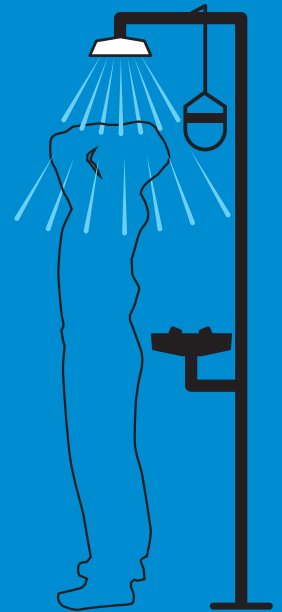




Emergency Shower Eyewash



**NIPPON
ENCON**

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

SW/O Handwasher

F Freeze Protection

FW Flow Switch

HFC Foot Pedal

DC Dust Cover

C Curtain

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.

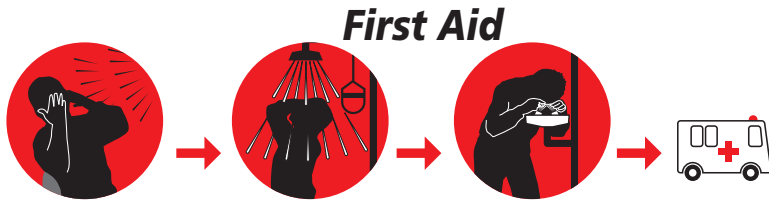
4. We use materials that comply with end users specifications

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.



Nippon Encon Emergency Showers & Eyewashes comply with the ANSI Z358.1 Standard



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.

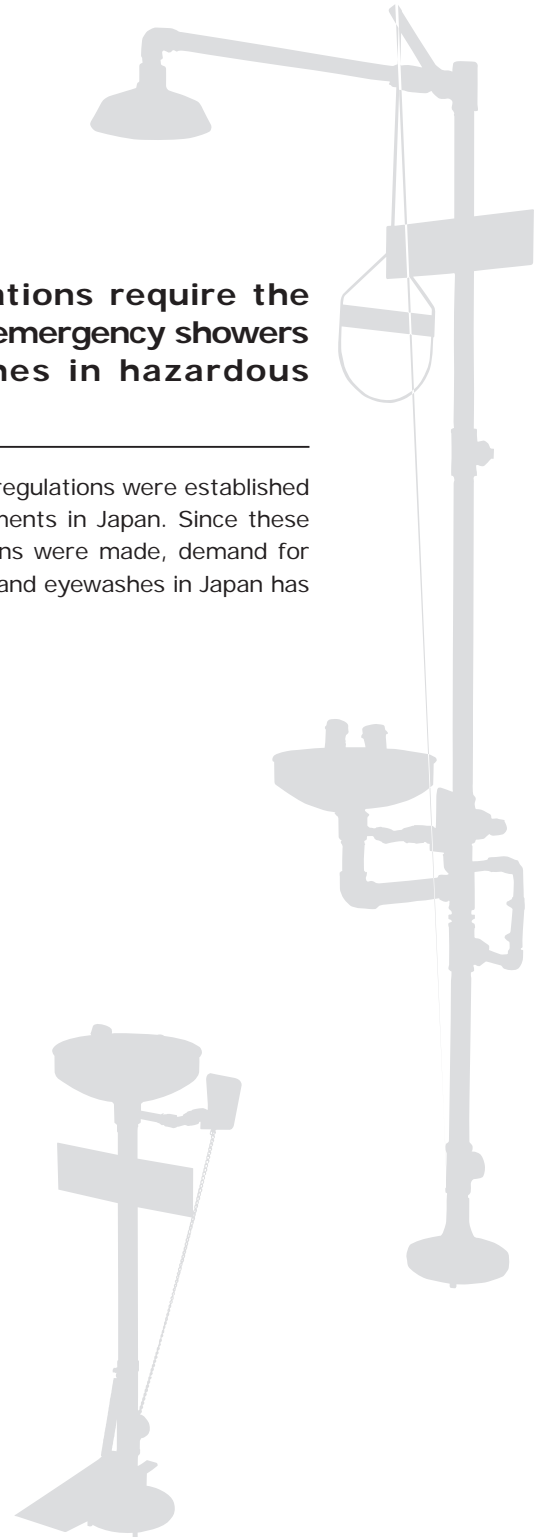
It is important for emergency shower and eyewashes to comply with the ANSI Z358.1 standard.

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

Safety regulations require the installation of emergency showers and eyewashes in hazardous environments.

In 1972, new safety regulations were established for working environments in Japan. Since these new safety regulations were made, demand for emergency showers and eyewashes in Japan has greatly increased.

