



# INTERTEC Safety Shower

## 1 Application

- Outdoor Emergency Safety Shower

## 2 Description

- 100% Fiberglass surround construction - exterior includes UV inhibitor gel-coat
- Insulated walls, roof R-20 and base R-30
- Designed and constructed to seismic four earthquake ratings
- Wind load capabilities of up to 200 km/h, three-second gusts when anchored
- Top & Base lift capability
- ATEX / CSA certified external electrical control panel
- CSA certified UL 94 V-0 self-extinguishing fire rating
- Optional third party certified to CEC/NEC electrical standards prior to shipment.

### 2.1 Safety Shower, Eyewash and Drench Hose

Standard shower head highly visible impact-resistant plastic. Drench showerhead features integral flow control, conserves water and provides equal distribution throughout the spray pattern providing a more effective wash down. Shower is activated by a pull rod. Eyewash includes integral flow restrictors and is operated by a large stainless steel push handle. Drench hose is provided as a supplemental fixture to the eyewash and drench shower. Drench shower and eyewash ship with corrosion-resistant coating, providing additional protection from the elements. The drench shower, eyewash and drench hose are equipped with a freeze protection valve. A scald protection valve is also installed as a standard feature. Shower and eyewash systems comply with ANSI/ISEA Std. Z358.1

### 2.2 Cabinet Construction

#### External

100% FRP (fiberglass-reinforced plastic) insulated formed roof, walls and floor sections with UV-inhibited gel-coat surface. Insulates and protects the cabinet from sunlight UV ray degradation, exposure from chemical and salt-laden air environmental conditions. Resins and insulation are rated to flame spread less than 25 rating, Class 1. Resin laminate is certified to flame self-extinguishing standard UL 94 V-0. Enclosure walls, roof and floor provide an insulation protection. Cabinet designed and constructed to seismic four earthquake ratings, can withstand extreme wind like hurricane loads of up to 200 km/h and three-second gusts when anchored. Exterior of cabinet is white (RAL-9016) or yellow (RAL-1016), and includes safety decals directing the injured party to the double-acting spring hinge doors that include handles and framed viewing windows with safety glass.

The crash doors include weather strips to maintain the maximum possible seal against wind, rain and snow. The FRP formed base includes stainless steel reinforced bumper plates for added protection when moving the cabinet via forklift. Roof-located lifting eyes are attached to the stainless steel base mounting plates, permitting crane lifting and ease of placement at the jobsite.



#### Internal

The shower area includes a sloped catch basin drain with a removable fiberglass floor grate that allows water to drain to a central location. Exterior drain may be located on either side of the shower surround with an option to drain directly under the shower. ABS connections are provided on side located drain areas allowing containment of contaminated water.

#### For "Hot Water Tank" only:

A FRP splash panel is located behind the shower fixture allowing separation between the shower and the tempered water supply areas. Lockable FRP maintenance doors are located at each side at the rear of the shower surround allowing easy access to the hot water tank, tempered water, internal space heating systems and Electrical/ Alarm System.



## Safety Shower Cabinet



### 2.3 Alarm System

A double-pole double-throw water flow switch is a standard feature. Alarm flashes and sounds upon activation of the safety shower system. The flow switch activates the exterior alarm strobe light and horn. The system includes alarm reset and horn silencer features for responder control. Extra set of dry signal contact points included to connect to a facility control center.

### 2.4 Electrical System

Standard electrical utility components consist of an exterior over-door location light, internal ceiling mount vapor-sealed fluorescent light, and internal convection space heater. Electrical Type 4X control enclosure located on the exterior wall for ease of electrical power connection by owner

