Nippon Encon Manufacturing Co., Ltd. is a leading manufacturer of emergency showers and eyewashes.

During over 35 years in the market, we have built up a reputation for outstanding engineering design, strict quality standards and comprehensive customer service and support.

Our on-site maintenance service (Japan Only) and our research and product development centre are the foundations of our development program. Close cooperation with end users provides essential feedback on product design and performance, which allows us to continuously develop and improve our products.

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KEY
FS Stainless Steel Eyewash Spray Heads HFC Foot Pedal
SW/O Handwasher DC Dust Cover
F Freeze Protection C Curtain
FW Flow Switch AL Alarm System
Why Choose Japans Leading Manufacturer of Emergency Showers?

NIPPON ENCON

1. Our safety equipment always fully complies with the ANSI Z358.1 standard

All products fully comply with the ANSI Z358.1 standard. When necessary, we endeavour to modify our standard design models to meet our clients’ specifications. In order to produce the best possible products, we believe it is essential to adhere to the ANSI Z358.1 safety regulation.

2. Most Experienced in the Domestic Market

Nippon Encon Manufacturing Co., Ltd was the very first company in Japan to sell Emergency Showers and Eyewashes. We have been manufacturing emergency shower equipment for over 35 years. Our overseas sales account for 40% of our sales, and is the fastest growing part of our sales book. All Nippon Encon showers and eyewashes come with a one year warranty and depending on the installation location, the life expectancy of our products can be up to 10 years.

3. Custom-Made Design Available

We have an extensive catalogue of emergency shower equipment designs which covers most customers’ needs. Upon request, we are also able to custom-built products to meet the needs of customers from varying climates and environments globally. Our engineers offer product consultations in Japanese or English.

4. We use materials that comply with end users specifications

All products are designed, built and inspected in our factory in Japan. Each one of our products is manufactured individually by our experienced engineers. All products are thoroughly inspected before shipping out of our ISO 9001 management standard certified factory.

All our emergency showers and eyewashes are all record traceable. When end users are located in Japan, we fit emergency showers and/or eyewashes with JIS regulation fittings. However when shipping our products abroad, we do our best to fit our emergency showers and eyewashes with plumbing parts that meet the end users specifications.
Wherever there is a risk of exposure to hazardous substances, such as asbestos or other hazardous chemicals, emergency showers and eyewashes are absolutely essential for first aid treatment.

When a person accidentally comes into contact with a hazardous substance, the first treatment of any first aid protocol is to wash the exposed area with clean flushing water for a prolonged period of time, as soon as possible. This is the best action to minimize exposure to the hazardous substance and enable the body to heal the affected area of the body affectively. After the exposed person has washed the affected area thoroughly, they should seek medical attention as soon as possible.

It is important for emergency shower and eyewashes to comply with the ANSI Z358.1 standard.

Globally, the most commonly recognized safety standard for emergency showers and eyewashes is the American National Standards Institutes ANSI Z358.1 standard.

(*1) American National Standards Institute
(*2) American National Standard for Emergency Eyewash and Shower Equipment
Performance requirements for Emergency Showers are as follows:

- **Water Supply Line:** more than 1" (25A)
- **Flushing Fluid:** 75.7 L/min. minimum
- **Operating pressure:** 0.2 ≤ 0.55 MPa
- *Low velocity*
- *Valve opens within one second.*
- *It remains opened until intentionally closed.*
- *Tepid water 16~38°C*
  - Water can be supplied continuously for 15 minutes.

To avoid further injuries, shower head with large holes is used as it reduces the impact of showering while meeting the ANSI Z358.1 standards for flushing fluid.

Performance requirements for Eyewashes:

- **Flushing Fluid:** more than 1.5L/min
- **Operate Pressure:** 0.2 ≤ 0.55 MPa
- *Low velocity*
- *Valve opens within one second. It remains opened until intentionally closed.*
- *Tepid water 16~38°C*
  - Water can be supplied continuously for 15 minutes.

