

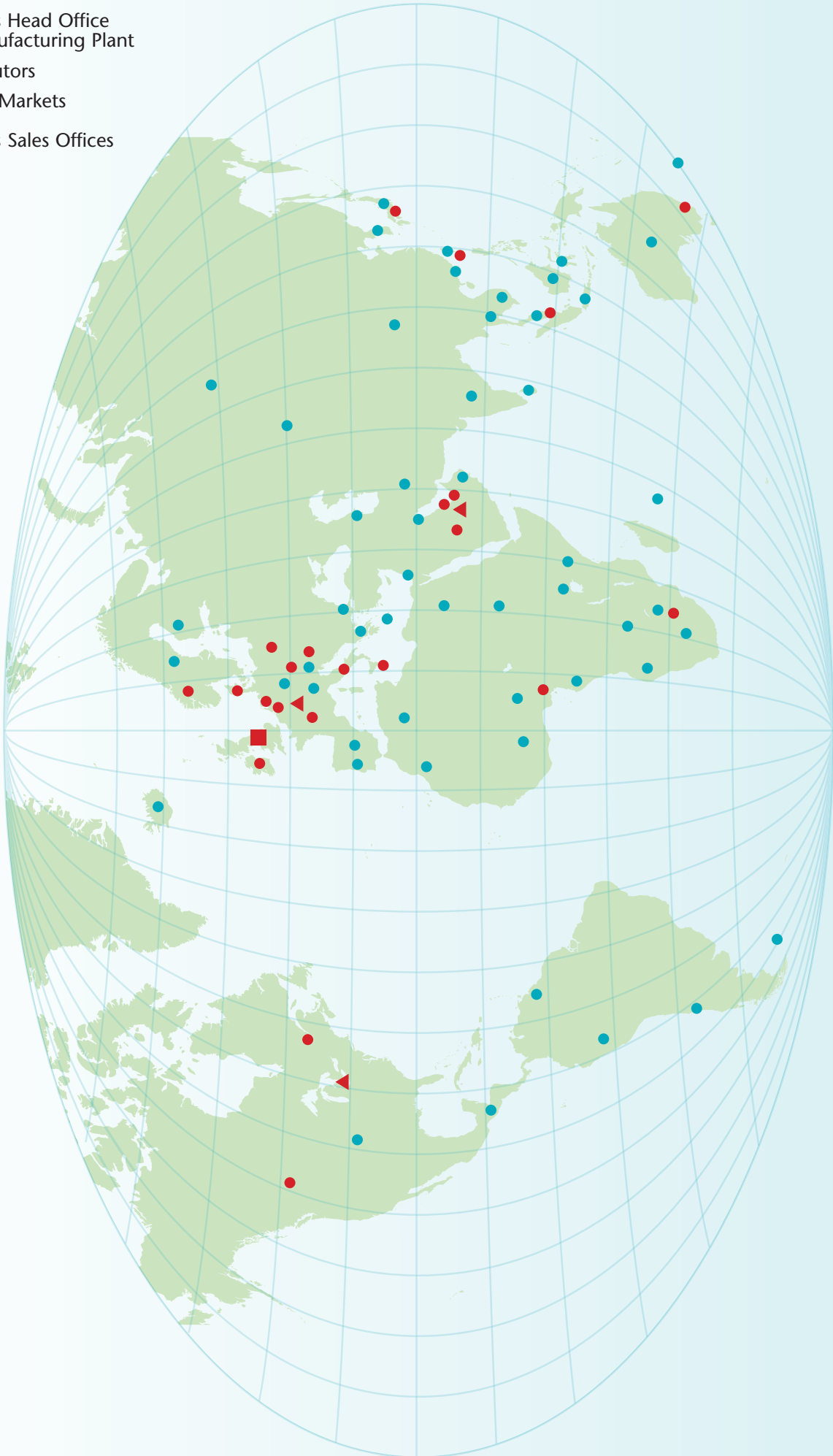


The DEFINITIVE CATALOGUE

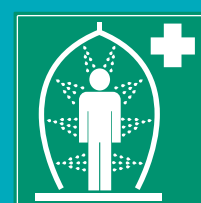
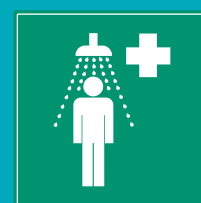
emergency safety showers · eyebaths · decontamination showers

Global Supplier

- Hughes Head Office & Manufacturing Plant
- Distributors
- Export Markets
- ▲ Hughes Sales Offices



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Hughes Safety Showers reserve the right to amend products and specifications without prior notification.

Printed: July 2010

for further information and the latest updates please go to
www.hughes-safety-showers.co.uk

Hughes Safety Showers

THE COMPANY AND ITS

1950

1965

1980

19



The Company was founded in July 1950 by John D Hughes M.B.E., a qualified mechanical engineer and father of Tony Hughes, the present Managing Director.

Activities included the fabrication of pipe work and pressure vessels, and the erection of pipelines and structural steelwork for the chemical and petrochemical industries.

While working on site, the Company realised that there was often a lack of safety equipment, something that was highlighted when one of its own employees was involved in an accident and suffered chemical burns to his leg and foot.

The only emergency facility on site for washing off the chemical was a



domestic cast iron bath half full of stagnant, contaminated water!

When the Company was invited to provide a solution, it built its first Emergency Safety Shower and before long it had developed a comprehensive range of products. Initially, they were rather basic but feedback from users helped to improve them and introduce refinements such as frost protection and insulation.

In September 1968, J D Hughes Fabrications Limited was formed specifically to manufacture Emergency Safety Shower and Eye/Facewash Equipment. Within a few years it had become the market leader and by the early 1970s it was the largest specialist manufacturer of this type of equipment in Europe.

Towards the end of the 1970s, Tony Hughes took over the running of the business from his father. He drew on his engineering expertise and started to develop his own ideas for the future of the business. This included launching a continuous programme of design and development across the product range, which, together with the introduction of new models, confirmed the Company's commitment to quality in both design and manufacture. Accreditation to BS EN ISO 9002 in 1992 and later

to ISO 9001:2000 was further evidence of this focus on quality. Even today, Hughes is the only company manufacturing heated and insulated shower and eyebath units to this standard.

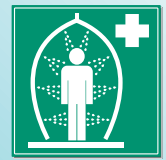
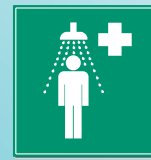
Innovation has always been at the heart of the business. The pioneering and highly acclaimed 'Portaflex' Decontamination Shower, for example, is now used by the majority of fire brigades in the UK and many emergency services around the world.

During the early 1990s the Company developed a complete range of Mass Decontamination Units. Primarily made for the emergency services and the military, they were also adopted by the chemical, petrochemical and associated industries.

In 1997, the Company was renamed and restructured with the formation of the J D Hughes Group Plc. Two trading companies Hughes Safety Showers Ltd and Hughes Water Coolers Ltd became wholly owned subsidiaries. Five years later, the water coolers business was sold so that future investment could be focused exclusively on the specialist safety equipment the Company had now become famous for.



PRODUCTS



95

2010

2025

2040

Hughes Safety Showers Limited supplies most of the UK's major companies and exports to more than 65 countries either directly or through its chain of carefully chosen distributors.

In 2000 Hughes Notduschen GmbH was established to handle sales and distribution in Germany and to support the growing business in Europe. The company was instrumental in gaining DVGW certification for a range of Emergency Safety Showers and Eyebath/Facewash Units, confirming compliance with the DIN EN-15154 (part 1 & 2) European Standard.

As part of this continued global expansion, Hughes entered into a joint venture with Sarnia Piping Specialities (SPS) of Canada in March 2006 and established Hughes North America Inc. Based in Ontario, the Company supplies Hughes products throughout the US and Canada, either directly or through local distributors. New products, such as the cold climate, winterized booths have been specially developed for this market.

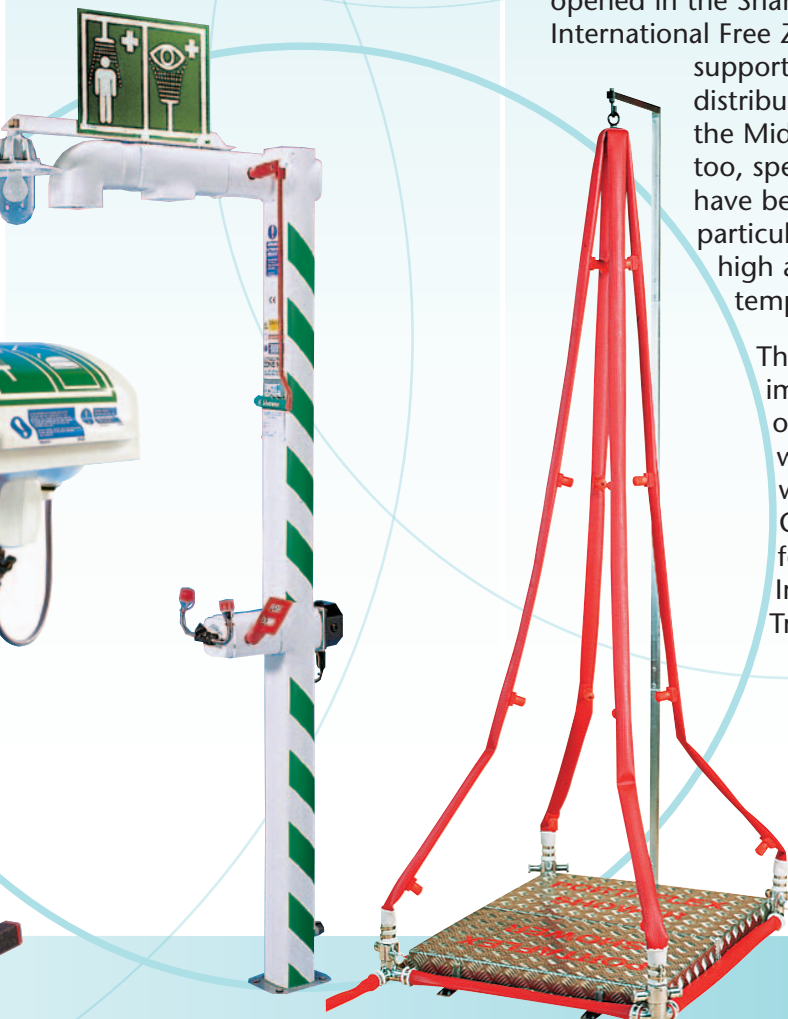
In the same year, a sales office was opened in the Sharjah International Free Zone, UAE to support customers and distributors throughout the Middle East. Here too, specialist products have been developed, particularly for use in high ambient temperatures.

This period of impressive overseas growth was recognised with The Queen's Award for Enterprise: International Trade 2006.



Hughes has since continued to expand its global reach with the opening of a new office in Shenzhen, China in 2008 to ensure that new and existing customers, suppliers and distributors are aware of the Company's product range and to establish Hughes Asia Pacific within this region.

Celebration of Hughes Safety Showers' 40th anniversary in 2008 has marked a significant milestone in the Company's history. The Company is now looking forward to the next 40 years and the challenges of the 21st Century.



Meeting World Standards

ENSURING PROPER PERFORMANCE

There is one World Standard that is internationally recognised covering the design parameters for Emergency Safety Showers and Eye/Facwash Fountains, this is the American National Standard ANSI Z 358.1 2009. Although there are other standards published such as the European Laboratory Shower Standard DIN EN 15154-1 & 2 and the Indian Standard, all the points covered in these are also covered in the more comprehensive American standard.

According to these standards, four essential requirements must be met for Emergency Safety Showers and Eye/Facwash Fountains to function satisfactorily:

1. Adequate water flow, 2. Ease of operation, 3. Instant and positive operation and 4. Reliability.

1. Adequate Water Flow:

Properly designed Emergency Safety Showers with manual valves (not self closing) should deliver a minimum of 75 litres/min (16.6 Imp. gallons/min) from a water pressure of 2.1 Bar (30 psi). Shower heads should produce a conical deluge of water with a diameter of 50 cm at 150 cm from the floor surface when spraying from a height of between 208-244 cm, and the centre of this spray pattern should be 40 cm from any obstruction.

Eye/Facwash Fountains must provide a continuous effective minimum flow of water in the region of 11.5 litres/min (2.5 Imp. gallons/min) at a height of 84-114 cm.

An auxiliary aerated eyebath diffuser on hose should have a flow rate of not less than 1.5 litres/min (1/3 Imp. gallon/min). Higher flow rates for these can usually be achieved by adjusting the flow regulators.

In addition all Emergency Safety Showers and Eye/Facwash Units must provide a continuous effective flow of water at the minimum rated pressure.

2. Ease of Operation:

Activation devices must be simple to use and easily accessible - even if the victim has impaired vision. Stay-open ball valves operated either by hand pull levers, panic bars or a walk-on foot control enable an Emergency Shower to be operated quickly and efficiently delivering a continuous drench for 15 minutes, allowing the casualty to remove any contaminated clothing without having to hold on to a spring return valve. Quick action valves operated by pull handle, treadle foot control, lifting a lid or even pushing a button with the forehead will enable an Eyebath or Eye/Facwash Unit to be operated quickly and efficiently for 10-15 minutes and leave the hands free to hold the eyes open throughout the irrigation. It is a requirement that all personnel exposed to hazardous substances be fully trained in the use of Emergency Shower and Eye/Facwash Equipment.

3. Instant and Positive Operation:

Instant and positive operation is imperative for all Emergency Shower and Eye/Facwash Equipment as every second counts in an emergency.

Water supply valves must open quickly and simply as maximum flooding action must be provided within 1 second.

4. Reliability of Equipment:

Probably the single most important factor when choosing this type of equipment is how well made it is. Units must be capable of performing their required service even after long periods of idleness. Top quality valves operated by jam-proof, robust and corrosion-resistant actuating devices are essential for total reliability. To ensure reliability of units installed outdoors in cold climates, it is essential that these units be freezeproof. Furthermore, when units are installed outdoors in very hot climates, it is equally as important that these units are insulated from the effects of overheating due to solar radiation.



INSTALLATION TIPS

Emergency Safety Showers and Eye/Facewash Units should be within 10 seconds reach if an accident occurs; for strong acids and caustics they must be immediately adjacent to the hazard. Ideally they should be centrally located in a prominent position and not obstructed by heavy traffic or clutter. Such spots are easily remembered by panic-stricken persons. Both Emergency Showers and Eye/Facewash Units should be on the same level as the hazard.

All units should be clearly labelled with pictogram signs to International Standard ISO 3864-1 and wherever possible, green/white stripes or green lights should be used to help identify the Shower and Eye/Facewash areas.

Regardless of the type of fixture installed, only potable water should be used. The inlet water pressure must meet the manufacturers recommended minimum and the supply pipe should have at least the same diameter as the inlet pipe on the equipment - even larger if long lengths of pipe are being used to feed this equipment and especially if only low water pressures are available.

BATTLING CORROSION

It is very important to ensure that Emergency Showers and Eye/Facewash Fountains are corrosion resistant as this adds to their reliability and dramatically increases their life-span. Units made of

conventional materials which are unprotected obviously

deteriorate more rapidly

in corrosive environments

and subsequently require

significantly more maintenance. Corrosion resistant outer jackets or other protective coatings are recommended for use in such areas.

Plastic coating over stainless steel has been found to be one of the most successful methods of eliminating corrosion on operating handles and linkages, as well as the use of stainless steel nuts, bolts and washers. ABS and Glass Reinforced Plastic (GRP) Eye/Facewash bowls have performed well too, even better than stainless steel which can be affected by the chemicals present on some sites.

TEST PROGRAMMES

It is vital that Emergency Safety Showers and Eye/Facewash Fountains be visually inspected every day to make certain that nothing has been placed in or around them which may prevent quick and easy access. Water flow should be checked at least once a week to flush the line and to verify proper operation, and to ensure that the water supply line has not been inadvertently turned off. Eyebaths and Eye/Facewash Fountains should be tested daily and cleaned on a regular basis.

A good maintenance programme for Emergency Safety Showers and Eye/Facewash Fountains is also very important as it can increase their life span and guarantee the equipment's reliability. As well as being beneficial from an employee's point of view, the Health and Safety Executive consider them lifesaving equipment, in the same way as they do fire extinguishers; regular servicing can help satisfy the Health and Safety Executive's Inspector that this equipment is being well maintained.

The COSHH Regulations require that safety equipment is "maintained in an efficient state, in efficient working order and in good repair", also records must be kept of the examinations and tests carried out for a period of at least five years. The ANSI Standard specifies annual inspections and maintenance logs.



Combating Hazards In The Workplace

In Great Britain, the Health and Safety (First-Aid) Regulations 1981 and the Control of Substances Hazardous to Health (COSHH) Regulations 1996 require that Emergency Safety Showers and/or Eye/Facewash Fountains be provided wherever employees may be exposed to external injury from chemicals or other substances hazardous to health.

Typical of such occurrences are the spilling, splashing or spraying of acids, caustics, or other dangerous or corrosive agents.

Other common hazards are fire and explosion. Where flammable liquids are present there is a hazard of clothing becoming ignited, only prompt extinguishing of the flames by an Emergency Shower prevents major injury or death. Splashes of molten metals may also cause ignition of clothing.

Splashing and spraying of hot liquids, and worker exposure to toxic or corrosive dust particles are other situations that may require quick drenching from Emergency Safety Showers and/or Eye/Facewash Fountains to avoid serious injuries.



MEETING THE REQUIREMENTS OF THE HEALTH & SAFETY (FIRST-AID)

REGULATIONS IN LINE WITH THE HEALTH AND SAFETY COMMISSION (HSC) APPROVED CODE OF PRACTICE.

Section 3.-(1) *The Health & Safety (First-Aid) Regulations 1981*

Duty of employer to make provision for first-aid.

3.-(1) An employer shall provide, or ensure that there are provided, such equipment and facilities as are adequate and appropriate in the circumstances for enabling first-aid to be rendered to his employees if they are injured or become ill at work.

FIRST-AID AT WORK

Health and Safety Commission (HSC)
Approved Code of Practice and Guidance

CHEMICAL BURNS

Remove any contaminated clothing which is not stuck to the skin. Flush with plenty of clean, cool water for 10-15 minutes. Apply a sterilised dressing to exposed, damaged skin and send casualty to hospital.

EYES

Loose foreign bodies in the eye:

Wash out eye with clean, cool water.

Chemical in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes.

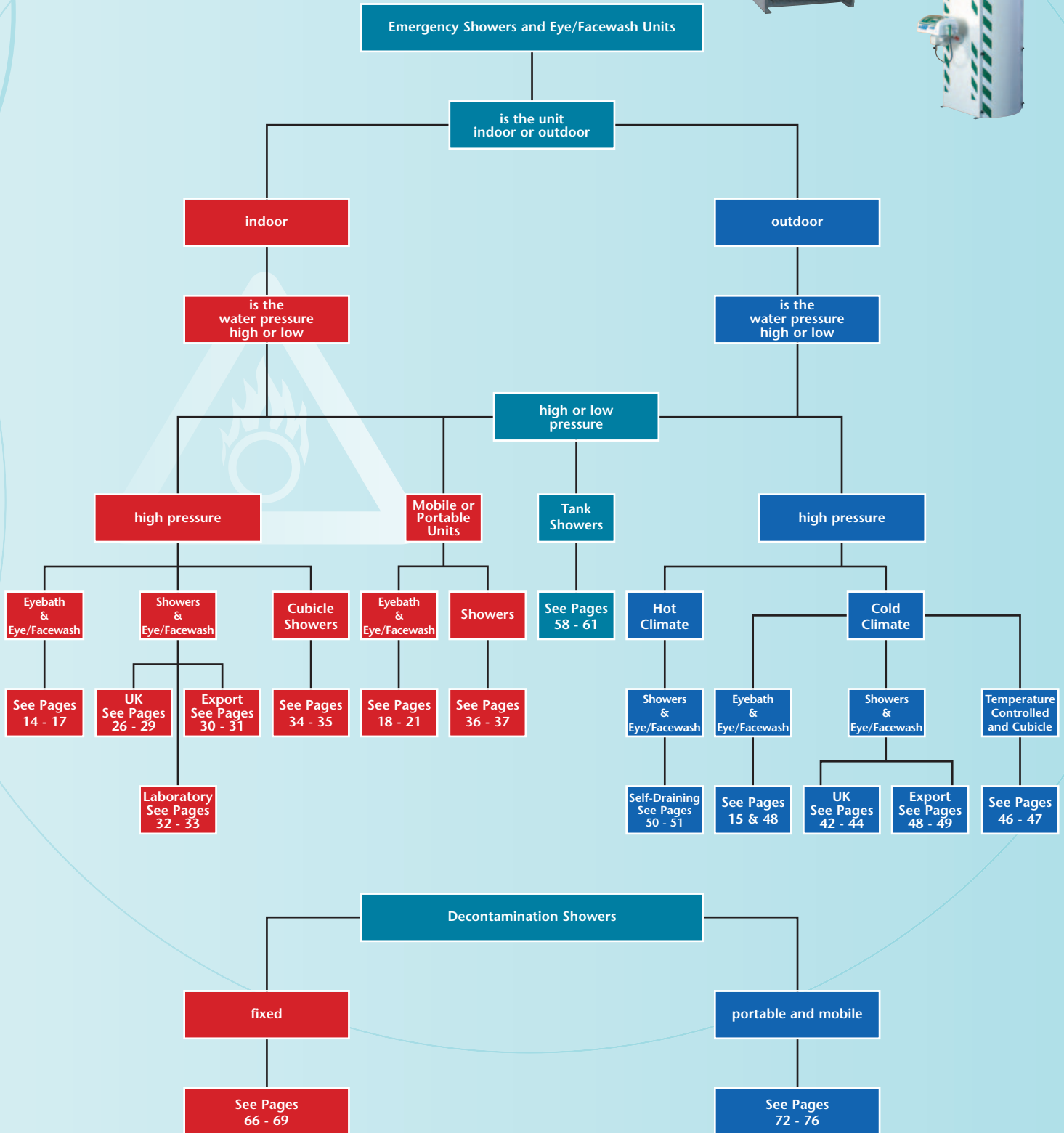
People with eye injuries should be sent to hospital with eye covered with an eye pad.



Selecting a Shower

Throughout industry and other areas where dangerous chemicals or corrosive substances are used there are many different conditions that determine the type of unit to be installed. When choosing this type of emergency equipment, not only is it very important that it has been designed and tested in line with the relevant standard, it is equally important that the correct model is chosen to suit the specific application and location.

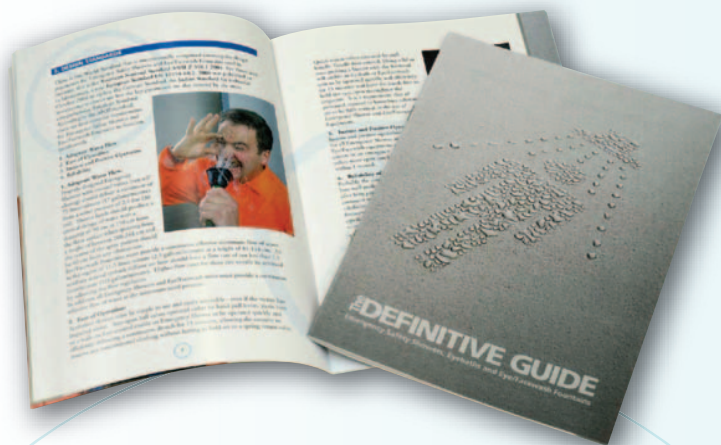
Please use the following flow chart to assist you in finding the best product to suit your needs.



for further information and the latest updates please go to

www.hughes-safety-showers.co.uk

Definitive Guide & Safety Posters



DEFINITIVE GUIDE

A handy 20 page booklet that is essential reading for anyone who is specifying or buying Emergency Safety Showers, Eyebaths and Eye/Facewash Fountains. The 'Definitive Guide' explains in simple language the relevant legislation and international standards. It also offers practical advice for choosing, installing, operating and maintaining the different items of equipment.

