

SABZ INTERNATIONAL

SPECIFICATION SHEET

Tank Safety Shower Spec Sheet

Self-contained emergency showers with their own water tank, insulation and chiller options, for UAE sites without a reliable plumbed supply.

OVERVIEW

Tank safety showers

A tank safety shower is a self-contained emergency shower and eye/face wash with its own water tank. It needs no plumbed water line, so it can sit at the hazard: wellheads, tank farms, chemical unloading points, laydown yards and temporary works.

Each unit holds enough water for the 15-minute flow ANSI/ISEA Z358.1 requires and feeds the shower and eyewash by gravity or pump. Because tank water heats up fast in UAE summers, outdoor units are specified with an insulated GRP tank and an integrated chiller or tempering system.



PERFORMANCE

Design and performance requirements

Parameter	Requirement	How the unit meets it
Standard	ANSI/ISEA Z358.1	Shower and eye/face wash selected and tested to the standard
Shower flow	At least 75.7 L/min (20 US gpm) for 15 minutes	Tank sized for the full 15-minute flow
Eyewash flow	At least 1.5 L/min (eye/face wash 11.4 L/min), hands-free	Stay-open push flag or paddle
Minimum usable volume	About 1,136 L for the shower alone, plus eyewash demand	Capacity confirmed per unit in the quotation
Water temperature	Tepid: 16 to 38 °C	Insulated tank with chiller or tempering for outdoor sites
Activation	Valve opens in 1 second or less and stays open	Stay-open pull rod or push plate
Shower head height	208 to 244 cm above the standing surface	Frame height set at installation
Location	Within 10 seconds (about 16.8 m) of the hazard, same level	Free-standing, so it can be placed at the hazard
Testing	Weekly activation; annual inspection	Drain, refill and inspection procedure handed over

OPTIONS

Configurations

Configuration	Best for	What it adds
GRP tank shower with chiller	Desert and exposed sites	Integrated chiller keeps stored water tepid in UAE summer heat.
Tank shower with solar panels	Remote sites without mains power	Solar panel powers the chiller or controls off-grid.
Tank shower with chiller and solar	Remote, exposed locations	Chiller and solar power on one self-contained unit.
Tank shower with water supply system	Sites that need automatic refilling	Water supply system keeps the tank topped up.
Water supply system for tank showers	Plants with several showers	Feeds one or more showers from a dedicated supply tank.
Mobile safety shower	Shutdowns and moving work fronts	Forklift pockets or trailer mounting, moves with the work.
Insulated safety shower (GRP panel)	Exposed outdoor locations	GRP panel enclosure insulates the shower and pipework.
Insulated safety showers	Public and industrial sites	Insulated enclosures protect water temperature outdoors.
Pedestal-mounted shower	Plants and labs with a plumbed supply	Floor-mounted pedestal, shower and eyewash on one stand.

Common options

- Insulated GRP tank and enclosure
- Integrated water chiller sized to UAE summer conditions
- Solar panel for off-grid chiller or controls
- Automatic refilling from a water supply system
- Flow switch with local siren and beacon or control-room signal
- Forklift pockets, skid or trailer mounting
- Dust covers and high-visibility signage
- Water treatment additive and change schedule

SCOPE

Supply, installation and commissioning

What SABZ delivers

- Site survey and hazard mapping
- Selection of capacity, mounting and climate protection
- Delivery, positioning and levelling
- Electrical connection of chiller or controls (by others or SABZ, as agreed)
- Filling, flow test and temperature check
- Test certificate and handover documents
- Staff training on weekly activation
- Optional annual inspection contract

What we need for a quotation

- Site location and whether the unit is indoors, shaded or in full sun
- Hazards at the location and number of people at risk
- Power available at the location (if any)
- Water source for filling and refilling
- Fixed or mobile installation
- Alarm or control-room signal requirements
- Required delivery date

Tank capacity, chiller rating, dimensions, weight and power demand depend on the configuration and are confirmed in the quotation and the manufacturer's data sheet.

GET IN TOUCH

Ask for a quote or a free site survey

Tell us what you need, where it is going and when. We reply within one working day with a recommendation and a priced quotation.

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