The eyes must be washed with flushing fluid at a low velocity. In order to do this, all our eyewashes are fitted with regulator valves which control the water flow velocity to a safe water velocity.
Temperature Control

The ANSI Z358.1 standard requires emergency showers/eyewashes to provide the user with tepid (16-38°C 60-100°F) flushing water at all times. Nippon Encon’s emergency showers and eyewashes are able to provide tepid water by using the following methods:

- **Freeze Protection Valve**
  
  This valve opens automatically when the ambient temperature drops below 1.5±1.2°C. The valve modulates open allowing water to flow. The valve will remain open as long as the water flowing by the sensor is less than 3.5±1.2°C. When the water temperature is within 3.5±1.2°C, the valve will close.

- **Weep Valve**
  
  The weep valve is normally open. It closes when the eyewash is in use. It helps to drain away water from the eyewash and prevent freezing. The weep valve is implemented in the base drain of our latest models.

- **Long Neck Ball Valve**
  
  Even with the installation of freeze protection valve and weep valve, there is still risk of freezing in the pipes. Hence, pipe insulation is necessary. Rather than normal ball valve, long neck ball valve is used to ensure pipes fully covered with insulation.

- **High Capacity Mixing Valves**
  
  ANSI Z358.1 standard requires flushing fluid to flow at a minimum rate of 75.7 L/min. This means the water flow must remain constant regardless of the emergency showers and/or eyewashes location. Mixing valves effectively regulates the flushing fluid temperature, without the use of electricity.

1. **Thermostatic Mixing Valve**

   Recommended for piping with warm water supply. No electricity required

   - **Dimension**: 280×203×110mm
   - **Hot Water Supply Pressure**: 0.45 MPaG
   - **Cold Water Supply Pressure**: 0.45 MPaG
   - **Connection**: 1-1/4” NPT

**Electrical Hot Water Tank System**

In situations where hot water cannot be supplied by the mains supply, water can be supplied via an electrical water tank attached to the Emergency Shower and/or eyewash. The water can be heated in the tank and the temperature can then be regulated by the thermostatic mixing valve.

- **Heater Capacity**: 4kW
- **Tank Capacity**: 450L
- **Water Supply Pressure**: 0.2 MPaG
- **Connection**: 1-1/4”
2. Steam Mixing Valve

Recommended for steam piping. No electricity required

This valve acts as an added safety measure, as it blends hot water with cold water to ensure constant, safe water temperatures, and therefore prevents scalding in the event of a water supply problem occurs.

Alarm System

Explosion-Proof Alarm System

The ANSI Z358.1 standard requires the location of Emergency Showers to be highly visible.

While the emergency shower is in use, the alarm light and horn sound in tandem. It informs not only nearby area, but also areas that are some distance away.

The alarm system can be connected to a company’s control centre.

Model No.

502-50FS.EP.FLW/AL

* Model 502-50FS.FLW/AL (non explosion proof alarm system) is also available.

* Alarm operation using flow switches is interchangeable with limit switches.
Model No. **808-D**

Standard Type

**FEATURES**

Standard type with inward folding door

Features:

- Shower panels are all made from stainless steel.
- Drain pan is fitted to the shower to collect excess water, with minimum gap from the ground.
- Drain plumbing is connected to the side of the shower unit making mains plumbing easy.
- Enclosed showers will be delivered, assembled and ready for use. The only preparation for use that the user has to do is connect the water supply and fix the anchor bolt.
- The doors prevent water splashing outside the unit therefore keeping the surrounding area clean.
- The translucent plastic glass allows people using the enclosed shower to be seen from outside.

**Dimensions (mm)**

Pipe sizes can be customized to meet the customer’s request

Opening size of strand approx

4 Anchor Bolt for fixing in place

2. Translucent glass resin door type

Eye bolt SUS 304

Booth SUS 304 Stainless Steel

Door Inward Opening Door

Drain Pan Stainless Steel

Shower Head SCS 14(SUS316) Stainless Steel

Eyewash Bowl SUS 304 Stainless Steel

Eyewash Spray Heads SCS 14(SUS316) Stainless Steel

Punching Metal Stainless Steel

Drain Pan Stainless Steel

Water Inlet Stainless Steel

Inward Opening Door Stainless Steel
Enclosed Emergency Showers & Eyewashes

Model No. 805-D

- Aluminium Type
  Same features as 808-D

<table>
<thead>
<tr>
<th>Specifications</th>
<th>808-D</th>
<th>805-D</th>
<th>801-FS</th>
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<td>Operating Temperature</td>
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<td>16~38°C</td>
<td>16~38°C</td>
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</table>

Model No. 801-FS

- Curtain Type
  Recommended for work areas with limited space.

