ShieldSafe®
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SAFETYRIG™ MOBILE SAFETY SHOWER

INSTALLATION AND MAINTENANCE



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PRODUCT QUICK REFERENCE DATA

Please fill out the following information on your new ShieldSafe™ SafetyRig™ Mobile Safety Shower. This information will help us to further assist you and will speed our response time in providing technical support or parts and service.

Shower Model Number:_____

Serial Number:_____

Purchase Date:_____

Purchased From:_____

Ship Date:_____

Site Location:_____

Installation Location:_____

Project Name (if applicable):_____

PLEASE NOTE:
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1. GENERAL SAFETY

a. Installation of this equipment should meet all local and federal codes.

b. Prior to installation, a qualified safety supervisor should approve the location of the emergency safety equipment.

c. Never use this safety shower in a location with chemicals that have reactions that are accelerated by the addition of water.

d. Special attention should be given to meet ADA standards if necessary in this location.

e. It is recommended that all emergency safety shower and eyewash equipment in a specific location should be activated in the same manner. Emergency safety equipment should never be used as a substitute for proper personal protective equipment.

f. Employers are responsible for providing, and employees are responsible for wearing, personal protective equipment such as eye protection, face protection, and protective clothing, etc.

2. LOCATION

a. The location of the emergency shower should be accessible within no more than 10 seconds of a possible incident.

b. The equipment must be in the direct vicinity of, but out of the spray pattern of any caustics or strongly acidic materials. The emergency shower should be on the same work grade as the hazard and in an obvious location.

c. ANSI-compliant, symbol-based signage should be used to label the unit. The mechanism of operation must be distinctly labeled and visible and properly located in relation to the shower or eyewash it activates.

d. Access to the emergency shower must be free of obstructions, including heavily used pathways, that might delay the use of the shower.



DO NOT MOVE UNIT WHEN FILLED WITH WATER!

e. There should be adequate drainage in the space around and beneath the shower, particularly in environments where the water might freeze.

f. Electrical equipment or other equipment that is easily damaged by water or diluted chemicals should be taken into account when choosing the location for the emergency shower, or when placing such equipment near the shower. Care must be taken to ensure there is no electrocution hazard due to placement of equipment.

g. The water temperatures in all units must not surpass temperatures of 100 °F (37.8 °C) or fall below 60 °F (15.6 °C).

h. There must be a plan in place for completely removing any residual wastewater after the emergency shower has been used.

i. When the emergency shower is installed in an environment where freezing is possible, the shower must be appropriately sheltered, or a shower which is constructed to function in freezing environments must be installed.

j. When installing the emergency shower in environments where the tank water temperature may rise over 100 °F (37.8 °C), it should have a self-draining mechanism or be equipped with a water-cooling device.

3. ANCHORING

a. Ensure support legs are flat against the ground and that the unit is level.

4. INSTALLING SHOWER EQUIPMENT



DO NOT APPLY ELECTRICITY TO THE UNIT UNTIL THE WATER TANK IS FULL

a. Position unit in desired location with clear access. Do not fill the unit at this point. Water tank must be empty to move unit.

b. Fill the unit with water.



USING WATER THAT DOES NOT MEET REQUIREMENTS BELOW WILL VOID WARRANTY.

c. The tank water must be a pH of 6.5-8.0, with a hardness (total) less than 500 mg/L and a TDS (conductivity) less than 1,500 mhos/cm. Water should also contain no algae or coliform bacteria.

d. Connect incoming power supply to power junction box. Ensure that the power supply is of the correct voltage and AMP rating.

e. Connect pressure regulator to high pressure Nitrogen tank. An air compressor may be used if constant pressure is available. WARNING! DO NOT ADJUST REGULATOR PRESSURE. DO NOT ATTACH AIR SUPPLY DIRECTLY TO PUMP.

f. Open valve to the pneumatic pump to begin pumping water from the lower tank to the upper tank.

g. Close valve to the pneumatic pump when water begins to drain from the overflow inside the shower area.

h. Flush out the unit with water to test for leaks that could develop in rough shipping.

i. If fitted - Connect alarm circuit(if installed) to alarm junction box. The alarm is activated by switches on the safety shower and vAdd ShieldSafe WaterGuard™ to tank to maintain water in safe condition for the two year life of the WaterGaurd. Replace every two years.

j. Test the shower and eyewash to ensure proper operation. See shower/eyewash initial set-up instructions later in this manual

k. If needed, the eyewash flow can be adjusted by using the flow control mechanism located on the right side of the eyewash.

l. After testing and flushing, top off water tank.

m. Add ShieldSafe WaterGuard™ to tank to maintain water in safe condition for the two year life of the WaterGaurd. Replace every two years.

n. Contact ATS if you have any questions about the shower and eyewash or their function at 800.747.9953.

5. ELECTRICAL SUPPLY

a. An appropriate circuit breaker should be used when connecting the unit.

b. Ensure that all applicable codes are followed.

c. The electrical supply fitting should be a connection through a lock-on switch that allows electricity to be turned off only when maintenance is being performed. Such connections should be labeled as such with permanent tags affixed.

NOTE: *The responsibility of ensuring that qualified personnel perform all electrical equipment installations and that such installations conform to local and national guidelines and standards falls on the installer. Failing to follow such guidelines and standards causes the warranty for this product to be voided.*

d. Do not run immersion heater without water in the tank.

6. TRAINING

All employers are responsible to make sure that complete training with regard to health and safety at work is provided to their employees. *(See Appendix for Safety Shower Poster or download at ATSShieldSafe.com/safety-shower-poster/)*

7. GENERAL MAINTENANCE

a. Weekly

1. Weekly activation tests of self-contained safety showers and eye washes are not required by the ANSI-standard.

2. Verify sufficient quantity of water in the feeder tank for one full treatment, by opening valve to the pneumatic pump until water drains from overflow in shower area. The eyewash may be tested by pushing down the protective activation cover. Adjust the flow as needed by turning the small, black flow adjustment mechanism on the right side of the eyewash. If either or both nozzles happen to be even partially-blocked, unscrew the nozzle mesh and clean it thoroughly with a tooth brush and potable water. Reinstall the nozzle mesh.

3. Check the area around the equipment to ensure that no tripping hazard exists. If one exists, report it immediately to the appropriate supervisor and attempt to remove the hazard.

4. Clean up any water spilled onto the floor in the testing process so as not to create a slip hazard.

b. Six Months

1. If you have not regularly cleaned the equipment, and dust or other unwanted substances have accumulated on the equipment, be sure to clean it off and disinfect the area with a non-abrasive disinfectant cleaner. Check the inside and outside of the unit for such substances.

2. Clean the shower walls (if needed) with a non-abrasive cleaner and polish with a dry cotton cloth.

3. Clean the eyewash with a non-abrasive cleaner.

4. Remove overhead shower rose, inspect, and disinfect the rose with disinfecting cleaner by completely submersing the rose in the disinfecting solution.

