

INSTRUCTIONS FOR SAFE OPERATION, AND MAINTENANCE

⚠ WARNING

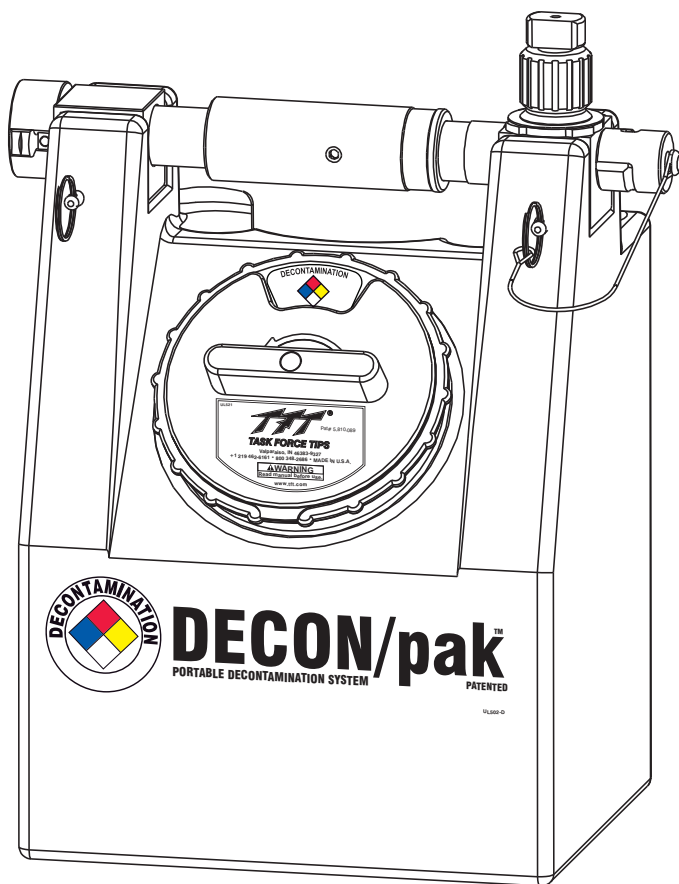
Understand manual before use. Operation of this device without understanding the manual and receiving proper training is a misuse of this equipment. Obtain safety information at tft.com/serial-number.

This equipment is intended for use by trained and qualified emergency services personnel for firefighting. All personnel using this equipment shall have completed a course of education approved by the Authority Having Jurisdiction (AHJ).

This instruction manual is intended to familiarize firefighters and maintenance personnel with the operation, servicing, and safety procedures associated with this product. This manual should be kept available to all operating and maintenance personnel.

Improper use of agent can result in injury or damage to the environment. Follow the agent concentrate manufacturer's instructions and fire service training to avoid using the wrong type of agent for disinfection purposes.

There are a wide variety of agent concentrates. Each user is responsible for verifying that any agent concentrate chosen to be used with this unit has been tested to assure that the agent obtained is suitable for the purpose intended.



RATED FLOW
12 GPM at 100 PSI
45 L/MIN at 6.8 BAR

Minimum Operating Condition
7 GPM at 40 PSI
30 L/MIN at 3 BAR

Maximum Operating Condition
27 GPM at 500 PSI
100 L/MIN at 40 BAR

ADDITIVE SETTINGS
0.1% to 0.5% continuously adjustable
RINSE (water only)

DANGER

PERSONAL RESPONSIBILITY CODE

The member companies of FEMSA that provide emergency response equipment and services want responders to know and understand the following:

1. **Firefighting** and Emergency Response are inherently dangerous activities requiring proper training in their hazards and the use of extreme caution at all times.
2. **IT IS YOUR RESPONSIBILITY** to read and understand any user's instructions, including purpose and limitations, provided with any piece of equipment you may be called on to use.
3. **IT IS YOUR RESPONSIBILITY** to know that you have been properly trained in Firefighting and/or Emergency Response and in the use, precautions, and care of any equipment you may be called upon to use.
4. **IT IS YOUR RESPONSIBILITY** to be in proper physical condition and to maintain the personal skill level required to operate any equipment you may be called upon to use.
5. **IT IS YOUR RESPONSIBILITY** to know that your equipment is in operable condition and has been maintained in accordance with the manufacturer's instructions.
6. Failure to follow these guidelines may result in death, burns or other severe injury.