Model No. 801HFC-FS

Foot pedal included

Optional Extras

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SUS304 Stainless steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SUS304 Stainless steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewash Bowl
  SUS304 Stainless steel

- Curtain
  Fire Retardant
  Polyester

- Drain Pan
  Stainless steel
  Open socket type

- Water Inlet
  SUS304 Stainless steel

- Shower Head
  SCS 14 (SUS 316) Stainless Steel

- Eyewash Spray Heads
  SUS304 Stainless steel

- Eyewasher Bowl
  SUS304 Stainless steel
Eyewash dust covers are an optional extra. They prevent contamination of eyewash spray heads. The cover is opened by pushing the foot or hand plate, which simultaneously starts the water supply.

All our shower heads are made from stainless steel. They comply with ANSI Z.358.1 flow rate 75.7 L/min.

All plumbing is made from stainless steel and is corrosion resistant.

Eyewash dust covers are an optional extra. They prevent contamination of eyewash spray heads. The cover is opened by pushing the foot or hand plate, which simultaneously starts the water supply.

All in one- Gargle facet, Eyewash, Hand Washer.

When users are unable to use their hands to operate the eyewash, the unit can be operated using the foot pedal.

**FEATURES**

- **Shower Head**
  - SCS 14 (SUS 316) Stainless steel

- **Water Inlet**
  - SUS 304 Stainless steel

- **DC Dust Cover**
  - SUS 304 Stainless steel

- **Model No. 502-50FS**
  - All Time Best Selling Model
  - All parts made from stainless steel.
  - No plating is done on copper alloy.
  - Anti-corrosion & chemical resistant

- **Dimensions**

- **Foot Pedal Included 502-50HFC**
  - Foot pedal, Chain & spring Stainless steel

- **Emergency Showers & Eyewashes**
## Emergency Showers & Eyewashes

### Model No. 502-50

<table>
<thead>
<tr>
<th>Eye/Face wash Included</th>
<th>Spray Heads made from ABS Plastic.</th>
</tr>
</thead>
</table>

### Model No. 502-07

| ABS Plastic Shower Head, Eyewash Bowl and Spray Heads are included. |

### Model No. 502-50FS SW/O

| Hand Washer and Gargle Facet Included | All parts made from stainless steel. |

### Model No. 502-50FS.DC

| Dust Cover Included | All parts made from stainless steel. Recommended for dusty environment. |

### Model No. 502-52FS.F

| Freeze Protection Valve Included | All parts made from stainless steel. Recommended for cold weather climate. |

### Model No. 502-50FS/C

| Curtain Included | All parts made from stainless steel. Can be used as a changing room. |

### Specifications

<table>
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<th></th>
<th></th>
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**Eye/Face wash Included**

**Spray Heads made from ABS Plastic.**

**ABS Plastic Shower Head, Eyewash Bowl and Spray Heads are included.**

**Hand Washer and Gargle Facet Included**

**All parts made from stainless steel.**

**Dust Cover Included**

**All parts made from stainless steel. Recommended for dusty environment.**

**Freeze Protection Valve Included**

**All parts made from stainless steel. Recommended for cold weather climate.**

**Curtain Included**

**All parts made from stainless steel. Can be used as a changing room.**
Emergency Eyewashes

FEATURES

The spinning procedure undertaken during production gives the bowl its shiny appearance, chemical resistance and durability.

Complies with the ANSI Z358.1 flow rate requirement of at least 1.5 L/min. Flow regulator is installed in the Eyewash. It keeps the flow rate to approximately 10L/min when the water pressure is more than 0.2MPa. All parts are made from stainless steel. We mass produce this item.

Complies with the ANSI Z358.1 standard’s flow rate of at least 11.4 L/min or above. Flow regulator is installed in the Eyewash. It keeps the flow rate to approximately 11.4L/min when the water pressure is more than 0.2MPa.

When your hands are occupied, you can step on the foot pedal to operate. All parts are made from Stainless Steel.