5. Check all fasteners, ensuring that they are appropriately tight.

6. Check all electrical connections to ensure the are safe and that no connections or wiring is worn or frayed.

c. Annually

1. Empty the water tank.

2. Remove ShieldSafe WaterGaurd™.

3. Clean the inside of the tank with a disinfecting cleaner such as the ATS Huwa-San Disinfectant. A pressure washer with a non-abrasive solution may be used for this procedure, although care must be taken to keep the nozzle at least 12 inches from any surface.

4. Flush or rinse any cleaning solutions or products from the tank using the 2-inch manual drain.

5. Refill tank with potable/drinking water as per ANSI standard.

NOTE: ***ATS recommends the use of ShieldSafe WaterGuard™ optional product that eliminates harmful bacteria buildup in your tank water (See WaterGuard later in this manual).***

6. Replace ShieldSafe WaterGaurd™ anti-bacterial water treatment. If the old treatment is not attached to piping, simply remove it with a pair of gloves and discard as indicated in the manufacturer's instructions. If the filter is zip-

tied to piping, use wire cutters or comparable tool to cut the zip-tie, making sure not to cut anything else, and discard appropriately. Do not leave cut pieces of zip ties in tank.

d. If ShieldSafe WaterGaurd™ is not used, the water within the emergency shower and eyewash should be analyzed and replaced periodically to make certain no harmful bacteria builds up in the water.

NOTE: ***It is essential that records of all activation tests and visual checks be kept to prove compliance with ANSI standards. (See Appendix for Activation Test Checklist.) ANSI Standards change from time to time. Visit ATSShieldSafe.com to register to be kept up-to-date.***

e. and is in the closed position.

8. OPERATING INSTRUCTIONS

a. Supplied tank or compressed air connected to the pressure regulator.

b. To operate the shower, push the crash bar down. Remote/local alarms will be activated if installed.

c. To deactivate shower, lift the crash bar up to its original posisiton. This will also de-activate any alarms.

d. To activate the eyewash lift the protective activation cover. Remote/local alarms will be activated if installed.

e. The flow rate on the eyewash can be adjusted by turning the black activation mechanism on the right side of the eyewash.

f. To turn off eyewash, close the lid. Remote / local alarms will also be de-activated if installed.

g. Flexible handheld Eyewash (if installed). Pull separate pull handle down to operate. Push up to turn off.

h. After use seek medical assistance.

i. For any help or advice, please contact the maintenance department at Alpine Technical Services at 800.747.9953.

9. REPAIRS

a. While the unit is extremely durable, replacement parts can be ordered. See parts list later in this manual.

b. The specific parts manuals should be followed for applicable maintenance.

c. A full test of operation and readjustment of flow regulator may be required after any repair work has occurred.

CAUTION: *The area that the emergency shower services must be free of any other activities when maintenance and servicing of the shower occurs. Maintenance and servicing of the shower must only be completed by trained personnel possessing in-depth knowledge of the emergency equipment.*

d. Using suitable equipment, it is recommended to capture any discharged water that has the potential to freeze on the ground and create a hazard when outdoor units are flushed in freezing conditions.

10. SCREWPLUG IMMERSION HEATER (IF INSTALLED)

OPERATION

a. Do not operate heaters at voltages in excess of that stamped on the heater since excess voltage will shorten heater life.

b. Always maintain a minimum of 2" of water above the heated portion of the element to prevent exposure of the effective heated length. If the heater is not properly submerged, it may overheat and shorten heater life. DO NOT OPERATE HEATER IF DRY.

c. Be sure all trapped air is removed from a closed tank. Bleed the air out of the liquid piping system and heater housing prior to energizing. Note: The tank or heating chamber in closed tank systems must be kept filled with liquid at all times.

d. Keep heating elements above sediment deposits.

e. Low Megohm Condition—The refractory material used in electric heaters may absorb moisture during transit or when subject to a humid environment. This moisture absorption results in a cold insulation resistance of less than twenty megohms. Normally this megohm value corrects itself after heat-up and does not affect heater efficiency or life.

A low megohm condition can easily be corrected by removing the terminal hardware and terminal enclosure and baking the heater in an oven at 350 °F to 700 °F for several hours, preferably overnight. Note: The lid from an E-2 housing may also have to be removed.

An alternate procedure is to energize the heaters at low voltage until the megohm reading returns to normal. When energizing heaters in air, the sheath temperatures should not exceed 400 °F for copper and 750 °F for steel and stainless steel.

MAINTENANCE



HAZARD OF SEVERE SHOCK. DISCONNECT ALL POWER TO HEATER BEFORE SERVICING OR REPLACING HEATERS.

f. Heaters should be checked periodically for coatings and corrosion and cleaned if necessary.

g. The tank should be checked regularly for sediment around the heater as sediment can act as an insulator and shorten heater life.

h. Remove any accumulated sludge deposits from heater and tank. Check for loose terminal connections and tighten if necessary.

i. If corrosion is indicated in the terminal housing, check terminal box gasket and replace if necessary. Check conduit layout to correct conditions that allow corrosion to enter the terminal housing.

j. Clean terminal ends of all contamination.

Part	Part No.
0 -127 °F Thermostat	ATS-PS1035
Terminal Cover	ATS-PS1036
Bx Bracket	ATS-PS1037
Base (Cup Assy .)	ATS-PS1038

11. SPARE PARTS

SPARE PART	PRODUCT CODE	PART NO.	PRICE
Immersion Heater	ATS-PS1002	ARTM1250E2T8	$660
Level Switch	SS-O-L2	M5602	$675
Eyewash Station	ATS-PS1018	34RT63	$944
Shower Head	ATS-PS1015	5341T15	$340
Shower Valve	ATS-PS1131	G0969211	$200
Interior Light	ATS-PS1005	LLEDA15LU2C	$1,200
Exterior Light	ATS-PS1006	EF1A-12W-N1	$2,208
Breaker	ATS-PS1007	8562/51-1430-200	$600
Breaker	ATS-PS1008	8562/51-1430-100	$600
Go Switches	ATS-PS1009	73-13563-A5	$664
Hi Dump Valve	ATS-PS1135	3/4-SPB-100	$100
Low Dump Valve	ATS-PS1133	3/4-SPB-40	$100
Space Heater	ATS-PS1019	XB34150T3B11RT	$3,376
Pneumatic Air Pump	ATS-PS1010	661AX-X-C	$1,600

MAINTENANCE

a. Periodically inspect the heater installation to ensure that all connections, fittings, plugs, screws, covers, etc. are tight and free of corrosion.

b. Check that the reflector baffles (if required) have not moved upwards or downwards in relation to the heat sink.

c. Check the extrusions of the heater for dust and debris. A blast of compressed air is recommended for cleaning the heat sink. If air is not available, disconnect the power supply to the heater and when cool, wipe it down with a damp cloth or soft brush. Remove wire guards before cleaning.

d. The heat sink is anodized or painted black to ensure that the maximum area code temperature is not exceeded. After an extended period of use, or in extremely harsh environments, the anodization/paint may wear away leaving bare surfaces. For continued safe operation, these surfaces must be repainted. When repainting use only black high-temperature resistant paint.

e. Except for thermostat replacement, field repair of the heater shall not normally be undertaken. In the event that the heater must be repaired, contact the factory for a return authorization number.