Fire and Emergency Manufacturers and Service Association, Inc.
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**FEMSA**

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1.0 MEANING OF SAFETY SIGNAL WORDS

A safety related message is identified by a safety alert symbol and a signal word to indicate the level of risk involved with a particular hazard. Per ANSI Z535.6, the definitions of the four signal words are as follows:

	DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	CAUTION indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.
	NOTICE is used to address practices not related to physical injury.

2.0 SAFETY

This portable decontamination system can be used in potentially dangerous situations. The following must be observed at all times:

	WARNING Improper use of agent could result in death or serious injury, including damage to the eyes. To reduce the risk of injury, avoid directing agent onto the faces of yourself and other personnel. Always wear PPE, including eye protection, as directed by the AHJ.
	WARNING Make sure that the agent concentrate in the tank is the right type for the situation. (Refer to agent concentrate manufacturer's recommendations for proper agent choice.)
	WARNING Agent concentrates can be ineffective if not used at the correct concentration ratio. Ineffective agents can increase the potential for injury or death. Ensure that the Percentage Knob is set to the correct concentration ratio for the type of agent being used prior to flowing.
	CAUTION Make sure the Flow Control Valve is off and the correct nozzle and Outlet Hose are securely attached to the Control Block before the hose line is charged.
	NOTICE To prevent mechanical damage, do not drop or throw equipment.

3.0 GENERAL INFORMATION

The DECON/pak Portable Decontamination System is a self-contained agent proportioning and rinse application system developed specifically for gross decontamination of firefighting personnel and equipment. Injecting a variety of approved personal protective clothing gross decontamination agents from 0.1% to 0.5%, the rugged green polypropylene 2.5 gallon concentrate tank and water is supplied by a pressurized 1" or 1.5" hoseline. The unit includes an integrated twist shut-off valve, selective injection metering knob, and is easily disassembled for cleaning. The pressure and vacuum seals on the lid and inlet debris screen assures that the approved decontamination agent chosen can be stored ready for immediate use. A detachable fan spray nozzle is attached to a 12' discharge hose for ease of use during agent application or rinsing operations.

The DECON/pak is not intended to be used for Class A, Class B, or any other type of foam concentrate. If you intend to use the DECON/pak for liquids other than decontamination agents and water, we urge you to contact Task Force Tips Service Department at 800-854-6864. The use of other liquids may void the warranty and subject the user to hazards not addressed in this manual. The user assumes all risks for non intended uses.

3.1 SPECIFICATIONS

	US Units	Metric Units
Tank Capacity (to bottom of fill port)	2.5 gal	9.5 litres
Nominal Flow (all nozzles)	12 gpm @ 100 psi	45 l/min @ 6.8 bar
Weight Empty	11.5 lb	5.2 kg
Weight Full	30.1 lb	13.6 kg
Length x Width x Height	13.5" x 10.75" x 17"	345mm x 275mm x 430mm
Operating Pressure Max/Min	(water) 500/40 psi	(water) 40/3 bar