"We believe that only when people are in full possession of the facts can they make informed decisions",

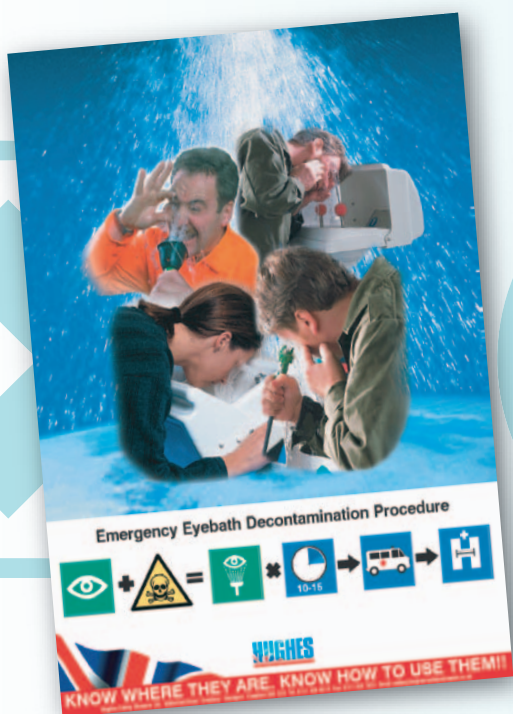
Tony D Hughes, Managing Director
Hughes Safety Showers Ltd

SAFETY POSTERS

It is the responsibility of all employers to ensure that their employees are fully trained in relation to Health and Safety at work. An easy way for a company to provide training for its employees is by the use of Safety Posters. These should be displayed in prominent positions in the vicinity of the hazard to increase awareness in the work place of the existence of this important equipment and to clarify the procedure in case of an emergency.

EYEBATH DECONTAMINATION POSTER

This eye catching wall poster graphically illustrates Emergency Eyebaths in action with a montage of realistic images that are sure to attract attention. It uses internationally recognised symbols to explain the correct procedure to follow in an emergency. Display this colourful poster prominently as a constant reminder of the need for effective first-aid.



SHOWER DECONTAMINATION POSTER

Make sure everyone knows what to do in an emergency. Use this powerful poster to raise awareness and remind them of the correct procedure. Images of showers in use focus attention on what is potentially lifesaving equipment. Used with easily understood symbols they deliver a memorable message. Make the poster a part of your health and safety campaign and ensure that everyone is prepared.

For FREE copies, please contact our Sales Department on:

Tel: +44 (0)161 430 6618

Fax: +44 (0)161 430 7928

E mail: info@hughes-safety-showers.co.uk



Access vital information, whenever you need it. Our website brings products, news and information directly to your desk-top. It's the easiest way to keep up-to-date, whenever and wherever you are. All the information you need is just a click away.



Explore the complete Hughes product range online, including the most recent additions. Find out about the latest legislation and industry standards. Get advice from the experts on the selection, installation and use of Emergency Safety Showers, Eyebaths and Eye/Facewash Fountains. Find out how to take care of your equipment so that it is always ready for action.

The website is also a quick and convenient way to order literature, posters and instructional CDs and DVDs.

Visit us online at:

www.hughes-safety-showers.co.uk



CDs and DVDs

Emergency Safety Showers - 'The Definitive CD-Rom'

An introduction to the Company and its products.

Explore the most comprehensive range of Emergency Safety Showers, Eye/Facewash Fountains and Ancillary Equipment available from any manufacturer. Information on the complete range, plus valuable advice on servicing is also available on the CD.

A training film is also included to help you show employees the correct way to use this vital equipment.

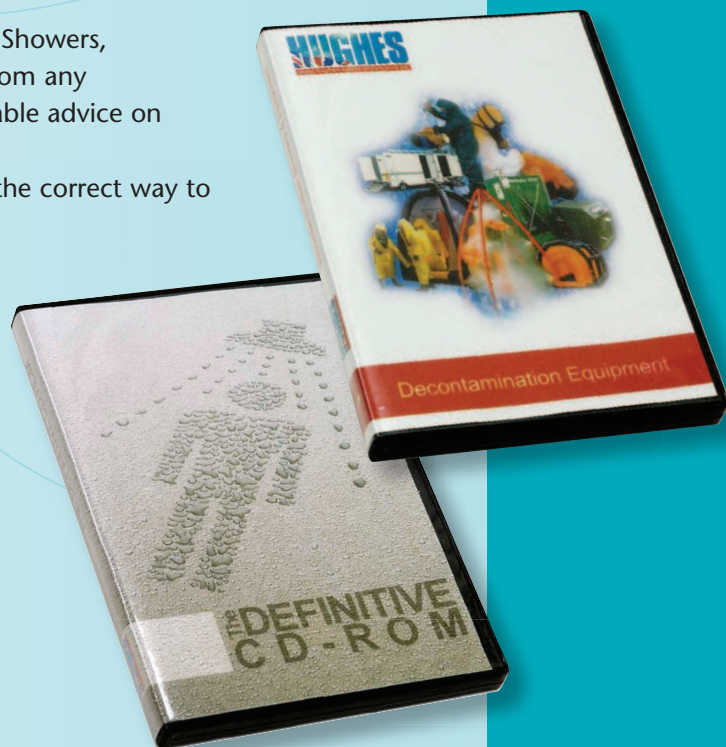
Decon Systems - CD-Rom

'Decontamination explained'

A comprehensive guide to decontamination, covering the complete Hughes range.

This useful CD includes a film with step-by-step instructions on the erection and use of each model together with practical advice on maintenance. It also has an introduction to Hughes and includes a short film explaining the decontamination process and how to select the most appropriate system.

A compilation DVD is also available which includes both CDs.



for further information and the latest updates please go to

www.hughes-safety-showers.co.uk

Site Servicing

QUARTERLY, BI-ANNUAL OR ANNUAL SERVICING FOR EMERGENCY SAFETY SHOWERS, EYEBATHS, EYE/FACEWASH UNITS AND DECONTAMINATION SHOWERS

SERVICE

Regular servicing ensures that Emergency Showers and their ancillary equipment continue to operate safely and effectively. Routine inspections also detect potential problems so that remedial action can be taken to avoid a serious failure, which could have catastrophic consequences.

Free site surveys can be arranged so that companies can assess the condition and suitability of their equipment and the cost of bringing facilities up to date.

Some companies prefer to carry out servicing themselves. However, demands on time and resources, often means that the work is not carried out thoroughly, or even carried out at all! This reduces service life and seriously threatens reliability.

Hughes Service Engineers have a wealth of experience from servicing all makes of Showers, Eyebaths and Eye/Facewash Fountains on sites throughout the country, as well as on the continent. They carry a complete range of spare parts so that any necessary work can be completed quickly and efficiently ensuring that this important safety equipment is fully operational again in the shortest possible time.



INCREASE THE LIFE-SPAN OF YOUR EQUIPMENT, AND SAVE MONEY

It is indisputable that regular maintenance and servicing of Emergency Safety Showers and their ancillary equipment greatly contributes to the length of their safe working life.

ENSURE RELIABILITY IN AN EMERGENCY

This equipment must function perfectly when called upon to do so. Lack of regular maintenance could seriously jeopardise this function.

SATISFY THE HSE INSPECTOR

Regular servicing, with full service history,* will assist in convincing the Health and Safety Executive's Inspectors that your Emergency Safety Equipment is properly maintained and in safe working order.

COMPLY WITH COSHH REGULATIONS

COSHH regulations stipulate that safety equipment must be "maintained in an efficient state, in working order and in good repair". Additionally a full service history* must be kept for a period of at least five years, recording all examinations and tests that have been conducted.

BE SAFE - FEEL SAFER

We are conducting regular site services for a large number of companies. A copy of our service procedure and current rates will be submitted on request. You too will feel safer in the knowledge that your Emergency Safety Equipment is properly maintained.

AUTOMATIC REGULAR SERVICING

The Hughes Site Service Plan can be organised at regular intervals of 3 months, 6 months or 1 year. Just call the Site Service Department on +44 (0)161 430 8070.

PARTS - AVAILABILITY

Our experienced engineers carry a readily available supply of spare parts, enabling them to quickly and efficiently carry out all repairs and servicing. This ensures essential Emergency Safety Equipment is operable at all times.

*** FULL SERVICE HISTORY**

Following each visit you will receive a full report on each unit serviced, all work done, parts fitted, and recommendations etc.



for further information and the latest updates please go to

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The Hughes Product Range



Protect
your
eyes
and
face
from
chemical
splashes

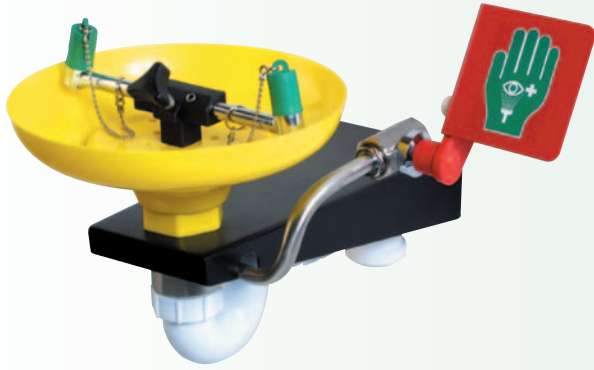
for further information and the latest updates please go to
www.hughes-safety-showers.co.uk

Emergency Eyebath & Eye/Facewash Equipment



Emergency Eyebath & Eye/Facewash Equipment

Plumbed-in Models



Wall, Pedestal or Table/Bench Mounted Emergency Eye/Facewash Fountain with stainless steel bowl, aerated diffusers and flow regulator.

Pedestal mounted model STD-85G/P available in Galvanised or Stainless Steel.

For Table/Bench mounted model see page 32.

All variants available with green powder coated bowl LAB-85GS, LAB-85GS/P & LAB-85GS/T.

Optional Fittings & Technical Details:
See pages 22-24.

STD-75G

Wall or Pedestal Mounted Emergency Eye/Facewash Fountain with yellow ABS plastic bowl, aerated diffusers and flow regulator.

Pedestal mounted model STD-75G/P available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:
See pages 22-24.

STD-85G

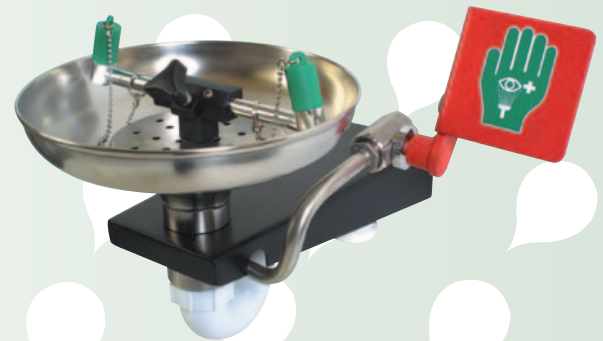


Table or Bench Mounted 'unbreakable' Emergency Eye/Facewash Fountain with integral lid, aerated diffusers, flow regulator and self-adhesive sign.

Optional Fittings & Technical Details:
See pages 22-24.

STD-35G

Wall Mounted Emergency Eyebath and Safety Sign. The eyebath attachment is on a flexible hose incorporating a handle, removable eyebath cup and dust cover.

Optional Fittings & Technical Details:
See pages 22-24.



STD-45G/T



STD-H-25K/P

Pedestal Mounted Emergency Eyebath/Facewash Fountain, trace tape heated and pre-insulated. Suitable for outdoor use. Incorporating an integral lid connected to the water valve which automatically operates the unit when the lid is lifted. The lid also ensures that the bowl remains clean and free from contamination at all times and is fitted with a mirror and first-aid instructions. With additional eyebath diffuser on flexible hose to treat unconscious or disabled personnel.

Available in Galvanised or Stainless Steel.

(Shown with optional foot treadle).

Optional Fittings & Technical Details:
See pages 22-24.



Emergency Eyebath & Eye/Facewash Equipment

In an endeavour to keep abreast of the ever increasing legislation concerning the provision of adequate first-aid equipment and facilities, we have expanded and improved our already comprehensive range of Emergency Eyebath and Eye/Facewash Models.

With our extensive range, we can cater for all possible applications, whether it be in a factory, washroom, laboratory or even a school. All models are built to the highest standards and are designed to be very quick and simple to operate.

Most of the Eyebaths and Eye/Facewashes within this range are designed for use indoors but may be located outdoors in warm climates.

Eyebaths and Eye/Facewash Fountains are designed to wash away contaminants from the eyes and face quickly and continuously for 10-15 minutes or longer, as recommended by the International Health and Safety Organisations.

Eyewash Bottles containing a Saline Solution alone do not meet this criteria; such bottles should only be used after a 10-15 minute wash using a plumbed-in Eyebath or Eye/Facewash Unit.

Approved Code of Practice.

Loose foreign bodies in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes. Cover eye with an eye pad and send casualty to hospital.

Chemical in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes. People with eye injuries should be sent to hospital with eye covered with an eye pad.



STD-25K

Wall or Pedestal Mounted Emergency Eyebath/Facewash Fountain incorporating an integral lid connected to the water valve to automatically operate the unit when the lid is lifted. The lid also ensures that the bowl remains clean and free from contamination at all times and is fitted with a mirror with first-aid instructions. With additional eyebath diffuser on flexible hose to treat unconscious or disabled personnel.

Available in Galvanised or Stainless Steel.

Pedestal mounted model STD-25K/P.

Optional Fittings & Technical Details:
See pages 22-24.



STD-45G

'Unbreakable' Wall or Pedestal Mounted Emergency Eye/Facewash Fountain with integral lid, aerated diffusers, flow regulator and self-adhesive sign.

Pedestal mounted model STD-45G/P available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:
See pages 22-24.

for further information and the latest updates please go to

www.hughes-safety-showers.co.uk

Emergency Eyebath & Eye/Facewash Equipment

Optiflex Hand Held Eye, Face and Body Showers



Hand held Eye, Face and Body Shower with unique lock-on facility. Supplied with flexible 1.5 metre long reinforced hose, a non return valve and a flow regulator.

Optional Fittings & Technical Details:

See pages 22-24.

◀ OPTIFLEX 100

Wall mounted Eye, Face & Body Shower with in-line single nozzle. With wall mounting bracket that incorporates a dust cover.



△ OPTIFLEX 200

Table mounted Eye, Face & Body Shower with in-line single nozzle. With table mounting bracket and dust cover.



OPTIFLEX 300

Wall mounted Eye, Face & Body Shower with 45° angled single nozzle. With taper fit wall mounting bracket and dust cover.



OPTIFLEX 500

Wall mounted Eye, Face & Body Shower with 45° angled double nozzles. With taper fit wall mounting bracket and dust covers.



OPTIFLEX 400

Table mounted Eye, Face & Body Shower with 45° angled single nozzle. With table mounting bracket and dust cover.



OPTIFLEX 600

Table mounted Eye, Face & Body Shower with 45° angled double nozzles. With table mounting bracket and dust covers.

Emergency Eyebath & Eye/Facewash Equipment

OPTIFLEX

A range of wall or table mounted units with the advantage of a lock-on facility.

The Optiflex Eye, Face & Body Shower has been developed to suit all situations where small spillages of chemicals or dangerous substances are hazardous to the health of employees. This comprehensive range has a number of variants, each of which has its own unique advantages. All models have similar standard features, these include:

- Lock-on actuating button, to DIN 12899
- Rubber cups to protect the user
- Fitted dust covers
- Built-in flow regulators and non return valves
- Easy maintenance
- Smart, aesthetic design
- Colour coded to suit International Standards

Approved Code of Practice.

Chemical Burns:

Remove any contaminated clothing that is not stuck to the skin. Flush with plenty of clean, cool water for 10-15 minutes. Apply a sterilised dressing to exposed, damaged skin and send casualty to hospital.

Loose foreign bodies in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes. Cover eye with an eye pad and send casualty to hospital.

Chemical in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes.

People with eye injuries should be sent to hospital with eye covered with an eye pad.

Emergency Eyebath & Eye/Facewash Equipment

Portable Models and Eyewash Stations

STD-38G

Portable Emergency Eye, Face and Body Shower unit. Incorporating an Optiflex Hand Shower with reinforced hose connected to a 14 litre stainless steel cylinder. When pressurised to 8 bar via a schraeder tyre valve this unit will deliver a copious quantity of water for two minutes. Fitted with pressure gauge and dual action safety valve to prevent over pressurisation and to allow user to vent the cylinder for cleaning and maintenance.

Optional Fittings & Technical Details:
See pages 22-24.



STD-58G

Portable Eye/Facewash unit incorporating a 45 litre stainless steel cylinder, fitted with pressure relief valve, pressure gauge and air filler. The Eye/Facewash attachment is fitted with aerated diffuser nozzles with 'Pop-off' dust covers and push lever operation. When pressurised to 7 bar via a schraeder tyre valve this unit will deliver a copious quantity of water for four minutes. The Optiflex Eye, Face and Body Shower can also be fitted and is used for decontaminating parts of the body that have been subject to minor contamination.

Optional Fittings & Technical Details:
See pages 22-24.



STD-28G

Portable, hand-operated, Emergency Eyebath unit, incorporating a 9 litre stainless steel cylinder with pressure gauge and eyebath diffuser on flexible hose. Capable of delivering a copious quantity of aerated water for one and a half minutes. Available complete with wall cabinet if specified.

Optional Fittings & Technical Details:
See pages 22-24.





STD-45G/M

Mobile self-contained Emergency Eye/Facewash Fountain. Suitable for temporary use and capable of delivering a copious quantity of water for over 5 minutes. The Eye/Facewash is made from unbreakable acrylic capped ABS plastic and incorporates an integral lid to ensure that the bowl remains clean and free from contamination at all times. The facewash diffusers are designed to give a gentle

flow of aerated water and are fitted with fine mesh strainers and a flow controller. This unit is easily filled by connecting to a mains water supply via a 15 or 20 mm hose pipe and is then easily manoeuvred to its required position either by hand or by using the 'A' frame (optional) and hooking up to a standard tow ball on a vehicle. The wheel centres can be adjusted to enable the unit to be taken through a standard door opening allowing it to be used in laboratories and work rooms etc. The mild steel cylinder is polypropylene lined to avoid internal corrosion and the exterior is painted with acid resistant white enamel paint. A pressure gauge is fitted to indicate when the cylinder is full. The Optiflex Eye, Face and Body Shower can also be fitted and is used for decontaminating parts of the body that have been subject to minor contamination.

Optional Fittings & Technical Details:
See pages 22-24.



E410

Double Eyewash Station

Wall mounted economy Eyewash Station. Contains 2 x 500ml Sterile Saline Eyewash Bottles and self-adhesive instruction notice.



E425

Eyewash Cabinet

Robust, shatterproof case with clear perspex door to allow content check. Contains 2 x 500ml Sterile Saline Eyewash Bottles and 4 x No.16 Sterile Eyepads. With quick-release wall or bulkhead mounting bracket.



Emergency Eyebath & Eye/Facewash Equipment

PORTABLE MODELS AND EYEWASH STATIONS

Where Eyewash facilities are required at specific locations that are unsuitable for fixed installations the portable range offers an effective solution. It means that emergency treatment can be available at any workplace providing vital first-aid.

They are ideal for large sites, and as part of the on-board first-aid equipment carried by road tankers and other vehicles transporting dangerous chemicals.

Rechargeable cylinder units are convenient and easily carried, providing essential first-aid until the casualty is moved to an Eye/Facewash installation capable of delivering the 10-15 minutes continuous flushing recommended by the International Health and Safety Organisations. Larger mobile units can sustain a longer period of flushing and, with the addition of the Optiflex hand held Shower, both the cylinder and mobile units can be used to wash minor contamination from all parts of the body.

Approved Code of Practice.

Loose foreign bodies in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes. Cover eye with an eye pad and send casualty to hospital.

Chemical in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes.

People with eye injuries should be sent to hospital with eye covered with an eye pad.

for further information and the latest updates please go to

www.hughes-safety-showers.co.uk

Emergency Eyebath & Eye/Facewash Equipment

Self-Contained Eyewash Equipment

PUREFLOW® 1000

Fifteen minute self-contained, gravity fed Primary Eyewash Station. Capable of delivering 26.5 litres of Eyesaline® solution from sealed cartridges at ambient temperature. The cartridges have a 24 month shelf life, thus reducing maintenance costs.

Incorporating integral fluid reservoir to capture waste fluid, therefore eliminating a potential safety hazard. A 'Service Immediately' warning appears when the cartridges have been discharged. Unit comes complete with Wall Bracket. Shown with Universal Cart option. Cartridges not supplied with unit.

Optional Fittings & Technical Details:

See pages 23-24.





◀ PORTA STREAM™ I

Six minute gravity fed Secondary Eyewash Station. Capable of delivering 22 litres of flushing solution at ambient temperature. Portable, but can be wall, table or cart mounted. Includes Defend® Water Preservative and Wall Bracket.

Optional Fittings & Technical Details:

See pages 23-24.



◀ PORTA STREAM™ II

Fifteen minute self-contained, gravity fed Primary Eyewash Station. Capable of delivering 60 litres of flushing solution at ambient temperature. Can be wall, table or cart mounted. Incorporates a lockable fill cap to reduce the risk of tampering with the solution. Includes Defend® Water Preservative and Wall Bracket.

Optional Fittings & Technical Details:

See pages 23-24.

▶ FLASH FLOOD™

Three minute gravity fed Secondary Eyewash Station. Delivers Eyesaline® Solution from a 3.78 litre cartridge. Portable, but can be wall, table or cart mounted. Replace cartridge after unit is activated, or every six months. Comes complete with one cartridge. Shown with optional FlashFlood Cartridges and Wire Storage Rack.

Optional Fittings & Technical Details:

See pages 23-24.



Emergency Eyebath & Eye/Facewash Equipment

FENDALL

A comprehensive range of self-contained Emergency Eyewash products. Designed for remote area flushing of the eye after mild contamination, or after flushing with a plumbed-in Eye/Facewash for stronger acids or caustics. Ideally suited for location in first-aid rooms for the secondary flushing of the eyes and face.

The Pureflow® 1000 and the Porta Stream™ II & III are SEI Certified to meet the requirements of the American Standard ANSI Z358.1-2009. Highlights from this standard are as follows:

'Self-contained Eyewashes'

- Maintain a minimum flow rate of 1.5 litres per minute for 15 minutes.
- Flushing fluid temperature must be tepid.

Approved Code of Practice.

Loose foreign bodies in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes. Cover eye with an eye pad and send casualty to hospital.

Chemical in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes. People with eye injuries should be sent to hospital with eye covered with an eye pad.

Optional Fittings Eyebath & Eye/Facewash



- Pictogram Eyewash Sign**
 To International Standard ISO 3864-1, white on green background. Either stove enamelled on aluminium plate and over-laquered for extra protection, or screen printed on plastic.



- Fine Mesh Filter**
 High quality 1/2" BSP Brass 'Y' Strainer with 100 mesh 316L stainless steel filter basket.



- Proximity Switch**
 Magnetically operated Proximity Switch complete with brackets and weatherproof junction box. To actuate remote alarm when eyebath/facewash is being operated.



- Treadle Foot Control**
 Powder Coated Stainless Steel Treadle Type Foot Control with all linkages and brackets. Used as an alternative means of actuating eye/facewash, leaving hands free.



- Wall mounted Cabinets to hold STD-28G and STD-38G**
 Manufactured from white GRP, complete with Eyewash Sign and green and white safety stripes. Incorporating quick pull open door to allow easy access. With clear perspex window for easy inspection of the eyewash units.

- Hose Box for Optiflex**
 Powder coated zinc plated Hose Box for end of bench or wall mounting. Ensuring increased visibility and neat 'hazard free' hose storage.



- Wall mounting bracket**
 The Optiflex 100 comes as standard with a robust polycarbonate wall mounting bracket with integral dust guard. If preferred the taper fit wall mounting bracket can be supplied instead.

- 'A' Frame Towing Hitch**
 For transporting the mobile self-contained Eye/Facewash Fountain an optional 'A' frame attachment is available, which is easily and quickly locked in position and attached to a vehicle towing bracket using a ball type hitch. When not in use this rotates into its convenient storage position.