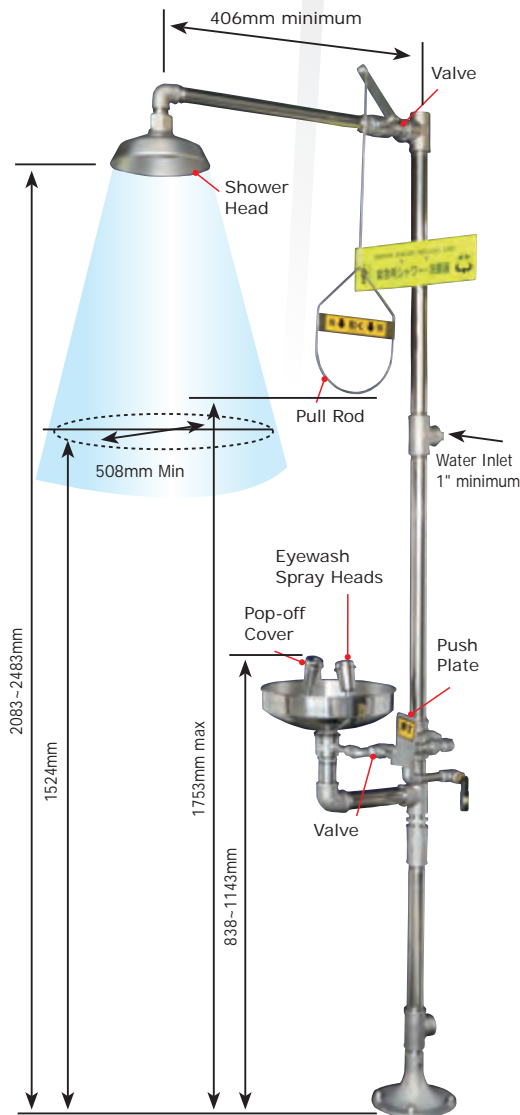


Performance requirements for Emergency Showers are as follows:

- Water Supply Line: more than 1" (25A)
- Flushing Fluid: 75.7 L/min. minimum
- Operating pressure : $0.2 \leq 0.55$ 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 : $0.2 \leq 0.55$ 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 $1.5 \pm 1.2^\circ\text{C}$. 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 $3.5 \pm 1.2^\circ\text{C}$. When the water temperature is within $3.5 \pm 1.2^\circ\text{C}$, the valve will close.

• Weep Valve

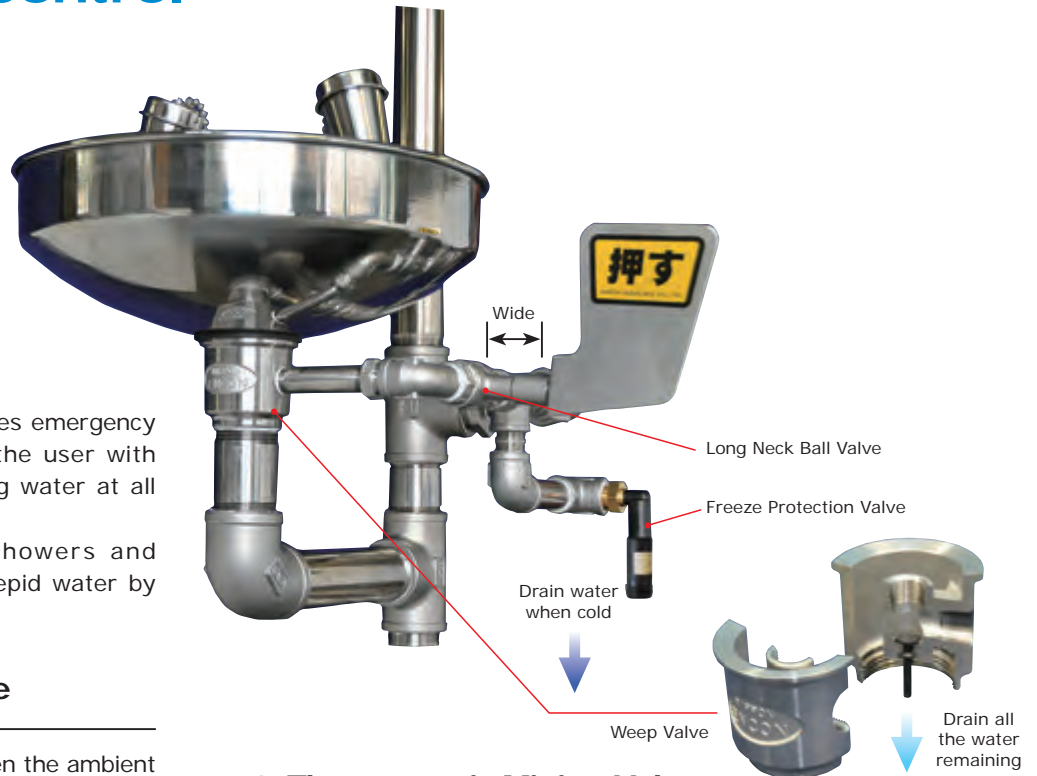
The weep valve is normally open. It closes when the eyewash is in use. It helps to drain away water from the eyewash and prevent freezing. The weep valve is implemented in the base drain of our latest models.

