

## SAFETY INFORMATION



**WARNING:** Failure to comply with all instructions and precautions stated in this manual may result in serious personal injury, serious illness, blindness or death.

- The Porta Stream II must be level for proper operation.
- The unit may weigh over 150 lbs. when filled with solution. Assistance may be required when installing unit on the hanging bracket.
- Do not add any product or material to the solution of saline concentrate and water.
- Employees must be instructed in the use of emergency eyewash stations.
- This emergency eyewash unit is intended for emergency use by victims of eye contamination until medical treatment is obtained. In all cases, the victim should seek medical attention immediately after flushing.
- An individual or department must be assigned the task of checking all self-contained eyewash units on a weekly basis.
- All eyewash devices containing saline should be cleaned and refilled per solution manufacturer's recommendations. Units containing just water need to be cleaned and refilled at least once a week.
- Use of a fluid beyond the expiration date may result in serious personal injury.

## LOCATION AND INSTALLATION

### PORTA STREAM II LOCATION

The ANSI Standard Z358.1-2004 requires that:

1. The Porta Stream II shall be positioned with the nozzle(s) no less than 33" and no greater than 45" from the floor and 6" minimum from the wall or nearest obstruction.
2. Eyewash units shall be in accessible locations that require no more than 10 seconds to reach. The eyewash shall be located on the same level as the hazard, and the path of travel shall be free of obstructions that may inhibit the immediate use of the equipment. For a strong acid or a strong caustic, the eye wash should be immediately adjacent to the hazard.
3. Each eyewash location shall be identified with a highly visible sign positioned so the sign is visible within the area served by the eyewash. The area around the eyewash shall be well lit.

4. The eyewash station must be installed in an easily accessible location in the immediate area of hazard to the employee.

The Porta Stream II may be placed on any level surface of required height, such as a table or bench. Be sure to allow for proper drainage and disposal of the flushing solution.

The unit may also be mounted on a wall or post using the metal hanging bracket. The unit must be level for proper operation.

### INSTALLATION

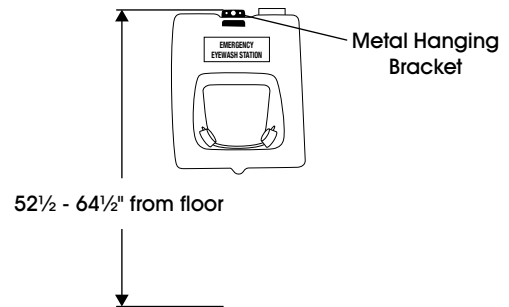
At least two fasteners are required for the Porta Stream II hanging bracket and are **not included**. The installer must select fasteners that provide support for the filled unit (approximately 150 lbs.) and the force of an individual leaning on the unit when in use. The fastener selection should also be determined by the type of mounting surface support at that site.

## UNIT LOCATION AND INSTALLATION CONTINUED

When installing the hanging bracket, the horizontal holes in the bracket must be 52½" to 64½" from the floor in order to have the nozzles positioned as required by ANSI Z358.1-2004. (See Figure 1)

After installing the hanging bracket, hang unit by placing the handle onto the bracket. Check the nozzle height. Place the emergency eyewash sign (if included with your model) in a visible area to mark the location of the unit.


Figure 1



## FILLING THE EYEWASH STATION

### MIXING INSTRUCTIONS

Saline concentrate (S-9876) is formulated to be mixed with potable drinking water, in a ratio of **10 parts water to one part saline concentrate**. To prepare the 16 gallons of solution required to fill the Porta Stream II, you will need 14.5 gallons of water to mix with the 180 ounces of saline concentrate. For best results, use filtered water. If filtered water is not available, use potable water. The solution may be mixed directly in the Porta Stream II unit. For best results, mix in an area which is clean and free of airborne particles. **Do not add any product or material to the solution of saline concentrate and water.**

 **NOTE:** If using the wall bracket mount, remove the unit from the wall bracket before filling.

1. Wear protective eyewear and gloves and follow sanitary practices during mixing.
2. Use a clean container of sufficient capacity to mix 16 gallons.
3. Add approximately 5 gallons of filtered water to the container.
4. Add 1/3 of the saline concentrate to the container and agitate or mix thoroughly.
5. Repeat steps 3 and 4 adding sufficient water and saline concentrate to make a total of approximately 16 gallons of solution.
6. Ensure that the nozzles and pull strap are clean and dry and that the strap is fully seated on the nozzles.
7. Pour the mixed solution into the unit.
8. If your eyewash station is equipped with a separate vent cap, replace the vent cap. Close the fill cap and attach a security device or inspection tag if desired.
9. Properly dispose of the saline concentrate bottle. Do not reuse.
10. Solution must be replaced 6 months after mixing.