- 3 metre Spring Coiled Hose**
 Spring Coiled Hose to allow longer reach, enabling the decontamination of unconscious or disabled personnel.



h Equipment

- **Eyesaline® Concentrate**

For use with Porta Stream™ I, II & III and other self-contained eyewashes. Mix with clean, potable water in a ratio of 1:10 to prepare a preserved, buffered saline solution. Replace solution every six months. Each container is safety sealed.



- **Defend® Water Preservative**

An easy to mix liquid formulated to inhibit the growth of harmful bacteria in self-contained eyewash stations. One 1/4 litre bottle will preserve just over 60 litres of water ie three Porta Stream™ I's, or one Porta Stream™ II (or III). Defend® Water Preservative has a three year shelf life, unopened.

- **Waste Fluid Disposal Cart**

This heavy-duty polyethylene, wheeled Disposal Cart provides an easy means of collecting used flushing fluid at the emergency eyewash station. The top surface is concave with a centre drain for improved fluid collection and the unit has a capacity of over 100 litres. The Cart has a moulded-in handle to assist movement but if required can be securely fitted onto the Universal Cart.



- **Universal Cart**

Designed for easy movement, with sturdy steel construction and durable finish.



- **Pureflow® 1000 Fluid Cartridges**

Set of two cartridges. Each cartridge holds 13 1/4 litres of Eyesaline® solution. Expiry date is printed on pull strap.



- **Eyewash Station Cleaning Kit**

Complete with 1/4 litre of water preservative and specially designed brush to clean all crevices.



- **Dust Cover for Porta Stream™ I & II**

Prevents the accumulation of dust and debris thus ensuring that the eyewash station is always ready for immediate action.

- **Flash Flood Refill Cartridges**

One gallon cartridges of Eyesaline® solution, ready for use. Supplied in packs of four (Illustrated on page 20).

- **Wire Storage Rack**

Holds four Flash Flood Cartridges. Extends the flushing time of the Flash Flood Eyewash Station up to fifteen minutes (Illustrated on page 20).

Emergency Eyebath & Eye/Facewash Equipment

A wide range of optional fittings are available for use with Eyebaths and Eye/Facewash Fountains. They are designed to contribute towards the effectiveness of the equipment by enhancing its performance and making it easier to use in cases of emergency.

Quality is the key consideration for any safety equipment and all optional fittings are designed and built to the same high standards adopted throughout the Hughes range. Careful choice of materials ensures reliable operation and a long, trouble-free life.

Care must be taken wherever water is left standing for lengthy periods, as in the case of portable eyewash equipment. The eyes are particularly susceptible to infection and damage, and to flush them with contaminated water could be counter productive. To ensure that standing water remains safe to use, Hughes offer a range of additives to inhibit the growth of potentially harmful bacteria. Cleaning kits are also available for routine use to maintain safe, hygienic conditions.

for further information and the latest updates please go to

www.hughes-safety-showers.co.uk

Optional Fittings and Technical Details

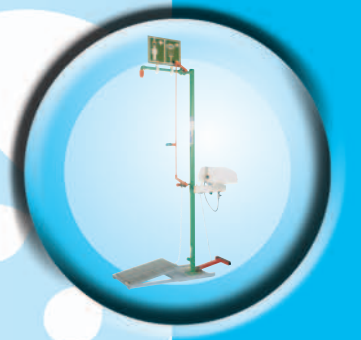
	Optional Fittings																		
	Eyewash Sign	Treadle Foot Control	Proximity Switch	Additional Fine Mesh Filter	Optiflex Eye, Face & Body Shower	Hose Box	Spring Coiled Hose	Taper Fit Wall Mounting Bracket	GRP Cabinet	'A' Frame Towing Hitch	Pureflow® Fluid Cartridges (2 pack)	Defend® Water Preservative (4 pack)	Eyesaline® Concentrate (2 or 5 litres)	Dust Cover	Waste Fluid Disposal Cart	Universal Cart	Cleaning Kit	Refill Cartridges (4 pack)	Wire Storage Rack (holds 4 cartridges)
STD-35G	●			●															
STD-45G (& 45G/P)	●	●	●	●	●														
STD-45G/T	●		●	●															
STD-75G (& 75G/P)	●	●	●	●	●														
STD-85G (& 85G/P)	●	●	●	●	●														
STD-25K (& 25K/P)	●	●	●	S															
STD-H-25K/P	●	●	●	S															
OPTIFLEX	●			●		●	●	●											
STD-28G	●								●		●	●							●
STD-38G	●								●		●	●							●
STD-45G/M					●		●		●										
STD-58G					●		●				●	●							●
PUREFLOW 1000	●									●						●	●		
PORTA STREAM I	●										●	●	●	●	●	●	●		
PORTA STREAM II	●										●	●	●	●	●	●	●		
PORTA STREAM III	●										●	●		●	●	●			
FLASH FLOOD	●													●	●	●	●	●	●

S denotes standard fitting

Technical Details

	Stainless Steel	Depth mm	Width mm	Height mm	Weight kg	Inlet Size (" inches) BSP	Min. Pressure kg/cm ² (bar g)	Water Flow l/min
Eyebaths								
STD-35G	-	115	340	175	2	15mm Compression or 1/2" Male	1.5	10
STD-45G	-	340	340	205	3	15mm Compression or 1/2" Male	2	20
STD-45G/P	STD-45GS/P	365	340	1175	10	1 1/4" Female	2	20
STD-45G/T	-	265	340	300	3.5	15mm Compression or 1/2" Male	2	20
STD-75G	STD-85G	400	410	315	3.5	15mm Compression or 1/2" Male	2	12
STD-75G/P	STD-75GS/P	510	285	1175	8	1 1/4" Female	2	12
STD-85G/P	STD-85GS/P	510	285	1175	8	1 1/4" Female	2	12
STD-25K	STD-25KS	565	475	390	13	1/2" Male	2.2	30
STD-25K/P	STD-25KS/P	580	475	1130	20	1 1/4" Male	2.2	30
STD-H-25K/P	STD-H-25KS/P	720	475	1130	26	1 1/4" Male	2.2	30
OPTIFLEX	-	70	70	230	1	1/2" Female	1.5	8
STD-28G	-	180	180	650	3.5	-	7	6
Cabinet for 28G	-	250	330	800	4	-	-	-
STD-38G	-	220	220	725	5.5	-	8	8
STD-45G/M	-	1170	780	1430	80	1/2" Quick Release Coupling	2	20
STD-58G	-	292	375	965	11	-	8	12

Indoor Unheated Emergency Safety Showers



Indoor Unheated Emergency Safety Showers

Premium Range Unheated Indoor Models



STD-18K

Unheated Emergency Safety Shower.
(Shown with optional Optiflex).

Available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:

See pages 38-40.



STD-20K

Unheated Emergency Safety Shower with additional Body Spray.
(Shown with optional Optiflex).

Available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:

See pages 38-40.



Showers

◀ STD-23K/V

Unheated Ceiling Mounted Emergency Safety Shower with ceiling mounting plate. (Shown with optional Shower Rose).

Available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:
See pages 38-40.

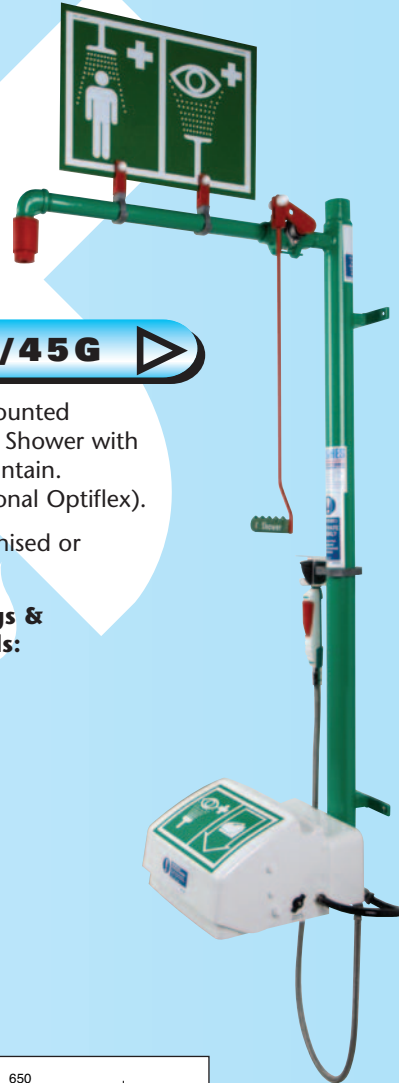
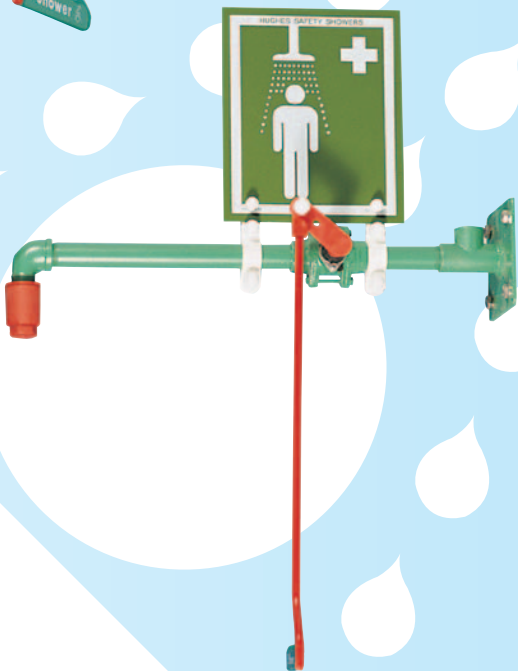


▶ STD-33K/45G

Unheated Wall Mounted Emergency Safety Shower with Eye/Facewash Fountain. (Shown with optional Optiflex).

Available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:
See pages 38-40.



▲ STD-23K/H

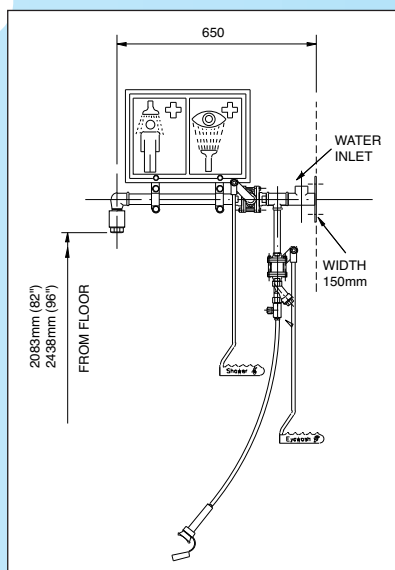
Unheated Wall Mounted Emergency Safety Shower with wall mounting plate.

Available in Galvanised or Stainless Steel.

Also available as over-door model STD-23K/OD.

Note: Similar model available with additional eyebath diffuser on hose - model STD-23K/24K/H (see drawing). Available without wall mounting plate - models STD-23K & STD-23K/24K.

Optional Fittings & Technical Details:
See pages 38-40.



▲ STD-23K/24K/H

Premium Range Unheated Indoor Models

A heavy duty range of Unheated Emergency Safety Showers and Eyebath/Facewash models, designed to suit the rigorous requirements of heavy industry. For use in all applications not subject to the possibility of freezing or overheating, depending on local ambient conditions.

The scope of this range extends from simple wall or ceiling mounted units to free standing models complete with Body Spray and Eyebath/Facewash Fountain.

Models are available with tubulars either of galvanised carbon steel protected by International Safety Green enamel paint, or alternatively, of semi-polished stainless steel. As a further option, the galvanised units are available unpainted at a discounted price.

Approved Code of Practice.

Chemical burns:
Remove any contaminated clothing which is not stuck to the skin. Flush with plenty of clean, cool water for 10-15 minutes. Apply a sterilised dressing to exposed, damaged skin and send casualty to hospital.

Chemical in the eye:
Wash out the open eye continuously with clean, cool water for 10-15 minutes. Cover eye with an eye pad and send casualty to hospital.

for further information and the latest updates please go to

www.hughes-safety-showers.co.uk

Indoor Unheated Emergency Safety Showers

Premium Range Unheated Indoor Models

STD-18K/25K

Unheated Emergency Safety Shower with Eye/Facewash Fountain and additional eyebath diffuser on flexible hose to treat unconscious or disabled personnel.

Available in Galvanised or Stainless Steel.

Note: Eyebath/Facewash orientation can be varied to suit clients' requirements.

Optional Fittings & Technical Details:

See pages 38-40.

STD-18K/45G

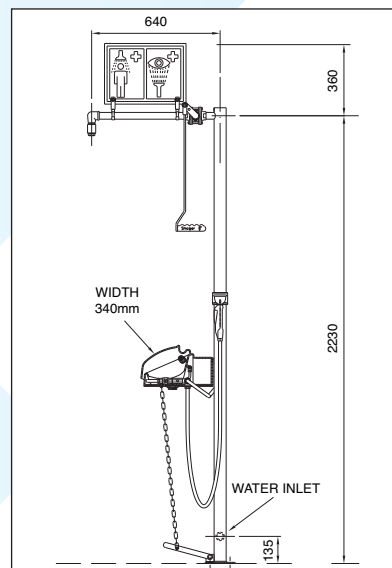
Unheated Emergency Safety Shower with Eye/Facewash Fountain.
(Shown with optional Optiflex).

Available in Galvanised or Stainless Steel.

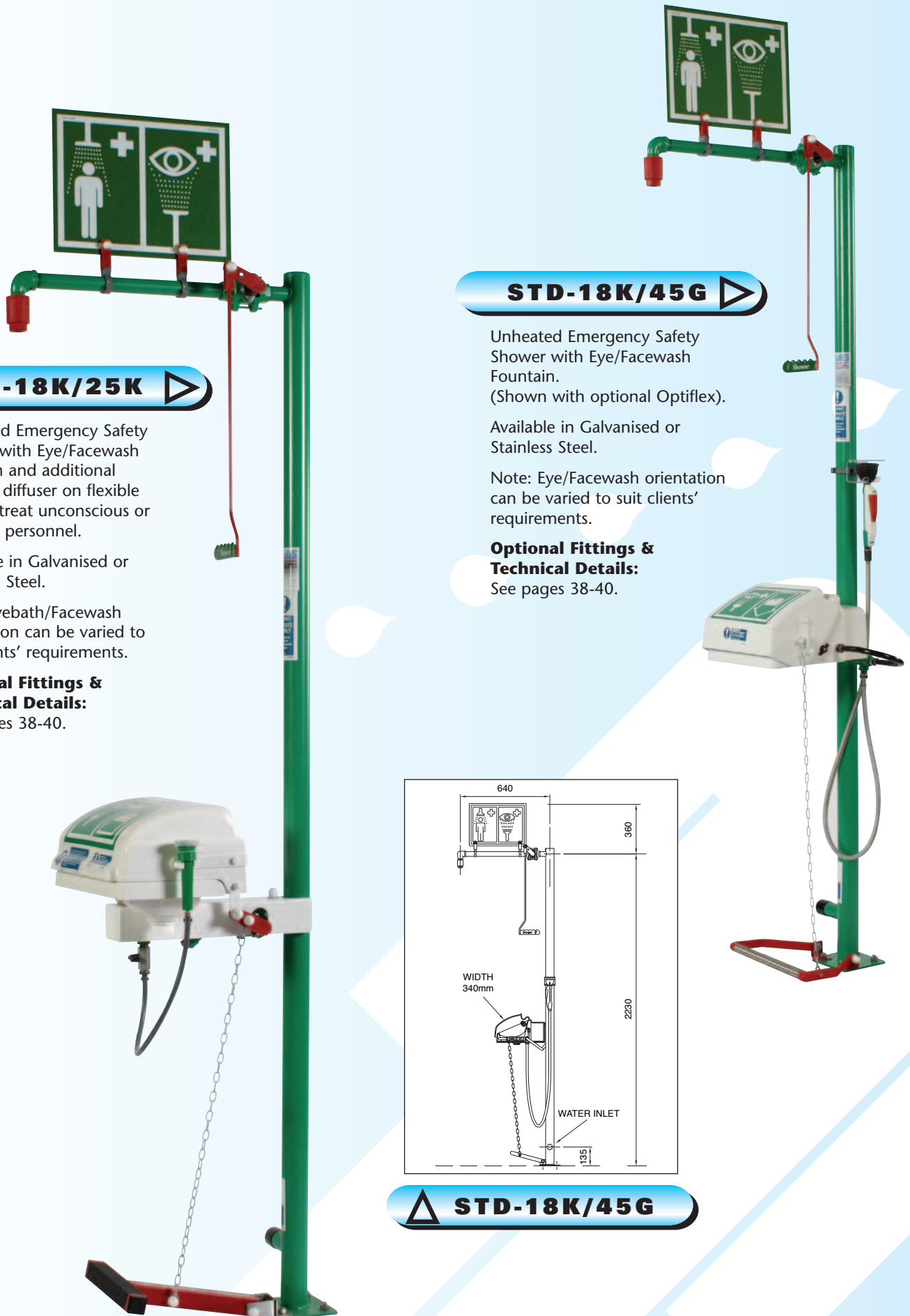
Note: Eye/Facewash orientation can be varied to suit clients' requirements.

Optional Fittings & Technical Details:

See pages 38-40.



STD-18K/45G





Premium Range Unheated Indoor Models

A heavy duty range of Unheated Emergency Safety Showers and Eyebath/Facewash models, designed to suit the rigorous requirements of heavy industry. For use in all applications not subject to the possibility of freezing or overheating, depending on local ambient conditions.

The scope of this range extends from simple wall or ceiling mounted units to free standing models complete with Body Spray and Eyebath/Facewash Fountain.

Models are available with tubulars either of galvanised carbon steel protected by International Safety Green enamel paint, or alternatively, of semi-polished stainless steel. As a further option, the galvanised units are available unpainted at a discounted price.

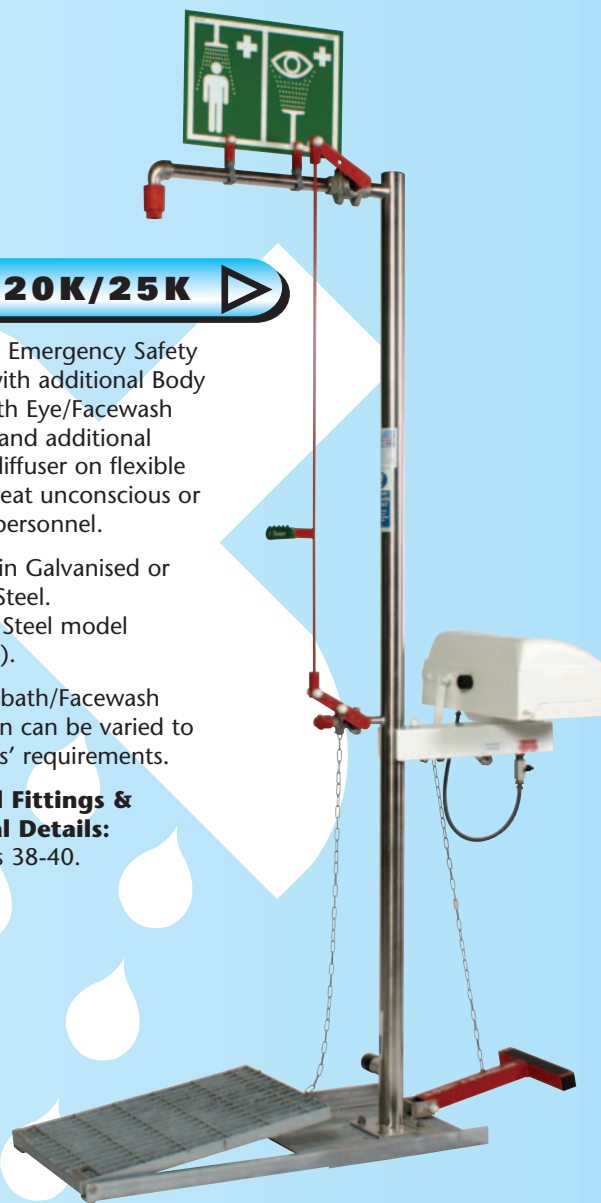
STD-20K/25K

Unheated Emergency Safety Shower with additional Body Spray. With Eye/Facewash Fountain and additional eyebath diffuser on flexible hose to treat unconscious or disabled personnel.

Available in Galvanised or Stainless Steel. (Stainless Steel model illustrated).

Note: Eyebath/Facewash orientation can be varied to suit clients' requirements.

Optional Fittings & Technical Details:
See pages 38-40.



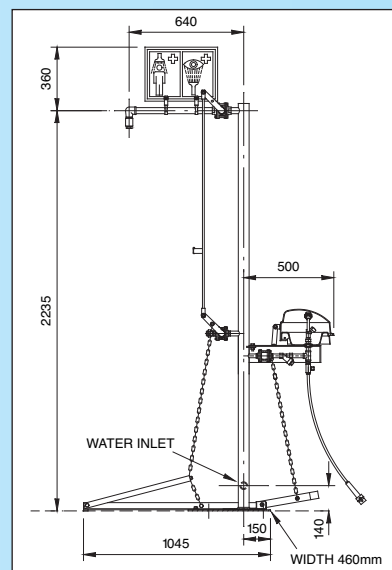
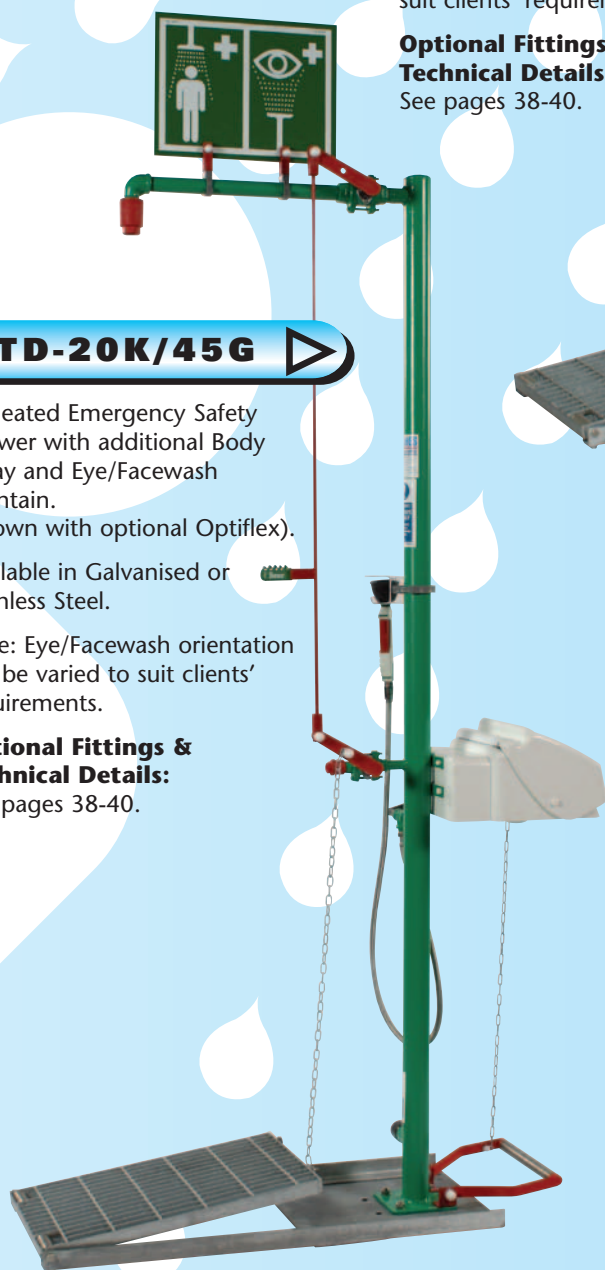
STD-20K/45G

Unheated Emergency Safety Shower with additional Body Spray and Eye/Facewash Fountain. (Shown with optional Optiflex).

Available in Galvanised or Stainless Steel.

Note: Eye/Facewash orientation can be varied to suit clients' requirements.

Optional Fittings & Technical Details:
See pages 38-40.



STD-20K/25K

Approved Code of Practice.

Chemical burns:

Remove any contaminated clothing which is not stuck to the skin. Flush with plenty of clean, cool water for 10-15 minutes. Apply a sterilised dressing to exposed, damaged skin and send casualty to hospital.