• 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

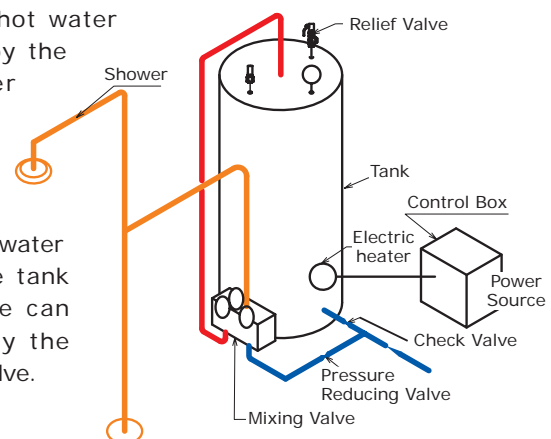
Cold Water Supply Pressure:
0.45 MPaG

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

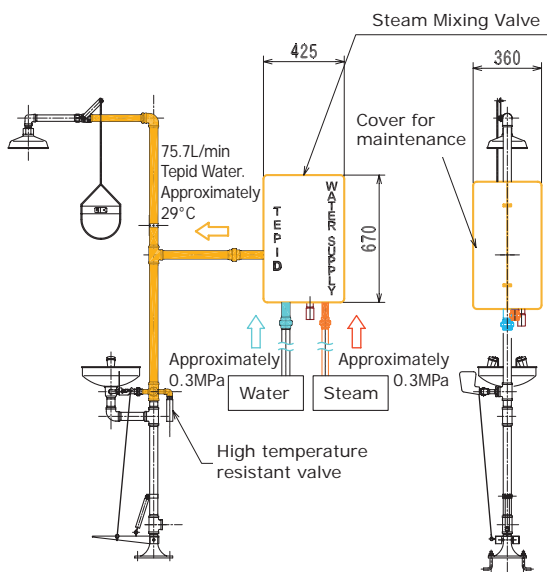
Connection: 1-1/4"

Alarm System

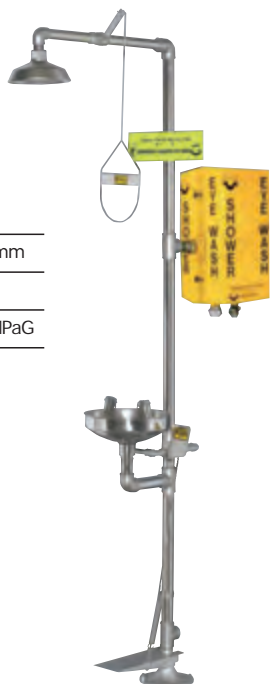
2. Steam Mixing Valve

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.



Dimensions: 425×360×670mm
 Steam Pressure: 0.3MPaG
 Water Supply Pressure: 0.3MPaG



Model No.

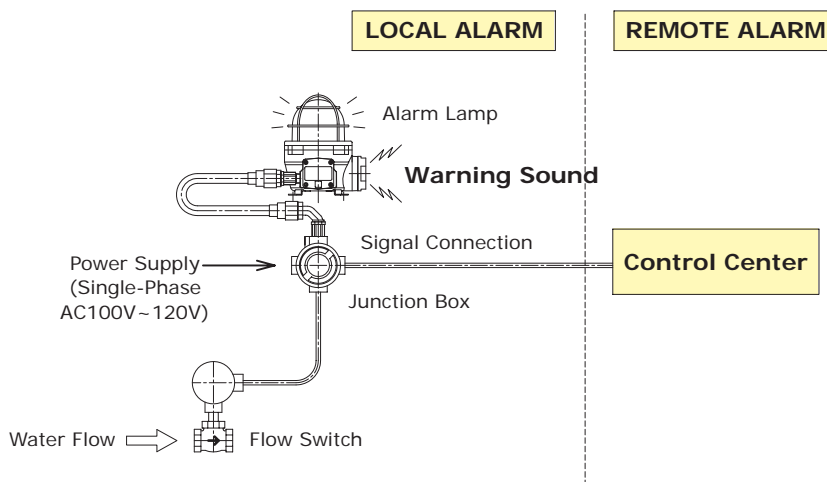
502-50FS.EP.FLW/AL

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 502-50FS.FLW/AL (non explosion proof alarm system) is also available.
 * Alarm operation using flow switches is interchangeable with limit switches.

Enclosed Emergency Showers & Eyewashes

Model No. **808-D**

Standard Type



Booth

SUS 304
Stainless Steel

Door

Inward
Opening Door

Drain Pan

Stainless Steel
Open socket type

Water Inlet

Stainless Steel

Shower Head

SCS 14(SUS316)
Stainless Steel

Eyewash Bowl

SUS 304
Stainless Steel

Eyewash Spray Heads

SCS 14(SUS316)
Stainless Steel

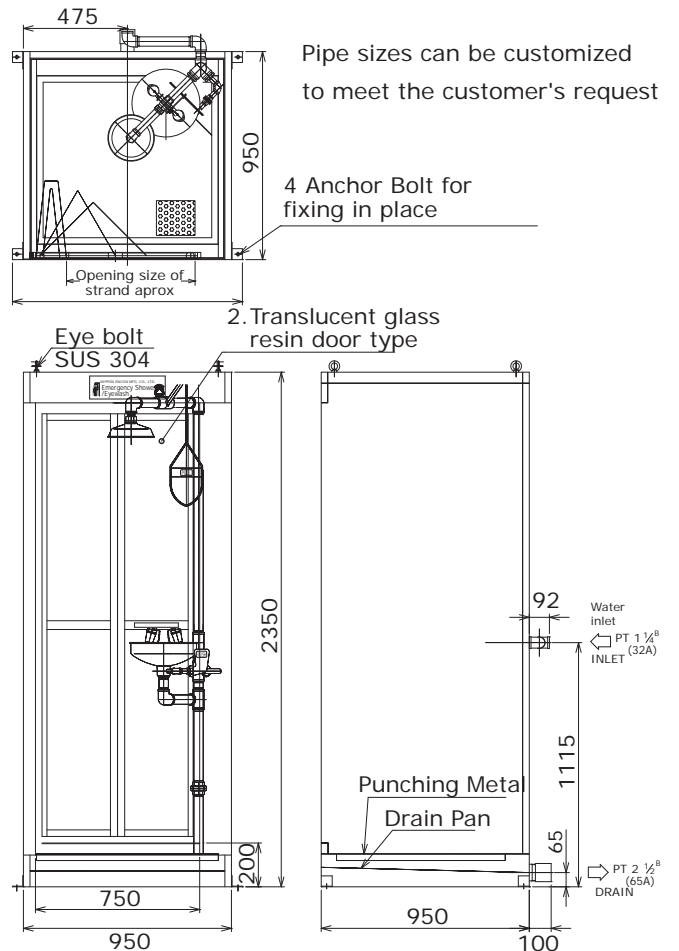
FEATURES

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)

