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ABOUT HAWS INTEGRATED™

Haws Integrated designs, builds, implements and manages custom-engineered industrial safety response systems that provide tempered water for large-scale decontamination and emergency wash installations.

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A FACILITY MUST ALREADY BE PREPARED
by factoring for ease of use and victim comfort before, during, and after safety equipment usage.

When a victim is in need of an eyewash or shower, a facility must already be prepared, and ideally with a complete safety response environment. This is an area that exceeds expectations by factoring for ease of use and victim comfort before, during, and after safety equipment usage. A recent safety industry survey asked professionals who make product recommendations and/or buying decisions what they considered the most important features and benefits when selecting an eyewash and/or eyewash/shower combination unit. Not surprisingly, the top two answers were ANSI compliance and victim comfort.

Victim comfort is an important consideration that should be factored into creating a complete safety response environment for your employees. Treating the purchasing process as if you could be the victim is key in finding the best product that will perform properly and beyond the standard. From color coding equipment and establishing appropriate water temperatures to routine testing and ongoing training, consider these best practices for total victim comfort:

1. ACCURATE COLOR CODING

ANSI Z358.1 specifically states that locations of eyewashes and showers must be clearly identified, but it does not specify signage design. For workplace safety, OSHA requires that hazards be marked to alert employees of potential danger. ANSI Z358.1 takes this one step further, providing a standard for color schemes, sizing, meaning, and application for various workplace hazards. The standard is intended to provide uniformity across various organizations and industries by helping employees identify the severity of a given hazard in the workplace. Often times, an emergency station is not clearly marked causing the victim to frantically locate an improper form of flushing such as a sink. Reference the color code chart below to consistently mark physical hazards around your facility:

<table>
<thead>
<tr>
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<th>MEANING</th>
<th>EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED</td>
<td>Danger/Stop</td>
<td>Fire protection and equipment, emergency stop bars or buttons</td>
</tr>
<tr>
<td>ORANGE</td>
<td>Warning</td>
<td>Equipment that may cut, crush, shock or injure</td>
</tr>
<tr>
<td>YELLOW</td>
<td>Caution</td>
<td>Physical tripping or falling hazards, flammable labels</td>
</tr>
<tr>
<td>GREEN</td>
<td>Safety</td>
<td>First-aid and safety equipment</td>
</tr>
</tbody>
</table>

2. BEYOND TEPID

Excessively hot or cold water temperatures in safety showers and eyewashes can exacerbate the very injuries this safety equipment is designed to reduce. In the 2009 revision of ANSI Z358.1, the standard outlines suitable water temperatures as tepid, defined as a range between 60˚ and 100˚ F (15.5˚ to 37.7˚ C). It also specifies a full 15-minute drench or irrigation cycle, a length of time that must be considered with the victim in mind.

Understanding that average water temperatures in a residential shower generally hover around 105˚ F (40.5˚ C) and room temperatures are considered comfortable between 68-70˚ F (20-21.1˚ C), a shower or eyewash running temperatures in the lower ANSI required range fails to factor for victim comfort. Selecting a thermostatic mixing valve that offers protection against temperature spikes is an ideal solution to providing reliable temperature controls. A paraffin-based thermal actuation will keep outlet water temperature within tight specifications to prevent scalding and hypothermia. In addition, a funnel design in the mixing chamber generates turbulent flow to ensure consistent temperature blending across the entire flow range.

An uncomfortable victim will be less inclined to abide by the flush requirements, which could worsen an injury. By selecting a suitable mixing valve and defining a tepid-water range that is more comfortable to the user, you are not only encouraging the full flush period but also increasing the likelihood that a victim will remove contaminated clothing, which further enhances the wash objective.

3. FACILITY ACTIVITY IMPACT

ANSI states that all eye/face washes, showers and combination units must be free of obstructions for the victim, but there are other factors to consider. Facilities are not static environments, and daily tasks that do not present a permanent obstacle can still have a large impact on the functionality of a safety unit. For example, a forklift driven through the facility may have indirect access to water pipes. Consider the repercussions that a small nick from one of the forks might have, or even worse, the damage that could occur to pipes unintentionally run over. Monitoring and evaluating all accessible components of your facility’s safety units on a frequent and routine basis will help manage these potential problems.

Keep facility impact considerations in mind during the site selection process for your safety equipment, and choose an area that is both readily accessible and highly usable during activation. Not only should safety shower and eyewash equipment meet appropriate standards for their distance from potential hazards, they should be located in areas with adequate space for emergency responders to fulfill their response activities. A narrow area could potentially hamper accessibility and increase response time – a dangerous risk to take in an emergency situation.

4. COORDINATING AND DOCUMENTING ONGOING TESTING

Weekly activation is clearly stated in the ANSI standard as a necessary requirement to ensure proper operation of all emergency equipment. More extensive and detailed activation and inspection is required on an annual basis.

A common question relates to the appropriate length of time for unit testing. While a quick activation to test the unit might seem sufficient, it is more valuable to test each unit for the
The International Safety Equipment Association (ISEA) produces the American National Standard for Emergency Eyewash and Shower Equipment, ANSI Z358.1, to establish uniform minimum performance and use requirements. The Standard is a comprehensive outline that serves as a guidebook for companies and safety professionals to help create and ensure safe working environments. Nevertheless, there are additional steps and best practices that can be implemented to exceed standard expectations and ensure that each site implements and manages appropriate emergency response systems, minimizing injuries and preventing bad situations from becoming even worse.

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