Chemical in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes. Cover eye with an eye pad and send casualty to hospital.

for further information and the latest updates please go to
www.hughes-safety-showers.co.uk

Indoor Unheated Emergency Safety Showers

Export Range

Unheated Indoor Models



EXP-23G/H

Unheated Wall Mounted Emergency Safety Shower with wall mounting plate.

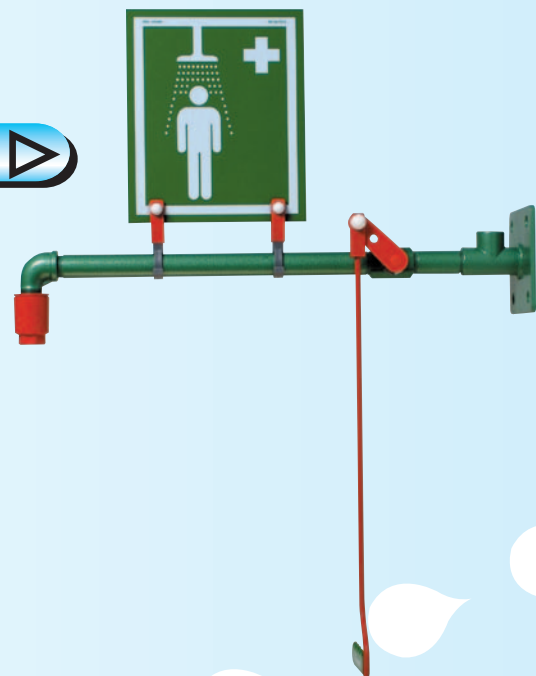
Available in Galvanised or Stainless Steel.

Note: Available without wall mounting plate EXP-23G.

Also available as over-door model EXP-23G/OD.

Optional Fittings & Technical Details:

See pages 38-40.



EXP-23G/V

Unheated Ceiling Mounted Emergency Safety Shower with ceiling mounting plate. (Shown with optional Shower Rose).

Available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:

See pages 38-40.



EXP-20G

Unheated Emergency Safety Shower with additional Body Spray.

Available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:

See pages 38-40.

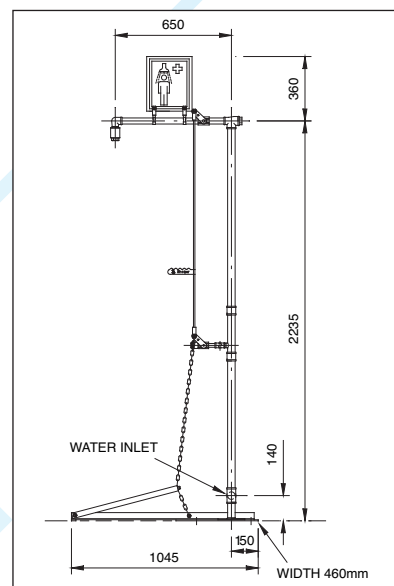
EXP-18G

Unheated Emergency Safety Shower. (Shown with optional Optiflex).

Available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:

See pages 38-40.



Showers

Export Range Unheated Indoor Models

A general purpose range of Unheated Emergency Safety Showers and Eyebath/Facewash models designed specifically for export and suitable for use in industry in all applications not subject to the possibility of freezing or overheating.

The scope of this range extends from simple wall or ceiling-mounted units to free standing models complete with Body Spray and Eye/Facewash Fountain. Those models fitted with Eye/Facewash Fountains normally have a low level water inlet but are also available with high level water inlet and Eye/Facewash drain piped to floor level (denoted by suffix-T).

To allow them to be easily exported all units are made up of separate modules to facilitate economic packing in relatively small boxes, thus greatly reducing packing and shipping costs. The modules are easily assembled on site with a minimum of product knowledge. Models are available with tubulars either of galvanised carbon steel protected by green Hammerite enamel, or alternatively of semi-polished stainless steel. As a further option, the galvanised units are available unpainted at a discounted price.

Approved Code of Practice.

Chemical burns:

Remove any contaminated clothing which is not stuck to the skin. Flush with plenty of clean, cool water for 10-15 minutes. Apply a sterilised dressing to exposed, damaged skin and send casualty to hospital.

Chemical in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes. Cover eye with an eye pad and send casualty to hospital.

EXP-18G/75G

Emergency Safety Shower with Eye/Facewash Fountain. With high level water inlet and Eye/Facewash drained to floor level.

Available in Galvanised or Stainless Steel.

Note: Eye/Facewash orientation can be varied to suit clients' requirements.

Available with Stainless Steel Eye/Facewash bowl EXP-18G/85G.

Optional Fittings & Technical Details:

See pages 38-40.



EXP-20G/45G

Unheated Emergency Safety Shower with additional Body Spray and Eye/Facewash Fountain. With low level water inlet.

(Shown with optional Optiflex).

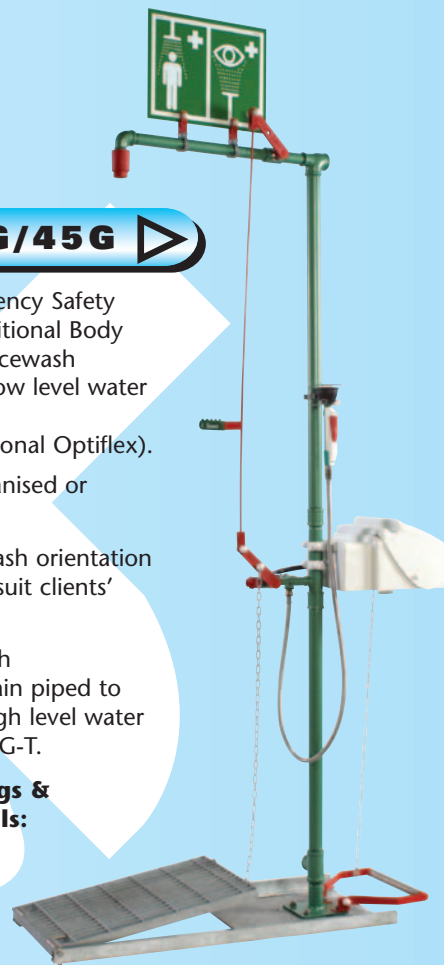
Available in Galvanised or Stainless Steel.

Note: Eye/Facewash orientation can be varied to suit clients' requirements.

Also available with Eye/Facewash drain piped to floor level and high level water inlet EXP-20G/45G-T.

Optional Fittings & Technical Details:

See pages 38-40.



EXP-18G/45G

Unheated Emergency Safety Shower with Eye/Facewash Fountain. With low level water inlet.

(Shown with optional Optiflex).

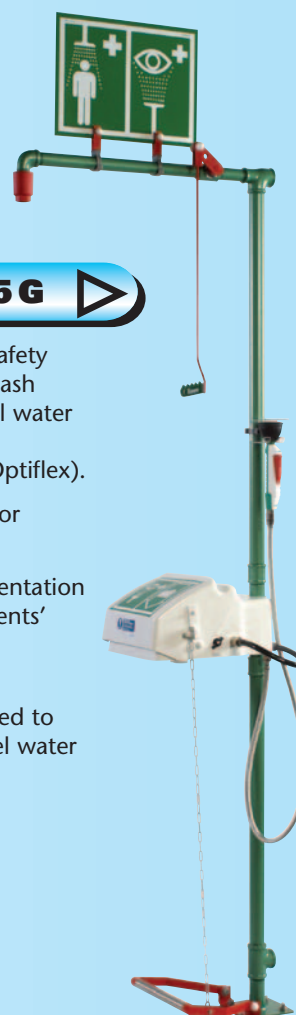
Available in Galvanised or Stainless Steel.

Note: Eye/Facewash orientation can be varied to suit clients' requirements.

Also available with Eye/Facewash drain piped to floor level and high level water inlet EXP-18G/45G-T.

Optional Fittings & Technical Details:

See pages 38-40.



for further information and the latest updates please go to

www.hughes-safety-showers.co.uk

Indoor Unheated Emergency Safety Showers

Laboratory and Light Duty Models



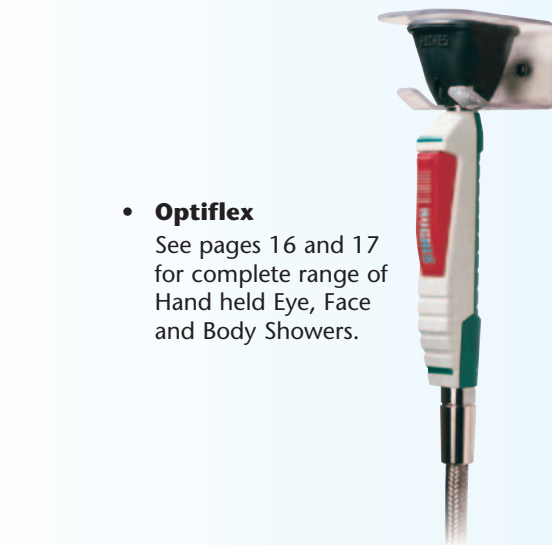
◀ LAB-23GS/V ▶

Ceiling Mounted Laboratory Shower with shower rose and ceiling flange.

Note: Made to measure depending on ceiling cavity dimensions.

Optional Fittings & Technical Details:

See pages 38-40.



- **Optiflex**

See pages 16 and 17 for complete range of Hand held Eye, Face and Body Showers.

◀ LAB-23GS/H ▶

Wall Mounted Laboratory Shower with shower rose and wall mounting plate.

Note: Available with flanged ceiling mounted shower rose and without wall mounting plate LAB-23GS.

Also available as over-door model LAB-23GS/OD

Optional Fittings & Technical Details:

See pages 38-40.



◀ LAB-85GS/T ▶

Table or Bench Mounted Emergency Eye/Facewash Fountain with flush fitting bowl and twin spray aerated nozzles fitted with dust covers. The water jets lift off the dust covers when operated and the height of the jets is adjustable using a flow regulator valve. Push plate operated.

Note: Available as a wall mounted unit LAB-85GS, or as a pedestal mounted unit LAB-85GS/P see page 14.

Optional Fittings & Technical Details:

See pages 38-40.



Showers



LAB-18GS/34G ▶

Laboratory Emergency Shower with Eye/Facewash Fountain. The shower has a shower rose and is pull rod operated, whereas the Eye/Facewash has twin spray aerated nozzles with dust covers and is push plate operated. The water jets lift off the dust covers when operated and the height of the jets is adjustable using an integral flow regulator valve. (Shown with optional Optiflex).

Wall mounted model LAB-33GS/34G.

Optional Fittings & Technical Details:

See pages 38-40.

STD-45G/T ▼

Table or Bench Mounted 'unbreakable' Emergency Eye/Facewash Fountain with integral lid, aerated diffusers, flow regulator and self-adhesive sign.

For Wall or Pedestal mounted versions see page 15.

Optional Fittings & Technical Details:

See pages 38-40.



Light Duty Emergency Safety Showers & Eye/Facewash Fountains

A range of unheated Emergency Safety Showers and Eye/Facewash Fountains ideal for laboratories, schools, store rooms and general light duty indoor use. This simple range of easy to fit models meets the requirements of the new European Standard for Laboratory Showers & Eye/ Facewashes. Models are available with welded Stainless Steel pipework with an easy to clean green polyester finish, or with Galvanised pipework finished in green enamel paint. Stainless Steel models are denoted with the suffix 'S'.

The white operating elements provide easy location and operation even if vision is impaired in an emergency situation.

Note

Not for use in factories or where large spills could occur.

Approved Code of Practice.

Chemical Burns:

Remove any contaminated clothing that is not stuck to the skin. Flush with plenty of clean, cool water for 10-15 minutes. Apply a sterilised dressing to exposed, damaged skin and send casualty to hospital.

Loose foreign bodies in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes. Cover eye with an eye pad and send casualty to hospital.

Chemical in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes.

People with eye injuries should be sent to hospital with eye covered with an eye pad.

for further information and the latest updates please go to

www.hughes-safety-showers.co.uk

Indoor Unheated Emergency Safety Showers

Emergency Cubicle Showers

STD-SD-31K



Multi-Nozzle Emergency Cubicle Decontamination Shower. Foot Panel Operated. (Shown with optional Eye/Facewash Fountain).

Optional Fittings & Technical Details:

See pages 38-40.





STD-SD-32K

Emergency Cubicle Shower with single overhead spray. (Shown with optional Eye/Facewash Fountain).

Optional Fittings & Technical Details:

See pages 38-40.

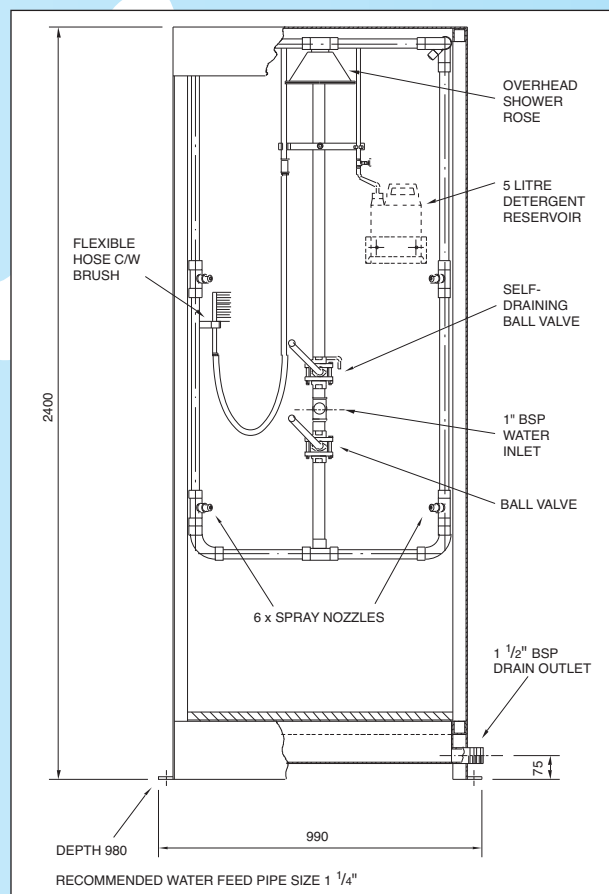


STD-SD-31K/V

Two Stage Multi-Nozzle Cubicle Decontamination Shower complete with Detergent Inducer and Hose Brush.

Optional Fittings & Technical Details:

See pages 38-40.



Premium Range Unheated Cubicle Showers

A range of Emergency Cubicle Showers which have been designed to bridge a gap in the Emergency and Decontamination Shower market. This innovative range has been designed in conjunction with industry as a direct response to customer special requirements.

Using distinctive white GRP panelling, these units stand out from their surroundings and thus enhance safety awareness. These cubicle models are ideal in situations where a shower needs to be totally enclosed, particularly if space is at a premium or where a shower requires its own designated area due to clutter. Being fully self contained, they are mainly installed where it is imperative that there is no overspray of water outside the shower area.

All models are available with a number of optional fittings to enable them to suit a wide range of applications.

A valuable option to this Cubicle Range is the latest design of Eye/Facewash which can be installed either inside or outside the cubicle or supplied separate for remote installation on a nearby wall.

Indoor Unheated Emergency Safety Showers

Mobile and Portable Emergency Safety Showers



STD-40K

Model STD-40K has a capacity of approximately 110 litres (25 gallons) and gives a constant flow of water for over 1½ minutes.

The specially designed plastic lined cylinder is constantly charged with pressure and only requires the connection of a hose from a water main to fill it with water ready for use.

Its compact design enables it to be easily stored when not being used.

By incorporating a stainless steel frame and large diameter pneumatic tyres this cylinder can easily be moved and manoeuvred by one man.

Should it be necessary to move the unit long distances or over uneven surfaces an 'A' frame with towing hitch (optional) can be fitted which enables it to be towed by any vehicle fitted with a standard tow ball.

The wheel spacing can also be altered which allows the unit to go through standard door openings. This is particularly important when requiring its use indoors in a laboratory or acid store etc.

(Shown with optional Eye/Facewash Fountain and Optiflex).

Optional Fittings & Technical Details:

See pages 38-40.



Showers

Portable Emergency Shower



PORTAdec 1000G

The PORTAdec 1000G is a Portable Emergency Shower which can be erected and ready for use within two minutes.

The PORTAdec 1000G is ideally suited for use as a temporary Emergency Shower for washing chemical off the skin, or for use as a domestic shower for normal showering purposes.

The PORTAdec 1000G incorporates a robust foldaway frame with integral hood.

The shower system consists of an overhead central shower nozzle with two lower body jets, all operated by a pull rod handle. The water inlet is a quick coupling fitted to 22mm (1") lay flat supply hose, which feeds the shower system.

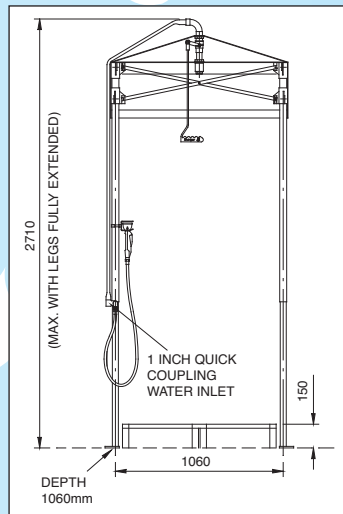
The PORTAdec 1000G can be connected either directly to a water main or to the PORTAheater (see page 77), which can supply two units with warm or hot water simultaneously.

For storage purposes this unit is stored in a heavy duty 'hold-all'.

Also available with side sheeting, sump and GRP foldaway flooring.

Optional Fittings & Technical Details:

See pages 38-40.



Mobile and Portable Emergency Safety Showers

When personnel are operating in areas where dangerous substances or hazardous chemicals are present Mobile Emergency Safety Showers are necessary for standby use when no water supply is available or a constant supply of water cannot be relied upon.

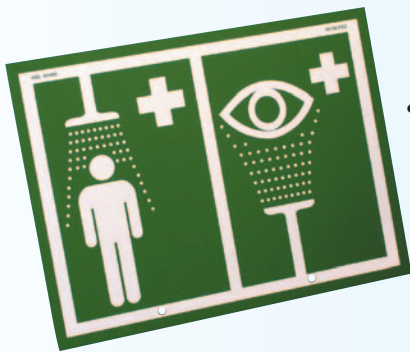
Portable Emergency Safety Showers are necessary when fixed units are not available or are temporarily out of commission.

Approved Code of Practice.

Chemical Burns:

Remove any contaminated clothing that is not stuck to the skin. Flush with plenty of clean, cool water for 10-15 minutes. Apply a sterilised dressing to exposed, damaged skin and send casualty to hospital.

for further information and the latest updates please go to www.hughes-safety-showers.co.uk

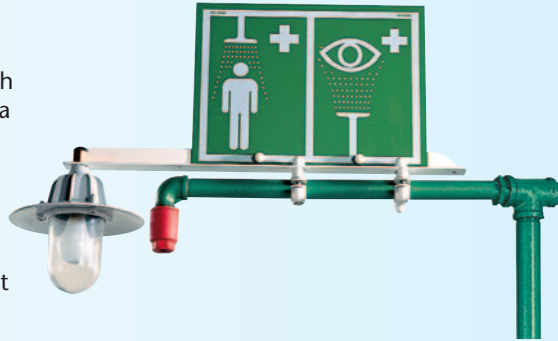


- **Signs**

Pictogram 'Shower' and 'Eyewash' Signs, to International Standard ISO 3864-1, white on green background. Either stove enamelled on aluminium plate and over-lacquered for extra protection, or screen printed on plastic.

- **Lights**

Wellglass Indicator Lights can be supplied, complete with tungsten bulbs and brackets. When units are located in a remote position, the light draws attention to the safety shower and illuminates the operating area. If required, MBF/U (Mercury) lights or fluorescent lights can be supplied. Alternatively wellglasses/diffusers can be supplied in green for high resolution, (the optional indicator lights fitted on the models in this range are not wired to a junction box).



- **Shower Roses**

ABS Plastic or Stainless Steel Shower Roses are available as an alternative to the standard plastic nozzle.



- **Optiflex**

Hand held Eye, Face and Body Shower complete with mounting bracket that incorporates a dust cover. Also fitted with a 1.5 metre length of reinforced hose and a flow regulator.



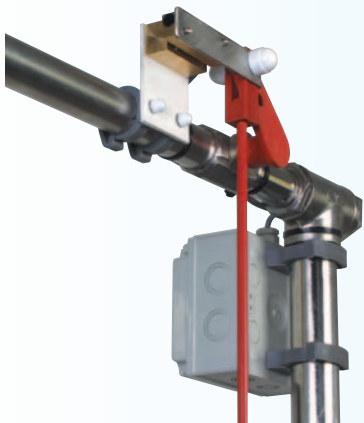
- **Panel & Treadle Type Foot Controls**

For most applications the Panel Type Foot Control is fitted as the primary operation for the overhead shower and body spray. The Treadle Type Foot Control operates the eye/facewash fountain. However, as a fail-safe precaution, should either the Panel or Treadle be obstructed in any way these sprays can both be operated by hand.



- **Proximity Switches - STD-22K**

Magnetically operated Proximity Switches complete with brackets and weatherproof junction box. To indicate by an alarm at a remote control position when the shower and/or eye/facewash is being operated and that someone may require assistance. Proxistor type switches are also available on request.



- **Strip Screens**

Clear or coloured PVC Strip Screens are available to reduce overspray and spillages to an absolute minimum and afford privacy to the user.

Hose Brush

Available as an optional extra on the PORTAdec 1000G, the Hose Brush can be connected in place of one of the body wash sprays to assist in the cleaning of protective clothing. The brush is also available as a replacement part for those showers on which it is fitted as standard.



'A' Frame Towing Hitch

For transporting the Mobile self-contained Shower an optional 'A' frame attachment is available, which is easily and quickly locked in position and attached to a vehicle towing bracket using a ball type hitch. When not in use this rotates into its convenient storage position.

Eye/Facewash - Model STD-45G

Can be fitted to the Mobile Shower STD-40K as well as all models in the Cubicle Shower range. This is made from unbreakable ABS Plastic and incorporates an integral lid to ensure the bowl remains clean and free from contamination at all times.



Indoor Unheated Models

Optional Fittings, for use with the unheated range of Emergency Showers, are designed to improve the efficiency of the equipment and to contribute towards its effectiveness. All optional fittings are manufactured to the same high quality as all Hughes products to ensure a long and trouble-free life.