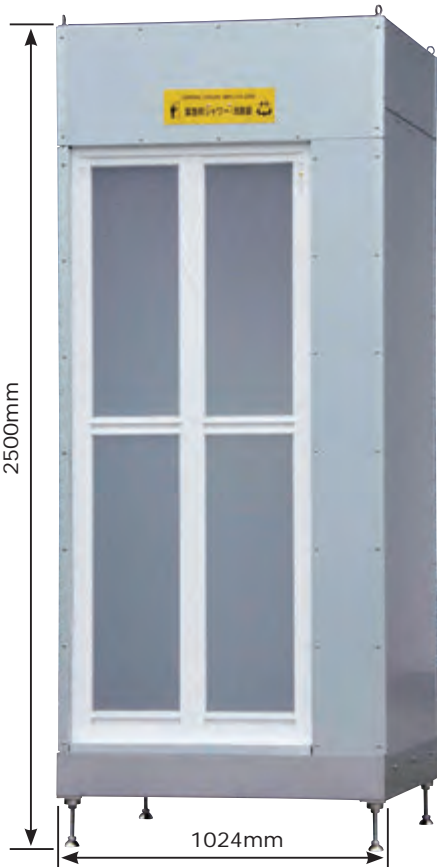


Model No.

805-D

* Aluminium Type
Same features as 808-D

Booth Aluminium paneling Aluminium frame	Drain Pan Stainless steel Open socket type	Door Inward Opening Door
Water Inlet SUS304 Stainless steel	Shower Head ABS Plastic	Eye/Facewash Spray Heads ABS Plastic



Optional Extras

Decoration Information Sticker	Curtain Fire Retardant Polyester
Door Swing Door	Eyewash Bowl SUS304 Stainless Steel
Shower Head SCS 14 (SUS 316) Stainless Steel	Eyewash Bowl ABS Plastic
Eyewash Spray Heads SUS304 Stainless steel	



Information Stickers (Optional)

Information Stickers make the shower units more recognizable.



Specifications

Model No.	808-D	805-D	801-FS
Dimensions	2350×950×950mm	2500×1024×1024mm	2595×1000×1000mm
Weight	200 kg	160 kg	120 kg
Water Inlet Supply	PT 1-1/4 (32A)	PT 1 (25A)	PT 1-1/4 (32A)
Drainage Outlet	PT 2-1/2 (65A)	VU50	PT 2-1/2 (65A)
Operating Pressure	0.2~0.6 MPaG	0.2~0.6 MPaG	0.2~0.6 MPaG
Operating Temperature	16~38°C	16~38°C	16~38°C

Model No.

801-FS

* Curtain Type
Recommended for work areas
with limited space.

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 Bowl SUS304 Stainless Steel
Eyewash Spray Heads SUS304 Stainless steel		



Model No.

801HFC-FS

Foot pedal
included

Foot Pedal SUS304 Stainless steel
--

Emergency Showers & Eyewashes

FEATURES

Shower Head

SCS 14(SUS316)
Stainless steel

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

Water Inlet

SUS 304
Stainless steel

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

DC

Dust Cover

SUS 304
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.



SW/O

Hand Washer

Gargle/Hand Washer
basin is included

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



HFC

Foot Pedal

Foot pedal, Chain & spring
Stainless steel

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

Shower Head

SCS 14 (SUS 316)
Stainless Steel

Water Inlet

SUS 304
Stainless Steel

Eyewash Bowl

SUS 304
Stainless Steel

Foot Pedal

SUS 304
Stainless Steel

Eyewash Spray Heads

SUS 304
Stainless Steel

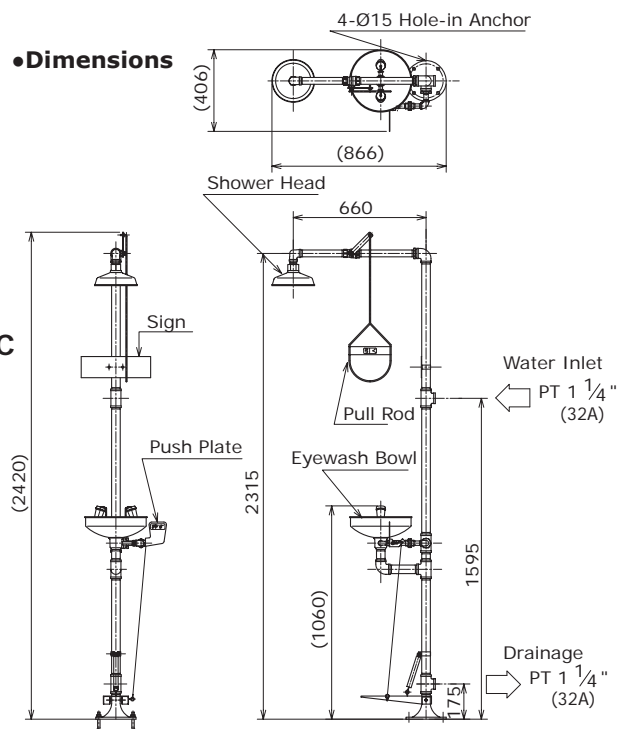
Foot Pedal Included

502-50HFC

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



Model No.
502-50

Eye/Face wash Included
Spray Heads made from ABS Plastic.