## OPERATION

Employees must be instructed in the use of emergency eyewash stations. Studies have shown that obtaining emergency flushing within the first 10 seconds in eye emergencies is critical. It is required that training be provided to employees in each department where eye hazards exist. This training should be scheduled on a regular basis to keep both current and new employees aware of the location of all eyewash devices, as well as to reinforce the importance of obtaining immediate eye washing in emergencies.

1. The sooner the injured person can flush his or her eyes, the less likely there will be of eye damage. Seconds can make the difference in preventing serious eye injury or blindness.
2. All employees must be reminded this unit is for emergency use only. Tampering with this unit or

using it for non-emergency purposes may cause the unit to not operate properly in an emergency situation.

In an emergency, the eyes may involuntarily clamp shut and the individual may be experiencing pain, anxiety and disorientation. They may need assistance from other workers in getting to and using the eyewash station.

1. Start the fluid flow by grasping the pull strap and pulling the strap upward.
2. When the fluid is flowing, place the injured person's left hand around the left nozzle and the right hand around the right nozzle.
3. The injured person should then lower his or her head into the Porta Stream II toward their hands.

## OPERATION CONTINUED

4. When eyes are in the stream of fluid, use thumb and forefinger of each hand to open eyelids. Hold eyelids open until thoroughly flushed. 15 minutes is recommended.
5. After flushing, seek medical attention immediately.
6. Safety and supervision personnel must be notified when the unit has been used and must be refilled.


## INSPECTION AND MAINTENANCE

### SAFETY PRECAUTIONS

1. When filled with flushing fluid, the Porta Stream II weighs approximately 150 lbs. Provide the necessary equipment or personnel to install or remove the filled Porta Stream II from the mounting bracket.
2. Install the mounting bracket so the Porta Stream II is level.
3. Read all warning notices on the saline concentrate bottle before mixing.
4. Wear suitable eye protection and gloves when mixing the concentrate.
5. Do not add any product or material to the solution of saline concentrate and water.

### INSPECTION

An individual or department must be assigned the task of checking all self-contained eyewash units on a weekly schedule to ensure the unit is in proper operating condition with adequate levels of flushing fluid. Records of these weekly inspections should be kept with the unit. Eyewash units containing saline solution or water with an additive should be cleaned and refilled per the solution manufacturer's recommendations. Units containing just water need to be cleaned and refilled once a week. Use of a fluid beyond the expiration date may result in serious personal injury.

 **NOTE:** The S-9876 Saline Concentrate contains a specially formulated salt compound. There may be a white residue if solution has dried on the Porta Stream II surfaces. The white residue can be removed by wiping with a damp cloth.

### TO REPLACE FLUSHING FLUID IN EYEWASH STATION

1. Drain the Porta Stream II of any remaining flushing fluid by pulling the rubber strap from the nozzles and allowing the unit to empty until there is no flow from the nozzles. Remove the Porta Stream II from the wall bracket (or level surface), open the fill cap and empty any remaining solution.
2. Rinse the unit with clean tap water, agitate thoroughly, then invert the station until the water is drained.
3. Partially fill the unit with clean tap water and allow to drain through the eyewash nozzles. If nozzle holes are blocked, they may be opened by gently inserting a small wire or pin to remove obstructions. If obstructions cannot be removed, contact Uline Customer Service at 1-800-295-5510 for replacement nozzles (H-1142-NOZ). Invert the unit to drain any remaining water.
4. Reassemble the unit and fill per the instructions under the heading "Filling the Eyewash Station" on page 2.



**NOTE:** Although a thorough flushing with clean tap water may be sufficient to clean the Porta Stream II, for best results, disinfect the unit each time the fluid is changed.