Figure 3.1

3.2 PART IDENTIFICATION

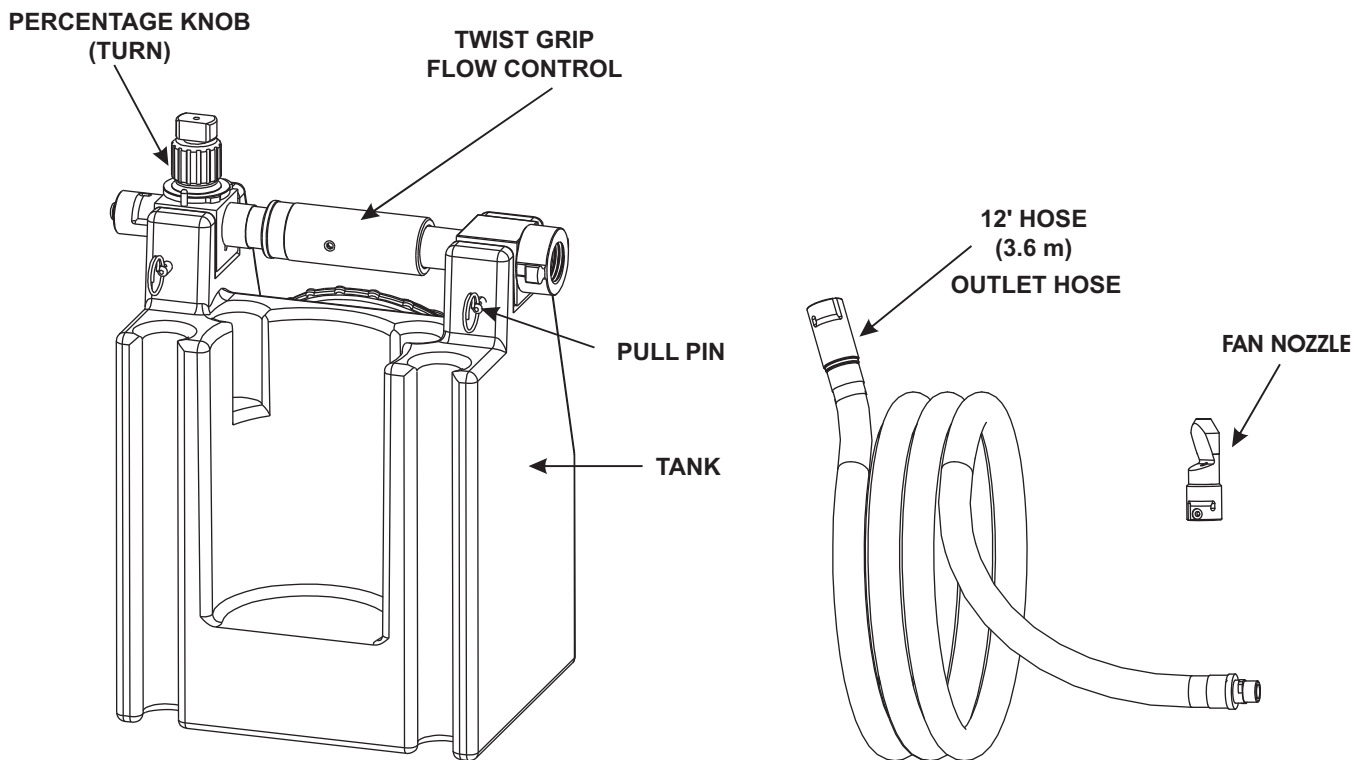


Figure 3.2

3.3 LEFT OR RIGHT HAND OPERATION

The Control Block and Valve Assembly can be mounted on the Tank for right or left hand operation. To switch hands, remove the Shoulder Strap from the Pull Pins. Remove the Circle Cotters from the Pull Pins and remove the Pull Pins themselves. Pull the Control Assembly straight up and out of the tank. Turn the Control Unit around and reinstall the Pull Pins, the Circle Cotters, and the Shoulder Strap.

3.4 DILUTION EQUIVALENTS

Agents used in the DECON/pak are to be diluted according to the manufacturer's specifications. The DECON/pak delivers agent at between 0.1 and 0.5%. The following chart describes percentages and dilution ratios.

Percentage	ml/l	Oz/gal	or	Ratio
0.23%	2.3	0.3	2 US teaspoons	1:427
0.39%	3.9	0.5	1 US tablespoon	1:256
0.50%	5.0	0.64	1-1/4 US tablespoons	1:200
0.78%	7.8	1	2 US tablespoons	1:128
1.0%	10	1.3	2-1/2 US tablespoons	1:100
1.6%	16	2	1/4 US cup	1:64
2.3%	23	3	1/3 US cup	1:43
3.1%	31	4	1/2 US cup	1:32
4.7%	43	6	3/4 US cup	1:21
6.3%	67	8	1 US cup	1:16
7.8%	78	10	1-1/4 US cup	1:13
KEY -		Exceeds 0.5% DECON/pak maximum setting		

Table 3.4

4.0 FLOW CHARACTERISTICS

DECON/pak FLOW CHARACTERISTICS
(with valve fully open)