DISCONNECT POWER FROM THE HEATER BEFORE PERFORMING ANY MAINTENANCE. FAILURE TO DO SO CAN RESULT IN PROPERTY DAMAGE, INJURY, OR DEATH.



DO NOT USE WATER TO CLEAN HEATER.

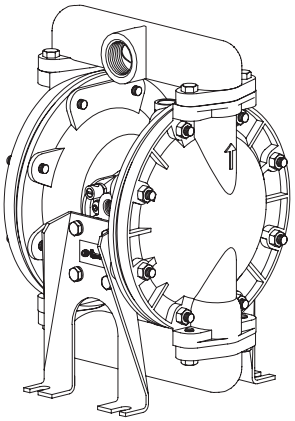
Voltage	Thermostat Part No.
One Phase Heaters	ATS-PS1033
Three Phase Heaters	ATS-PS1034

12. PNEUMATIC PUMP INSTRUCTIONS AND MAINTENANCE (IF INSTALLED)

OPERATING AND SAFETY PRECAUTIONS

- EXCESSIVE AIR PRESSURE. Can cause personal injury, pump damage or property damage.
- Do not adjust regulated inlet air pressure.
- Be sure material hoses and other components are able to withstand fluid pressures developed by this pump.
- Check all hoses for damage or wear. Be certain dispensing device is clean and in proper working condition.
- STATIC SPARK. Can cause explosion resulting in severe injury or death. Ground pump and pumping system.
- Sparks can ignite flammable material and vapors.
- The pumping system and object being sprayed must be grounded when it is pumping, flushing, recirculaing or spraying flammable materials such as paints, solvents, lacquers, etc. or used in a location where surrounding atmosphere is conducive to spontaneous combustion. Ground the dispensing valve or device, containers, hoses and any object to which material is being pumped.
- Use the pump grounding screw terminal provided. Use ground kit or connect a suitable ground wire (12 ga. minimum) to a good earth ground source.
- Secure pump, connections and all contact points to avoid vibration and generation of contact or static spark.
- Consult local building codes and electrical codes for specific grounding requirements.
- After grounding, periodically verify continuity of electrical path to ground. Test with an ohmmeter from each component (e.g., hoses, pump, clamps, container, spray gun, etc.) to ground to insure continuity. Ohmmeter should show 0.1 ohms or less.

ATS-PS1109



Pump Type

Metallic Air Operated Double Diaphragm

Standard Diaphragm

0.16 gal. (0.60 lit.)

Acetal

10^0 to 180^0 F (-12^0 to 82^0 C)

- Submerse the outlet hose end, dispensing valve or device in the material being dispensed if possible. (Avoid free streaming of material being dispensed.)
- Use hoses incorporating a static wire.
- Use proper ventilation.
- Keep inflammables away from heat, open flames and sparks.
- Keep containers closed when not in use.
- Pump exhaust may contain contaminants.
- Can cause severe injury. Pipe exhaust away from work area and personnel.
- In the event of a diaphragm rupture, material can be forced out of the air exhaust muffler.
- Pipe the exhaust to a safe remote location when pumping hazardous or inflammable materials.
- Use a grounded 3/8” minimum i.d. hose between the pump and the muffler.
- HAZARDOUS PRESSURE. Can result in serivous injury or property damage. Do not service or clean pump, hoses or dispensing valve while the system is pressurized.

- Disconnect air supply line and relieve pressure from the system by opening dispensing valve or device and / or carefully and slowly loosening and removing outlet hose or piping from pump.

- HAZARDOUS MATERIALS. Can cause serious injury or property damage. Do not attempt to return a pump to the factory or service center that contains hazardous material. Safe handling practices must comply with local and national laws and safety code requirements.

- Obtain Material Safety Data Sheets on all materials from the supplier for proper handling instructions.

- EXPLOSION HAZARD. Models containing aluminum wetted parts cannot be used with 1,1,1-trichloroethane, methylene chloride or othe halogenated hydrocarbon solvents which may react and explode.

- Check pump motor section, fluid caps, manifolds and all wetted parts to assure compatibility before using with solvents of this type.

- Verify the chemical compatibility of the pump wetted parts and the substance being pumped, flushed or recirculated. Chemical compatibility may change with temperature and concentration of the chemical(s) within the substances being pumped, flushed or circulated. For specific fluid compatibility, consult the chemical manufacturer.

- Maximum temperatures are based on mechanical stress only. Certain chemicals will significantly reduce maximum safe operating temperature. Consult the chemical manufacturer for chemical compatibility and temperature limits.

- Be certain all operators of this equipment have been trained for safe working practices, understand it's limitations, and wear safety goggles / equipment when required.

- Do not use the pump for the structural support of the piping system. Be certain the system components are properly supported to prevent stress on the pump parts.

- Suction and discharge connections should be flexible connections (such as hose), not rigid piped, and should be compatible with the substance being pumped.

- Prevent unnecessary damage to the pump. Do not allow pump to operate when out of material for long periods of time.

- Disconnect air line from pump when system sits idle for long periods of time.

GENERAL INFORMATION

The diaphragm pump offers high volume delivery even at low air pressure and a broad range of material compatibility options available. Refer to the model and option chart. Air operated double diaphragm pumps utilize a pressure differential in the air chambers to alternately create suction and positive fluid pressure in the fluid chambers, valve checks insure a positive flow of fluid. Pump cycling will begin as air pressureis applied and it will continue to pump and keep up with the demand. It will build and maintain line pressure and will stop cycling once maximum line pressure is reached (dispensing device closed) and will resume pumping as needed.

AIR AND LUBE REQUIREMENTS

- EXCESSIVE AIR PRESSURE. Can cause personal injury, pump damage or property damage.

- A filter capable of filtering out particles larger than 50 microns should be used on the air supply. There is no lubrication required other than the "O" ring lubricant which is applied during assembly or repair.

- If lubricated air is present,makesure that it is compatible with the "O" rings and seals in the air motor section of the pump.

OPERATING INSTRUCTIONS

- Always flush the pump with a solvent compatible with the material being pumped if the material being pumped is subject to "setting up" when not in use for a period of time.
- Disconnect the air supply from the pump if it is to be inactive for a few hours.
- The outlet material volume is governed not only by the air supply, but also by the material supply available at the inlet. The material supply tubing should not be too small or restrictive. Be sure not to use hose which might colapse.
- When the diaphragm pump is used in a forced-feed (flooded inlet) situation, it is recommended that a "Check Valve" be installed at the air inlet.
- Secure the diaphragm pump legs to a suitable surface to insure against damage by vibration.