- Shower Head**
SCS 14 (SUS 316)
Stainless Steel
- Eyewash Bowl**
SUS304
Stainless Steel
- Eye/Face wash Spray Heads**
ABS Plastic
- Water Inlet**
SUS304
Stainless Steel

502-50HFC
Foot pedal optional

- Foot Pedal**
SUS304
Stainless Steel



Model No.
502-07

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

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

502-07HFC
Foot pedal Included

- Foot Pedal**
SUS304
Stainless Steel



Model No.
502-50FS SW/O

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

- Shower Head**
SCS 14 (SUS 316)
Stainless Steel
- Eyewash Bowl**
SUS304
Stainless Steel
- Eyewash Spray Heads**
SUS304
Stainless Steel
- Water Inlet**
SUS304
Stainless Steel

502-50FS-HFC SW/O
Foot Pedal Included

- Foot Pedal**
SUS304
Stainless Steel



Model No.
502-50FS.DC

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

- Shower Head**
SCS 14 (SUS 316)
Stainless Steel
- Eyewash Bowl**
SUS304
Stainless Steel
- Eyewash Spray Heads**
SUS304
Stainless Steel
- Water Inlet**
SUS304
Stainless Steel
- Dust Cover**
SUS304
Stainless Steel

Foot Pedal Included
502-50HFC-FS.DC

- Foot Pedal**
SUS304
Stainless Steel



Model No.
502-52FS.F

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

- Shower Head**
SCS 14 (SUS 316)
Stainless Steel
- Eyewash Bowl**
SUS304
Stainless Steel
- Eyewash Spray Heads**
SUS304
Stainless Steel
- Water Inlet**
SUS304
Stainless Steel
- Heat Protection**
Long Neck Ball valve
- Freeze Protection**
Freeze Protection Valve

Foot Pedal Included
502-52FS.F-HFC

- Foot Pedal**
SUS304
Stainless Steel



Model No.
502-50FS/C

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

- Shower Head**
SCS 14 (SUS 316)
Stainless Steel
- Eyewash Bowl**
SUS304
Stainless Steel
- Eyewash Spray Heads**
SUS304
Stainless Steel
- Water Inlet**
SUS304
Stainless Steel

Foot Pedal Included
502-50HFC-FS/C

- Foot Pedal**
SUS304
Stainless Steel



• **Specifications**

Model No.	502-50FS	502-50	502-07	502-50FS SW/O	502-50FS.DC	502-52FS.F	502-50FS/C
Height	2420mm	2420mm	2420mm	2420mm	2420mm	2420mm	2420mmxφ950mm
Weight	23 kg	23 kg	21 kg	27 kg	27 kg	25 kg	65 kg
Water Supply Inlet	PT 1-1/4 (32A)	PT 1-1/4 (32A)	PT 1-1/4 (32A)	PT 1-1/4 (32A)	PT 1-1/4 (32A)	PT 1-1/4 (32A)	PT 1-1/4 (32A)
Operating Pressure	0.2~0.6 MPaG	0.2~0.6 MPaG	0.2~0.6 MPaG	0.2~0.6 MPaG	0.2~0.6 MPaG	0.2~0.6 MPaG	0.2~0.6 MPaG
Operating Temperature	16~38°C	16~38°C	16~38°C	16~38°C	16~38°C	16~38°C	16~38°C

Emergency Eyewashes

FEATURES



Eyewash Bowl

SUS304
Stainless Steel

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

FS

Eyewash Spray Heads

SUS304
Stainless Steel



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.

Eye/Face wash Spray Heads

ABS Plastic



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.

