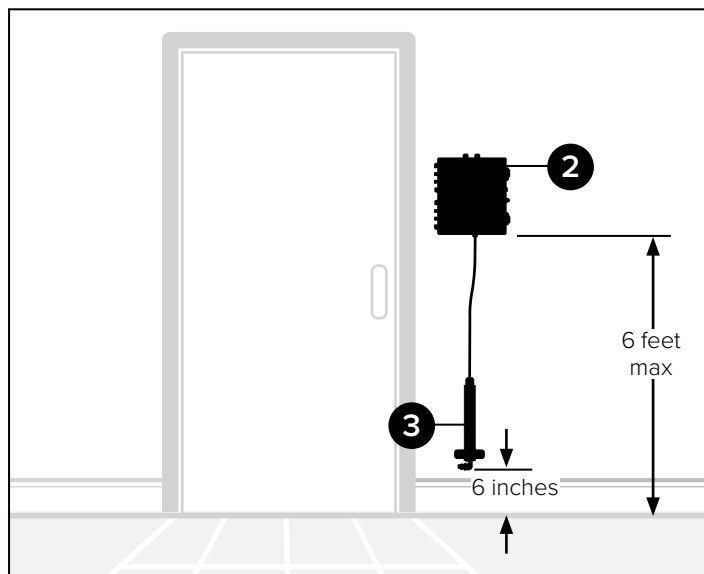
1. Remove all components from packaging.
2. Select an area to mount the control box.

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. Select the area where the nozzle assembly will be mounted.

Note: Consider the foam pattern when selecting the number of nozzles and location. The foam pattern dimensions provided in this manual were measured with nozzle assemblies mounted 6 inches (15 cm) above the floor.



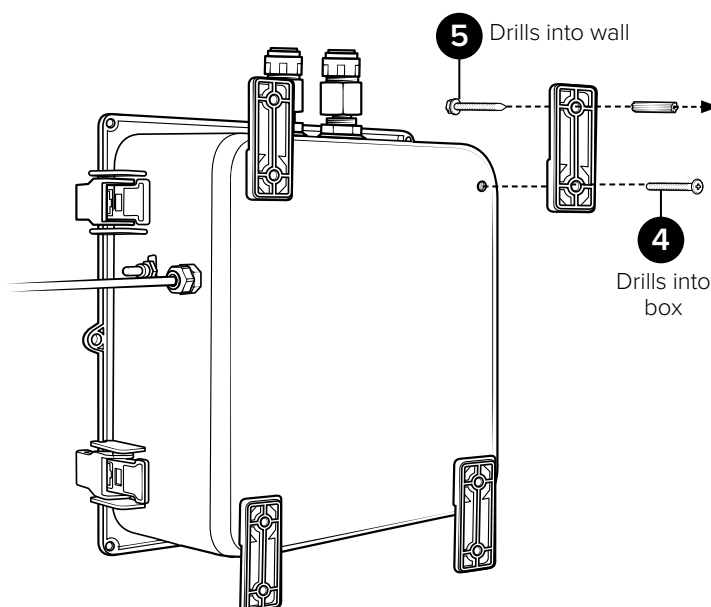
Area of coverage

1 Nozzle	2 Nozzles
Up to 9x4 ft. (2.7x1.2 m)	Up to 5x3 ft. (1.5x0.9 m) at each nozzle

Assembly

4. Attach the control box mounting feet to the back of the control box, using the four screws provided in the parts package.
5. Mount the control box to the wall using four of the screws and plastic anchors provided in the parts package.

Note: Use a $\frac{5}{16}$ inch drill bit to drill holes for the plastic anchors.



6. Mount the nozzle assembly in the desired location.

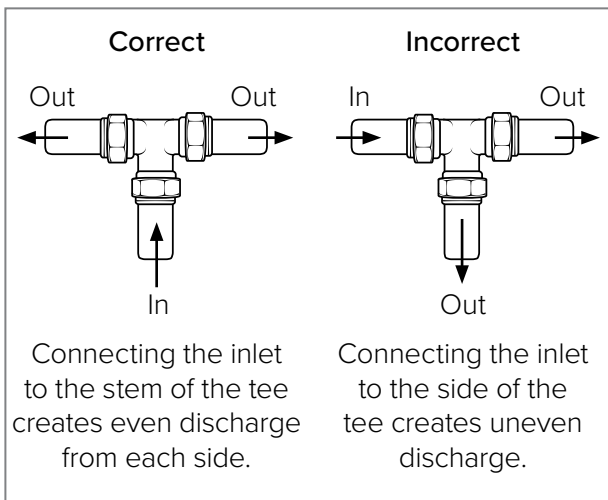
Fasten the stainless steel bracket using the screws and plastic anchors provided in the parts package. Repeat this step if multiple nozzles are needed.