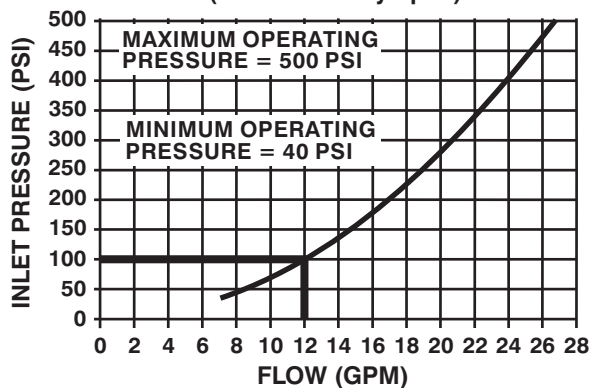


Figure 4.0A

MINUTES TO USE 2-1/2 GALLONS OF CONCENTRATE AT 12 GPM	
PERCENT	MINUTES
0.1	208
0.2	104
0.3	69
0.4	52
0.5	42

DECON/pak FLOW CHARACTERISTICS
(with valve fully open)

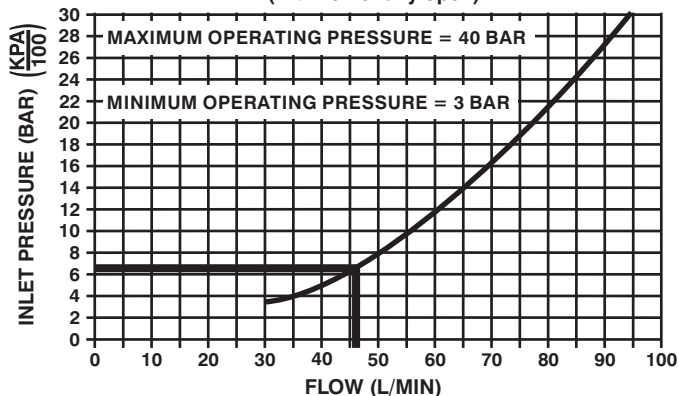


Figure 4.0B

MINUTES TO USE 10 LITRES OF CONCENTRATE AT 45 l/min	
PERCENT	MINUTES
0.1	208
0.2	104
0.3	69
0.4	52
0.5	42

5.0 AGENT SELECTION

The Control Block and Valve Assembly can be mounted on the Tank for right or left hand operation. The more viscous, or thick, the agent concentrate, the greater the amount of energy required to draw the concentrate into the eductor. The viscosity of most agent concentrates changes with temperature. Some thickening to a gel may occur at temperatures of 40°F (4°C) or lower.

The DECON/pak percentage knob was calibrated with ZepPowerPlex® Heavy-Duty Laundry Detergent. Actual agent concentrations vary with changes in water flow, agent concentrate temperature and viscosity. The user must verify that the performance of the concentrate is suitable for use in their application. In all cases, the manufacturer's recommendations must be followed.

5.1 AGENT COMPATIBILITY

⚠ DANGER

Mixing different types of agent concentrates or agents of the same type from different manufacturers can cause the contents of the agent reservoir to gel and produce unpredictable results, increasing risk of serious injury or death. To reduce the risk:

- Clean tank and agent passages thoroughly when changing agent types.
- Check agent manufacturer's documentation for recommendations.
- Always identify the contents of the reservoir per the agent manufacturer's Technical Data Sheet.