Dimensions

Model No. 450-40HFC-FS
Foot Pedal Included

Model No. 450-40FS

All Time Best Selling Model
All parts made from stainless steel.
No plating is done on copper alloy.
Anti-corrosion & chemical resistant

11
**Emergency Eyewashes**

**Model No. 450-40**
Eye/Face wash with ABS Plastic Spray Heads

- **Eyewash Bowl**: SUS304 Stainless Steel
- **Eye/Face wash Spray Heads**: ABS Plastic
- **Water Inlet**: SUS304 Stainless Steel
- **Foot pedal optional 450-40HFC**
- **Foot Pedal**: SUS304 Stainless Steel

**Specifications**

<table>
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**Model No. 303-40**
Eye/Face wash with ABS Plastic Spray Heads

- **Eyewash Bowl**: SUS304 Stainless Steel
- **Eye/Face wash Spray Heads**: ABS Plastic
- **Water Inlet**: SUS304 Stainless Steel
- **Foot pedal optional 303-40HFC**
- **Foot Pedal**: SUS304 Stainless Steel

**Model No. 450FS**
Wall Mounted Eyewash W/Eyewash Bowl
All parts made from stainless steel.
Easily connects to mains plumbing.

- **Eyewash Bowl**: SUS304 Stainless Steel
- **Eyewash Spray Heads**: ABS Plastic
- **Water Inlet**: SUS304 Stainless Steel

**Model No. 401**
Wall Mounted Eyewash W/O Eyewash Bowl
Eye/Face wash with ABS Plastic Spray Heads

- **Eye/Face wash Spray Heads**: ABS Plastic
- **Water Inlet**: SUS304 Stainless Steel

**Model No. 304**
Wall Mounted Eye/Face wash with ABS Plastic Spray Heads and Eyewash Bowl
Easily connects to mains plumbing.

- **Eyewash Bowl**: SUS304 Stainless Steel
- **Eyewash Spray Heads**: ABS Plastic
- **Water Inlet**: SUS304 Stainless Steel

**Model No. 401FS**
Wall Mounted Eyewash W/O Eyewash Bowl
All parts made from stainless steel.
Recommended for work areas with limited space.

- **Eye/Face wash Spray Heads**: ABS Plastic
- **Water Inlet**: SUS304 Stainless Steel

**Model No. 450**
Wall Mounted Eye/Face wash with ABS Plastic Spray Heads.
Easily connects to mains plumbing.

- **Eyewash Bowl**: SUS304 Stainless Steel
- **Eye/Face wash Spray Heads**: ABS Plastic
- **Water Inlet**: SUS304 Stainless Steel

**Model No. 401**
Wall Mounted Eye/Face wash with ABS Plastic Spray Heads.
Easily connects to mains plumbing.

- **Eyewash Bowl**: SUS304 Stainless Steel
- **Eye/Face wash Spray Heads**: ABS Plastic
- **Water Inlet**: SUS304 Stainless Steel
Suitable for locations with limited available space. The angle of the eyewash can be easily altered to suit the user. Must be connected to non-corrosive pipes to prevent rust particles causing clogging. Can be connected directly to laboratory sinks.

### Specifications

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<tr>
<th>Water Supply Location</th>
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<tr>
<td>Dimensions</td>
<td>379x225x256mm</td>
<td>379x225x256mm</td>
</tr>
<tr>
<td>Weight</td>
<td>2 kg</td>
<td>2 kg</td>
</tr>
<tr>
<td>Water Inlet Supply</td>
<td>PT 1/2 (15A)</td>
<td>PT 1/2 (15A)</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>0.2~0.6 MPaG</td>
<td>0.2~0.6 MPaG</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>16~38°C</td>
<td>16~38°C</td>
</tr>
</tbody>
</table>
Laboratory Use-Emergency Showers & Eyewashes

Wall Mounted Shower with Lateral Water Supply

Model No. 530-5

Ceiling Mounted Shower with Vertical Water Supply

Model No. 530-5V

Optional Extras

Pictorial Emergency Signs
Available Upon Request

Pictorial Emergency Signs are large and three-sided, making the signs easily viewable from all angles.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>600×200×3 sides</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Quality</td>
<td>polyvinyl chloride</td>
</tr>
<tr>
<td>Colour</td>
<td>Bright Yellow</td>
</tr>
<tr>
<td>Weight</td>
<td>2 kg</td>
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</table>

Reflective Pipe Stickers

<table>
<thead>
<tr>
<th>Water Inlet Supply</th>
<th>1-1/4B</th>
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<tbody>
<tr>
<td>Material</td>
<td>Polyester</td>
</tr>
<tr>
<td>Colour</td>
<td>White/Green</td>
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</table>

Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>530-5</th>
<th>530-5V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>500×250×250mm</td>
<td>500×250×250mm</td>
</tr>
<tr>
<td>Weight</td>
<td>5kg</td>
<td>4kg</td>
</tr>
<tr>
<td>Water Inlet Supply</td>
<td>PT 1(25A)</td>
<td>PT 1(25A)</td>
</tr>
<tr>
<td>Water Inlet Location</td>
<td>Side</td>
<td>Above</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>0.2~0.6MPaG</td>
<td>0.2~0.6MPaG</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>16~38°C</td>
<td>16~38°C</td>
</tr>
</tbody>
</table>
Specially designed to remove NBC* particles from clothes quickly and effectively.

In order to avoid the spread of infection, use is recommended before the person reaches the safety zone. Rescue workers are able to shower with their clothes on.

Our Portable Decontamination Shower meets the ANSI/ISEA 113 standards. Through extensive testing, we have formulated the most effective shower decontamination.

*Nuclear, Biological, Chemical

**Specifications**

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assembled Dimensions</td>
<td>110×96×210cm</td>
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<tr>
<td>Water flow</td>
<td>Above 15 Liter/min</td>
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<tr>
<td>Water Supply Pressure</td>
<td>Above 0.2 MPaG</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>16 ~ 38°C</td>
</tr>
<tr>
<td>Materials</td>
<td>PVC(for water supply) POM Stainless Steel</td>
</tr>
<tr>
<td>Sprays</td>
<td>Top×1 Side×4</td>
</tr>
<tr>
<td>Adaptors</td>
<td>Faucet, Faucet with screws (G1/2, G 3/4)</td>
</tr>
<tr>
<td>Bag</td>
<td>110×40×40cm</td>
</tr>
<tr>
<td>Accessories</td>
<td>Light-weighted Drainage Board, Hose 5m, Hand-held Shower</td>
</tr>
<tr>
<td>Weight</td>
<td>10 kg</td>
</tr>
</tbody>
</table>

**COMPACT DESIGN**

-Easy to carry and assemble

• Optional Extras : Shower Cover, Drainage pool, Drainage pipes, Tank
Portables and Space-Saving
The shower can be easily disassembled and stored in the provided bag, therefore reducing storage space. The bag has straps on both ends of the bag, which makes it easy for two people to carry.

Easy Assembly
Easily assembled without tools, using an easy to follow number sequence system.

Decontamination Shower

Decontamination Process

1. Hand-held shower is used to wash off visible dirt.

2. Main showering is done in the Decontamination Shower.

3. With the help from others, clothes are taken off, after wiping off excess water.

Wiping off excess water before removing clothes.
Accessories

Model No. 540-5
Shower Head (SUS304)

Model No. 540-3
ABS Shower Head

Model No. 540-1
1-1/4”/1” Ball Valve for Shower (SUS304 valve arm incl.)

Model No. 400-1
1/2” Ball Valve with push plate (Foot pedal use)

Model No. 400-2
1/2” Ball Valve with push plate (Push Plate use)

Model No. 303-1
Yellow ABS Bowl

Model No. 400-3
Stainless Steel Bowl (SUS304)

Model No. 500-7
Pull Rod

Model No. 400-6
Parts for Foot Pedal (SUS304) (Foot pedal, spring, chain, spring stopper included)

Model No. 700
Signboard
**Product Design**

1. **Water Flow of Eyewash**
   To avoid clean water and contaminated water from mixing, solid bar nipple is used to prevent contamination. The floor flange is also solid which prevents water leaking through it.

2. **When on site operating pressure is not within the standard pressure range**
   Pressure reducing valves are used to reduce the showers water supply pressure. Other solutions are used to increase the showers water supply pressure when required.

3. **Custom Made Engineering**
   In addition to a wide selection of standard safety units, we are also able to custom-build showers & eyewashes to meet our customers’ specifications.

**Assembly Notes**

1. **Dispatch in a semi-dismantled form**
   We advise that our products are assembled by people with professional piping work experience.

2. **Before connecting the shower units water inlet valve to mains piping, we advise checking for blockages in the piping.**
   This check is done by running flowing water through the pipes.