7. Connect the tubing from the solution outlet fitting on the control box to the solution inlet fitting on the nozzle assembly.

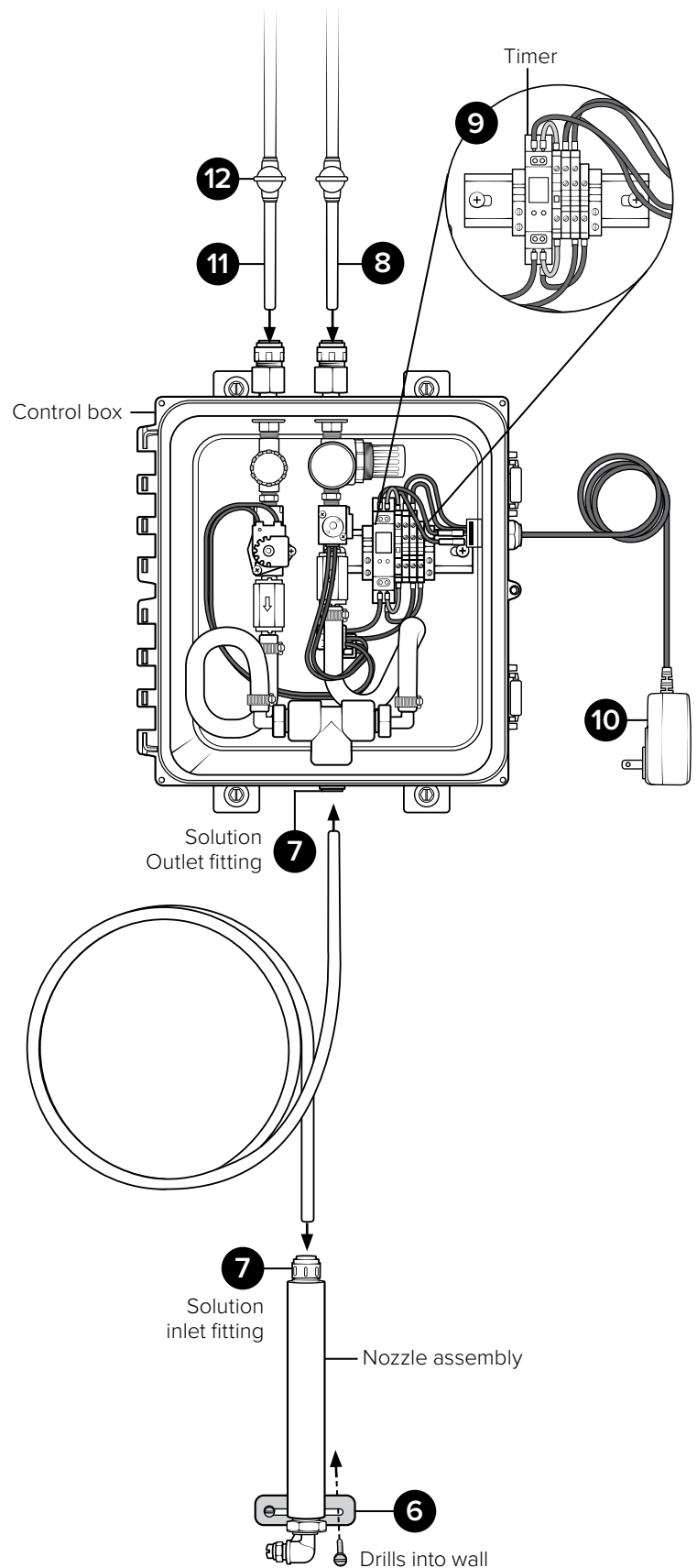
Note: For multiple nozzles, run the tubing from the control box into a tee fitting, as shown in the Tee Fitting diagram below. Then, run tubing from the tee fitting to the nozzle assemblies.

Important! The solution line must be routed to the appropriate fittings or the foam quality of the unit will be negatively impacted. Make sure to insert the tubing all the way into the fittings to ensure proper connection.

½ in. union tee fitting diagram



8. Attach an air line from your air compressor to the control box.
9. Set the Timer for the desired ON and OFF time (see **Using your unit - Timer Setup** for instructions).
10. With the power switch in the OFF position, plug the unit into a power outlet.
11. Connect the control box to the header supply line from the chemical room. Use the ½ in. NPT fittings provided.
12. Ensure a shut off valve is between the header supply line and the control box. This will ensure the ability to deactivate the control box if it needs to be serviced.