HFC

Foot Pedal

SUS304
Stainless Steel

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

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

Eyewash Bowl

SUS304
Stainless Steel

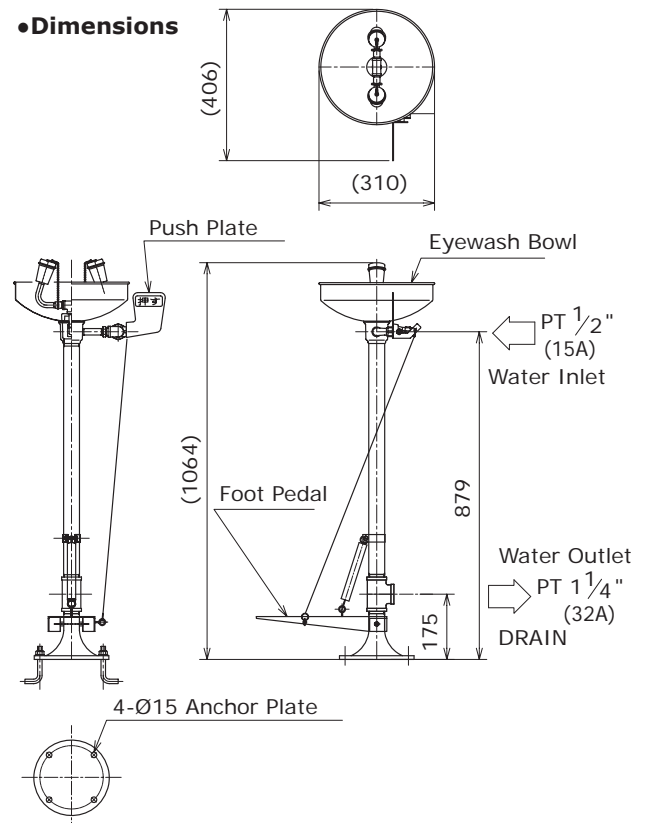
Eyewash Spray Heads

SUS304
Stainless Steel

Water Inlet

SUS304
Stainless Steel

•Dimensions



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

Model No.
303-40

Eye/Face wash with ABS Plastic Spray Heads



Eyewash Bowl
ABS Plastic

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.



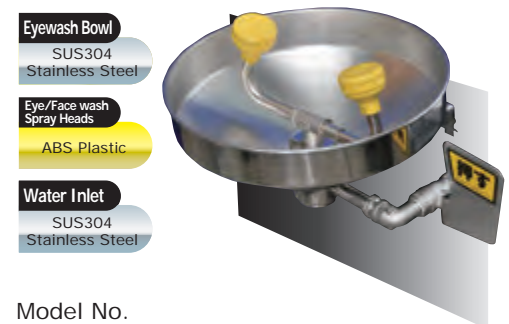
Eyewash Bowl
SUS304
Stainless Steel

Eyewash Spray Heads
SUS304
Stainless Steel

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.
401FS

Wall Mounted Eyewash W/O Eyewash Bowl
All parts made from stainless steel.
Recommended for work areas with limited space.



Eyewash Spray Heads
SUS304
Stainless Steel

Water Inlet
SUS304
Stainless Steel

Model No.
401

Wall Mounted Eyewash W/O Eyewash Bowl
Eye/Face wash with ABS Plastic Spray Heads

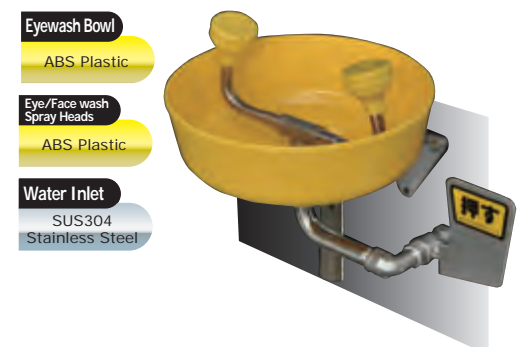


Eye/Face wash Spray Heads
ABS Plastic

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
ABS Plastic

Eye/Face wash Spray Heads
ABS Plastic

Water Inlet
SUS304
Stainless Steel

•Specifications

Model No.	450-40FS	450-40	303-40	450FS	450	304	401FS	401
Height	1074 mm	1049 mm	1003 mm	230 mm	203 mm	290 mm	216 mm	190 mm
Weight	8.5 kg	8.5 kg	7 kg	6 kg	5.5 kg	5 kg	1.7 kg	1.5 kg
Water Inlet	PT1/2 (15A)	PT1/2 (15A)	PT1/2 (15A)	PT1/2 (15A)	PT1/2 (15A)	PT1/2 (15A)	PT1/2 (15A)	PT1/2 (15A)
Water Outlet	PT 1-1/4(32A)	PT 1-1/4(32A)	PT 1-1/4(32A)	PT 1-1/4(32A)	PT 1-1/4(32A)	1B(25A)	-	-
Operating Pressure	0.2~0.6MPaG	0.2~0.6MPaG	0.2~0.6MPaG	0.2~0.6MPaG	0.2~0.6MPaG	0.2~0.6MPaG	0.2~0.6MPaG	0.2~0.6MPaG
Operating Temperature	16~38°C	16~38°C	16~38°C	16~38°C	16~38°C	16~38°C	16~38°C	16~38°C

Laboratory Use-Emergency Showers & Eyewashes

Model No.

402-S Type A



Rotatable Eyewashes

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.

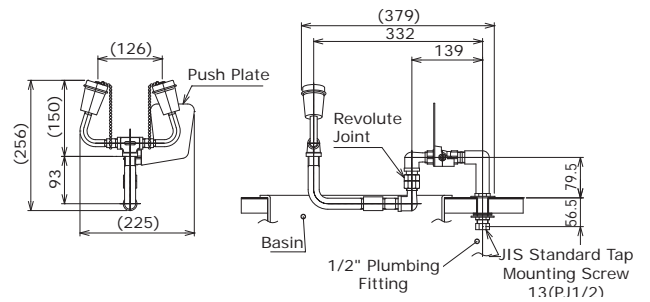


Model No.