Technical Details

Galvanised	Stainless Steel	Depth mm	Width mm	Height mm	Weight kg	Inlet Size (" inches) BSP	Min. Pressure kg/cm ² (bar g)	Water Flow l/min
STD-18K	STD-18KS	750	150	2300	15	1 1/4" Male	1.5	75
STD-20K	STD-20KS	1050	460	2300	18	1 1/4" Male	1.8	115
STD-23K	STD-23KS	635	100	130	3.5	1" Male	1.5	75
STD-23K/H	STD-23KS/H	705	150	185	4.5	1" Female	1.5	75
STD-23K/V	STD-23KS/V	150	150	370	4	1" Female	1.5	75
STD-23K/OD	STD-23KS/OD	560	870	170	7.5	1" Female	1.5	75
STD-23K/24K	STD-23KS/24KS	635	130	400	6	1" Male	1.5	75
STD-23K/24K/H	STD-23KS/24KS/H	705	150	400	7	1" Female	1.5	75
STD-33K/45G	STD-33KS/45G	730	340	1450	22	1 1/4" Female	2.0	75
STD-18K/25K	STD-18KS/25KS	750	470	2300	26	1 1/4" Male	2.2	75
STD-18K/45G	STD-18KS/45G	750	340	2300	21	1 1/4" Male	2.0	75
STD-20K/25K	STD-20KS/25KS	1380	470	2300	29	1 1/4" Male	2.2	115
STD-20K/45G	STD-20KS/45G	1140	460	2300	24	1 1/4" Male	2.0	115
EXP-23G	EXP-23GS	635	100	130	3	1" Male	1.5	75
EXP-23G/H	EXP-23GS/H	705	150	185	4.5	1" Female	1.5	75
EXP-23G/V	EXP-23GS/V	150	150	370	3.5	1" Female	1.5	75
EXP-23G/OD	EXP-23GS/OD	560	870	170	7.5	1" Female	1.5	75
EXP-18G	EXP-18GS	750	150	2300	15	1 1/4" Female	1.5	75
EXP-20G	EXP-20GS	1050	460	2300	16	1 1/4" Female	1.8	115
EXP-18G/45G	EXP-18GS/45G	750	340	2300	18	1 1/4" Female	2.0	75
EXP-18G/45G-T	EXP-18GS/45G-T	750	340	2330	18	1 1/4" Female	2.0	75
EXP-18G/75G	EXP-18GS/75G	750	285	2330	16	1 1/4" Female	2.0	75
EXP-18G/85G	EXP-18GS/85G	750	285	2330	16	1 1/4" Female	2.0	75
EXP-20G/45G	EXP-20GS/45G	1180	460	2300	19	1 1/4" Female	2.2	115
EXP-20G/45G-T	EXP-20GS/45G-T	1180	460	2330	19	1 1/4" Female	2.2	115
LAB-23G	LAB-23GS	715	260	200	3	1" Male	1.5	75
LAB-23G/H	LAB-23GS/H	770	260	240	3.5	1" Male	1.5	75
LAB-23G/V	LAB-23GS/V	260	300	275	2.5	1" Male	1.5	75
LAB-23G/OD	LAB-23GS/OD	680	940	180	7.5	1" Female	1.5	75
STD-45G/T	-	265	340	300	3.5	15mm Compression or 1/2" Male	2.0	20
-	LAB-85GS/T	275	400	160	2.5	3/4" Female	2.0	12
-	LAB-85GS	400	410	315	3.5	15mm Compression or 1/2" Male	2.0	12
LAB-85G/P	LAB-85GS/P	510	285	1175	8	1" Male	2.0	12
LAB-33G/34G	LAB-33GS/34G	770	260	1400	9	1" Male	2.0	75
LAB-18G/34G	LAB-18GS/34G	810	440	2330	15	1" Male	2.0	75
-	STD-SD-31K	980	900	2400	150	1" Male	3.5	126
-	STD-SD-32K	980	900	2400	150	1" Male	2.0	75
-	STD-SD-31K/V	980	900	2400	150	1" Male	2.0	126
STD-40K	-	1170	780	1430	80	1/2" Coupling	2.0	75
PORTADEC 1000G (Erected)	-	1100	1100	2710	20	1" Geka Fitting	2.0	75

for further information and the latest updates please go to

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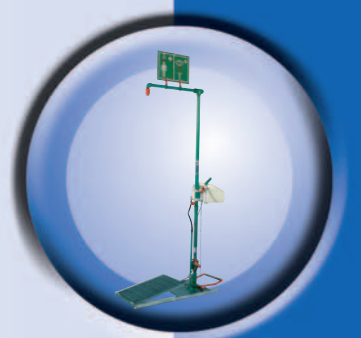
Optional Fittings

	Optional Fittings																						
	Eyewash Sign	Shower Sign	Shower Sign & Brackets	Shower/Eyewash Sign & Brackets	Treadle Foot Control	Panel Foot Control	ABS Shower Control	Stainless Shower Rose	Optiflex Steel Shower Rose	Light & Brackets	Proximity Brackets	Proximity Switch	Ceiling Switches (2- off)	Shower Mounting Kit	Protective Cubicle (page 52)	Eye/Facewash (page 53)	Strip Screens STD-45G	Body Spray	Shower Door	Hose Brush	'A' Frame For Towing	Foot Grating	Sheeting and Sump
STD-18K	●	●		●	●	●	●	●	●	●				●									
STD-20K	●	●		●	●	●	●	●	●	●				●									
STD-23K	●	●				●	●	●	●	●			●										
STD-23K/H	●	●				●	●	●	●	●													
STD-23K/V	●					●	●	●		●			●										
STD-23K/OD	●	●				●	●			●													
STD-23K/24K			●			●	●			●	●	●											
STD-23K/24K/H			●			●	●			●	●	●											
STD-33K/45G			●	●		●	●	●	●	●	●												
STD-18K/25K			●	●	●	●	●	●	●	●	●			●									
STD-18K/45G			●	●	●	●	●	●	●	●	●			●									
STD-20K/25K			●	●	●	●	●	●	●	●	●				●								
STD-20K/45G			●	●	●	●	●	●	●	●	●				●								
EXP-23G	●	●				●	●	●	●	●			●										
EXP-23G/H	●	●				●	●	●	●	●													
EXP-23G/V	●					●	●	●		●			●										
EXP-23G/OD	●	●				●	●			●													
EXP-18G	●	●		●	●	●	●	●	●	●				●									
EXP-20G	●	●		●	●	●	●	●	●	●				●									
EXP-18G/45G			●	●	●	●	●	●	●	●	●			●									
EXP-18G/45G-T			●	●	●	●	●	●	●	●	●			●									
EXP-18G/75G			●	●	●	●	●	●	●	●	●			●									
EXP-18G/85G			●	●	●	●	●	●	●	●	●			●									
EXP-20G/45G			●	●	●	●	●	●	●	●	●				●								
EXP-20G/45G-T			●	●	●	●	●	●	●	●	●				●								
LAB-23GS	●	●				●	S	●	●	●			●										
LAB-23GS/H	●	●				●	S	●	●	●			●										
LAB-23GS/V	●					●	S	●		●			●										
LAB-23GS/OD	●	●				●	S			●													
STD-45G/T	●									●													
LAB-85GS/T	●									●													
LAB-85GS	●									●													
LAB-85GS/P	●			●						●													
LAB-33GS/34G			●				S	●		●	●			●									
LAB-18GS/34G			●	●	●	●	S	●	●	●	●			●									
STD-SD-31K					●			●	●	●	●				●	●		●	●				
STD-SD-32K					●	●	●	●	●	●	●				●	●	●	●					
STD-SD-31K/V									●	●	●					●		●					
STD-40K								●							●					●			
PORTADEC 1000G								●											●			●	●

S denotes standard fitting

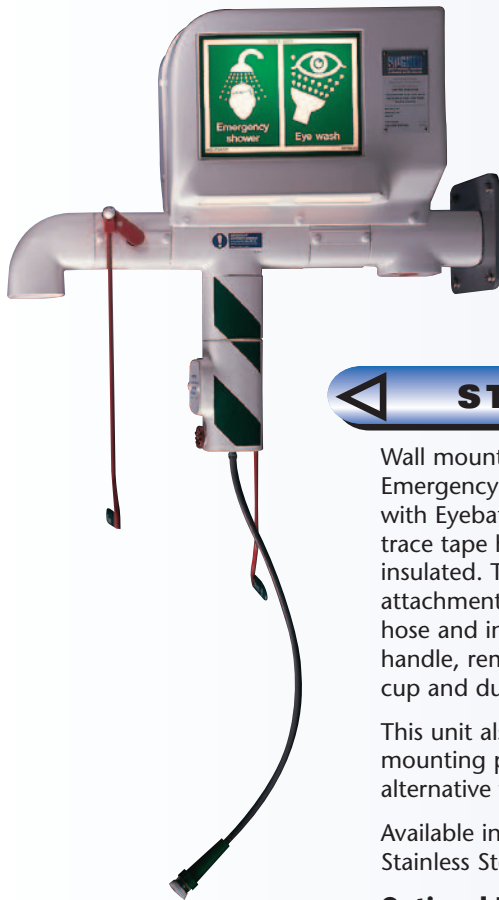
Outdoor Emergency

Safety Showers



Outdoor Emergency Safety Showers / Showers

Premium Range Heated and Insulated Models suitable for all temperatures



STD-H-1K

Wall mounted Outdoor Emergency Safety Shower unit with Eyebath attachment, trace tape heated and pre-insulated. The eyebath attachment is on a flexible hose and incorporates a handle, removable eyebath cup and dust cover.

This unit also features a wall mounting plate and has an alternative water inlet.

Available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:
See pages 54-56.

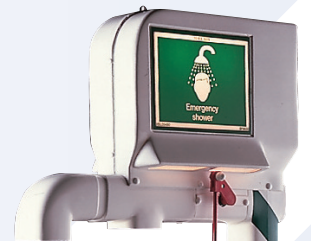
STD-H-2K

Wall mounted Outdoor Emergency Safety Shower unit, trace tape heated and pre-insulated.

This unit also features a wall mounting plate and has an alternative water inlet.

Available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:
See pages 54-56.



STD-MH-5K

Outdoor Emergency Safety Shower, immersion heated and pre-insulated.

Available in Galvanised or Stainless Steel.

As above but with trace tape heated standpipe STD-H-5K.

Optional Fittings & Technical Details:
See pages 54-56.



Outdoor Emergency Safety Showers

Technically advanced, heavy duty heated and insulated Outdoor Emergency Safety Showers, Eyebaths and Eye/Facewash Fountains. Modular design ensures easy servicing. Internal tubulars can be stainless steel or galvanised mild steel and the outer casing is made from unbreakable medium density polyethylene. Standard colour is white with green and white stripes but green is also available with other colours on request.

Immersion or trace heating is available. When an immersion heater is fitted, the 100 Watt element is easily removed for servicing or replacement. All heated models are fitted with fail-safe dual thermostats.

Note: Units are not designed to deliver warm water at a constant temperature; cool water is preferable as it soothes the affected area and reduces percutaneous absorption of chemicals through the skin. Water in the standpipe is heated to 20°C to prevent freezing and avoid shocking the victim with the initial deluge.

Spray nozzles are self draining to eliminate the build-up of bacteria and are easily removed for cleaning.



STD-MH-6K

Outdoor Emergency Safety Shower with Eyebath attachment, immersion heated and pre-insulated. The eyebath attachment is on a flexible hose and incorporates a handle, removable eyebath cup and dust cover. (Eyebath can be located on rear of unit if requested).

Available in Galvanised or Stainless Steel.

As above but with trace tape heated standpipe STD-H-6K.

Optional Fittings & Technical Details:

See pages 54-56.



STD-MH-17K

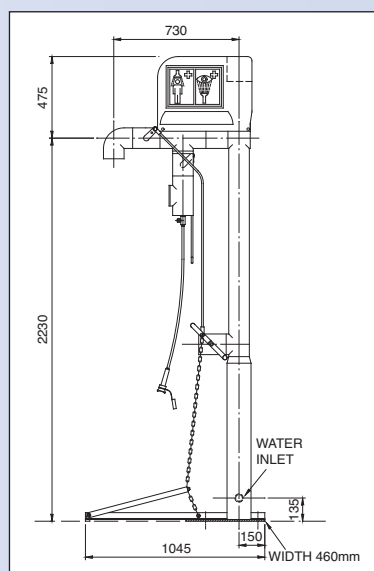
Outdoor Emergency Safety Shower with additional Body Spray and Eyebath attachment, immersion heated and pre-insulated. The eyebath attachment is on a flexible hose and incorporates a handle, removable eyebath cup and dust cover. (Eyebath can be located on rear of unit if requested).

Available in Galvanised or Stainless Steel.

As above but with trace tape heated standpipe STD-H-17K.

Optional Fittings & Technical Details:

See pages 54-56.



for further information and the latest updates please go to

www.hughes-safety-showers.co.uk

Outdoor Emergency Safety Showers

Premium Range Heated and Insulated Models suitable for all temperatures

STD-MH-5K/11K

Outdoor Emergency Safety Shower, immersion heated and pre-insulated. With Eye/Facewash Fountain and additional eyebath diffuser on flexible hose to treat unconscious or disabled personnel.

Note: Eyebath/Facewash orientation can be varied to suit clients' requirements.

Available in Galvanised or Stainless Steel.

As above but with trace tape heated standpipe STD-H-5K/11K.

Optional Fittings & Technical Details:
See pages 54-56.



STD-MH-15K

Outdoor Emergency Safety Shower with additional Body Spray, immersion heated and pre-insulated.

Available in Galvanised or Stainless Steel.

As above but with trace tape heated standpipe STD-H-15K.

Optional Fittings & Technical Details:
See pages 54-56.



STD-MH-15K/11K

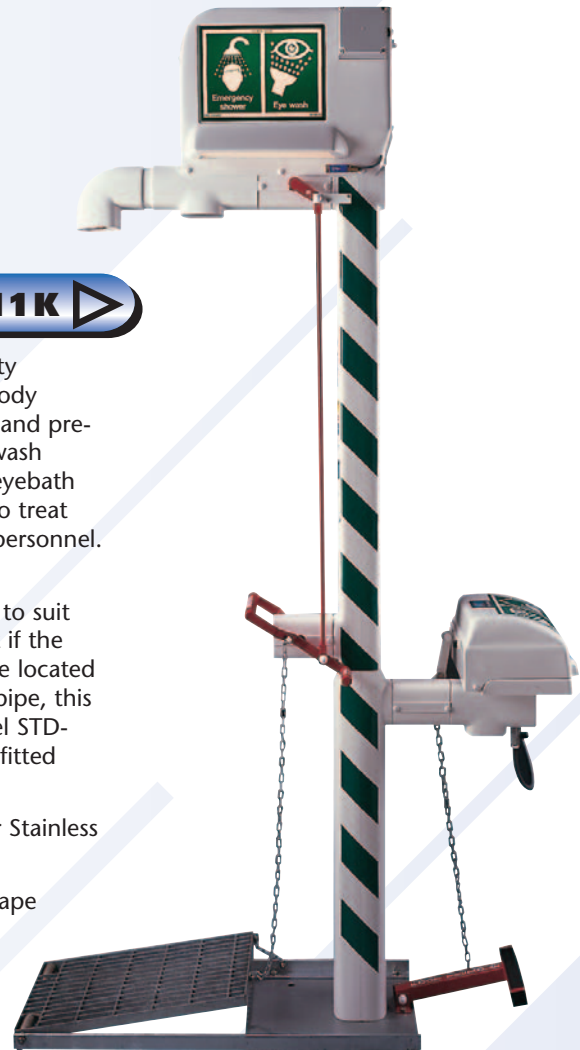
Outdoor Emergency Safety Shower with additional Body Spray, immersion heated and pre-insulated. With Eye/Facewash Fountain and additional eyebath diffuser on flexible hose to treat unconscious or disabled personnel.

Note: Eyebath/Facewash orientation can be varied to suit clients' requirements, but if the Eyebath/Facewash is to be located on the front of the standpipe, this unit would then be model STD-MH-5K/11K which is not fitted with a Body Spray.

Available in Galvanised or Stainless Steel.

As above but with trace tape heated standpipe STD-H-15K/11K.

Optional Fittings & Technical Details:
See pages 54-56.



UNIQUE DESIGN FEATURES

Good designs can be improved and updated, and that includes Emergency Safety Showers. The main design changes with the models in this range concern the outer casing which is now rotationally moulded from unbreakable white polyethylene rather than fabricated from grey uPVC or polypropylene tube. In addition to improved impact resistance, this improves visibility, so that the shower stands out in a pipework environment.

The Shower and Body Spray operating mechanism has also been re-designed. Previous triangular or circular pull handles have been replaced with a more easily operated panic bar, which incorporates a test handle. The test handle is particularly useful when the unit has to be tested weekly - as stipulated in the American National Standard (ANSI Z358.1 2009). In addition to a new style stainless steel foot treadle, the unit has a Light Box fitted to the top as standard. When the optional light is fitted this illuminates the signs for greater visibility on dull days and at night. Diffusers also shine light downwards to ensure the operating mechanism and shower area are well lit at all times.

A further development within the range is the new style Eyebath/Facewash Fountain. This modernised design includes innovative features such as enhanced graphics, integral shatterproof mirror and raised splashguard.

The modular design that made our previous range of Heated Outdoor Units so successful has been retained to ensure easy access to the valves. This permits easy removal and replacement of any module if it becomes damaged.



for further information and the latest updates please go to
www.hughes-safety-showers.co.uk

Outdoor Emergency Safety Showers and Showers

Temperature Controlled Showers and Shower Cubicles

STD-TC-100K/11K ▶

The Temperature Controlled (TC) Emergency Safety Shower is intended for outdoor use where the water requires heating. It has a 300 litre 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 25 - 35°C.

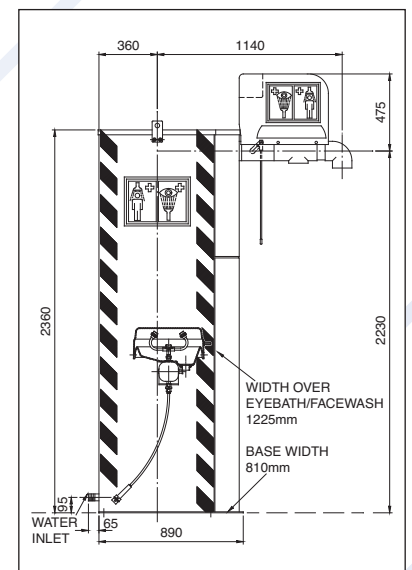
In addition to delivering water at the required temperature through its own shower head, the TC unit can also supply heated water to other Emergency Showers via a second outlet from the tank. This means that several showers within an area can meet the temperature and duration criteria stipulated in the ANSI standard.

The standard unit consists of a heated tank, overhead shower and side mounted Eyebath/Facewash with protective lid. 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 Eyebath/Facewash units.

Optional Fittings & Technical Details:

See pages 54-56.



Outdoor Emergency Safety Showers

Temperature Controlled Shower Cubicle

The Temperature Controlled Shower Cubicle is designed for outdoor use in exposed freezing conditions. It is fitted with a thermostatically controlled air heater and is pre-insulated to help maintain a warm internal air temperature.

Push open doors give unimpeded access and automatically close behind the casualty on entry. Windows in the doors enable the casualty to be monitored whilst using the shower which is imperative in case assistance is required.

As standard the cubicle is supplied with an Immersion Heated Shower from our Premium Range which includes an Eyebath/Facewash as well as an additional Body Spray. Should either the Eyebath/Facewash or Body Spray not be required (as illustrated) this is available at a reduced price.

Should 15 minutes of warm water be required, this shower cubicle can be combined with the Temperature Controlled Shower STD-TC-100K/11K.

The cubicle frame is normally manufactured from Galvanised Mild Steel but can be made from Stainless Steel if required. (Shown with optional drain sump and alarm system).



Using Emergency Safety Showers in cold climates poses particular problems for casualties.

Temperature Controlled Showers are intended for outdoor use in low ambient conditions and are designed to remain on standby to deliver warm water for up to 15 minutes to avoid the casualty going into shock.

Showers in the Temperature Controlled range have an integral heated tank to deliver warm water by mixing it with the mains fed cold supply. They can also be used as a warm water source to feed other Emergency Shower units in the local vicinity.

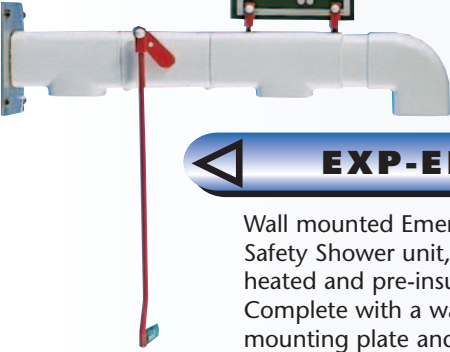
The Temperature Controlled Shower Cubicle uses a standard immersion or trace heated shower unit within a temperature controlled cabin. The casualty is afforded protection from the elements while showering and, if necessary, can remain in the protected environment until help arrives.

for further information and the latest updates please go to
www.hughes-safety-showers.co.uk

Outdoor Emergency Safety Showers

Export Range

Heated & Insulated Outdoor Models
suitable for either cold or hot climates



EXP-EH-2G

Wall mounted Emergency Safety Shower unit, trace tape heated and pre-insulated. Complete with a wall mounting plate and alternative water inlet.

Available in Galvanised or Stainless Steel.

EXP-EJ-2G insulated only.

Optional Fittings & Technical Details:

See pages 54-56.



EXP-EH-5G

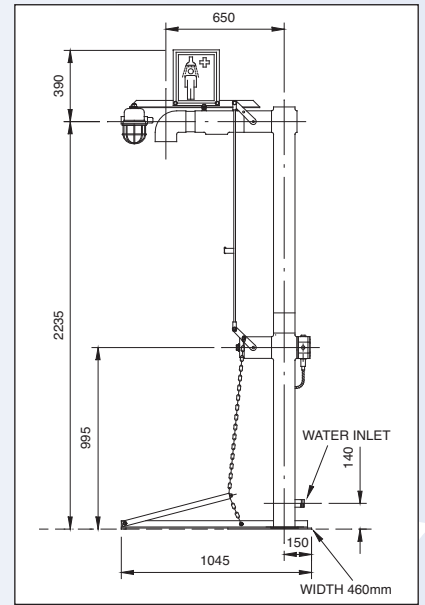
Emergency Safety Shower, trace tape heated and pre-insulated.

Available in Galvanised or Stainless Steel.

EXP-AH-5G extra heating.
EXP-EJ-5G insulated only.

Optional Fittings & Technical Details:

See pages 54-56.



EXP-EH-5G/10G

Emergency Safety Shower with Body Spray, trace tape heated and pre-insulated.

Available in Galvanised or Stainless Steel.

EXP-AH-5G/10G extra heating.
EXP-EJ-5G/10G insulated only.

Optional Fittings & Technical Details:

See pages 54-56.

EXP-EH-45G/P

Pedestal mounted Emergency Eye/Facewash Fountain, trace tape heated and pre-insulated. With 'unbreakable' integral lid, aerated diffusers, flow regulator and self-adhesive sign.

Available in Galvanised or Stainless Steel.

EXP-EJ-45G/P insulated only.

Optional Fittings & Technical Details:

See pages 54-56.



Outdoor Emergency Safety Showers

A general purpose range of economically priced Emergency Safety Showers and Eye/Facewash Fountains. Ideal for Export and intended for use throughout industry where there is a possibility of water inside the shower freezing or overheating due to the ambient temperatures. They are jacketed and pre-insulated and all models are suitable for Zone 1 and Zone 2 as well as Non-Flameproof areas. Internal tubulars can be stainless steel or galvanised mild steel and the outer casing is made from unbreakable medium density polyethylene. Standard colour is white with green and white stripes but green is also available with other colours on request.

The use of separate modules permits easy servicing and economic packing in small boxes to reduce packing and shipping costs. The modules are also designed for easy assembly on site.

Approved Code of Practice.

Chemical Burns:

Remove any contaminated clothing that is not stuck to the skin. Flush with plenty of clean, cool water for 10-15 minutes. Apply a sterilised dressing to exposed, damaged skin and send casualty to hospital.

Loose foreign bodies in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes. Cover eye with an eye pad and send casualty to hospital.

Chemical in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes. People with eye injuries should be sent to hospital with eye covered with an eye pad.

EXP-EH-5G/34G ▶

Emergency Safety Shower with Eye/Facewash Diffusers, trace tape heated and pre-insulated.

Available in Galvanised or Stainless Steel.

EXP-AH-5G/34G extra heating.
EXP-EJ-5G/34G insulated only.

Optional Fittings & Technical Details:

See pages 54-56.



EXP-EH-5G/45G ▶

Emergency Safety Shower with Eye/Facewash Fountain, trace tape heated and pre-insulated.

Available in Galvanised or Stainless Steel.

EXP-AH-5G/45G extra heating.
EXP-EJ-5G/45G insulated only.

Optional Fittings & Technical Details:

See pages 54-56.



EXP-EH-5G/35G ▶

Emergency Safety Shower with Eyebath on flexible hose, trace tape heated and pre-insulated.

Available in Galvanised or Stainless Steel.

EXP-AH-5G/35G extra heating.
EXP-EJ-5G/35G insulated only.