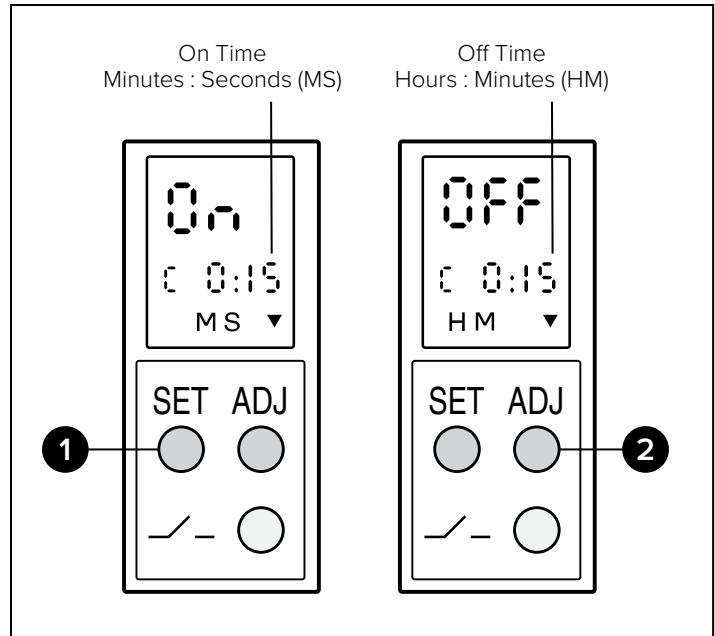
Using your unit

Timer Setup

The timer is an adjustable repeat cycle timer with the ON time operating first. The timer will begin cycling when the unit is powered on.

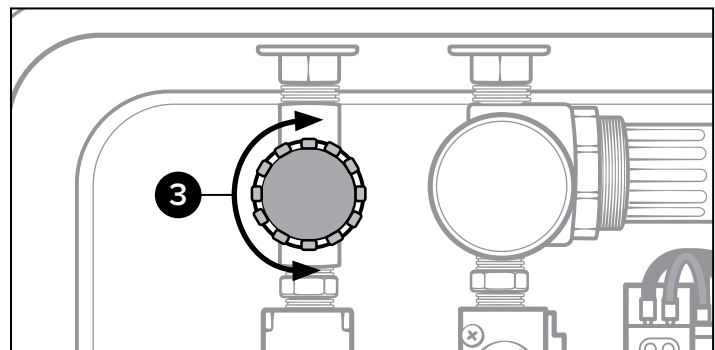
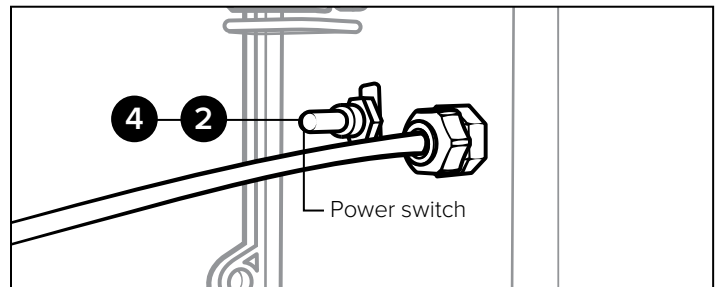
To set the timer:

1. Press SET to enter time adjustment mode. Press SET again to highlight the next value.
2. Use ADJ to adjust the highlighted value. The time format is M:SS for ON time, and H:MM for OFF time.
3. The timer will begin cycling with the new settings once all values have been set. The timer on screen will count down.
4. Hold SET to restart the timer's cycle.



Operating Instructions

1. Verify the unit is connected to compressed air, power, and chemical.
2. To activate the unit, turn the power switch ON.
The unit will begin cycling through the ON time and OFF time intervals set on the timer, beginning with the ON time.
3. Open the needle valve (counter-clockwise) all the way on the fluid side of the control box. Reduce the air pressure to 10 psi or less. While the unit is running, slowly increase the air pressure until the desired foam quality is achieved.
Note: If foam volume is too high, turn fluid needle valve until desired flow of foam is achieved.
4. To deactivate the unit, turn the power switch OFF.



Maintenance

WARNING

Performing any maintenance with the unit turned ON, plugged into an electrical power source and connected to the air supply may serious injury or death. Always ensure that the unit has been turned OFF, unplugged from the electrical power source, and disconnected from the air supply before conducting any maintenance.

Servicing, or modification, of 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 all hoses for leaks or excessive wear.
- Ensure all hose clamps are in good condition and properly secured.
- Confirm all components are functioning correctly and are free of leaks or excessive wear.

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.



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service manual