402-S Type B



•Dimensions



•Specifications

Model No.	402-S Type A	402-S Type B
Water Supply Location	Vertical(insert connection)	Horizontal(insert connection)
Dimensions	379x225x256mm	379x225x256mm
Weight	2 kg	2 kg
Water Inlet Supply	PT 1/2 (15A)	PT 1/2 (15A)
Operating Pressure	0.2~0.6 MPaG	0.2~0.6 MPaG
Temperature Range	16~38°C	16~38°C

Laboratory Use-Emergency Showers & Eyewashes

Optional Extras

Model No. **530-5**

Wall Mounted Shower with Lateral Water Supply



Model No. **530-5V**

Ceiling Mounted Shower with Vertical Water Supply

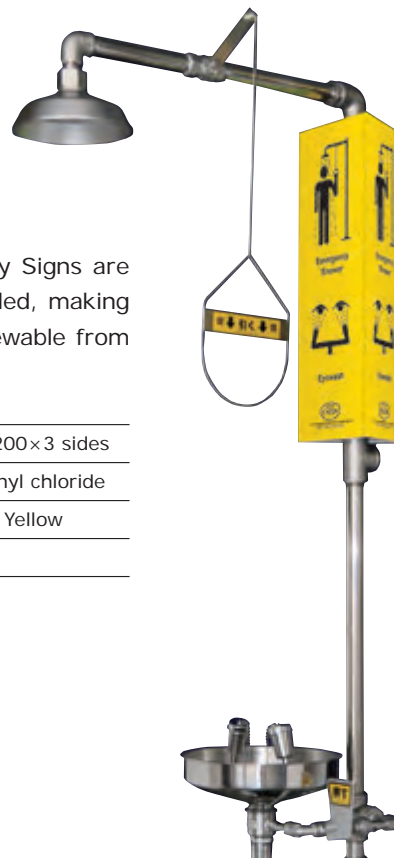


•Specifications

Model No.	530-5	530-5V
Dimensions	500×250×250mm	500×250×250mm
Weight	5kg	4kg
Water Inlet Supply	PT 1(25A)	PT 1(25A)
Water Inlet Location	Side	Above
Operating Pressure	0.2~0.6MPaG	0.2~0.6MPaG
Temperature Range	16~38°C	16~38°C

Pictorial Emergency Signs

Available Upon Request



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

Dimensions	600×200×3 sides
Material Quality	polyvinyl chloride
Colour	Bright Yellow
Weight	2 kg



Reflective Pipe Stickers

Water Inlet Supply	1-1/4B
Material	Polyester
Colour	White/Green

Portable Decontamination Shower

Consists of multiple spray heads.
Easy to carry and assemble.

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

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

COMPACT DESIGN

-Easy to carry and assemble



• Optional Extras : Shower Cover, Drainage pool, Drainage pipes, Tank



FEATURES

Portable and Space-Saving

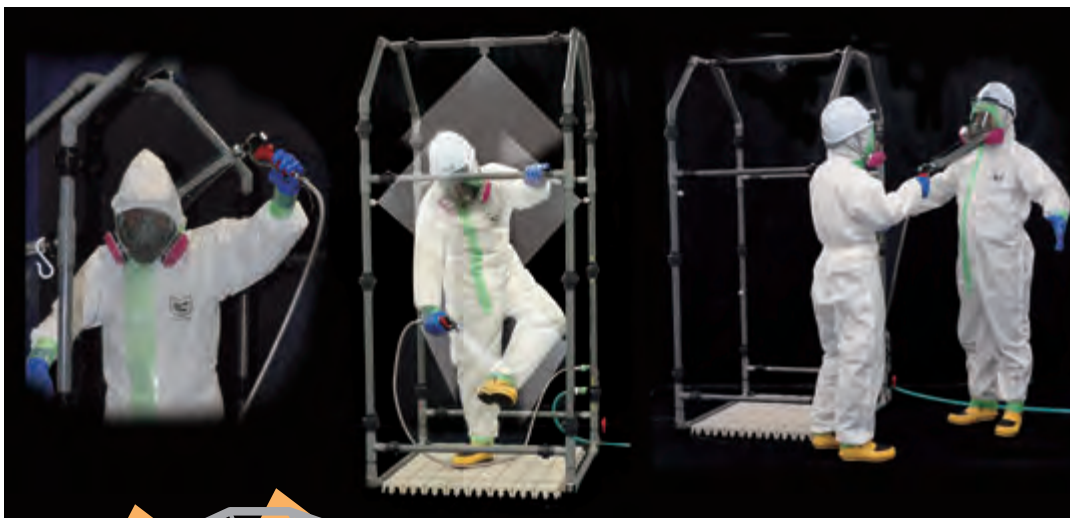
The shower can be easily disassembled and stored in the provided bag, therefore reducing storage space. The bag has straps on both ends of the bag, which makes it easy for two people to carry.

Easy Assembly

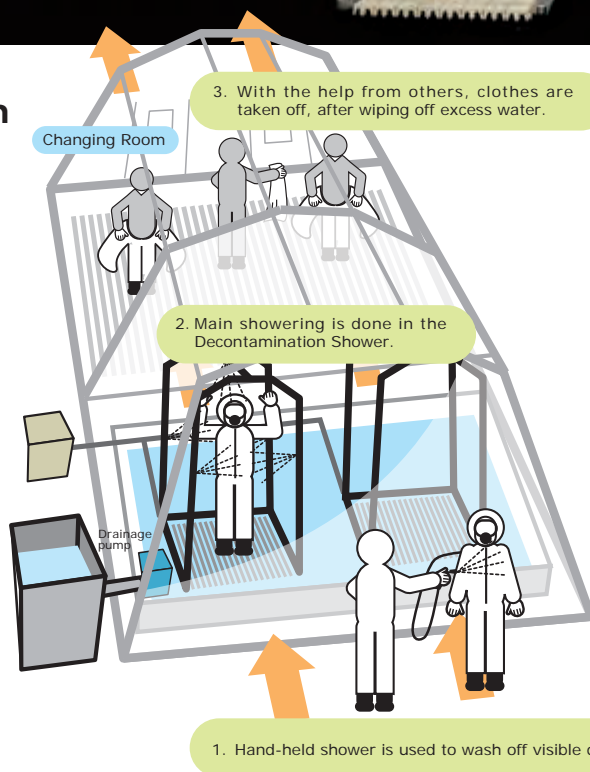
Easily assembled without tools, using an easy to follow number sequence system.