Optional Fittings & Technical Details:

See pages 54-56.



for further information and the latest updates please go to

www.hughes-safety-showers.co.uk

Outdoor Emergency Safety Showers

Export Range

Self-Draining Units suitable for hot climates

EXP-SD-18G/45G

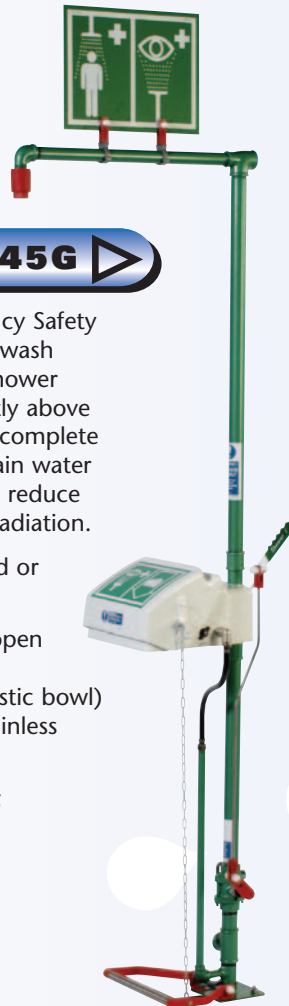
Self-draining Emergency Safety Shower with Eye/Facewash Fountain. The main shower valve is situated directly above the water inlet and is complete with bleed pipe to drain water from the standpipe to reduce overheating by solar radiation.

Available in Galvanised or Stainless Steel.

Note: Available with open bowl Eye/Facewash
EXP-SD-18G/75G (Plastic bowl)
EXP-SD-18G/85G (Stainless Steel bowl)

Optional Fittings & Technical Details:

See pages 54-56.



EXP-SD-18G/25K

Self-draining Emergency Safety Shower with Eye/Facewash Fountain. With additional eyebath diffuser on flexible hose to treat unconscious or disabled personnel. The shower and eyebath/facewash valves are situated directly above the water inlet and are complete with bleed pipes to drain water from the pipework to reduce overheating by solar radiation.

Available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:

See pages 54-56.



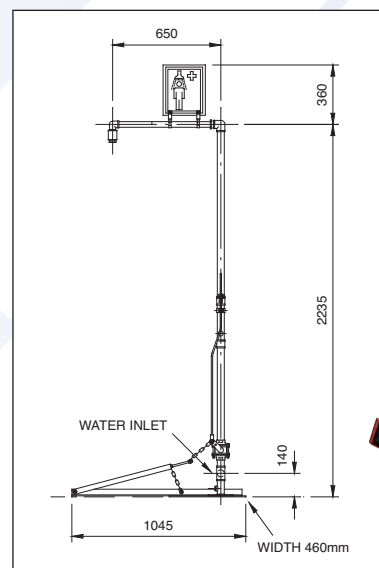
EXP-SD-20G

Self-draining Emergency Safety Shower with additional Body Spray. The main valve is situated directly above the water inlet and is complete with bleed pipe to drain water from the standpipe to reduce overheating by solar radiation.

Available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:

See pages 54-56.



EXP-SD-18G

As EXP-SD-20G but without Body Spray.

Tropical Self-Draining Units

A comprehensive range of Emergency Safety Showers and Eyebath/Facewash models suitable for use outdoors in tropical climates. All models in this range incorporate self-draining shower valves to ensure that no water is left in the standpipe, thus eliminating the possibility of the water in the standpipe overheating from the effects of solar radiation. When these models are combined with underground water supplies, any possibility of the user becoming scalded by overheated water is eliminated. All units are made up of separate modules to facilitate economic packing in relatively small boxes, thus greatly reducing packing and shipping costs. The modules are easily assembled on site with a minimum of product knowledge. Models are available with tubulars either of galvanised carbon steel protected by green Hammerite enamel, or alternatively of semi-polished stainless steel. As a further option the galvanised units are available unpainted at a discounted price.

Approved Code of Practice.

Chemical burns:

Remove any contaminated clothing which is not stuck to the skin. Flush with plenty of clean, cool water for 10-15 minutes. Apply a sterilised dressing to exposed, damaged skin and send casualty to hospital.

Chemical in the eye:

Wash out the open eye continuously with clean, cool water for 10-15 minutes. Cover eye with an eye pad and send casualty to hospital.

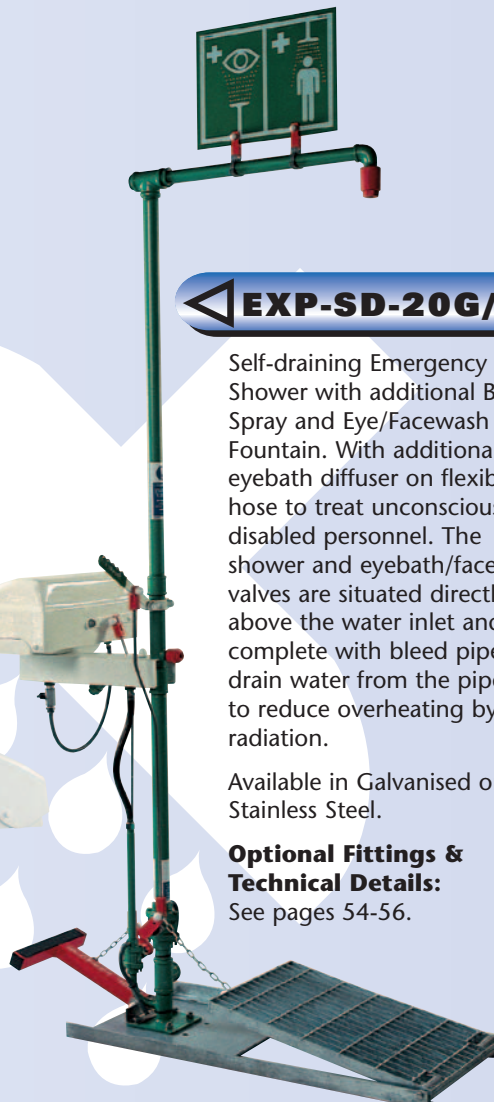
EXP-SD-20G/25K

Self-draining Emergency Safety Shower with additional Body Spray and Eye/Facewash Fountain. With additional eyebath diffuser on flexible hose to treat unconscious or disabled personnel. The shower and eyebath/facewash valves are situated directly above the water inlet and are complete with bleed pipes to drain water from the pipework to reduce overheating by solar radiation.

Available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:

See pages 54-56.



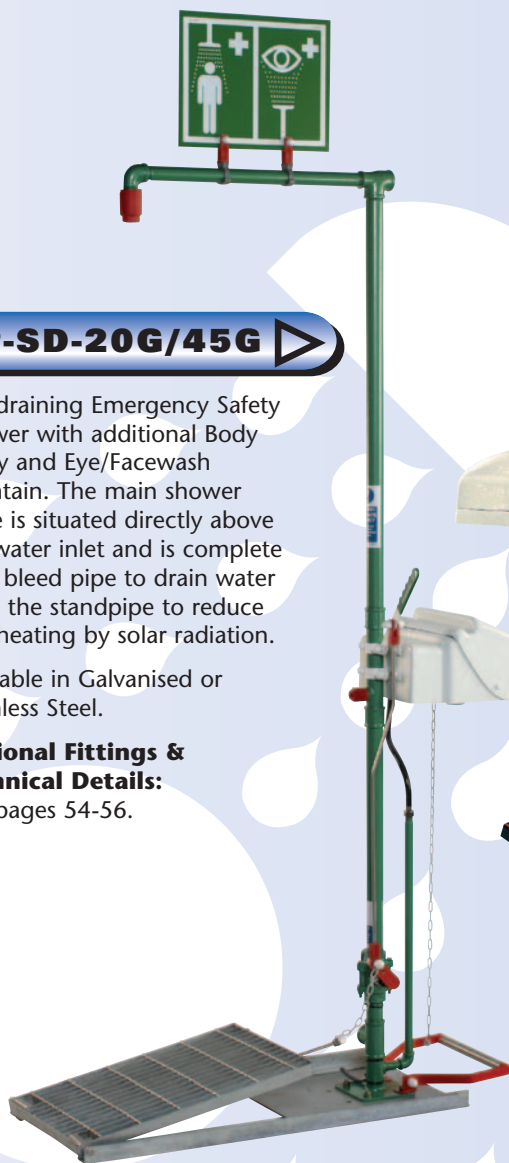
EXP-SD-20G/45G

Self-draining Emergency Safety Shower with additional Body Spray and Eye/Facewash Fountain. The main shower valve is situated directly above the water inlet and is complete with bleed pipe to drain water from the standpipe to reduce overheating by solar radiation.

Available in Galvanised or Stainless Steel.

Optional Fittings & Technical Details:

See pages 54-56.



EXP-SD-65G

Self-draining Emergency Safety Shower with separate Eye/Facewash Fountain. The shower and eye/facewash valves are situated directly above the water inlets and are complete with bleed pipes to drain water from the standpipes to reduce overheating by solar radiation. The units are attached onto a galvanised hand rail with integral floor grating foot panel operation.

(Shown with optional Shower Rose).

Available in Galvanised or Stainless Steel.

Note: Available as single combination unit with Eye/Facewash fitted to shower EXP-SD-63G.

Optional Fittings & Technical Details:

See pages 54-56.



for further information and the latest updates please go to

www.hughes-safety-showers.co.uk

Outdoor Emergency Safety Showers

Cubicles and Protective Frames for Emergency Safety Showers



◀ CUBICLE & SUMP

Heavy duty Shower Cubicle with integral drain sump. Galvanised and painted mild steel rectangular hollow section frame with white GRP panelling and holding down lugs. With self-adhesive pictogram 'Shower' and/or 'Eyewash' signs to International Standard ISO 3864-1, and green and white safety stripes.

(Shown with shower fitted and with optional Light Box).

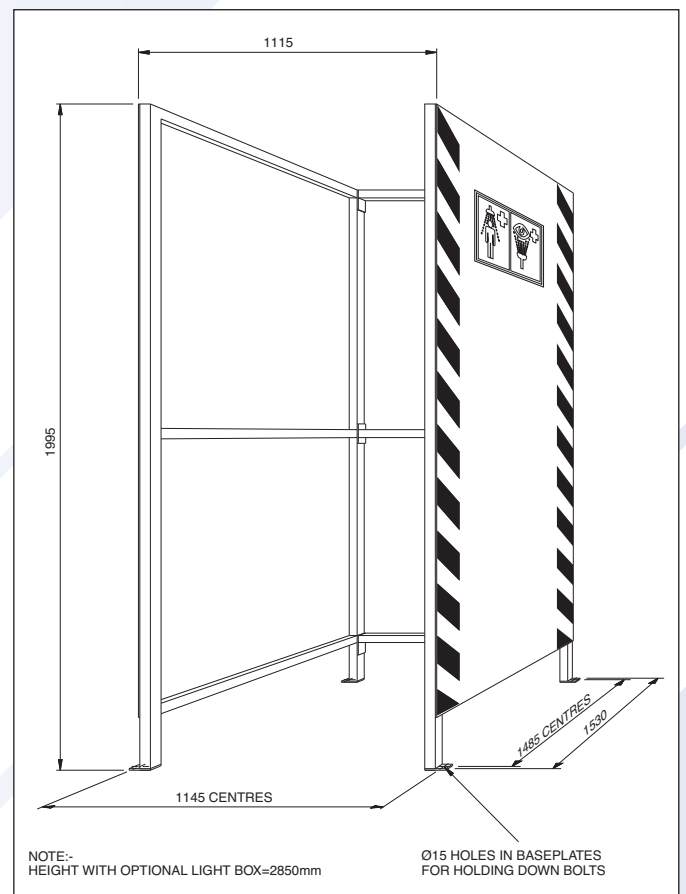
Size and orientation of drain outlet to suit customer requirements (2" BSP standard).

Available with Stainless Steel frame and sump.

CUBICLE ▶

Heavy duty Shower Cubicle. Galvanised and painted mild steel rectangular hollow section frame with white GRP panelling and holding down lugs. With self-adhesive pictogram 'Shower' and/or 'Eyewash' signs to International Standard ISO 3864-1, and green and white safety stripes.

Available with Stainless Steel frame.





Cubicles and Protective Frames

Cubicles and Protective Frames have been designed for situations where an Emergency Shower needs its own floor space, particularly if space is at a premium. They protect against damage and prevent clutter around the shower and eye/facewash and ensure accessibility in an emergency. The panelling and self-adhesive signs create a high visibility, especially when associated with the optional Light Box.

A choice of materials and colours is available for the panelling, and the frames can be manufactured in either stainless steel or galvanised mild steel which is over-painted with silver Hammerite paint.



PROTECTIVE FRAME

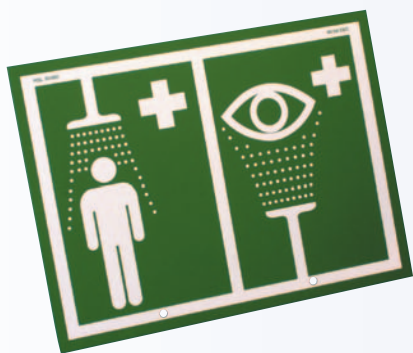
Galvanised and painted mild steel rectangular hollow section frame with foot grating incorporating Panel Type Foot Control. Top of frame sheeted with white GRP sheet bearing green and white safety stripes and pictogram 'Shower' and 'Eyewash' signs to International Standard ISO 3864-1.

(Shown with shower fitted and with optional Light Box).

Available with Stainless Steel frame.

ANSI Standard Z358.1-2009 states:
7.4.3. Be located in an area identified with a highly visible sign positioned so the sign shall be visible within the area served by the combination unit. The area around the combination unit shall be well lit.

for further information and the latest updates please go to
www.hughes-safety-showers.co.uk

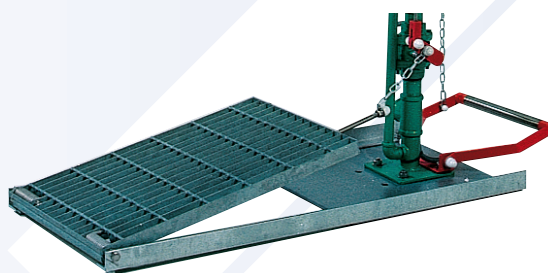


- **Signs**
Pictogram 'Shower' and 'Eyewash' signs, to International Standard ISO 3864-1, white on green background. Either stove enamelled on aluminium plate and over-lacquered for extra protection, or screen printed on plastic.

- **Shower Roses**
ABS Plastic or Stainless Steel Shower Roses are available as an alternative to the standard plastic nozzle.



- **Panel & Treadle Type Foot Controls**
For most models that incorporate a body spray the Panel Type Foot Control is recommended as the primary operation for the shower. The Treadle Type Foot Control has been designed to operate the eye/facewash fountain. However, as a fail-safe precaution, should either the Panel or the Treadle be obstructed in any way, these sprays can both be operated by hand.



- **Proximity Switches**
Magnetically operated Proximity Switches complete with brackets and weatherproof junction box. To indicate by an alarm at a remote control position when the shower and/or eyebath/facewash is being operated and that someone may require assistance. Proxistor type switches are also available on request.



Outdoor Emergency Safety Showers

Optional fittings, for use with the outdoor range of Emergency Showers, are designed to improve the efficiency of the equipment and to contribute towards its effectiveness. All optional fittings are manufactured to the same high quality as all Hughes products to ensure a long and trouble-free life.

Emergency Safety Showers must be easy to locate in case of an emergency, which means that they need to be highly visible. Lights and back-lit pictogram signs help to locate the nearest shower in an emergency and are particularly useful in areas of low illumination or at night.

ANSI Standard Z358.1-2009 states:
7.4.3. Be located in an area identified with a highly visible sign positioned so the sign shall be visible within the area served by the combination unit. The area around the combination unit shall be well lit.

• Lights

Lights are available for either Non-Flameproof or Flameproof (Zone 1 & 2) areas. These lights are normally supplied with tungsten bulbs, but are also available with low energy long life bulbs. Other types of lights are available such as fluorescent and MBF/U (Mercury) lights - further details available on request.



• Light Boxes

Light Boxes enable the safety signs to be back-lit for greater visibility on dull days or at night. They also provide local illumination to ensure that the shower and/or eyebath/facewash operating mechanisms are easy to see at all times as recommended in the ANSI Standard Z358.1-2009.



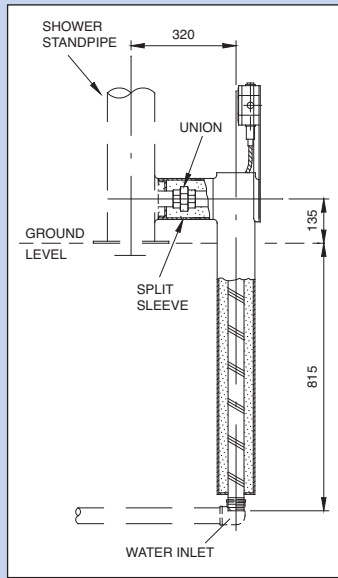
Optional Fittings

	Shower Sign & Brackets	Shower/Eyewash Sign & Brackets	Treadle Foot Control	Panel Foot Control	ABS Shower Rose	Stainless Steel Shower Rose	Light - Non Flameproof	Light - Zone 1 & 2	Light Box	Proximity Switch	Proximity Switches (2 off)	Heated Underground Extension Pipe	Cubicle (page 52)	Protective Frame (page 53)
STD-H-1K							●	●	S		●			
STD-H-2K							●	●	S	●				
STD-MH-5K			●				●	●	S	●		●	●	
STD-MH-15K			●				●	●	S	●		●	●	
STD-MH-17K			●				●	●	S		●	●	●	
STD-MH-6K			●				●	●	S		●	●	●	
STD-MH-5K/11K		●					●	●	S		●	●	●	
STD-MH-15K/11K		●	●				●	●	S		●	●		●
STD-TC-100K/11K			●				●	●	S		●	●		●
EXP-EH-2G	●						●	●	●	●				
EXP-EH-45G/P		●								●		●	●	
EXP-EH-5G	●		●				●	●	●	●		●	●	
EXP-EH-5G/10G	●		●				●	●	●	●		●	●	
EXP-EH-5G/34G		●	●				●	●	●		●	●	●	
EXP-EH-5G/35G		●	●				●	●	●		●	●	●	
EXP-EH-5G/45G		●	●				●	●	●		●	●	●	
EXP-SD-18G	●		●	●	●	●				●			●	
EXP-SD-18G/45G		●	●		●	●					●		●	
EXP-SD-18G/25K		●	●		●	●					●		●	
EXP-SD-20G	●		●	●	●	●				●			●	
EXP-SD-20G/45G		●	●	●	●	●					●			●
EXP-SD-20G/25K		●	●	●	●	●					●			●
EXP-SD-63G		●		S	●	●					●			
EXP-SD-65G		●		S	●	●					●			
EXP-SD-18G/75G		●	●		●	●					●		●	
EXP-SD-18G/85G		●	●		●	●					●		●	

S denotes standard fitting

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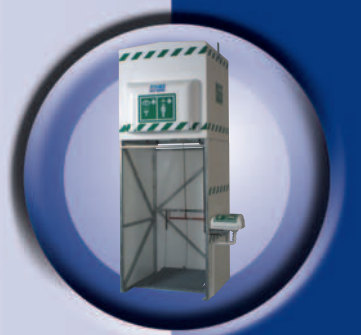
• **Underground Extension Pipe - STD-H-7K**

Trace tape heated and pre-insulated Underground Extension Pipe for connecting to an underground supply. Water inlet size varies to suit model.

Technical Details

Galvanised	Stainless Steel	Depth mm	Width mm	Height mm	Weight kg	Inlet Size (" inches) BSP	Min. Pressure kg/cm ² (bar g)	Water Flow l/min
STD-H-1K	STD-H-1KS	975	255	910	25	1" Female	1.5	75
STD-H-2K	STD-H-2KS	975	255	590	20	1" Female	1.5	75
STD-MH-5K	STD-MH-5KS	835	325	2705	60	1 1/4" Male	1.5	75
STD-MH-15K	STD-MH-15KS	890	460	2705	90	1 1/2" Male	1.8	115
STD-MH-17K	STD-MH-17KS	890	460	2705	95	1 1/2" Male	1.8	115
STD-MH-6K	STD-MH-6KS	835	325	2705	70	1 1/4" Male	1.5	75
STD-MH-5K/11K	STD-MH-5KS/11KS	855	480	2705	55	1 1/2" Male	2.2	75
STD-MH-15K/11K	STD-MH-15KS/11KS	1315	480	2705	106	1 1/2" Male	2.2	115
STD-TC-100K/11K	STD-TC-100KS/11KS	1625	1275	2710	235	1 1/4" Male	2.2	75
EXP-EH-2G	EXP-EH-2GS	930	230	230	14	1" Female	1.5	75
EXP-EH-45G/P	EXP-EH-45GS/P	465	340	1180	26	1 1/4" Male	2	20
EXP-EH-5G	EXP-EH-5GS	850	150	2310	30	1 1/4" Male	1.5	75
EXP-EH-5G/10G	EXP-EH-5GS/10GS	850	460	2310	32	1 1/4" Male	1.8	115
EXP-EH-5G/34G	EXP-EH-5GS/34GS	850	300	2310	32	1 1/4" Male	2.2	75
EXP-EH-5G/35G	EXP-EH-5GS/35GS	850	240	2310	32	1 1/4" Male	1.5	75
EXP-EH-5G/45G	EXP-EH-5GS/45GS	850	340	2310	34	1 1/4" Male	2	75
EXP-SD-18G	EXP-SD-18GS	750	425	2260	15	1 1/4" Female	1.5	75
EXP-SD-18G/45G	EXP-SD-18GS/45G	750	520	2260	18	1 1/4" Female	2.0	75
EXP-SD-18G/25K	EXP-SD-18GS/25KS	750	570	2260	25	1 1/4" Female	2.2	75
EXP-SD-20G	EXP-SD-20GS	750	425	2260	16	1 1/4" Female	1.8	115
EXP-SD-20G/45G	EXP-SD-20GS/45G	1180	550	2260	19	1 1/4" Female	2.0	115
EXP-SD-20G/25K	EXP-SD-20GS/25KS	1390	550	2260	26	1 1/4" Female	2.2	115
EXP-SD-63G	EXP-SD-63GS	1080	840	2300	70	1 1/4" Female	2.2	75
EXP-SD-65G	EXP-SD-65GS	1080	1640	2300	105	1 1/4" Female	2.2	75
EXP-SD-18G/75G	EXP-SD-18GS/75G	750	700	2260	18	1 1/4" Female	2.0	75
EXP-SD-18G/85G	EXP-SD-18GS/85G	750	700	2260	18	1 1/4" Female	2.0	75
CUBICLE WITH SUMP		1530	1115	2350	240	-	-	-
CUBICLE		1530	1115	1995	75	-	-	-
PROTECTIVE FRAME		1300	1000	2700	180	-	-	-

General Use Tank Showers



General Use Tank Showers

Outdoor and Indoor Emergency Tank Showers



- **Light Box**
If a Light Box is fitted it allows the safety signs to be back-lit for greater visibility on dull days and at night, as well as shining light downwards to ensure the operating mechanism and shower area are well lit at all times.
Note: Available as an optional fitting, either Non-Flameproof or Zone 1 & 2.
- **Twin Ball Cocks**
Fitted to ensure a continuous and adequate flow rate, even when the tank has emptied. Also enables speedy replenishment of water in the tank.
- **Panic Bar Operation**
To allow easy operation of the unit should the optional Foot Panel be obstructed.
- **Galvanised or Stainless Steel Option**
All Tank Showers within the range are available with either galvanised mild steel or stainless steel frames.
- **Colour Option**
The standard colour is white, with green and white safety stripes. Green is available as an alternative if preferred.
- **Insulation Option**
For indoor heated areas and for outdoors in mild climates, versions of all models are available with insulation only. For very hot climates, special insulation can be fitted which has a higher thermal resistance and incorporates a layer of silver foil to reflect radiated heat.
- **Sunshield Option**
Sunshields are available for fitting around the tank and above the lid to give extra protection from solar radiation.
- **Cooling Options**
Chillers and Cooling Coils can be fitted to cool the water in the tank when units are installed in areas that experience high ambient temperatures.
- **Export Option**
A version is available specifically for export. It has the same features and construction as the standard (STD) model except for the legs. These are removable and made in several sections for easier packing and shipping which helps to keep transport costs to a minimum. All export models are denoted by the prefix EXP.