MAINTENANCE

- Provide a clean work surface to protect sensitive internal moving parts from contamination from dirt and foreign matter during service disassembly and reassembly.
- Keep good records of service activity and include pump in preventive maintenance program.
- Before disassembling, empty captured material in the outlet manifold by turning the pump upside down to drain material from the pump.

TROUBLESHOOTING

Product discharged from exhaust outlet.

- Check for diaphragm rupture.
- Check tightness of diaphragm nut.

Air bubbles in product discharge.

- Check connections of suction plumbing.
- Check "O" rings between intake manifold and fluid caps.
- Check tightness of diaphragm nut.

Low output volume, erratic flow, or no flow.

- Check air supply.
- Check for plugged outlet hose.
- Check for kinked (restrictive) outlet material hose.
- Check for kinked (restrictive) or collapsed inlet material hose.
- Check for pump cavitation – suction pipe should be sized at least as large as the inlet thread diameter of the pump for proper flow if high viscosity fluids are being pumped. Suction hose must be a non-collapsing type, capable of pulling a high vacuum.
- Check all joints on the inlet manifolds and suction connections. These must be air tight.
- Inspect the pump for solid objects lodged in the diaphragm chamber or the seat area.

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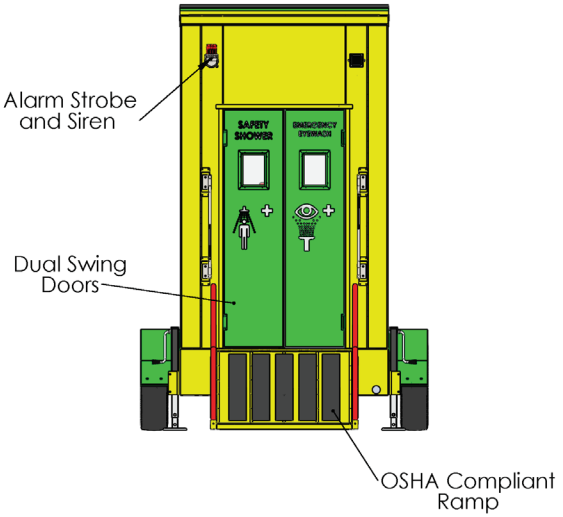


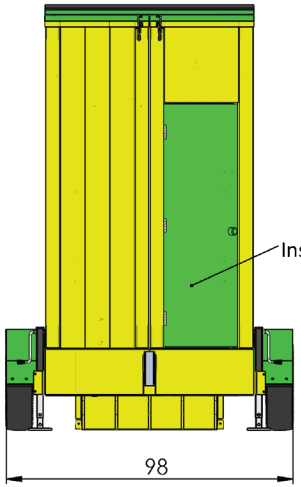
SafetyRig Safety Trailer

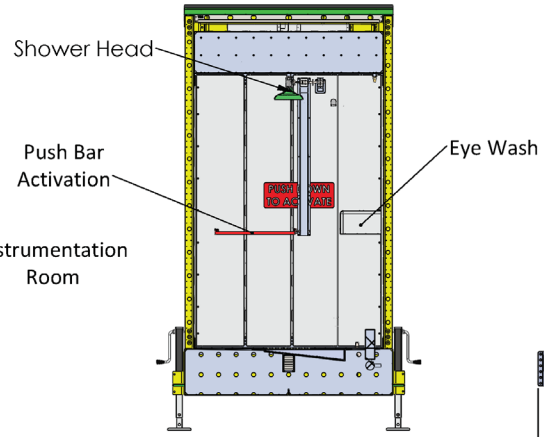
For use in Class 1 - Division 2, Grps:B, C, D - Temperature code T3 locations. Standrad hitch receptical for brakes and signaling lights. Push bar activation for ease of use. Separate privacy room enclosed within.

Dry Weight: 6500 LBs

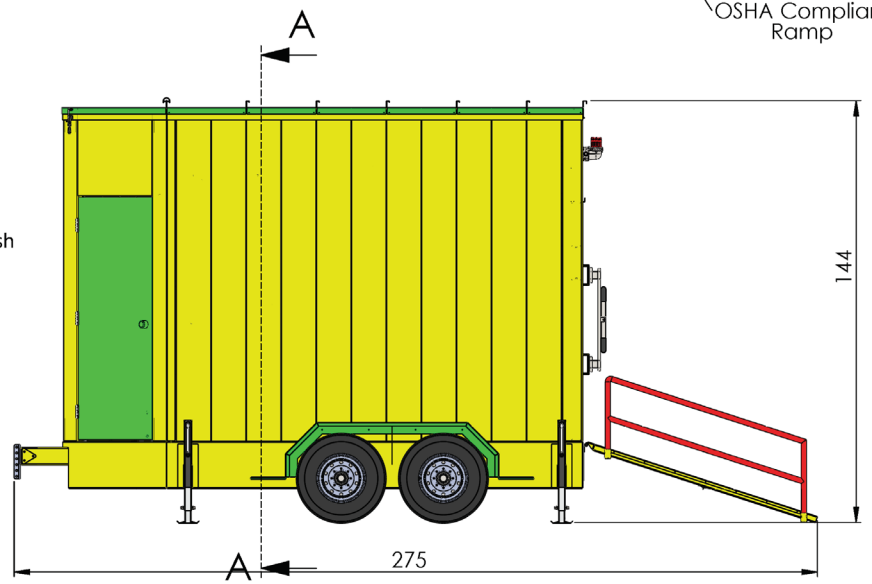
Full Weight: 11000 LBS [550 USG of water MAX]







