

MAINTENANCE

SAFETY SHOWER OPERATION

Safety considerations require that a schedule of inspections and documentation be set up for every Safety Shower. Emergency Showers and eye/face washes should be tested weekly. An inspection record should be maintained. This record may be in the form of a label attached to the Safety Shower or a log maintained by the laboratory director or safety officer. Procedures should consist of a physical examination of shower condition and cleanliness, operation and condition. All results should be recorded and reported to the proper authority for any required action. Your Laboratory Safety Plan and Company Procedures should combine to create a safe work environment.

SAFETY SHOWER

Cleaning of Safety Showers should include full cleaning of interior surfaces. Spills should be flushed immediately using neutralizing compounds as required and cleaned thoroughly afterwards. General cleaning can be done with mild detergents and water.

SERVICE FIXTURES

Fixtures which have been subjected to chemical fumes over a prolonged period of time may show signs of corrosion. When this occurs thorough cleaning with formulated chrome cleaner followed by an application of paste wax is recommended. Epoxy-coated fixtures used in chemical areas can be cleaned with detergent and water, dried, and lightly polished with a soft cloth. Do not use abrasive cleaners. High temperatures may alter the color of the plastic coating on fixtures; this condition cannot be cleaned away, but the chemical resistance of the finish is unchanged. A break in the plastic coating of these fixtures should be touched up immediately with matching paint or lacquer to protect the fixture.

Emergency Shower Test Kit



Safety First Emergency Drench Shower Inspection & Test Kit

Designed to allow testing of emergency showers. The Test Kit allows you to test the shower on a weekly basis, without the excess clean-up. ANSI recommends that emergency showers are tested on a weekly basis.

Kit includes support ring to hold nylon sleeve in place and divert water into bucket or drain. Bucket to catch water, also acts as a storage space for the test kit. Includes instructions for testing.

Emergency Shower Decontamination Booth

Emergency Shower / Decontamination Booths are fully assembled and ready for installation to water supply and waste systems. The shower is molded in a one piece seamless chemical resistant fiberglass and is equipped with a pull rod activated shower and push handle eye/face wash for immediately drenching of personnel that have been exposed to hazardous chemicals. Shower is equipped with frosted front strip curtains, interior grab bars, raised deck grating, and bottom or rear drain outlet. Compliant with A.N.S.I. and O.S.H.A. requirements.

Visit www.HEMCOcorp.com

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HEMCO
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Installation, Operation, Maintenance Manual Emergency Shower Eye & Face Wash Decontamination Booths For Industrial Applications Cat. No. 16601, For Laboratory Applications Cat. No. 16604



Model 16604 shown

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Emergency Shower Decontamination Booths

Alarm Horn & Light Audible warning sound when system is activated by flow switch. Top mounted visual warning light when system is activated.
Cat. No. 16680



Drench Shower Delivers full body shower and eye-wash while protecting the laboratory from water and chemical damage. Overhead drench shower is pull rod activated for immediate response and ease of use. High visibility ABS plastic; self-adjusting 30 gpm(113.6lpm)*; delivers minimum of 20"(50.8 cm) diameter, dispersed pattern for target area of 60"(152.4 cm) above standing level; 20 gpm also available



Frosted Vinyl Strip Curtain Provides for easy access into booth while containing contaminated water splash

Eye / Face Wash The rear wall mounted eye and face wash, features a yellow ABS plastic bowl, with two large plastic heads, and a push plate operated "stay open" ball valve. ABS plastic heads, Wye and float off covers secured with SS bead chains; Self adjusting regulator to flow at 8.0 gpm (30.3 lpm)*



Eye / Face Wash with Cover rear wall mounted eye and face wash, and cover, optional accessory



Hand Held Body Wash squeeze valve nozzle on 8' coiled hose and bracket. Can be used to rinse all body parts while victim is sitting or lying down. Wall or hood mounted, 3/8 NPT, barrier free.
Cat No. 16005

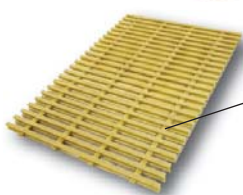


Grab Bar Support victim and rescue personnel during decontamination wash down. (located on both sides)

Hand Held Eye/Face & Body Wash Mounted on the front side-wall of the fume hood. Includes 8' hose and surface escutcheon. 3/8" NPT. barrier free.
Cat. No. 93966