### 3 Technical Data and Types

| Types   | Tempered Water inlet  | Hot Water Tank   |
|---|---|--|
| <b>Cabinet Type/ Dim.(HxWxD)</b>  | <input type="checkbox"/> Arctic 4'3" x 4'3" x 8'7" overall Dim.<br><input type="checkbox"/> Other (specify)   | <input type="checkbox"/> Arctic 4'3" x 8'3" x 8'7" overall Dim.<br><input type="checkbox"/> Other (specify)  |
|   |   |   |
| <b>Inlet and Supply Pressure</b>  | Water inlet galvanized steel connection to be supplied with a minimum of 30 psi.  | <b>Pipe and Fittings:</b> Water inlet galvanized steel connection to be supplied with a minimum of 50 psi  |
| <b>Water supply</b>   | <b>Tepid Water Inlet</b><br>Enclosure includes a galvanized steel connection to facilitate the supply of tepid water 15 to 37 °C from an independent source.  | <b>Hot Water Tank and Heating System</b><br>Standard system includes a 119 gal water tank with immersion heater and thermostat.<br><b>Tepid Water Delivery System</b><br>Enclosure includes a Thermostatic Mixing valve. Valve blends cold water (supplied by others) and hot water from a storage tank. |
| <b>Electrical Versions</b>  | <input type="checkbox"/> General Area Classification<br><input type="checkbox"/> Class 1, Div 2, Gr. C,D Zone 1 T3<br><input type="checkbox"/> Class 1, Div 1, Gr. C, D Zone 1 T3<br><input type="checkbox"/> Other |  |
| <b>Supply Voltage</b>   | <input type="checkbox"/> 120V 60Hz single-phase (standard 4'x4' ESS)<br><input type="checkbox"/> 208 or 240V 60Hz single-phase (standard for 4'x8' ESS)<br><input type="checkbox"/> Other (specify)                 |  |
| <b>Size of Water Tank</b>   |   | <input type="checkbox"/> 119 gal. (standard)<br><input type="checkbox"/> 119 gal. (ASME)<br><input type="checkbox"/> Other (specify)   |
| <b>Alarm System</b>   | <input type="checkbox"/> DP/DT Water Flow Switch, Alarm Horn & RED Strobe (Standard)<br><input type="checkbox"/> Other (specify)  |  |
| <b>Area Light Lens</b>  | <input type="checkbox"/> Green (standard)<br><input type="checkbox"/> Other (specify)   |  |
| <b>Internal Convection Heater (sized to suit local ambient conditions):</b> | <input type="checkbox"/> Electric with Local Thermostat Control (standard)<br><input type="checkbox"/> No Heater<br><input type="checkbox"/> Other (specify)<br><input type="checkbox"/> Ambient design Temp.....   |  |
| <b>Drain Location</b>   | <input type="checkbox"/> Drain Right (standard)<br><input type="checkbox"/> Drain Left<br><input type="checkbox"/> Drain Center<br><input type="checkbox"/> Other (specify)   |  |



## Safety Shower Cabinet

Date: \_\_\_\_\_

Project Name: \_\_\_\_\_

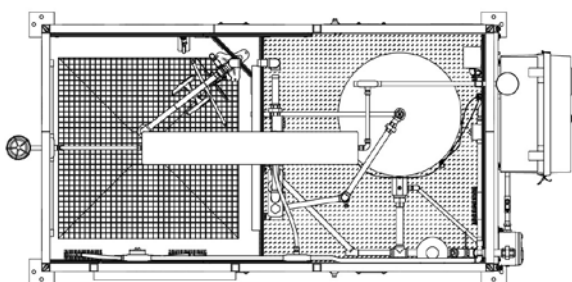
Engineering Firm (EPC): \_\_\_\_\_

Owner: \_\_\_\_\_

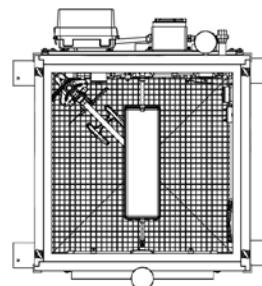
Contact Person: \_\_\_\_\_

Contact Phone: \_\_\_\_\_

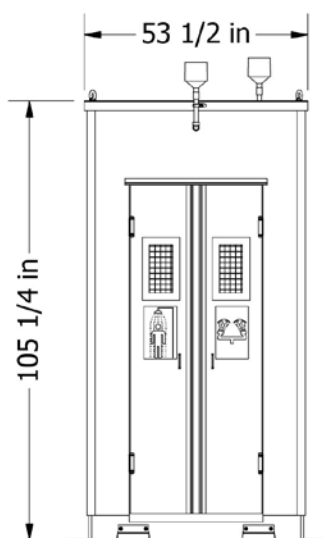
Contact E-mail: \_\_\_\_\_



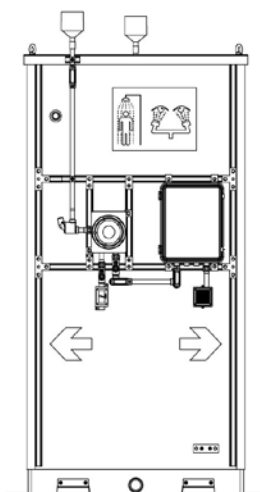
4' x 8' Shower Layout



4' x 4' Shower Layout



4' x 4' Shower - Front View



4' x 4' Shower - Back View