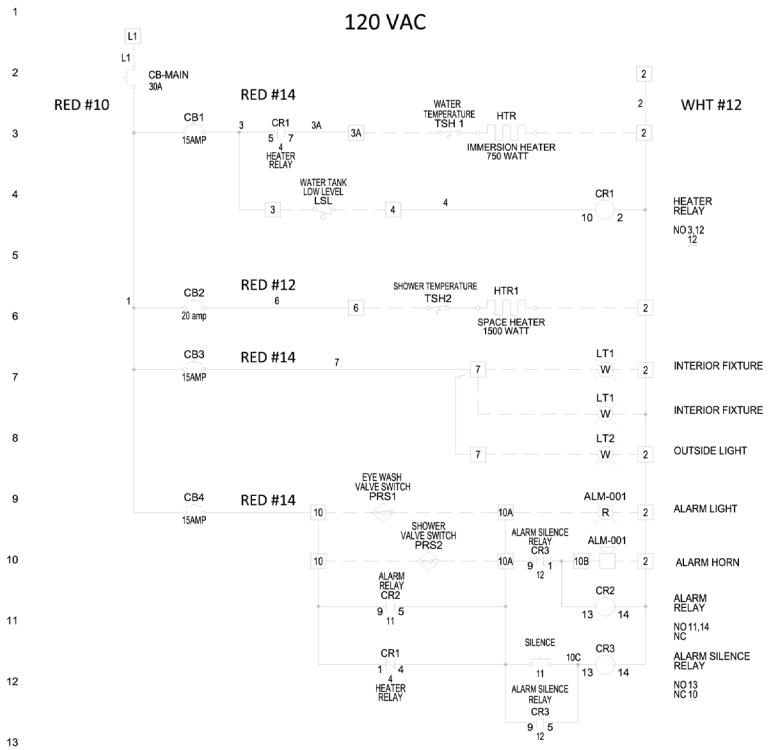
SECTION A-A
SCALE 1 : 40



REV
A

DO NOT SCALE DRAWING SCALE: 1:40 SHEET 1 OF 1

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CLASS 1 DIV 2 - SAFETY RIG			
ITEM	QTY	DESC	PART NUMBER
1	1	ENCLOSURE W/ DOOR - NEMA 4	ATS-PS1105
2	1	BACK PANEL - INCLUDED ABOVE	
3	1	SMALL DANGER SIGN	ATS-PG1044
4	1	RELAY 3PDT CLASS 1 DIV 2- 120 VAC	ATS-PS1111
5	1	RELAY SOCKET	ATS-PS1120
6	2	RELAY 4PDT CLASS 2 DIV 2 -120 VAC	ATS-PS1121
7	2	RELAY SOCKET	ATS-PS1122
8	1	CIRCUIT BREAKER CLASS 1 DIV 2 30 AMP - Main CB	ATS-PS1124
9	1	CIRCUIT BREAKER CLASS 1 DIV 2 20 AMP - CB2	ATS-PS1123
10	3	CIRCUIT BREAKER CLASS 1 DIV 2 15 AMP - CB1, CB3, CB4	ATS-PS1125
11	1	PUSH BUTTON BLACK INO-INC - CLASS 1 DIV 2	ATS-PS1119
12	2	END STOP	ATS-PS1009
13	20	UNIVIERSAL TERMINAL BLOCK	ATS-PS1003
14	1	END BLOCK	ATS-PS1126
15	1	GROUND LUG 14~6AWG	ATS-PS1015
16	1	GROUND BUS BAR	ATS-PS1118
17	1	WIRE DUCT	ATS-PS1025
COMPONENTS MOUNTED IN/ON SHOWER			
18	1	IMMERSION HEATER - 750 WATT 120 VAC - C1D2	ATS-PS1001
19	1	EXTERIOR FLOOO, LIGHT - C1D2 -26W	ATS-PS1126
20	1	WALL MOUNTIING BRACKET	ATS-PS1021
21	1	ALARM LIGHT - CLI DIV2 RED STROBE	ATS-PS1114
22	1	MOUNTING BRACKET	ATS-PS1112
23	1	MOUNTING BOX	ATS-PS1113
24	1	ALARM HORN	ATS-PS1115
25	2	INTERNAL LIGHT FIXTURE	ATS-PS1018
26	2	GO LIMIT SWITCH MODEL 73 C1D2 - 12' CABLE	ATS-PS1096
27	1	SPACE HEATER w/THERMOSTAT - 1500 watt C1D2	ATS-PS1116
28	1	FLOAT LEVEL SWITCH	ATS-PS1117
29			
30			

PLOT TIME: 10/23/2018 3:11 PM Z:\ATS SHOWERS\ATS SAFETY RIG C1D2 - 2272030\Drawings\EMERGENCY SHOWER C1D2.dwg SAVE TIME: 10/23/2018 3:06 PM

REV. No.	DATE	REVISION DESCRIPTION
A	8/1/2018	RELEASE FOR FABRFICATION

ATS SMART SOLUTIONS
601 WEST 6825 SOUTH
MIDVALE, UT 84047
801 255-5336

PROJECT NAME / ADDRESS: Safety Rig C1D2 Galvanized Steel Gravity-fed Cubicle Safety Shower/Eyewash

DRAWING No.:
PROJECT No.: 2272030
PROJECT ENGINEER: DAVE ZWAHLEN
DESIGNER/ENG.: DAVE ZWAHLEN
CUSTOMER: CaRa VALENTE LLC PLEASANT GROVE, UT

TITLE: EMERGENCY SHOWER WIRING DIAGRAM CLASS 1 DIV 2

DATE: 10/23/2018 SHEET: 2 OF 2 REV.: A

15. SAFETYRIG™ WARRANTY

a. Alpine Technical Services, LLC warranties the SafetyRig™ Mobile Safety Shower and the respective original equipment manufacturers of the SafetyRig's components for a period of 18 months from the date of shipment or 12 months from the date of start-up or (beneficial use by the owner) whichever comes first.

b. This warranty covers failures due to defects in materials and workmanship only. Failures due to improper use, abuse, physical damage, utility surge or acts of nature are not covered. Warranty is void if tank water is not maintained within the following ranges: pH of 6.5-8.0, hardness (total) less than 500 mg/L, and TDS (conductivity) less than 1,500 mhos/cm. Tank water must also contain no presence of algae or coliform bacteria.

c. In the event of a failure of an individual component, Alpine Technical Services working with the equipment manufacturer will replace or repair the equipment (at its sole discretion). Replaced or repaired equipment will be covered by this same warranty until the expiration thereof. Replacement or repair of equipment does not reset the warranty period.

d. Repairs or modifications to the equipment by anyone other than Alpine Technical Services, LLC or its designees will void the warranty entirely.

e. Warranty coverage is limited to the value of the replacement or repair of the equipment supplied by Alpine Technical Services, LLC and in no way implies coverage of any other costs associated with the failure or loss of use of the equipment.

16. DISCLAIMER

Except as expressly set forth herein, Alpine Technical Services, LLC makes no representations, warranties, or guarantees, either expressed or implied, by or concerning any content of this manual or the design, compliance with specifications, operation, or condition of any equipment (or any part thereof), or for issues regarding patent infringement, title, and the like. In no event shall Alpine Technical Services, LLC be liable for any implied warranty of merchantability or fitness for any particular purpose or for any consequential, incidental, special, or indirect damages arising from the use or inability to use this manual or the equipment, or for any damages based on strict or absolute tort liability. Use of equipment shall be wholly at the risk of the user. Alpine Technical Services, LLC shall not be liable for any failure of any equipment, unless otherwise expressly set forth herein. In no case shall Alpine Technical Services, LLC be liable in the event the equipment is installed or used incorrectly.

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APPENDIX A
OPTIONAL SAFETY EQUIPMENT

The following equipment can be purchased in relation to the SafetyRig™ Mobile Safety Shower. These safety products will add an additional layer of safety for your employees while increasing your plant's overall environmental safety.

Please review the following safety products.

The PermaTote
Reduces the risk of chemical spills and potentially hazardous cleanups.

Containment Berm
Provides the ultimate chemical spill protection—even protecting against an unlikely catastrophic tote failure.

Tank Shower Filtration System
Prevents tank debris from fouling the eyewash and shower, which can further contribute to the severity of eye or skin injuries.

WaterGuard™
Prevents the buildup of harmful bacteria in the water tank and lines that cause Legionnaires' Disease.