Fiberglass Floor Grate Flow through Non-slip floor grate



Swing-Out Eye Wash Deck mounted next to sink. Activates when pivoted. 1/2" NPT. Barrier free.
Cat. No. 16009



Wheel Chair Accessible Recessed Wall-Mounted Eyewash Recessed cabinet with pull down actuation eyewash



Industrial Applications Emergency Drench Shower Booth unit is equipped with pull rod activated overhead drench shower and rear wall mounted eye/face wash.
Cat No. 16601

Laboratory Applications Emergency Drench Shower Booth same specs as above except with finished exterior side panels.
Cat No. 16604

Operation and Maintenance Instructions

Safety Showers are shipped palletized, fully crated, padded and wrapped for maximum protection and ease of handling. When uncrating the Safety Shower remove the band strap, which is securing the corrugate to the pallet. When ready to install Safety Shower, carefully lift from pallet and set on work surface in proper location. Upon receiving, inspect for crate damage and possible concealed damage that may have occurred in transit. Save all delivery receipts and cratings materials. If damaged call the adjuster for the delivering carrier promptly and notify HEMCO at (816)796-2900.

SITE PREPARATION

A Safety Shower requires that it be installed as close as possible to the hazard without physically causing a hazard itself. Emergency showers shall be in accessible locations that require no more than 10 seconds to reach, and be plainly labeled as to their use and function. Tepid water should be used to protect the user under frigid conditions. Provisions for the disposal of the water should be made.

Flush all incoming water lines before installing eyewash or facewash heads. If excessive scale or sediment is present in water line, an in-line strainer tee is recommended. **Do not use thread sealant when installing eye wash or facewash heads. 1. Do not force threads when threading dual stream head onto inlet nipple. Snug fit is sufficient. One hand installation (right hand threads.) Do not use a wrench to tighten.**

The minimum water supply pipe size to the shower should be no smaller than 1" IPS. Water pressure at the eye/ face wash should be no less than 30 psi and no more than 90 psi during operation. Drain lines shall be pre-plumbed prior to installation of safety shower. Safety shower shall have a 4" O.D. drain connection flange (3" I.D.)

In case of an exposure the injured person should immediately turn on the shower and remove all clothing as quickly as possible. In case of a chemical burn, the injured person should shower immediately and a doctor or nurse should be notified.

SAFETY SHOWER INSTALLATION

1. Safety Shower must be set on a flat level surface, The Safety Shower is a lab furnishing and shall NOT be installed in the walls, ceiling or any other structural feature of the building. 2. Safety Shower shall be secured to floor using the mounting brackets located at the bottom of the shower basin. 3. Once the Safety Shower is in place, service lines can be connected. **NOTE: In areas where seismic codes are a consideration, it is recommended that qualified engineers be consulted for necessary installation requirements for seismic codes.**

EMERGENCY EYEWASH and SHOWER EQUIPMENT ANSI Z358.1

- Unit shall be installed in accordance with the manufacturer's instructions and acceptable plumbing practices.
- The eye/facewash shall be positioned with the water nozzles between 83.8 cm (33 inches) and 114.3 cm (45 inches) from the floor and 15.3 cm (6 inches) minimum from the wall or nearest obstruction.
- The unit shall be connected to a system capable of supplying adequate flushing fluid to meet the flow requirements of each component operating simultaneously. The supply line shall provide an uninterrupted supply of potable water at recommended 0.207 mega pascal (30 pounds per square inch) of flow pressure.
- Where the possibility of freezing conditions exists, equipment shall be protected from freezing or freeze-protected equipment shall be installed.
- When the unit is installed, it shall be tested in accordance with the following procedures.
 - With the unit correctly connected to the water source and the valve(s) closed, visually check the piping connection for leaks.
 - Open the valve to the full position. The valve shall remain open without requiring further use of the operator's hands.
 - With the valve in the "full on" position, measure the flushing fluid flow pattern with the use of a test gauge to determine a suitable eyewash pattern as required by ANSI standards. Determine that both eyes can be irrigated simultaneously at a velocity low enough not to be injurious to the user.
- Eyewash units shall be in accessible locations that require no more than 10 seconds travel time from the farthest hazard.
- Each unit shall be identified with a high visibility sign. The area around the unit shall be well lit.
- Plumbed units shall be inspected annually for proper operation to ensure compliance to ANSI Z358.1 standard.