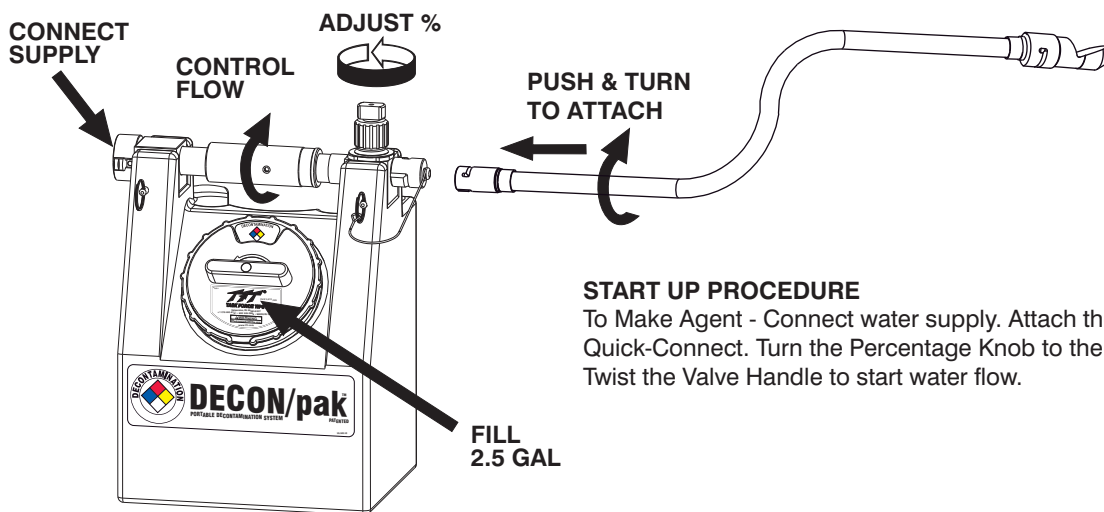
NOTICE

Components may be subject to degradation, including corrosion, by harsh chemicals such as sodium hypochlorite (Bleach), D-limonene, Hydrogen Peroxide, and other strong solvents. To reduce the risk of equipment damage:

- Avoid long-term storage of agents that may damage the tank, lid, or other components.
- Empty and rinse the reservoir between use.

It is the responsibility of the end user to determine the chemical compatibility between the device and any solutions to be stored in it. Effects of corrosion by bleach and other disinfecting concentrates are not covered under warranty.

6.0 OPERATION



START UP PROCEDURE

To Make Agent - Connect water supply. Attach the nozzle to the Quick-Connect. Turn the Percentage Knob to the desired percentage. Twist the Valve Handle to start water flow.

Figure 6.0

6.1 HOSE CONNECTION

Attach inlet fire hose to the coupling on the inlet end of the DECON/pak. Larger hoses may be used with an adapter. For maximum maneuverability, we recommend attaching 1" hose to the DECON/pak itself.

6.2 FILLING THE TANK

Unscrew the fill port lid by turning counterclockwise. Fill tank to bottom of fill port. Agent may seep out the vents if over filled. Close the fill port lid by turning clockwise.

6.3 CONNECTING DISCHARGE HOSE AND NOZZLE

The nozzle may be attached directly to the quick-connect fitting on the control block or to the end of the outlet hose, which is then attached to the control block.

1. Align the marks on the quick-connect male fitting with the marks on the female fitting and push the two pieces together.
2. Twist the nozzle or hose one quarter turn to the right to latch the quick-connect fitting.
3. To remove fan nozzle, remove set screw.
4. Hose lengths available. TFT part U-HS6, U-HS12, and U-HS25.

⚠ CAUTION

The DECON/pak's eductor will not function if the back pressure from the outlet hose or nozzle is too high. To reduce the risk of injury or death due to a non-functioning unit:

- Never use hose longer than the 25' (7.5m) U-HS25 optional hose.
- Never add additional hose, or use other manufacturer's hose assemblies and nozzles.

⚠ CAUTION

There is no check valve in the DECON/pak eductor system. Installing a shut off valve between the DECON/pak and the fan nozzle can cause the agent tank to fill with water and dilute the agent concentrate resulting in ineffective agent. Never install a shut off valve between the DECON/pak and the fan nozzle.

6.4 SETTING AGENT CONCENTRATION

The percentage knob may be turned to the RINSE position for water only use. Be sure to use the agent manufacturer's recommended concentrate ratio. Turn the knob to the desired concentrate percentage.

6.5 CONTROLLING FLOW

Pressurize the hose line. Turn the flow control valve to start water flowing through the DECON/pak. Flow may be reduced by partially closing the control valve.

6.6 AGENT QUALITY

TO SHUT DOWN

To prevent concentrate from drying in the agent passages the following is recommended. While still connected to water supply, remove Circle Cutters and Pull Pins. Remove Control Unit from tank. Attach the Cap directly to the Quick-Connect on the Control Block. Turn the valve half way on till the discharge is agent free. This will back flush a small amount of water through the agent passage. Rotate the Percentage Knob back and forth to make sure all agent passages are flushed.