To purchase these products or for more information

Call 800.747.9953

PERMA™ TOTE



PermaTote™ creates the "chemical well" that never runs dry. Never get caught short on chemistry again! See how you can get a PermaTote system at no cost.

To Order Call: 800.747.9953

PERMA-TOTE

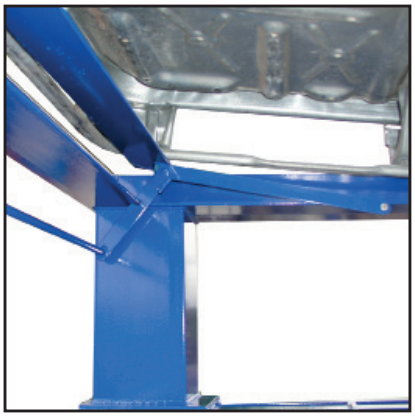
PermaTote Improves Your Chemical Experience

The PermaTote has a 330-gallon capacity equivalent to up to six 55-gallon drums. This permanently stationary, stackable configuration minimizes inventory storage (uses less floor space) and ensures you always have a full tote.

PermaTote Improves Your Chemical Experience

- Never unexpectedly run out of chemistry again.
- Reduce the risk of hazardous and costly chemical spills.
- Stackable totes use less floor space.
- Sturdy construction assures durability throughout the years.
- Quick Connect feature allow for fast tote replacement.
- Tilt option provides complete drainage of upper tote.
- Optional berm protects from unforeseen spills.
- Cold weather blankets keep chemistry protected and flowing.

PermaTote's gravity-fed transfer system includes hose and quick connect fittings for seamless top-to-bottom chemical transfer.



Tote Tilt Option

The tilt lever is easily engaged when a nearly empty tote is ready for draining. The lift arm swings into place and locks, keeping the upper tote tilted until it has completely drained into the bottom tote.



Easy to Fill

PermaTote's gravity-fed transfer system includes hose and quick connect fittings for seamless top-to-bottom chemical transfer.

CONTAINMENT BERM



Prevent Costly Chemical Spills

Provides the ultimate safety against dangerous and costly chemical spills. A must for your most toxic chemicals, this berm can safely contain even the largest spills, including catastrophic tote failure. This environmentally safe berm brings total corporate peace of mind.

The cleanup cost spent on a single chemistry spill can easily pay for many preventative safety berms.



The Complete System

The Complete Safe Chemical System includes the stackable PermaTote frame with the quick release connections and hoses, the tilt feature for complete chemistry drainage, and the fail-safe berm that protects the environment from unforeseen chemical incidents.

This berm is extremely durables in all weather conditions—providing years of protection. The confidence of ShieldSafe's containment berms bring years of corporate peace of mind.

To Order Call: 800.747.9953

TankGuard™

Tank debris can make chemical accidents worse by increasing the severity of eye and skin injuries, further complicating already dangerous situations. Don't let your eyewash and shower get fouled or plugged. Add this optional water filter package to protect your equipment and your employees.



TankGuard with water softening cartridge.

Water Softner and Filtration Tank System

A safety shower requires clean, soft water to operate effectively and safely. Water that is not properly filtered and conditioned can lead to corrosion and failure of the equipment. Unclean water can also cause additional injury and infection for accident victims using the safety shower. It is recommended that water be a pH of 6.5-8.0, with a hardness (total) less than 500 mg/L and a TDS (conductivity) less than 1,500 mhos/cm. Water should also contain no algae or coliform bacteria.

The TankGuard System

The TankGuard system uses an ingenious methodology to lower the pH level of water in the tank through a process of chelation. In this process, the metal ions that cause hard water (primarily calcium and magnesium) are bound to the chelating agent in TankGuard. This FDA-approved, proprietary technology keeps the minerals soluble and unable to cause hard water problems. The resulting water is soft and healthy, and offers added protection to our gravity-fed safety showers.

- Size: 5" x 14"
- Weight: 4.5 lbs
- Water Flow: 12-15 GPM with 3/4" ports (no change to existing water flow)
- Capacity: Approximately 20,000 gallons per cartridge
- Uses 2" x 10" replacement cartridges



TankGuard with water debris filtration.

Ultimate Protection

ShieldSafe's filtration system provides an additional line of defense, to assure your employees you have taken every precaution for their ultimate protection.

To Order Call: 800.747.9953

WATERGUARD

WATERGUARD™

WaterGuard uses a recently developed active ceramic specially designed to destroy deadly bacteria including:

- Legionella
- E. Coli
- Pseudomonas
- Stanphaureus
- Entero. Aerogenes
- Salmonella Typhi

When immersed in water these 'active ceramics' display physical properties of semiconductivity, magnetic properties, and light emission (in the far infrared spectrum).

History

The first identified outbreak of Legionnaires Disease occurred during a Pennsylvania State Convention of the American Legion in 1976. 182 cases resulted in 34 deaths. In recent years the majority of outbreaks are associated with buildings such as hotels, factories, hospitals, nursing homes and office blocks.

How it Works

Bacteria are attracted by the chemical activity and extensive substrate of the active ceramics where they attach themselves to the surface. There the products of the electrolytic process destroy the D.N.A. and/or the membrane enveloping the cell, whereupon their ability to thrive and reproduce is ended.

Safety Shower Tank Protection

WaterGuard removes the risk of Legionella but also enables the risk-free storage of water at a higher temperature than would otherwise have been possible. This in turn gives the massive benefit that accident victims may use the tank shower for longer periods at a warmer temperature before the water replenishment system lowers the overall temperature as it refills the tank.

- Prevents Legionella infestation
- Enables water storage at higher temperature
- Saves money by drastically reducing maintenance

Be Confident That Your Tank Water is Safe.

One treatment with WaterGuard protects emergency tank showers for up to two years. With ShieldSafe's Auto-Protect Program, your company automatically receives new replacement cartridges as your current cartridges expire. The Auto-Protect Program assures that employees are continuously protected from dangerous bacteria growing in the tank.

To Order Call: 800.747.9953



Refer to the Safety Data Sheet (SDS) on the following pages

WATERGUARD SDS

REVISED: May 2017

SAFETY DATA SHEET
ALPINE TECHNICAL SERVICES, 601 West 6825 South, Midvale, UT 84047 • 855-255-5336 • Sales@ATSSmartSolutions • ATSSmartSolutions.com

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	WATERGUARD
Chemical Family:	Aluminium Oxide Al2O3, Amorphous Silica SiO2, Titanium Dioxide TiO2, Zirconium Dioxide ZrO2, Ceramic, Silver Ag, Copper Cu.
Recommended Use:	Control of pathogenic bacteria in water systems.
Distributed by:	Alpine Technical Services, 601 West 6825 South, Midvale, UT 84047
Telephone:	801-255-5336
Fax:	801-255-0486

FOR CHEMICAL EMERGENCY, CALL CHEM-TEL AT 1-800-255-3924

SECTION 2: HAZARDS IDENTIFICATION

CHEMICAL COMPOSITION
As shown in Section 1. above under CHEMICAL NAMES.
GENERAL CHARACTERISTICS
A mixture of white and brown spheres and a woven matrix of silver coated wire contained in a slotted PVC tube. Non-flammable, non-volatile, non-corrosive. Becomes active in water in a way beneficial to human health
CLASSIFICATION
Non-corrosive solid

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CLASSIFICATION
Not Applicable
RISK PHRASES
Not Applicable
SAFETY / HAZARD PHRASES
Not Applicable
OTHER
Non-flammable but PVC of outer tube can cause hazard when subjected to fire through other means. This would only be possible prior to or after use, i.e. in the transport, handling, and storage phases.