General Use Tank Showers

A range of heavy duty Emergency Tank Showers, for use when warm water is required, or a constant supply of water cannot be guaranteed. These units are essential where there is a problem with insufficient water pressure or inadequate flow rate. This improved range incorporates models to suit a wide range of situations. The outdoor types are heated and pre-insulated to prevent freezing during conditions of frost, whereas the indoor or tropical versions are insulated but without heating, to ensure a steady temperature is maintained.

Tank Showers are available in three sizes: the 350 litre model supplies a guaranteed flow of warm water for several minutes. With the mains supply permanently connected the 750 litre model will deliver warm water for the 15 minutes recommended by the ANSI standard. The 1200 litre model will meet the standard even without an external supply connected.

◀ **STD-MH-14K/350**

(Export Model EXP-MH-14K/350)

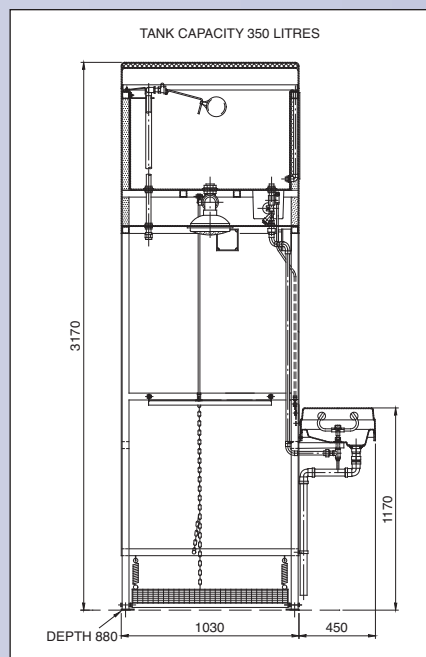
Emergency Tank Shower incorporating a 350 litre tank to deliver a guaranteed flow of warm water for several minutes.

An integral immersion heater, controlled by a dual safety thermostat, maintains the water in the insulated tank at a constant temperature.

The shower is activated when the casualty stands on the optional Foot Panel or pushes the panic bar.

Insulated models available, without heating
STD-J-14K/350
EXP-J-14K/350

Versions are available with or without the externally mounted Eye/Facewash Fountain.



for further information and the latest updates please go to
www.hughes-safety-showers.co.uk

General Use Tank Showers

Outdoor and Indoor Emergency Tank Showers



STD-MH-14K/750

(Export Model EXP-MH-14K/750)

Emergency Tank Shower incorporating a 750 litre tank to deliver a guaranteed flow of warm water for 15 minutes with the mains supply connected.

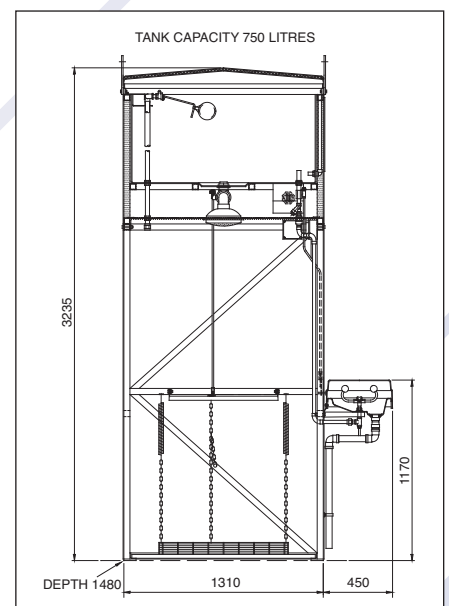
An integral immersion heater, controlled by a dual safety thermostat, maintains the water in the insulated tank at a constant temperature.

The shower is activated when the casualty stands on the optional Foot Panel or pushes the panic bar.

A version is available with the Eye/Facewash Fountain mounted internally. Alternatively the Eye/Facewash Fountain can be omitted.

Insulated models available, without heating
STD-J-14K/750
EXP-J-14K/750

Note: An Earthquake proof version of this model is available which has been designed to conform to the California Building Code 1998 Chapter 16, Division 1.



General Use Tank Showers

A range of heavy duty Emergency Tank Showers, for use when warm water is required, or a constant supply of water cannot be guaranteed. These units are essential where there is a problem with insufficient water pressure or inadequate flow rate. This improved range incorporates models to suit a wide range of situations. The outdoor types are heated and pre-insulated to prevent freezing during conditions of frost, whereas the indoor or tropical versions are insulated but without heating, to ensure a steady temperature is maintained.

Tank Showers are available in three sizes: the 350 litre model supplies a guaranteed flow of warm water for several minutes. With the mains supply permanently connected the 750 litre model will deliver warm water for the 15 minutes recommended by the ANSI standard. The 1200 litre model will meet the standard even without an external supply connected.

STD-MH-14K/1200

(Export Model EXP-MH-14K/1200)

Emergency Tank Shower incorporating a 1200 litre tank to deliver a guaranteed flow of warm water for up to 15 minutes even when the mains supply has been disrupted.

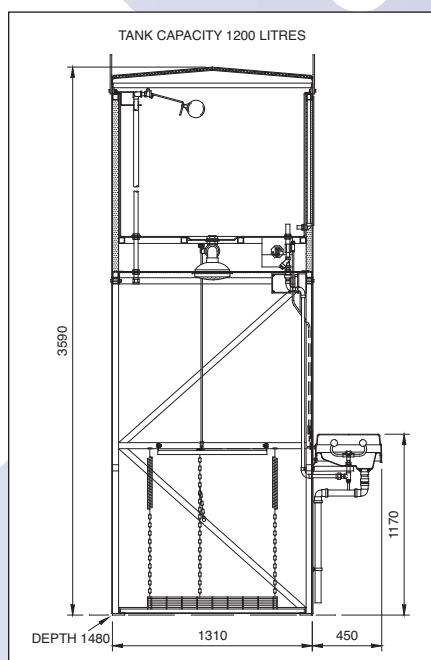
An integral immersion heater, controlled by a dual safety thermostat, maintains the water in the insulated tank at a constant temperature.

The shower is activated when the casualty stands on the optional Foot Panel or pushes the panic bar.

A version is available with the Eye/Facewash Fountain mounted internally. Alternatively the Eye/Facewash Fountain can be omitted.

Insulated models available, without heating
STD-J-14K/1200
EXP-J-14K/1200

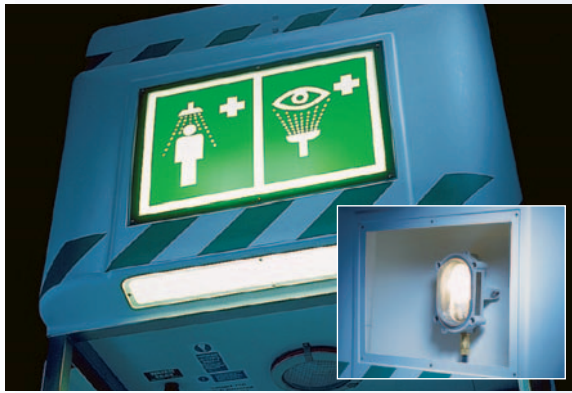
Note: An Earthquake proof version of this model is available which has been designed to conform to the California Building Code 1998 Chapter 16, Division 1.



for further information and the latest updates please go to

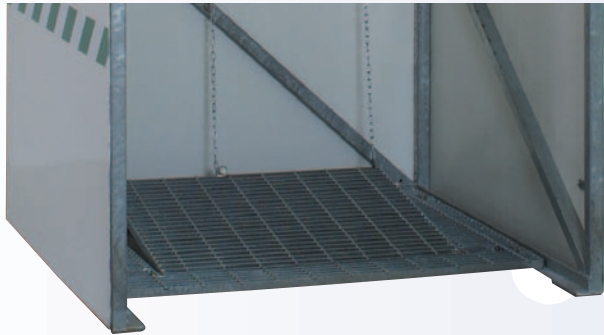
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Optional Fittings Tank Showers



- **Light & Light Box**

For Non-Flameproof models the optional Light Box is fitted with two lights inside, whereas on Zone 1 & 2 models a single bulkhead type light is fitted (as shown in picture). Other types of light are available such as fluorescent and MBF/U (Mercury) lights should these be preferred.



- **Panel Foot Control**

As an additional means of operating the shower.

- **GRP Panelling**

To reduce overspray especially when the unit is located in an exposed position. Available in a choice of colours.



- **Visual Level Indicator**

To enable an operator to easily check the water level inside the tank.

- **Eye/Facewash Fountain**

Fitted to the Tank Shower legs for decontamination of eyes, face or hands. On 750 and 1200 litre models this can be internally or externally mounted. N.B. Eye/Facewash can be tank or mains fed.



- **Hand Held Eyebath Unit**

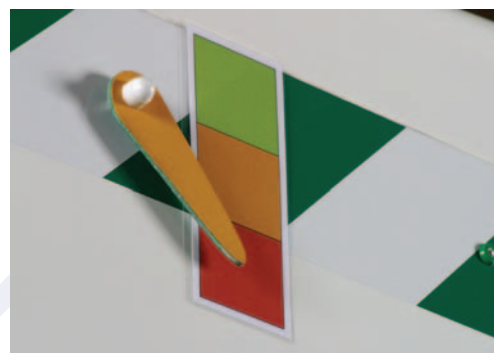
Eyebath on a flexible hose, as an additional means of flushing eyes, face or hands. N.B. Eyebath can be tank or mains fed.

- **Level Switch**

Fitted inside the tank to indicate at a remote position that the tank is not full and needs refilling.

- **Syphon Dump Valve**

To automatically discharge a proportion of water on a regular basis to ensure the water in the tank remains fresh at all times.



General Use Tank Showers

Accessories are available to help you make the most of your Tank Shower. Each site is different – each has its own requirements. With a wide choice of matched accessories available, you can create a safety solution that is perfectly suited to your needs. You can make your shower easier to identify, more accessible and simpler to operate.



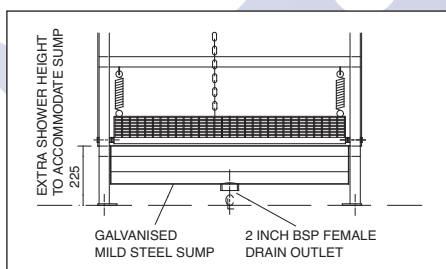
- **Proximity Switches**
Can be fitted to the shower and/or eye/facewash to indicate at a remote position that the unit is being operated.



- **Shower Test Handle**
To allow the shower to be tested without the operator getting wet.



- **Sunshields**
When operating in extreme temperatures, Tank Showers can be fitted with Sunshields to protect the water in the tank from the effects of heat transfer by conduction, convection and radiation. High density polyurethane insulation stops the conduction and convection and the integral silver foil stops radiation. The combined result of the Sunshields and the high efficiency insulation is the maintaining of an even temperature during day and night.
- **Chillers and Cooling Coils**
Can be fitted to cool the water in the tank to ensure it remains lower than ambient day time temperatures when units are installed in hot climates.



- **Drain Sump**
To contain the used water and direct it into a drain.



- **Strip Screens**
Clear or coloured PVC Strip Screens are available to reduce overspray and spillage to an absolute minimum and afford privacy to the user.

- **Water Temperature Gauge**
To allow the water temperature in the tank to be monitored.
- **Shower Doors**
Available in a choice of designs and materials for fitting to the entrance.
- **Audible and Visual Alarms**
Various options available to suit client's requirements.
- **Mains Fed Shower System**
Additional Mains Fed Shower System to supplement the flow from the Tank Shower rose, (various options available).

ANSI Standard Z358.1-2009 states:
7.4.3. Be located in an area identified with a highly visible sign positioned so the sign shall be visible within the area served by the combination unit. The area around the combination unit shall be well lit.

for further information and the latest updates please go to
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Optional Fittings and Technical Details

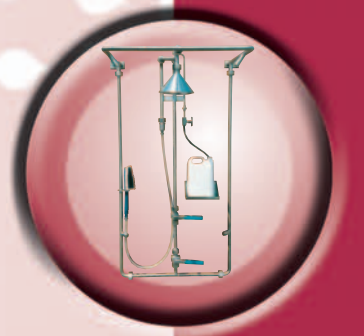
	Optional Fittings																			
	Hand Held Eyebath Unit	Eye/Facewash Fountain	Panel Foot Control	Light - Non Flameproof	Light - Zone 1 & 2	Proximity Switch	Proximity Switch - Non Flameproof	Audible/Visual Alarm	GRP Panelling on Legs	Level Switch	Syphon Dump Valve	Pointer Type Level Indicator	Drain Sump	Strip Screens	Shower Doors	Shower Test Handle	Sunshields	Cooling Coil	Chiller Unit	Mains Fed Shower System
STD-MH-14K/350	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●
STD-MH-14K/750	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●
STD-MH-14K/1200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●
STD-J-14K/350	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
STD-J-14K/750	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
STD-J-14K/1200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EXP-MH-14K/350	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●
EXP-MH-14K/750	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●
EXP-MH-14K/1200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●
EXP-J-14K/350	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EXP-J-14K/750	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EXP-J-14K/1200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Technical Details

Galvanised	Stainless Steel	Depth mm	Width mm	Height mm	Weight kg	Inlet Size (" inches) BSP	Min. Pressure kg/cm ² (bar g)	Water Flow l/min
STD-MH-14K/350	STD-MH-14KS/350	880	1035	3115	150	3/4" Female	0.5	75
STD-MH-14K/750	STD-MH-14KS/750	1480	1320	3315	270	3/4" Female	0.5	75
STD-MH-14K/1200	STD-MH-14KS/1200	1480	1320	3525	320	3/4" Female	0.5	75
STD-J-14K/350	STD-J-14KS/350	880	1035	3115	150	3/4" Female	0.5	75
STD-J-14K/750	STD-J-14KS/750	1480	1320	3315	270	3/4" Female	0.5	75
STD-J-14K/1200	STD-J-14KS/1200	1480	1320	3525	320	3/4" Female	0.5	75
EXP-MH-14K/350	EXP-MH-14KS/350	880	1035	3115	150	3/4" Female	0.5	75
EXP-MH-14K/750	EXP-MH-14KS/750	1480	1320	3315	270	3/4" Female	0.5	75
EXP-MH-14K/1200	EXP-MH-14KS/1200	1480	1320	3525	320	3/4" Female	0.5	75
EXP-J-14K/350	EXP-J-14KS/350	880	1035	3115	150	3/4" Female	0.5	75
EXP-J-14K/750	EXP-J-14KS/750	1480	1320	3315	270	3/4" Female	0.5	75
EXP-J-14K/1200	EXP-J-14KS/1200	1480	1320	3525	320	3/4" Female	0.5	75

PPE Decontamination

PPE Decontamination Showers



PPE Decontamination Showers



◀ DEC-V-5

Two stage Decontamination Shower with detergent application followed by wash down shower action. Incorporating a detergent inducing venturi feeding an overhead shower rose and hose brush, and 10 shower nozzles for the secondary wash down.

Shown with no optional fittings.

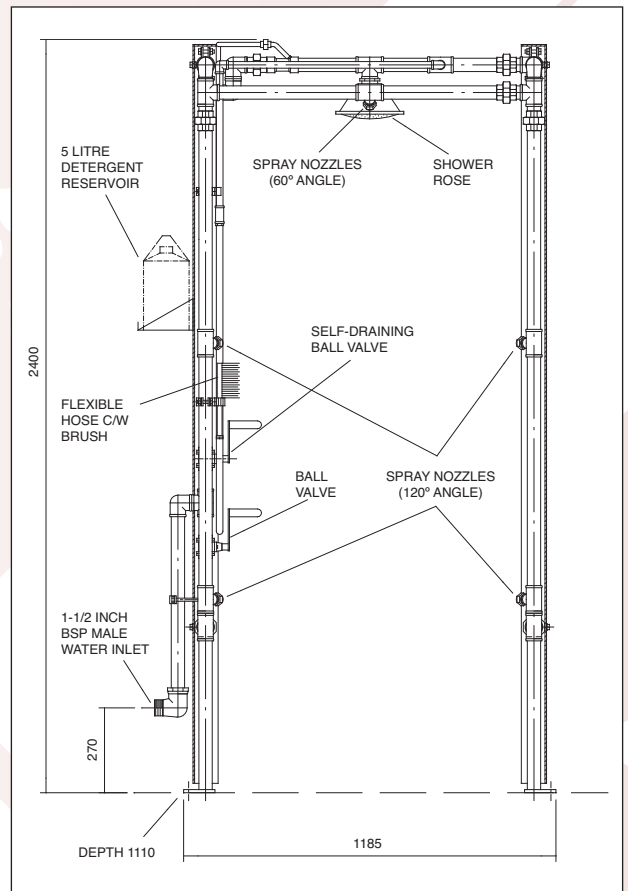
Available with Stainless Steel pipework DEC-V-5S.

Ancillary Items & Technical Details:

See tables on page 70.



When the location is of a temporary nature these units can be easily sited by Fork Lift Truck and connected to the water main by using 38mm lay-flat delivery hose.



PPE Decontamination Showers

For Personal Protective Equipment

In cases where Personal Protective Equipment (PPE) is worn it is imperative that any contaminant or other unpleasant substance is thoroughly washed off prior to removal. This is necessary, not only for the health and safety of the individual (in line with current legislation), but also to preserve the effective life of this very costly equipment. All models in this range of Decontamination Showers (with the exception of model DEC-D-29 and the Damping Shower) have been specially designed to introduce a detergent into the water flow. This is necessary to ensure a thorough and speedy decontamination.

Operation of PPE Decontamination Showers

The operation of these showers is in two stages - the detergent application, followed by the water drench. The detergent is induced into the flow of water by a venturi action which delivers a mixture of diluted detergent through an overhead shower and a hose brush. The hose brush is of a car wash type and is fitted to assist in the decontamination process when dealing with difficult or excessive spillages. The second stage, the water drench, is delivered from eight high velocity spray nozzles from the sides and two high velocity, high flow-rate nozzles from above. This means a thorough 360° decontamination is provided.



△ DEC-V-5

Shown with PVC strip screens and drain sump, detailing easy access through PVC strip screens.

Available with Stainless Steel pipework DEC-V-5S.

Optional Fittings & Technical Details:

See tables on page 70.

▶ DEC-D-29

Basically similar to the Venturi Shower, but does not incorporate the venturi detergent inducer.

Available with Stainless Steel pipework DEC-D-29S.

Optional Fittings & Technical Details:

See tables on page 70.

for further information and the latest updates please go to
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PPE Decontamination Showers

Showers

Wall Mounted Models



DEC-V-1

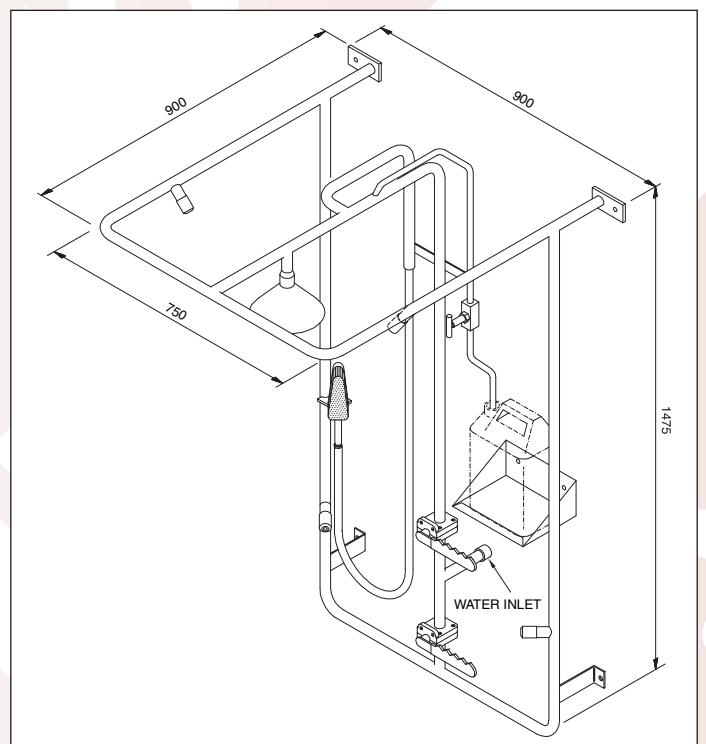
Wall mounted Decontamination Shower with venturi detergent inducer. With tubulars manufactured from stainless steel milk tubing. For use in clean areas typically found in the pharmaceutical industry.

DEC-V-2

Wall mounted Decontamination Shower with venturi detergent inducer. With tubulars manufactured from stainless steel standard tubing.

DEC-V-3

Wall mounted Decontamination Shower with venturi detergent inducer. With tubulars manufactured from galvanised and painted carbon steel tubing.



Wall Mounted Models

Wall mounted Decontamination Showers, designed to introduce a detergent into the water flow in order to greatly increase the cleansing action. These models incorporate a two stage operation, similar in function to model DEC-V-5, detailed on pages 66 & 67 and were designed in conjunction with one of the major pharmaceutical companies in the U.K. Also, these models have been found to be more suitable in locations where space is at a premium.

Damping Shower

For the damping of protective clothing prior to removal, avoiding the risk of contact with airborne contaminants. The cubicle is fitted with ten water nozzles positioned overhead, at chest height and at waist level. This configuration ensures thorough 360° coverage in the shortest possible time. As total damping takes place in a matter of seconds throughput is increased compared with conventional decontamination showers, and is achieved without compromising performance and with minimal contaminated waste.



DEC-DS-6

DAMPING SHOWER
A simple and effective solution

This walk-through Decontamination Cubicle has been designed specifically for the pharmaceutical industry for use in laboratories, production areas and packaging departments. However it is suitable for many environments where there is a potential risk of contamination of protective clothing by airborne particles.

Fully automatic operation

The Damping Shower starts automatically when a person enters the cubicle and breaks the photoelectric beam. It continues to operate until they leave the cubicle. Eliminating manual control prevents the risk of depositing contaminants on operating devices within the cubicle.

Complete protection

It delivers a fine water mist to thoroughly dampen full-body protective clothing. It also leaves both hands free so that they can be raised for quicker and more efficient damping. The damping of clothing prior to removal prevents the release of airborne contaminants.

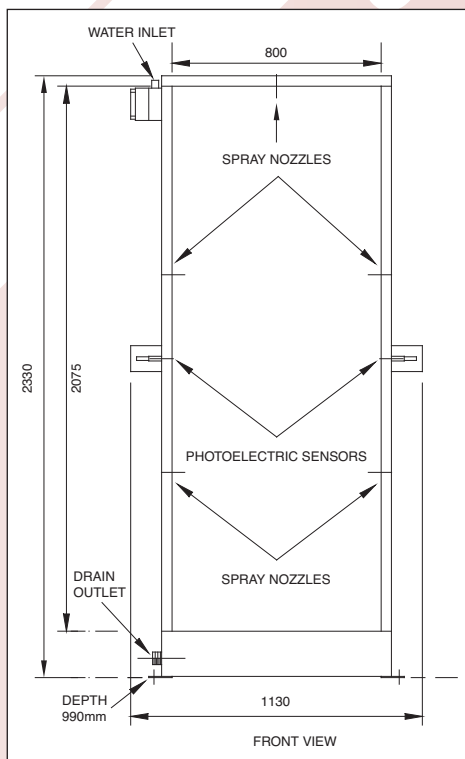
Decontamination wherever it's needed

If the Damping Shower cannot be installed permanently, it is light enough to be moved easily to wherever decontamination facilities are required. As the flow rate is relatively low, water can be supplied by a hosepipe connected to the unit's inlet manifold. Only small quantities of waste water are produced so the optional sump can be manually emptied as required or, for convenience, a hose connection made to the nearest effluent collection point.

Options

The cubicle frame is manufactured from stainless steel and can be clad in either glass-reinforced plastic (GRP) or steel panels depending on the application and intended location.

An optional GRP drain sump can be fitted into the base of the cubicle to collect surplus water and can be permanently plumbed into the site's effluent collection and treatment system.



