



Guardian

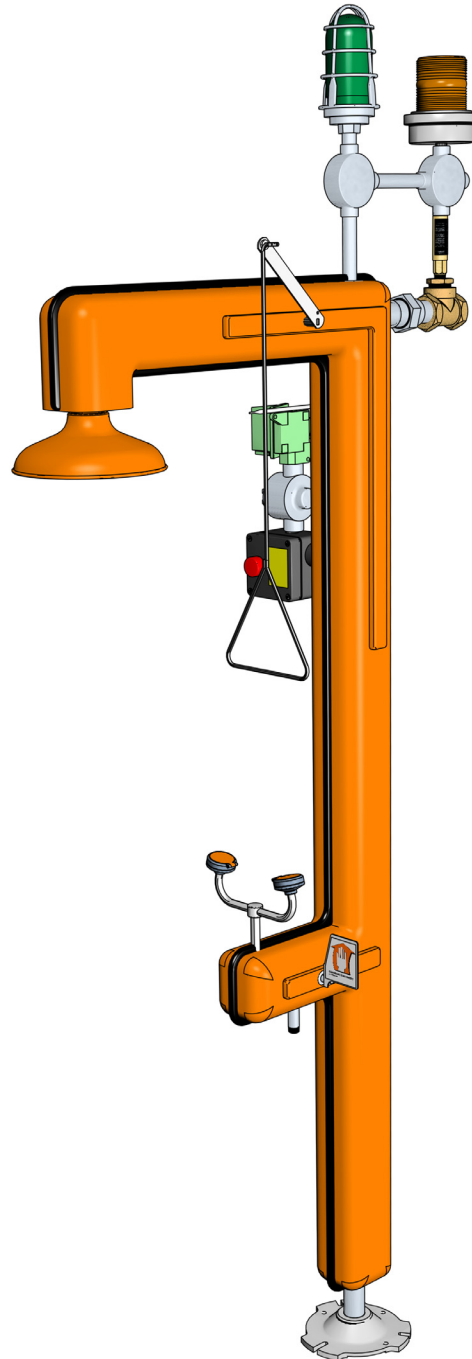
EMERGENCY EYEWASH & SHOWER TECHNOLOGY

Fully assembled, pre-engineered, traced and insulated safety shower/eyewash station

The ShowerGuard™ Pre-Traced, Pre-Insulated Safety Shower/Eyewash is designed to minimize field installation requirements and maximize product integrity, while eliminating the numerous disadvantages associated with field installation of electric heat-trace cable, insulation, and moisture barrier jacketing. Safety showers/eyewash units are required within all industrial plants for personnel protection.

With the ShowerGuard shower/eyewash station you can minimize or eliminate field installation labor and material costs. The ShowerGuard shower/eyewash station is a high quality product with pre-fabricated assemblies that minimize moisture penetration and are freeze resistant.

You can provide electrical heating and ground fault protection in existing units without requiring customers to change their existing power distribution system, assuming they do not have existing ground fault protection systems.



General

Supply	1-1/4" IPS horizontal top or bottom union connection
Supply voltage	120 VAC, 208-277 VAC. 30 mA ground-fault protection required
Cable	FM approved and CSA Certified Raychem® BTV-CT self-regulating heat-trace cable with tinned copper braid and fluoropolymer outer jacket approved for use in non-hazardous and Division 1 and 2 hazardous locations
Components	Raychem CID1 and CID2 approved power connections and end seals
Alarms	Safety shower/eyewash activation (water flow), heat tracing
Insulation	Water resistant Armaflex™ insulation; k factor = 0.27 BTU x in/hr x ft ² x °F

Enclosure

Cover	Safety orange ABS plastic for high visibility, easily removable flanged construction for maintenance
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Standards

Units comply with ANSI Z358.1-2004.