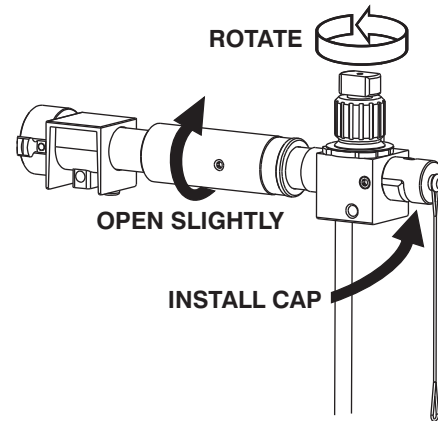


Figure 6.6A

TO CLEAN OUT IF PLUGGED

Remove screw #2, spring #3, and knob #4. Inspect the underside of the knob. Make sure the agent passages are clear. Do not scratch the flat face of the knob. Inspect the 2 holes in the top of the Control Block #5. If they are plugged, pull pins #1, remove Block Assembly and clean out Pickup Tube and holes.

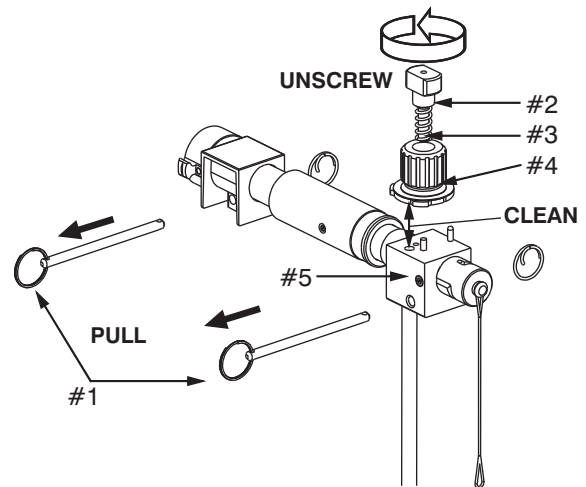


Figure 6.6B

6.7 SHUT DOWN AFTER USE (FLUSHING)

DECON/pak should be flushed with water after each use to prevent agent concentrate from drying out inside of the Control Block and Percentage Knob.

1. Reduce pump pressure to 100 psi or less.
2. Remove the nozzle and/or hose from the quick-connect on the front of the Control Block.
3. Remove the Circle Cotters and pull out the two Pull Pins that hold the Control Unit to the tank.
4. Pull straight up to remove the Control Unit and Pickup Tube from the tank.
5. Make sure the Percentage Knob is NOT in the RINSE position.
6. Install the Cap on the outlet of the Control Block.
7. Turn the Flow Control valve until a trickle of clean water is flowing out the end of the Pickup Tube.
8. Turn the Percentage Knob back and forth to make sure all agent passages are flushed.
9. Shut off water and reinstall the Control Unit on the tank and insert the Pull Pins and circle cotters.
10. Remove the Cap.

The exterior of the DECON/pak can be washed off with the hose with the percentage knob in the RINSE position.

6.8 STORAGE

The DECON/pak can be stored with some milder types of agent concentrate in it. Make sure the control block and valve assembly is mounted on the tank and the fill port is securely closed to prevent evaporation. Storage in the upright position is recommended to avoid agent leaking when the DECON/pak is not in use.

It is the responsibility of the Authority Having Jurisdiction (AHJ) to determine agent compatibility for long term storage.

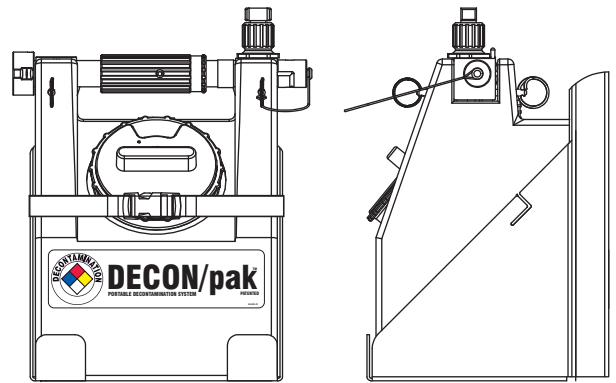


Figure 6.8

NOTICE

Components may be subject to degradation, including corrosion, by harsh chemicals such as sodium hypochlorite (Bleach), D-limonene, Hydrogen Peroxide, and other strong solvents. To reduce the risk of equipment damage:

- Avoid long-term storage of agents that may damage the tank, lid, or other components.
- Empty and rinse the reservoir between use.