3. **Emergency Shower & Eyewash should be located in places with suitable mains water supply.**
   We strongly recommend the installation of a water strainer at the water inlet point.

   * After the flow regulator is inserted in the Eyewash pipes, the inner diameter of the pipes is only a few millimetres wide. This makes this area susceptible to blockages.

**Eyewash Usage Guidelines**

1. **Cover the Eyewash Spray Heads with Pop-off Covers.**
   In order to keep the Eyewash clean, we advise the use of spray head pop-off covers. Not only do they keep the spray heads clean, they also soften the initial water flow from the spray heads. The water flow pressure will push the pop-off covers off the spray heads when the eyewash is activated.

2. **Check the water flow weekly.**
   When the Emergency Shower & Eyewash is not used for prolonged periods, the excess water remaining in the pipes can cause rust to form. Rust-formed can in turn cause damage to the user’s body.
Design & Manufacturing Process Flow Chart

By implementing our certified ISO 9001 Management System, we provide a comprehensive and high quality service to our customers.

Quality Management Policy

- Offer superior products using our management operation system.
- Continuously update technology and improve cost performance.
- Strive to satisfy our customers.

1. Meeting
Customers’ requests are discussed in meetings to establish the best possible solution to their engineering needs.

2. AutoCAD Design
AutoCAD Design gives us easy access to a large database of manufactured designs. Its use also improves designs and productivity.

3. Manufacturing
Our products are fabricated one by one by our experts. With the knowledge of our experienced experts, we are able to manufacture highly reliable products.

10. Packing
Our standard safety shower weighs approximately 30KG. We recommend two people move this product.

11. Dispatch
After final quality control checks are complete, equipment is dispatched to customers.
4. Serial Numbering
Our managed services system allows users to check the history and location of their safety shower equipment.

5. Inspection and Testing
Visual/Dimensional and Pressure tests are done as standard. Other tests can be done upon request.

6. PMI (Positive Material Identification) Test
The PMI Test verifies the Alloy content of a material. This test is required for most overseas orders.

9. Packaging
Our standard safety shower is separated into 9 different parts and packaged using appropriate materials.

8. Witness Inspection
We have the facilities to carry out Witness Inspections at our factory upon request.

7. Performance Test
Performance tests are carried out as per ANSI Z358.1 and/or client's requirements.
## OUR CLIENTS

Worldwide Client Base
Predominantly supplying clients in Asia, Oceania, Middle East, Africa and South America.

### Engineering Companies
- Chiyoda Corporation
- Descon Engineering Corporation
- GS Engineering & Construction Corporation
- Hanwha E&C Corporation
- Hitachi Corporation
- IHI Plant Engineering Corporation
- Imabari Shipbuilding Co., Ltd.
- JGC Tecnimont Joint Venture
- Kawasaki Heavy Industries, Ltd.
- Mitsui Engineering and Shipbuilding Co., Ltd.
- M.W. KELLOGG Limited
- Sanki Corporation
- Samsung Engineering Co., Ltd.
- Sumitomi Chemical Engineering Co., Ltd.
- Técnicas Reunidas, S.A.
- Toyo Engineering Corporation

### Construction Companies
- Kajimaroad Co., Ltd
- Shimizu Corporation
- Taisei Corporation
- Toda Corporation

### End Users: Industrial Customers
- BASF Japan Ltd.
- Canon Inc.
- Daiichi Sankyo Company Limited
- Dow Corning Toray Co., Ltd.
- Eisai Co., Ltd.
- Exxon Mobil Corporation
- JX Nippon Oil & Energy Corporation
- Japan Defense Agency – Regional Defense Bureau
- Kanagawa University
- Kyoto University
- Meiji Co., Ltd.
- Mitsubishi Gas Chemical Company Inc.
- Petronias Nasional Berhad (PETRONAS)
- Qatar Gas operating company limited
- Ras Laffan Liquefied Natural Gas Co., Ltd. (RasGas)
- Petro Rabigh (Rabigh Refining and Petrochemical Company)
- Royal Dutch Shell plc
- Sakhalin Energy Investment Co., Ltd.
- Takeda Pharmaceutical Company Limited
- The University of Tokyo
- Tokyo Denki University
- TonenGeneral Sekiyu K. K
- Toshiba Corporation
- Toray Fine Chemicals Co., Ltd.