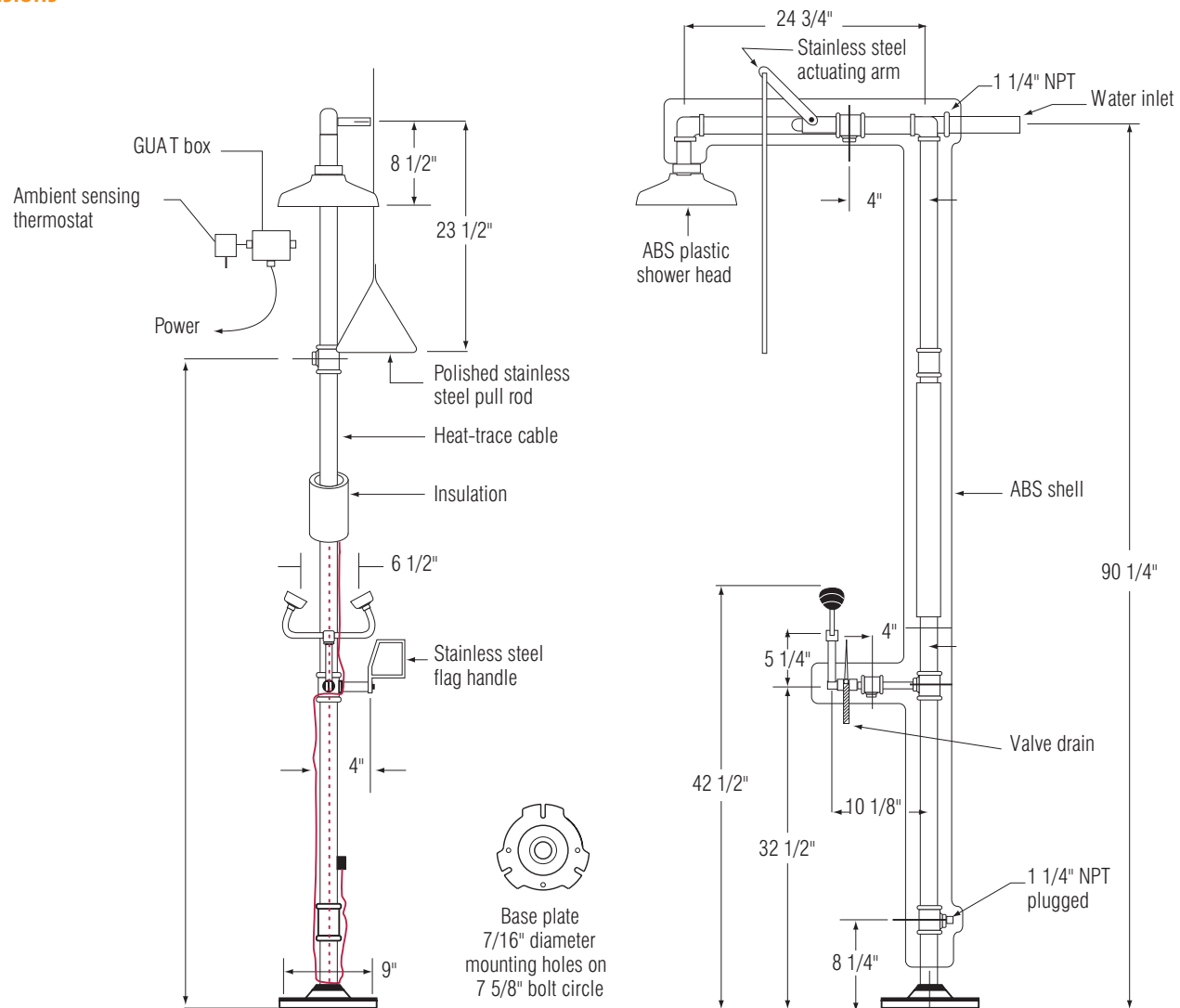
Temperature rating

Temperature	Designed to maintain 60°F with a -10°F minimum ambient (designs to -30°F)
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Current maximum

Electrical Load	75 watts @ 50°F pipe temperature, Startup Current 3.1 A; Location Outdoor (-10°F), Miantain: 70°F, Operating Current 1.3 A
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Dimensions



Materials of construction

Shower Head	10" safety orange ABS plastic. Delivers 20 GPM at 30 PSI. Spray pattern is 20" diameter at 60" above the floor.
Shower Valve	1" IPS brass stay-open ball valve, furnished with stainless steel actuating arm and stainless steel pull rod. Valve is made in USA.
Eye/face Wash Outlet Head Assembly	Each FS-Plus spray head has a "flip-top" dust cover, internal flow control and filter to remove impurities from the water flow.
Eye/face Wash Valve	1/2" IPS self-draining 3-way brass stay-open ball valve. Activated by stainless steel flag handle. Valve is made in USA.
Pipe And Fittings	1 1/4" IPS Schedule 40 hot-dipped galvanized steel pipe and fittings with powder coated cast aluminum floor flange.
Cover maintenance.	Safety orange ABS plastic for high visibility, easily removable flanged construction for

Ordering Information

Standard Items:	Eyewash, shower head (20 GPM), heat-trace cable, ambient-sensing thermostat
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System Options

Water Connection	1 1/4" IPS horizontal top with union – location of connection to safety shower/eyewash. 1 1/4" IPS horizontal bottom with union – location of connection to safety shower/eyewash.
Area Classification	Non-hazardous. CID1 – Class I Div. 1 Electrical Area Classification. This option converts all accessories to be designed to meet this area classification. Note: some options not available with CID1. CID2 – Class I Div. 2 Electrical Area Classifications. This option converts all accessories to be designed to meet this area classification.
Voltage	120 VAC, 208-277 VAC
Heat Trace Indicator Light	Indicator light to show power is being applied to tracing. This option does not indicate tracer performance or continuity.
Shower Location Light eyewash.	Option to include required identification as an integral part of the safety shower/eyewash. Available in green, red, blue, or amber.
Safety Valve	Freeze – Offers protection in case of power or tracing failure. Consists of temperature sensing valve located in the eyewash area of the safety station. Valve is set to fully open at 35°F. Scald – Offers over-temperature protection. Consists of temperature-sensing valve located in the eye wash area of the safety station. Valve is set to be fully open at 105°F. Both – Combination of two valves (one freeze, one scald).
Thermometer	Dial thermometer located in riser (vertical pipe section). Intended for local verification of system performance. Assumes that the riser temperature is indicative of all areas of the safety station.
Flow Switch	Mechanical vane-operated switch activated by flow of water during operation of shower or eyewash. Double pole, double throw flow switch is provided to allow for remote sensing.
Alarms	Alarm horn – Local horn mounted to flow switch junction box. Alarm light – Local strobe mounted to flow switch junction box. Alarm components are available for non-hazardous and hazardous environments.