It is the responsibility of the end user to determine the chemical compatibility between the device and any solutions to be stored in it. Effects of corrosion by bleach and other disinfecting concentrates are not covered under warranty.

7.0 WARRANTY

Go to tft.com for all warranty information.

8.0 TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	REMEDY
DECON/pak will not make agent	Out of agent	Refill tank
	Percentage knob is in RINSE	Select desired percentage
	Percentage knob is plugged	Remove screw on Percentage Knob, inspect and clean holes in top of control block and agent passages in bottom of Percentage Knob
	Non-standard outlet hose being used which is too long or too small in diameter	Order other hose option TFT part U-HS, U-HS6 or U-HS25b
	Agent tank is nearly empty	Refill tank
Agent delivery is intermittent	DECON/pak is tilted	Keep twist grip horizontal
	Air vents are plugged	Make sure that the small black rubber valve on the inside of the agent tank lid is not stuck down with dried agent concentrate
Poor quality agent	Debris in nozzle	Inspect nozzle, look for plugged holes
	Debris under knob	Unscrew knob, inspect and clean
	Agent solution velocity too high	Partially close flow control
	Agent gets thick when cold	Select a different agent

Table 8.0

9.0 CLEAN UP AND MAINTENANCE

Turn the percentage knob to the RINSE position. Use the hose, or hose and nozzle, to rinse off the DECON/pak. Reset percentage knob to proper percentage when finished. For years of service, periodically inspect your DECON/pak. Make sure the hose and fan nozzle are in place. Look for debris in the bottom of the tank and flush if necessary.

9.1 DRAIN HOLE

If the DECON/pak is often used for different agent concentrates, it may be helpful to install a drain to aid in emptying the tank. Drill and tap the left front ear of the tank and install a 1/4" NPT Pipe plug. Plastic or Brass preferred.

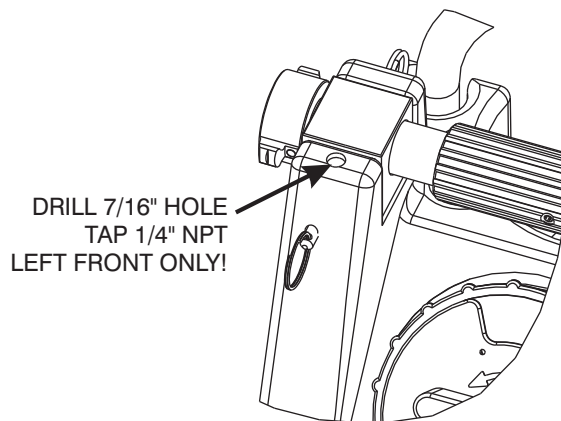


Figure 9.1

10.0 DRAWINGS AND PART LISTS

Exploded View Drawings and Part Lists available at tft.com/serial-number

11.0 OPERATION AND INSPECTION CHECKLIST

BEFORE EACH USE, the device must be inspected to this checklist:

1. All controls smoothly.
2. The waterway and agent passages are clear of obstructions.
3. There is no debris in the tank.
4. There is no damage to any thread or other type connection.
5. Gaskets are in good repair
6. There is no damage to the appliance (e.g., dents, cracks, corrosion, or other defects that could impair operation).
7. All swiveling connections rotate freely.
8. There are no missing parts or components.
9. Device is clean and all markings are legible.
10. There are no missing, broken, or worn lugs on couplings.

BEFORE BEING PLACED BACK IN SERVICE, the device must be inspected to this checklist:

1. The device is flushed and cleaned.
2. Agent in the tank, if applicable, is approved by the AHJ for storage in the unit.
3. All controls smoothly.
4. The waterway and foam passages are clear of obstructions.
5. There is no debris in the tank.
6. There is no damage to any thread or other type connection.
7. Gaskets are in good repair
8. There is no damage to the appliance (e.g., dents, cracks, corrosion, or other defects that could impair operation).
9. All swiveling connections rotate freely.
10. There are no missing parts or components.
11. Device is clean and all markings are legible.
12. There are no missing, broken, or worn lugs on couplings.



Equipment failing any part of the checklist is unsafe for use and must have the problem corrected before use or being placed back into service. Operating equipment that has failed the checklist is a misuse of this equipment.

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