SECTION 4: FIRST AID MEASURES

HEALTH EFFECTS
None
ACUTE EFFECTS
None
SWALLOWED
Not Applicable
EYE
Not Applicable
SKIN
Would only be a problem if significant amount of dust occurs, which is extremely unlikely.

SAFETY DATA SHEET

ALPINE TECHNICAL SERVICES, 601 West 6825 South, Midvale, UT 84047 • 855-255-5336 • Sales@ATSSmartSolutions • ATSSmartSolutions.com

INHALED
Would only be a problem if significant amount of dust occurs, which is extremely unlikely.
CHRONIC EFFECTS
No information available.
FIRST AID
SWALLOWED
Not applicable to finished product. A large amount of dust would need to be swallowed to cause any health problem at which point a doctor should be consulted.
EYE
Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open while washing. If pain persists seek immediate medical assistance.
SKIN
Remove any contaminated clothing and wash the area of skin contact with soap or soft detergent along with sufficient amount of water for 15 minutes. Completely wash and dry contaminated clothes before re-using.
INHALED
Remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing labored ensure airways are clear and administer oxygen. If breathing has stopped apply artificial respiration at once. Seek immediate medical assistance.
ADVICE TO DOCTOR
Treat symptomatically

SECTION 5: FIRE FIGHTING MEASURES

GENERAL
No fire hazard unless outer tube is subjected to fire from other source. If subjected to fire, wear NIOSH approved positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing. Evacuate all personnel from danger area. Use dry chemical, foam, water, or carbon dioxide to extinguish fire.
FIREFIGHTERS
Firefighters to wear self-contained breathing apparatus and full protective clothing when fighting fire
GENERAL
Will not continue to burn after ignition without an external fire source. When forced to burn the major gaseous products of combustion of PVC are carbon monoxide, carbon dioxide, and hydrogen chloride. Move products out of fire area if safe to do so. Cool outer tube if feasible. Stay upwind of fumes, keep out of low areas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Not Applicable as only solids involved.

SECTION 7: HANDLING AND STORAGE

HANDLING
Unclassified.
STORAGE
Store in a dry, well-ventilated place.

SAFETY DATA SHEET

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

LONG TERM EXPOSURE LIMITS
Not applicable.
EXPOSURE CONTROL
Avoid skin and eye contact and inhalation of dust.
Respiratory Protection
Protection only required if significant amounts of dust are given off by product, which is extremely unlikely.
Body Protection
Protection only required if significant amounts of dust are given off by product, which is extremely unlikely.
Eye Protection
Only required if significant amounts of dust are given off by product. Safety Glasses or goggles to EN 166
Hand Protection
Gloves only required if significant amounts of dust are given off by product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
White and brown spheres and sliver coated matrix contained in a slotted PVC tube. Non-flammable, non-volatile, non-soluble in liquid.
MELTING POINT
Not established – avoid subjecting to temperatures above 250°C
BOILING POINTS
Not Applicable
VAPOUR PRESSURE (20C)
Not Applicable
SPECIFIC GRAVITY (25C)
Not Applicable
FLASH POINT (OPEN CUP)
Not Applicable
EXPLOSION LIMITS
No data available
SOLUBILITY IN WATER
Non-Soluble in water
AUTOIGNITION TEMP
No data available
VAPOUR DENSITY
Not applicable
pH
7 ± 0.5
STORAGE COLOUR CODE
Not Applicable

SECTION 10: STABILITY AND REACTIVITY

STABILITY
Highly stable

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SAFETY DATA SHEET

REACTIVITY
Inert in the dry state. Oxidizing and local ionizing reaction when immersed in water.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING
Non-toxic

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY
Non-toxic when PVC container is disposed of in accordance with Local Regulations.

BIODEGRADABILITY
The PVC container is not biodegradable. The spheres are not biodegradable but can be beneficial to ecosystems.

BIOACCUMULATION
No data available

GENERAL
No ecological problems are expected when the product is handled and used with due care

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State or Local regulations. The PVC tube should be re-cycled whenever the facilities exist. After use, the spheres are not harmful to the environment.

SECTION 14: TRANSPORT INFORMATION

This product is not considered Dangerous for the purposes of the International Regulations for Transport.

SECTION 15: REGULATORY INFORMATION

No data Available.

SECTION 16: OTHER INFORMATION

All information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable; however, it is the user's responsibility to determine the safety, toxicity, and suitability for their own use of the product described herein. Since actual use by others is beyond our control, no guarantees, expressed or implied, are made by Alpine Technical Services and its representatives as to the effects of such use, the results to be obtained or the safety and toxicity of the product, nor does Alpine Technical Services or its representatives assume any liability arising out of the use by others of the product referred herein. The information herein is not be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws of government regulations. Wear self-contained breathing apparatus and protective suit.

APPENDIX B
SET-UP & MAINTENANCE CHECKLIST

Just one minor accident...and you can have corporate, state, and even federal agencies scouring your records. Poorly kept records can result in costly fines and even litigation. Keeping records of your regularly scheduled maintenance protects your employees and your corporate entity.

This thorough and easy-to-use checklist helps you to continually review the status of your on-site emergency safety equipment.

Please feel free to make copies for individual site inspections and keep these documents as further proof of on-site safety procedures.

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SHOWER/EYEWASH INITIAL SET-UP

Shower Model Number:_____Serial Number:_____

Purchase Date:_____Purchase From:_____

Ship Date:_____Site Location:_____

ACCIDENT POTENTIAL

- ❑ Mobile shower and eyewash unit is not placed in such a way that its placement and operation will lead to further danger to an injured person or cause injury themselves.

DATE COMPLETED _____❑

LOCATION AND PLACEMENT

- ❑ Unit must be accessible to an injured person within 10 seconds or less travel time, in an unobstructed pathway.
- ❑ Units are placed every 110 feet within a plant.
- ❑ Sites are well-lit and conspicuous locations.
- ❑ Shower units must have a clear standing area of at least 10 square feet around the shower unit.

DATE COMPLETED _____❑

EMERGENCY IDENTIFICATION

- ❑ Shower and eyewash units must be identified with highly visible and symbol-based signage.

