



Outdoor Heated Temperature Controlled Emergency Safety Showers

STD-TC-100K/11K

STD-TC-100KS/11KS



Outdoor Heated Temperature Controlled Emergency Safety Shower

Hughes Safety Showers manufacture a Temperature Controlled (TC) Emergency Safety Shower intended for outdoor use where the water requires heating. It has a 79.25 gallons tank and 3kW heater and, regardless of the ambient temperature, will deliver tepid water for the ANSI recommended minimum period of 15 minutes.

Water from the heated tank is mixed with the mains fed cold supply through a high flow rate thermostatically controlled valve to maintain a temperature of between 75-95°F. In addition, the TC unit can also supply heated water to other Emergency Showers via a second outlet from the tank. This means several Emergency Showers can meet the temperature and duration criteria stipulated in the ANSI standard.

The standard unit consists of a heated tank, overhead Shower and front mounted Eyebath/Facewash with protective lid. A sign box is also fitted which incorporates 'Emergency Shower' and 'Eye wash' signs. If preferred, it can be supplied without the Eyebath/Facewash.

Alternatively, the unit can be supplied without the Shower or Eyebath/Facewash and simply used to

supply heated water to other Shower and Facewash units.

Pipework and Frame available in Stainless Steel STD-TC-100KS/11KS.



OUTDOOR HEATED TEMPERATURE CONTROLLED EMERGENCY SAFETY SHOWER

- Designed in accordance with ANSI and EU guidelines delivering tepid water for minimum of 15 minutes
- 79.25 gallons Temperature Controlled Safety Shower
- Insulated and trace tape heated for frost protection
- Hughes ball valve included for greater reliability and longer life
- Sign Box fitted as standard which has the facility to include an optional indicator light to increase visibility of the Safety Shower and light up the operating area
- Choice of optional components including alarms and foot operation
- Available with Galvanized or Stainless Steel pipework and frame

Specification

The shower is operated by a pull handle for ease of use in an emergency. It has a removable self-draining overhead shower nozzle specifically designed for high flow rates in line with ANSI and EU standards.

The thermostatic mixer valve supplies constant tepid water for a period of 15 minutes and is fitted with a scald protection valve. The hot water tank is immersion heated and pre-insulated with polyurethane foam for increased insulation. The eye/facewash fountain has high flow rate aerated diffusers for improved washing action, incorporating an integral lid connected to the water valve for automatic operation when lifted.

The lid also ensures that the bowl remains clean and free from contamination at all times and incorporates a mirror with first-aid instructions. The eye wash diffusers are fitted with fine mesh strainers and individual flow controllers designed to give a gentle flow of aerated water, an additional 'Y' strainer is also fitted to ensure water quality.

An auxiliary handheld eyebath can be used to treat unconscious or disabled personnel, decontaminating the individual eye or for washing other parts of the body. The pictogram 'Emergency Shower' and 'Eye wash' signs are to International Standard ISO 3864-1.

All valves are easily removable for servicing and maintenance.

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MATERIALS OF CONSTRUCTION

PIPEWORK & FITTINGS (K)	Galvanised Mild Steel with 150lb medium wall tubulars and fittings
PIPEWORK & FITTINGS (KS)	Stainless Steel 304L with 150lb medium wall tubulars and fittings (316 available)
OPERATING VALVES	Hughes - 316 Stainless Steel
SHOWER SPRAY OUTLET	Hughes - Shower Nozzle Moulded Nylon 6
EYE/FACEWASH FILTER STRAINER	Hughes - 316 Stainless Steel
INSULATION & OUTER CASING	Polyurethane Foam insulation with a Medium Density Polyethylene impact resistant Outer Casing
STANDARD FINISH	White with Green/White Safety Stripes (alternative colours available)

SERVICES

WATER INLET	1 1/4" Male NPT
DESIGN OPERATING PRESSURE	31 to 96 PSI (Higher supply pressures can be accommodated when incorporating the optional Pressure Regulating Valve)
HEATING TYPE	Trace Tape Heated and pre-insulated pipework, immersion heated tank
HEATING LOAD	3K Watts
ELECTRICAL EQUIPMENT - Non Hazardous	Suitable for use in areas classified as Non-Hazardous
ELECTRICAL EQUIPMENT - Hazardous	ATEX Zone 1 & 2
ELECTRIC SUPPLY	240V Single Phase, Standard or 120V available
TEST PRESSURE	10.3 BAR G
FLOW RATES - ANSI	Shower: 76 liters/minute minimum Eye/Facewash: 11.4 liters minute Eyebath - Hand Held: 10 liters/minute minimum

ENVIRONMENTAL OPERATING TEMPERATURE

MINIMUM AMBIENT OPERATING TEMP	-35° C (-31° F)
MAXIMUM AMBIENT OPERATING TEMP	35° C (95° F)

ACTIVATION/OPERATION

SHOWER/BODY SPRAY OPERATION	Pull Handle (Foot Panel control for hands-free - Optional)
EYE/FACEWASH OPERATION	Lift Lid to operate (Treadle foot control for hands-free - Optional)

WEIGHTS and DIMENSIONS

OVERALL DIMENSIONS	19"(W) x 52"(D) x 106"(H)
WEIGHT - UNPACKED	518lb (No Options)

TECHNICAL DETAILS



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PRODUCT INFORMATION SHEET



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HUGHES G.A. DRAWING