Optional Fittings and Technical Details

	Optional Fittings					
	Drain Sump	PVC Strip Screens	38mm Lay Flat Hose	Galvanised Painted Panelling	Stainless Steel Panelling	Aluminium Panelling
DEC-V-5	●	●	●	●	●	●
DEC-D-29	●	●	●	●	●	●
DEC-V-1						
DEC-V-2						
DEC-V-3						
DEC-DS-6	●	●		●	●	●

Technical Details

Galvanised	Stainless Steel	Depth mm	Width mm	Height mm	Weight kg	Inlet Size (" inches) BSP	Min. Pressure kg/cm ² (bar g)	Water Flow l/min
DEC-V-5	DEC-V-5S	1110	1300	2400	160	1 1/2" Male	4.0	250
DEC-D-29	DEC-D-29S	1110	1300	2400	150	1 1/4" Female	4.0	250
-	DEC-V-1	920	900	1540	20	3/4" Male	2.8	60
-	DEC-V-2	920	900	1540	20	3/4" Male	2.8	60
DEC-V-3	-	920	900	1540	20	3/4" Male	2.8	60
-	DEC-DS-6	910	1100	2150	80	1/2" or 15mm Compression	2.8	4.5

Decontamination Showers & Equipment



Decontamination Showers & Equipment



PORTAflex 300

A multi-nozzle Portable Decontamination Shower designed to be both lightweight and robust. Can be quickly deployed when needed in cases of major Chemical, Biological and Nuclear incident. With 'unbreakable' hose legs that become rigid under pressure to give a thorough 360° decontamination to the person or object being decontaminated.

Options

- Number of nozzles
- Nozzle sizes
- Water inlet connection type
- CUPOLA

Ancillary Items & Technical Details:

See pages 78-80.

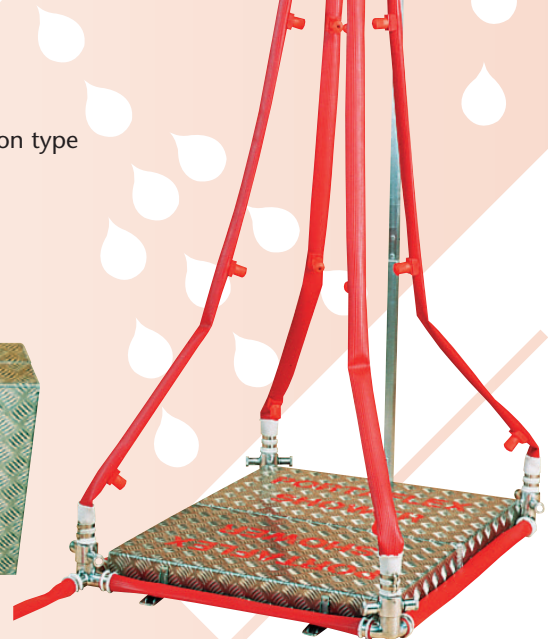


PORTAflex CUPOLA

An inflatable Decontamination Shelter used in conjunction with the hose assembly from a PORTAflex 300. Used to contain the contaminated water and eliminate airborne overspray. Fitted with replaceable inner lining, which has windows on two opposite sides to enable the decontamination process to be observed while openings on the other two sides enable personnel to walk through from the dirty area to the clean area. The openings are fitted with drop down splash flaps to eliminate overspray.

Ancillary Items & Technical Details:

See pages 78-80.



PORTAflex 75

An economically priced unit which in serious accidents serves as a primary or front line safeguard until such time as a major Decontamination Shower is brought to the scene or is made available. Alternatively, this primary unit may be adequate for minor incidents or where the degree of contamination is not great.

Ancillary Items & Technical Details:

See pages 78-80.



Decontamination Showers & Equipment

A range of Decontamination Showers and Ancillary Equipment for use in case of accident, disaster or attack involving chemical, nuclear or biological agents.

Generally there are four types of decontamination which would cover most scenarios.

1. Decontamination of protective clothing prior to removal
2. Decontamination of ambulant (walking) casualties
3. Decontamination of non-ambulant (stretchered) casualties
4. Dry Decontamination

These types of decontamination can be split into two categories – the first and most common is the decontamination of the protective clothing worn by emergency services/military personnel prior to its removal. The other type involves the decontamination of the bare skin of casualties that have been involved in an incident.

This range of units has been developed to accommodate all types of decontamination. Some units are specifically for use by the emergency services, others have been developed specially for the decontamination of the general public, and some are universal for use in either category of decontamination. All units are quick to assemble and easy to operate. Most of the units incorporate built in sumps for containment of contaminated surplus, and disposable linings to allow for easy disposal of the contaminated parts of the unit, thus ensuring an environmentally friendly solution to decontamination.

CUPOLA Lightweight

MK1 & MK2

Lightweight, walk-through units for the decontamination of the general public and the emergency services.

Both units have the same basic inflatable frame construction, but the MK2 is designed for two stage decontamination.

They are easily carried in a highly visible valise which opens out to form a protective ground sheet. This is attached to the base of the unit and provides protection against sharp objects when the system is being positioned or when it is in use. Showering takes place within a removable translucent liner which is hung from the inflated frame using Velcro sleeves.

Support personnel can monitor the decontamination process through windows on both sides and offer assistance by using the integral gloves fitted in the liner wall.

Ancillary Items & Technical Details:

See pages 77-80.

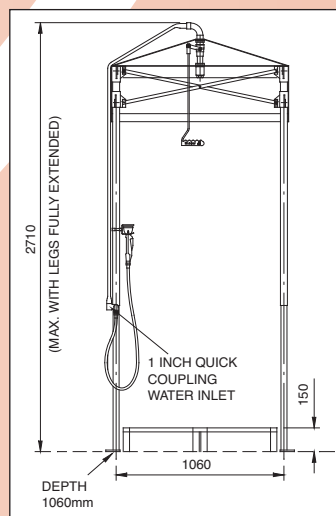


PORTAdec 1000

A Portable Shower used to decontaminate protective clothing, or as a temporary Emergency Shower to wash chemicals from the skin. Stored in a heavy duty 'hold-all', it can be erected and ready for use in minutes. The unit comprises a robust foldaway frame with integral hood, disposable side sheeting and sump. The sump incorporates a disposable fibreglass foot grating to ensure the user is not standing in the contaminated wash-off water.

Ancillary Items & Technical Details:

See pages 77-80.



for further information and the latest updates please go to

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CUPOLAdecon 1 ▽

A mass decontamination unit capable of treating over 500 people an hour.

Its inflatable frame is of a similar construction to the CUPOLAdecon 5 but with entrance and exit at the ends. It has three separate sections for the three stages of decontamination; dis-robe, shower, and re-robe. Casualties move along the unit in one of three channels, one for male, one for female, and a centre channel for people on stretchers. This centre channel can also be used by emergency services personnel to monitor casualties as they pass through the decontamination process.

Ancillary Items & Technical Details:

See pages 77-80.



CUPOLAdecon 2 ▷

A multi-purpose decontamination unit primarily intended for the decontamination of emergency services personnel. It is also suitable for the mass decontamination of the general public, treating over 200 people an hour.

The unit comprises a removable inner lining supported by a heavy-duty arched inflatable frame. Optional raised floor panels prevent contact with the shower wash-off which is collected below in a built-in chemical resistant sump. The interior layout can be altered to suit different decontamination procedures using removable partitions to achieve the desired configuration. The showering system itself can be customised to suit individual requirements and with ancillary equipment such as water heaters and chemical inducers, it offers highly effective two-stage warm water showering. A variant of the CUPOLAdecon 2 is now the British Fire Service standard decontamination unit for use in case of chemical spillages or CBRN incidents.

Ancillary Items & Technical Details:

See pages 77-80.



CUPOLAdecon 5

A mass decontamination unit with a throughput of over 300 people an hour.

It has five sections, each with separate cubicles for three-stage decontamination. Cubicle partitions can be easily removed to accommodate casualties on stretchers or for use by the emergency services. The showering system can be combined with ancillary equipment such as water heaters and chemical inducers to offer highly effective two-stage warm water showering. Entrance and exit flaps in the sides of the unit can be zipped for privacy and protection. A removable inner lining is supported by a heavy-duty arched inflatable frame and the use of optional raised floor panels prevents contact with the shower wash-off which is collected below in a built-in chemical resistant sump.

Note: Three and four section versions of this unit are also available CUPOLAdecon 3 & CUPOLAdecon 4.

Ancillary Items & Technical Details:

See pages 77-80.

Decontamination Showers & Equipment

A range of Decontamination Showers and Ancillary Equipment for use in case of accident, disaster or attack involving chemical, nuclear or biological agents.

Generally there are four types of decontamination which would cover most scenarios.

1. Decontamination of protective clothing prior to removal
2. Decontamination of ambulant (walking) casualties
3. Decontamination of non-ambulant (stretchered) casualties
4. Dry Decontamination

These types of decontamination can be split into two categories – the first and most common is the decontamination of the protective clothing worn by emergency services/military personnel prior to its removal. The other type involves the decontamination of the bare skin of casualties that have been involved in an incident.

This range of units has been developed to accommodate all types of decontamination. Some units are specifically for use by the emergency services, others have been developed specially for the decontamination of the general public, and some are universal for use in either category of decontamination.

All units are quick to assemble and easy to operate. Most of the units incorporate built in sumps for containment of contaminated surplus, and disposable linings to allow for easy disposal of the contaminated parts of the unit, thus ensuring an environmentally friendly solution to decontamination.



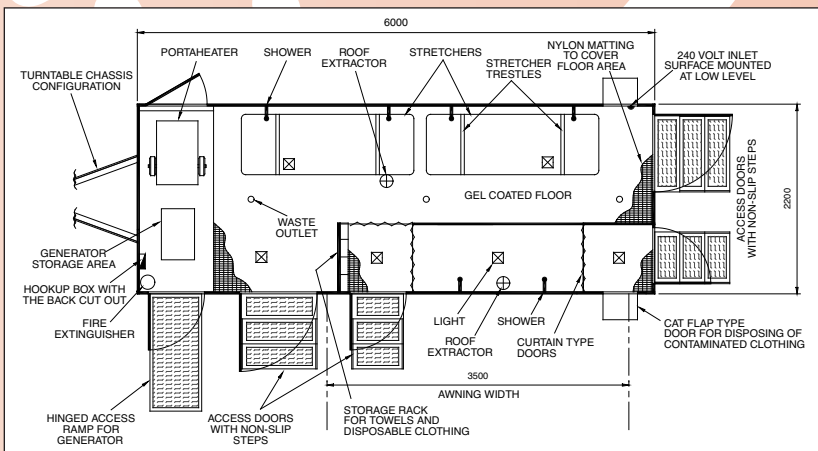
ERDU

An Emergency Response Decontamination Unit which is either constructed as a trailer or as a demountable pod. As a fully self-contained unit this can be deployed at the scene of an incident or at the entrance to the A & E department of a hospital.

Designed for the decontamination of either stretchered or walking casualties before either entering the ambulance or hospital. Fitted with its own water heater and shower system.

Ancillary Items & Technical Details:

See pages 77-80.



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ULTRASONIC ATOMIZER

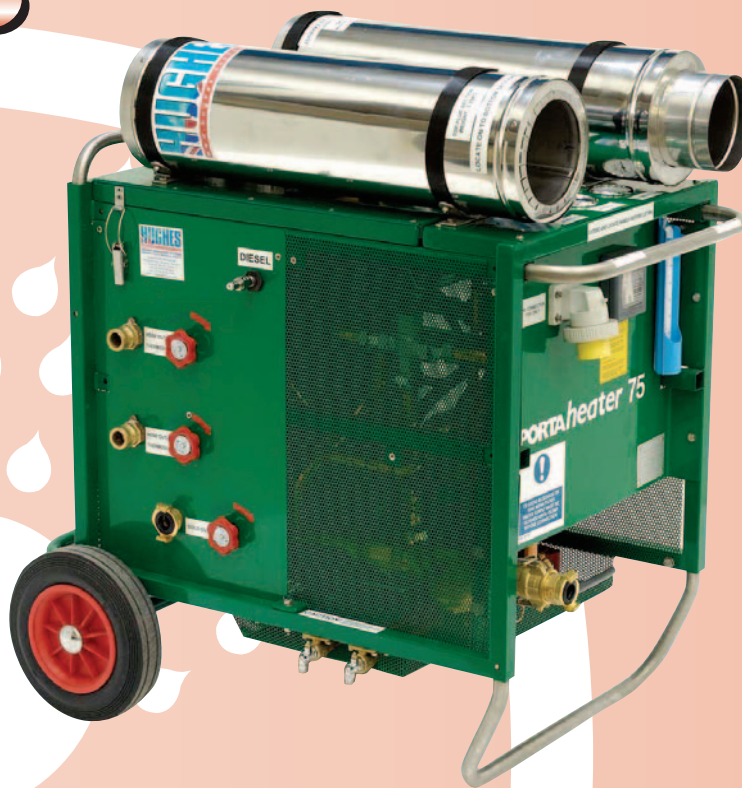
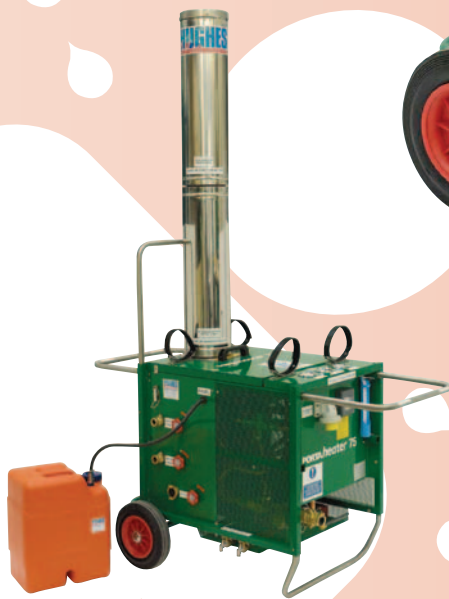
The Ultrasonic Atomizer is used for decontamination and disinfection. It dispenses an atomized solution to dampen the contaminated surface without excessive wetting. The trolley-mounted unit is completely self-contained; it is portable and independent from any supply line and includes a chemical storage tank, air supply and the hand-held gun that produces the atomized spray. Pressure regulators and chemical control valves are positioned on top of the trolley to give the operator easy control while using the unit.

A backpack model and a fixed wall mounted model are also available dependent on the specific application the atomizer is required for.



PORTAheater 75

The PORTAheater 75 is a portable high flow rate water heater specifically designed to supply tepid water for improved cleansing and decontamination action. It has the capability to heat cold water from a pressure of between 1 and 5 bar at a flow rate of 75 litres per minute and is built into a trolley framework for ease of deployment and manoeuvrability.



PORTAheater 50

The PORTAheater 50 has been developed for less demanding conditions and operation. With lightweight painted mild steel frame.



PORTAheater 100

The PORTAheater 100 has a robust stainless steel frame which incorporates heavy duty side panels, stainless steel lid and fold-away lifting handles.



**Ancillary
Decontamination
Equipment**

To enable the decontamination process to be quick and efficient and to ensure emergency services personnel are adequately protected, a range of ancillary items and equipment has been added to complement our range of Portable Decontamination Showers.

As well as all the ancillary equipment that is required to operate a Decontamination unit there are also other items such as Protective Clothing (PPE) for the emergency services to wear, as well as Pre Decontamination and Post Decontamination Packs for casualty use. Furthermore, portable high flow rate instant water heaters are essential for speeding up the decontamination process. In line with the requirements of the UK Fire Service and other emergency services and hospitals around the world, we have sourced a selection of ancillary equipment and items that are more than adequate for achieving the objective of efficient, safe and speedy decontamination of either the emergency services or large numbers of the general public.

for further information and the latest updates please go to

www.hughes-safety-showers.co.uk

Ancillary Items and Equipment



- **Waste Receptacles**

For the safe handling of contaminated clothing and equipment and/or waste water. The waste receptacles are palletised and can also be lifted with lifting slings. Capacity 1m³ or 1000 litres of contaminated water.

- **Floor Panels and Mats**

Special floor panels and non-slip mats are available for some models to ensure the users are not standing in contaminated wash off. All floor panels are chosen for their tight fit to ensure the users cannot be injured due to trapped feet.



- **Water Pumps**

Various sizes and types of water pump can be supplied for feeding the Decontamination Showers or for pumping out the sumps. Flow rates vary dependent on application.



- **Heating & Air Conditioning Systems**

A variety of systems are available to ensure the comfort of the user, whatever the ambient conditions.

- **Ventilation Systems**

Various ventilation fans are available with electrics to suit available power. These fans allow an efficient movement of air within a decontamination unit and avoid the dangerous build up of gasses or vapours.

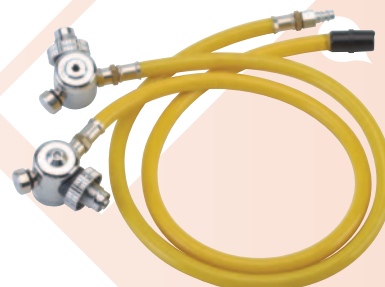
- **Portable Reservoir**

Heavy-duty reservoirs are available in capacities ranging from 2,300 to 6,000 litres. They are quick to deploy and are made from double layered rubber coated polyester. A complete reservoir includes a floating cover, hand pump and repair kit, all of which are stowed in a convenient carrying valise.



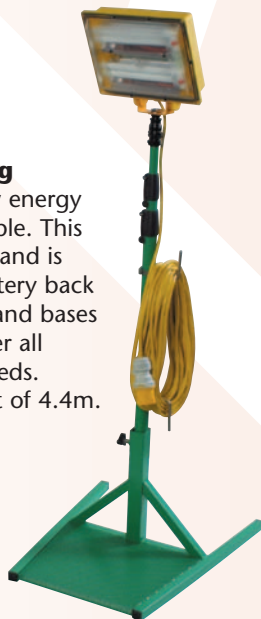
- **Air Inflators**

Compressed air regulators and electric air inflators are available for inflation of the Decontamination Units. Electric air inflators are available in 240 or 110 Volts, 50 or 60 Hz (to suit electrical power supply).



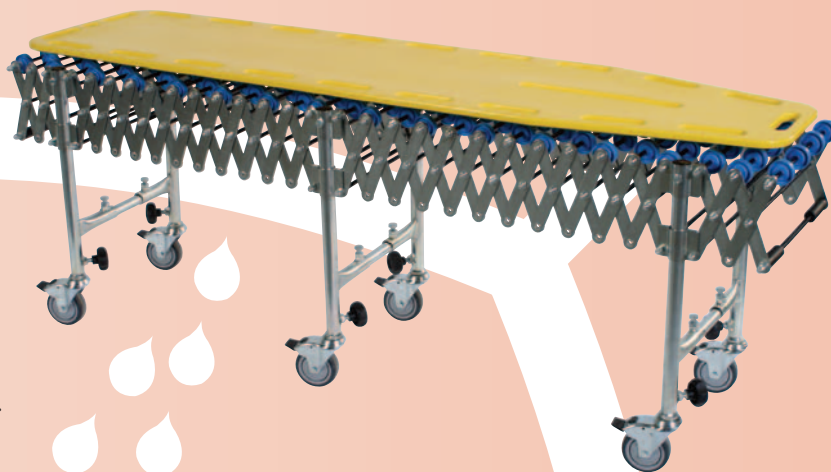
- **Low Energy Lighting**

240v, 110v or 24v low energy flood lighting is available. This can be linked lighting and is also available with battery back up. A choice of poles and bases are offered which cover all normal operational needs. Extendable to a height of 4.4m.



- **Roller Beds, Stretchers, Trolleys and Spinal Boards**

A selection of equipment is available to assist with the efficient handling of non-ambulant casualties. Details are available on request and depend on specific customer requirements.



- **Cleaning and Neutralising Agents**

Various types of Cleaning and Neutralising Agents are available, sourced from specialist manufacturers from around the world. Each product has been developed to suit specific decontamination criteria.



- **Generators**

A range of diesel or petrol powered generators are available, with a choice of power outputs and voltages to suit customer requirements.

- **Rescue Stick**

Collapsible 4.5 metre long hooked rescue stick designed to give extra reach when offering assistance to casualties in water, on ice or on unstable ground. It is lightweight, compact and adjustable for easy transportation and deployment, and its highly visible design makes it ideal for use in low light conditions.



- **Chemical Inducers**

Chemical Inducers are available which allow detergent to be induced into the water flow to significantly increase the effectiveness of a decontamination shower.



- **High Output Lighting**

240v or 110v high output external scene lighting is available. The pneumatically actuated telescopic mast with light head and heavy duty tripod can be assembled in less than 3 minutes and is able to withstand 50mph winds. Extendable to a height of 6m.

Decontamination equipment can be customised to suit individual needs by adding a range of ancillaries that can extend or enhance its performance for particular applications, improve accessibility, or make it easier to use. For optimum performance, all ancillaries are manufactured to the same high standards as the decontamination units and designed to work with them. This integrated approach guarantees performance and reliability and avoids the potential incompatibility problems when sourcing ancillary equipment from different manufacturers.

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Ancillary Items and Technical Details

	Ancillary Items																				
	Compressed Air Regulator	Electrical Air Inflator	Generator	Lighting	Portaheaters	Water Feed Pump	Waste Water Pump	Hot Air Blower (Heater)	Air Conditioning	Ventillation Fan	Waste Receptacles	Water Reservoirs	Disposable Linings and Sumps	Colour & Material Options	Camouflage Cover	Floor Panels and Mats	Absorbant Mats & Materials	Chemical Inducers	Handheld Shower and Brush	Roller Bed for Stretchers	Customers Own Specification
PORTAFLEX 75				●	●						●						●				
PORTAFLEX 300				●	●						●						●				
PORTAFLEX CUPOLA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
CUPOLA LIGHTWEIGHT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
CUPOLA DECON 1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
CUPOLA DECON 2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
CUPOLA DECON 3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
CUPOLA DECON 4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
CUPOLA DECON 5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PORTADEC 1000			●	●	●	●				●	●	●	●	●	●	S	●	●			●
ERDU			●	S	●	●	●	●	●	●	●		●		S	S	●		●	●	
ATOMIZER																					●

S denotes standard fitting

Technical Details

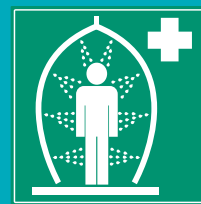
	Length mm	Width mm	Height mm	Weight kg	Inlet Size (" inches)	Assembly Time	Water Flow l/min
PORTAFLEX 75	1040*	760*	160	17	2 1/2"	Less than 30 seconds	750 (max)
PORTAFLEX 300	770*	500*	190*	24	2 1/2"	Less than 45 seconds	1750 (max)
PORTAFLEX CUPOLA	900*	600*	400*	45	2 1/2"	Less than 3 minutes	75 to 1750
CUPOLA LIGHTWEIGHT MK1	1000*	650*	450*	53	3/4"	Less than 3 minutes	30 to 75
CUPOLA LIGHTWEIGHT MK2	1500*	1000*	400*	63	3/4"	Less than 3 minutes	30 to 75
CUPOLA DECON 1	1400*	680*	400*	75	3/4"	Less than 8 minutes	75 (max)
CUPOLA DECON 2	1300*	680*	500*	85	3/4"	Less than 5 minutes	75 (max)
CUPOLA DECON 3	1400*	600*	550*	100	3/4"	Less than 10 minutes	75 (max)
CUPOLA DECON 4	1400*	700*	650*	125	3/4"	Less than 10 minutes	75 (max)
CUPOLA DECON 5	1400*	800*	750*	150	3/4"	Less than 10 minutes	75 (max)
PORTADEC 1000	1700*	500*	300*	35	1"	Less than 7 minutes	15 to 30
ERDU	6035	2180	2820	2000	1"	N/A	N/A
PORTAHEATER 50	820	690	790	105	1"	Less than 1 minute	75 (max)
PORTAHEATER 75	825*	540*	745*	110	1"	Less than 1 minute	75 (max)
PORTAHEATER 100	770*	620*	820*	120	1"	Less than 1 minute	75 (max)
ATOMIZER	500	520	1230	32	N/A	N/A	9 (l/hour)

* Packed size

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EXP-20G/45G.....	31	STD-23K/V.....	27
EXP-20G/45G-T.....	31	STD-23K/24K.....	27
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EXP-EJ-45G/P.....	48	STD-40K.....	36
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NB: STAINLESS STEEL VERSIONS FOR ALL UNITS ARE DENOTED WITH A SUFFIX 'S'

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