



**HAWS EMERGENCY EQUIPMENT WATER-TEMPERING SYSTEMS
SKID-MOUNTED INDOOR/BOOTH ENCLOSED OUTDOOR
Guide Specification**

Plumbing and safety environments are evolving, and Haws is redefining expectations. Just as we have done for more than 100 years. From the AXION MSR ground-breaking eyewash design offering the only medically superior response solution in the industry, to the only on-site commissioning and service provider in the industry, Haws is there for all your needs.

Haws is the only manufacturer who provides warranty and field services for emergency shower and eye wash products of all brands to ensure your equipment is functioning properly and meets ANSI/ISEA Z358.1 compliance.

Every day we work to address your needs and solve your challenges by applying imagination and initiative to make your job easier. Haws invents, manufactures and builds drinking fountains and standardized and customized emergency response products. With more than 8,000 distribution locations and 250 employees worldwide, we continually focus on quality, service, reliability and complete solution support.

The drop-and-play water tempering equipment provides a packaged solution for your emergency shower and eyewash fixtures when tepid water is a must. Standardized features assures quick delivery, and a wide range of options include the hot water supply, electrical type, blending capabilities and pump options

Haws tempering equipment is manufactured in the US and Switzerland to provide world-wide support.

Contact Haws Corporation, Sparks, NV 89436; Phone: 1-888-640-4297 or visit the Haws web site www.hawsco.com

SECTION 22 45 36 – EMERGENCY FIXTURE WATER-TEMPERING EQUIPMENT

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Emergency showers equipped with:
 - 1. Water tempering equipment.
 - 2. Alarm and control accessories.
 - 3. Pipe and valve insulation, anti-freeze valves, and electrical cabinet heater.

Specifier: If retaining optional "Related Sections" article, edit to include sections applicable to Project.

1.2 RELATED SECTIONS

- A. Division 22 Section "Domestic Water Piping" for [hot and cold] [tempered] water piping.
- B. Division 22 Section "Sanitary Waste Piping Specialties" for floor drains.
- C. Division 26 sections for electrical power and control wiring.

Specifier: If retaining optional "References" article, edit to include standards cited in edited Section.

1.3 REFERENCES

- A. General: Applicable edition of references cited in this Section is current edition published on date of issue of Project specifications, unless otherwise required by building code in force.
- B. American National Standards Institute (ANSI) <http://webstore.ansi.org>:
 - 1. ANSI/ISA 12.12.01 - Non-Incendive Electrical Equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous Locations.
- C. CSA International (CSA) www.csa-international.org:
 - 1. CAN/CSA C22.2 No. 0 - General Requirements - Canadian Electrical Code, Part II, CSA C22.2 No. 30 - Explosion-Proof Enclosures for Use in Class I Hazardous, CSA Std C22.2 No. 213 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Location
- D. National Electrical Manufacturers Association (NEMA) www.global.nema.org:
 - 1. NEMA Standards Publication 250, "Enclosures for Electrical Equipment (1000 Volts Maximum)."

- F. National Fire Protection Association (NFPA) www.nfpa.org:
 - 1. NL698A - Industrial Control Panels Relating to Hazardous Locations and NFPA 70 - National Electric Code

- G. Underwriters Laboratories (UL) www.ul.com:

- 1. UL 508 - Industrial Control Equipment and UL 1203 - Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for use in Hazardous Locations.

1.4 ACTION SUBMITTALS

- A. Product Data: For each product:

- 1. Manufacturer's data sheets indicating enclosure materials and construction, equipment, and accessories.
 - 2. Include details of electrical and mechanical operating parts.
 - 3. Provide mounting and securing requirements and utility connection requirements.

1.5 INFORMATION SUBMITTALS

- A. Manufacturer's Certificates: Submit certificates documenting factory testing of emergency shower units.
- B. Field quality-control test reports.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

1.7 MAINTENANCE SUBMITTALS

- A. Furnish indicated spare parts that are packaged with identifying labels listing associated products.

1.8 QUALITY ASSURANCE

- A. Electrical Components: Listed and labeled per NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- B. ANSI Standard: Comply with ANSI Z358.1.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide emergency water tempering equipment manufactured by Haws Corporation, Sparks, NV 89431; (888) 640-4297; fax (775)359-7424; Email customerservice@hawsco.com; Website www.hawsco.com.
 - 1. Submit requests for substitution in accordance with Instructions to Bidders and Division 01 General Requirements.

2.2 TEMPERING SKID

- A. Description: Indoor Emergency Water Tempering Skid to supply tepid water for [single shower] [two showers] with an indoor application.
- B. Basis of Design Manufacture/Model: **Haws Corp, emergency tempering skid, Model 8780.**
- C. Pipe and Fittings: Water Inlet: NPS 1-1/2" (DN 40) diameter, [Galvanized] [stainless Steel].
- D. Supply Voltage: [208V 1ph] [208V 3ph] [240V 1ph] [240V 3ph] [480V 3ph] [600V 3ph].
- E. Skid Platform: Aluminum 5' x 5' (1.5 x 1.5 m) frame with a composite equipment platform, with black chemical and UV resistant polyester based powder coating.
- F. Tank Systems: [119 Gal non-ASME (450 L)], [120 Gal (454 L) ASME], [200 Gal (757 L) ASME], or 318 Gal (1203 L) ASME (standard).
- G. Thermostatic Mixing Valve: Low lead, paraffin based AXION tempering valve with 78 GPM, full-flow cold water bypass, and internal checkstops.
- H. Options include stainless steel valves and/or piping, temperature control packages including 4 or 10 kW immersion heaters, alarm package, and recirculation pump with VFD, or booster recirculation pump with VFD

2.3 ENCLOSED TEMPERING BOOTH

- A. Description: Outdoor Emergency Water Tempering Booth to supply tepid water for [single shower] [two showers] with an outdoor application.
- B. Basis of Design Manufacture/Model: **Haws Corp, emergency tempering booth, Model 8785.**
- C. Pipe and Fittings: Water Inlet: NPS 1-1/2" (DN 40) diameter, [Galvanized] [stainless Steel].
- D. Supply Voltage: [208V 1ph] [208V 3ph] [240V 1ph] [240V 3ph] [480V 3ph] [600V 3ph].
- E. Booth Platform: Aluminum 5' x 5' (1.5 x 1.5 m) frame with a composite equipment platform, with high visibility green chemical and UV resistant polyester based powder coating.
- F. Tank Systems: [119 Gal non-ASME (450 L)], [120 Gal (454 L) ASME], [200 Gal (757 L) ASME], or 318 Gal (1203 L) ASME (standard).
- G. Thermostatic Mixing Valve: Low lead, paraffin based AXION tempering valve with 78 GPM, full-flow cold water bypass, and internal checkstops.
- H. Options include stainless steel valves and/or piping, temperature control packages including 4 or 10 kW immersion heaters, alarm package, and recirculation pump with VFD, or booster recirculation pump with VFD

PART 3 - EXECUTION

3.1 Installation

- A. Provide connections to fixtures and associated fittings in accordance with manufacturer's instructions.
- B. Install unit level, plumb, and anchored firmly in place in accordance with manufacturer's rough-in drawings.
- C. Install water supply piping to each fixture requiring water supply connection. Provide lock-on stop on each supply in readily-serviced location.

3.2 Testing and Adjusting

- A. Set field-adjustable temperature set points of temperature-actuated water mixing valves. Adjust set point within allowable temperature range.
- B. Test and adjust installation.