DATE COMPLETED _____ ❑

EMPLOYEE EDUCATION

- ❑ Employees who may be exposed to hazardous materials have been instructed as to the location and proper use of emergency showers and eyewashes.

WEEKLY LOG TAGS

- ❑ Weekly log tags are attached on or near the shower/eyewash unit. Weekly water level verification for self-contained units, are to be recorded, initialed, and dated on tags and in an office log book (refer to Weekly Log Tags and Log pages provided in this document). Lost or damaged tags should be replaced immediately.
- ❑ Date Completed _____❑

NOTE: If shower/eyewash is not operating within specifications or has failed testing please contact the Safety Officer immediately. Equipment must be tagged "DO NOT USE", if applicable.

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WEEKLY FLUID LEVEL VERIFICATION

Unit Number:_____Serial Number:_____Location:_____

UNIT INSPECTION

- ❑ Look for leaks or pipe damage and proper placement of protective covers.
- ❑ Ensure that the unit is free of any obstructions.
- ❑ Equipment free of broken or missing parts.
- ❑ If shut off valves are installed in the supply line, check system to avoid unauthorized shut-off of water supply.

INSPECT FLUID LEVEL SELF-CONTAINED UNITS

- ❑ Self-contained units must have enough fluid for one 15-minute treatment at proper flow and pattern, with both shower and eyewash running simultaneously.

EXAMPLE
WEEKLY TESTING RECORD
(see Weekly Log)

☑ BKH

Each week after the inspection questions have been thoroughly reviewed, the inspector should check the box for the corresponding week and initial the space to the right of the box.

EYEWASH WEEKLY FLUID LEVEL CHECK LOG

YEAR_____	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
JANUARY	❑	❑	❑	❑	❑
FEBRUARY	❑	❑	❑	❑	❑
MARCH	❑	❑	❑	❑	❑
APRIL	❑	❑	❑	❑	❑
MAY	❑	❑	❑	❑	❑
JUNE	❑	❑	❑	❑	❑
JULY	❑	❑	❑	❑	❑
AUGUST	❑	❑	❑	❑	❑
SEPTEMBER	❑	❑	❑	❑	❑
OCTOBER	❑	❑	❑	❑	❑
NOVEMBER	❑	❑	❑	❑	❑
DECEMBER	❑	❑	❑	❑	❑

APPENDIX C

EMERGENCY POSTER WARRANTY CARD

Emergency Poster

This detailed emergency poster should be posted by all eyewashes and safety showers and ***should be reviewed annually with all employees***. This poster can be enlarged and printed on a 11x17 tabloid size sheet for readability and a visual presence. NOTE: A .pdf version of the poster can be downloaded at ATSShieldSafe.com/safety-shower-poster/.

Warranty Card

A warranty card is placed in the back of this manual and can be removed, folded, and mailed. This provides us with the information we need to not only cover the product's performance, but also how to quickly notify you of product and component updates.

Emergency Instructions

Adhere to the following safety shower instructions for chemical burn emergencies

IMPORTANT: *Always follow all handling and emergency instructions on the Safety Data Sheet for your safety shower. Each Safety Data Sheet should be reviewed before handling or being in proximity to any potentially harmful substance and you should be familiar with the emergency protocol for the substance.*

1. **Alert others that you have been contaminated**
   YELL and get someone's attention to let them know that you are hurt.

2. **Head *DIRECTLY* to the safety shower – *TIME IS CRITICAL!***
   You must start treatment within 10 seconds of the contamination. If impaired from the accident, have someone assist you avoiding becoming contaminated themselves.

3. **Someone Call 911**
   Call 911 and check the Safety Data Sheet for the contaminating chemical.

4. **Follow all treatment instructions on the Safety Data Sheet**

5. **Get yourself under the water immediately**
   DO NOT stop to take shoes or clothes off YET.

6. **Use the eyewash for injured eyes**
   It is designed specifically for eye injuries.

7. **Once under the running water, remove all clothing and footwear**
   Remove everything that can be contaminated – *it is best to remove everything.*

8. **Dilute or wash off as much of the chemical as possible**
   Move around in the water, as needed, to distribute water evenly over injured area(s).

9. **Stay in the safety shower/eyewash for a *FULL 15 MINUTES!***

10. **If first responders are present, follow their directions**
    Otherwise follow the directions of those in authority over you.

11. **After the full treatment, if first responders have not yet arrived, use appropriate procedures to dress the wound(s)**
    NO DRY DRESSINGS OR COVERINGS ON OPEN WOUNDS!

12. **Keep the victim in a warm place to prevent hypothermia**

13. **If needed, transport the victim to an appropriate medical facility**
    Make sure to monitor the victim's physical condition during transportation

14. **Clean the contamination site and inspect for additional spills or issues**

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800.747.9953 • ATSSHIELDSAFE.COM

DISCLAIMER: Alpine Technical Services does not warrant that these instructions printed in this document will be appropriate for your specific work environment. This poster should not be used in situations where your company's safety protocol differs from these instructions in any way. Alpine Technical Services make no warranty, explicit or implied.

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WARRANTY REGISTRATION CARD

CONTACT INFORMATION

Company_____Location_____

Purchasing Agent_____Phone_____E-Mail_____

On-Site Safety Officer_____Phone_____E-Mail_____

Direct Contact_____Phone_____E-Mail_____

Address_____

City_____State_____Zip_____

FACILITY INFORMATION

Type of Facility_____

Total Number of Showers on Site_____No. of Tank Showers_____No. of Plumbed Showers _____

ECORIG™ UNIT INFORMATION

Shower Model Number_____Serial Number_____

Purchase Date_____/_____/_____Ship Date_____/_____/_____Purchase From_____

Shower Deployment o Inside o Outside If Outside: What is the temperature range? Low _____° F High_____°F

Site Location_____Installation Location_____

Why did you purchase the EcoRig™?_____

_____

Our purchase influencers are: ❑ Trade Shows ❑ Direct Mail ❑ Product Reviews ❑ E-mail/Online ❑ Word of Mouth

WATERGUARD AUTO-PROTECTION FOR TANK-FED SHOWERS

WaterGuard™ uses a recently-developed active ceramic specially designed to destroy deadly bacteria including:

• Legionella • Stanphaureus • E. Coli • Entero Aerogenes • Pseudomonas • Salmonella Typhi

Saves money by drastically reducing the maintenance costs—(See details in Operations Manual)

❑ Please Automatically Ship* _____(number of units). You will automatically receive a new WaterGuard™ shipment when your current WaterGuard™ units have expired, thus reducing maintenance and reordering hassles.

❑ Please send _____number of units* (one time shipment) * WaterGuard™ units expire 2 years after tank placement.

Place
Stamp
Here

ATS ShieldSafe™
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601 West 6825 South

Midvale UT, 84047

MAILING INSTRUCTIONS

1. Please fill out your EcoRig™ Mobile Safety Shower information below.

2. Fold in a letter fold

3. Tape closed (entire bottom—sides do not need to be taped)

4. Place first class stamp in upper right hand corner.