and more...
Enclosed Emergency Showers and Eyewashes

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Booth</th>
<th>Door</th>
<th>Drain Pan</th>
<th>Over</th>
<th>Alert Signal</th>
<th>Shower Head</th>
<th>Eyewash Bowl</th>
<th>Eyewash Spray Heads</th>
<th>Curtain</th>
<th>Foot Pedal</th>
<th>Page</th>
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<tr>
<td>808-D</td>
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Emergency Showers and Eyewashes

<table>
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<th>Shower Head</th>
<th>Man-Yoking</th>
<th>Eyewash Bowl</th>
<th>Eyewash Spray Heads</th>
<th>Curtain</th>
<th>Foot Pedal</th>
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<td>502-50HFC,DC</td>
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<td>502-50HFC-FS/C</td>
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Emergency Eyewashes

<table>
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<tr>
<th>Model No.</th>
<th>Man-Yoking</th>
<th>Eye-Wash Bowls</th>
<th>Eyewash Spray Heads</th>
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<tbody>
<tr>
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<td>450-40HFC-FS</td>
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Laboratory Use-Emergency Showers and Eyewashes

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Water Supply Location</th>
<th>Water Intake Supply</th>
<th>Pressure</th>
<th>Temperature</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>402-S Type A</td>
<td>179×230×260mm</td>
<td>2kg</td>
<td>Vertical (insert connection)</td>
<td>PT 1/2 (15A)</td>
<td>0.2-0.6MPaG</td>
<td>16-38°C</td>
<td>13</td>
</tr>
<tr>
<td>402-S Type B</td>
<td>179×230×260mm</td>
<td>2kg</td>
<td>Vertical (insert connection)</td>
<td>PT 1/2 (15A)</td>
<td>0.2-0.6MPaG</td>
<td>16-38°C</td>
<td>13</td>
</tr>
<tr>
<td>530-5</td>
<td>550×250×250mm</td>
<td>5kg</td>
<td>Side</td>
<td>PT 1 (25A)</td>
<td>0.2-0.6MPaG</td>
<td>16-38°C</td>
<td>14</td>
</tr>
<tr>
<td>530-SV</td>
<td>550×250×250mm</td>
<td>4kg</td>
<td>Above</td>
<td>PT 1 (25A)</td>
<td>0.2-0.6MPaG</td>
<td>16-38°C</td>
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Portable Decontamination Shower

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Weight</th>
<th>Water Flow</th>
<th>Water Flow</th>
<th>Temperature</th>
<th>Materials</th>
<th>Sprays</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>110×96×210cm</td>
<td>10kg</td>
<td>Above 15 L/min</td>
<td>Above 0.2 MPa</td>
<td>16-38°C</td>
<td>PVC, PUR, Stainless Steel</td>
<td>TopX1 SideX4</td>
<td>15-16</td>
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Accessories

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Product Name</th>
<th>Page</th>
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<tbody>
<tr>
<td>540-5</td>
<td>Shower Head (SUS304)</td>
<td>17</td>
</tr>
<tr>
<td>540-3</td>
<td>ABS Shower Head</td>
<td>17</td>
</tr>
<tr>
<td>540-1</td>
<td>Ball Valve for Shower</td>
<td>17</td>
</tr>
<tr>
<td>450-1</td>
<td>Ball Valve with push plate (Foot Pedal)</td>
<td>17</td>
</tr>
<tr>
<td>450-2</td>
<td>Ball Valve with push plate (Push Plate)</td>
<td>17</td>
</tr>
<tr>
<td>303-1</td>
<td>Yellow ABS Bowl</td>
<td>17</td>
</tr>
<tr>
<td>400-3</td>
<td>Stainless Steel Bowl (SUS304)</td>
<td>17</td>
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<tr>
<td>500-7</td>
<td>Pull Rod</td>
<td>17</td>
</tr>
<tr>
<td>400-6</td>
<td>Parts for foot pedal (SUS304)</td>
<td>17</td>
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<tr>
<td>750</td>
<td>Signboard</td>
<td>17</td>
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Optional Extras

<table>
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<th>Product Name</th>
<th>Page</th>
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<tbody>
<tr>
<td>Information Sticker</td>
<td>8</td>
</tr>
<tr>
<td>Pictorial Emergency Signs</td>
<td>14</td>
</tr>
<tr>
<td>Stripe Marking Sticker</td>
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