Decontamination Shower



Decontamination Process



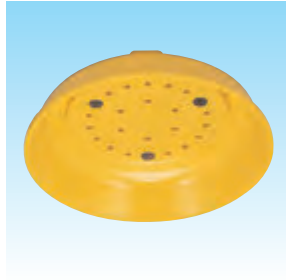
Wiping off excess water before removing clothes.



Accessories



Model No. **540-5**
Shower Head (SUS304)



Model No. **540-3**
ABS Shower Head



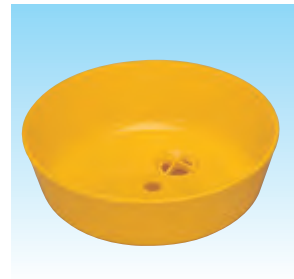
Model No. **540-1**
1-1/4"/1" Ball Valve for Shower
(SUS304 valve arm incl.)



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



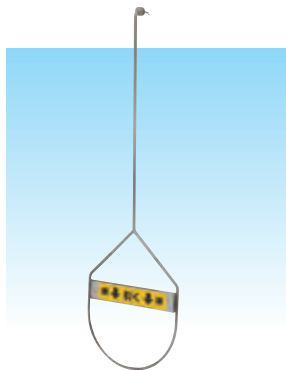
Model No. **400-2**
1/2" Ball Valve with push plate
(Push Plate use)



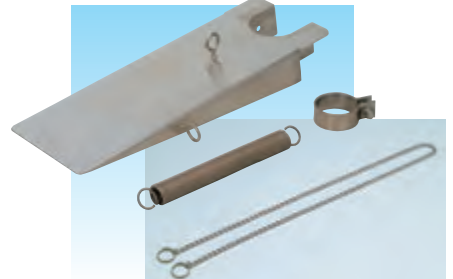
Model No. **303-1**
Yellow ABS Bowl



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)



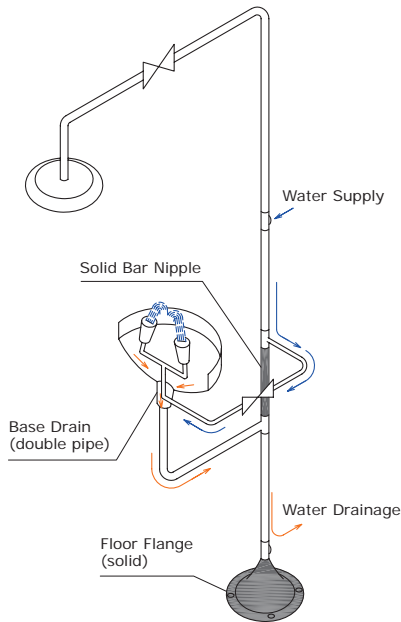
Model No. **700**
Signboard

When using our Safety Shower & Eyewashes...

• 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.

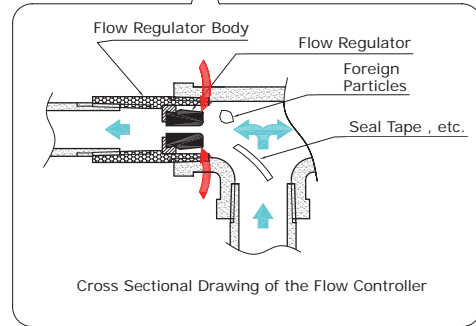
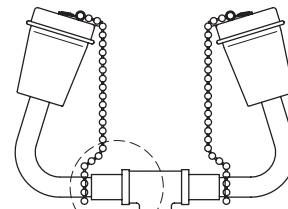
This check is done by running flowing water through the pipes.

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.

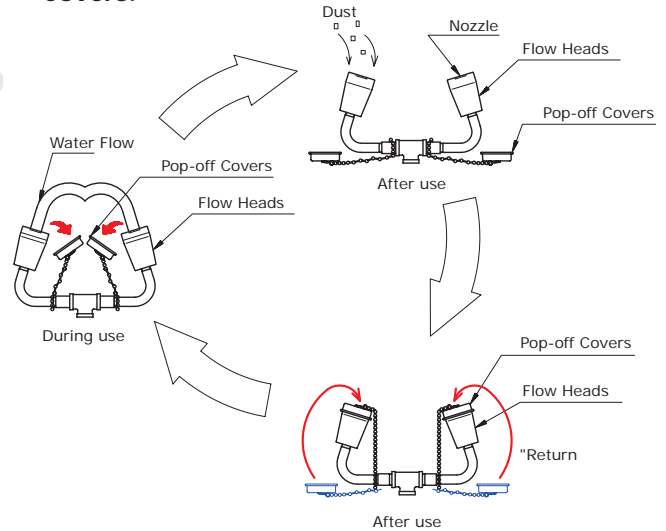
* After the flow regulator is inserted in the Eyewash pipes, the inner diameter of the pipes is only a few millimetres wide. This makes this area susceptible to blockages.

Eyewash Spray Head Assembly



• 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.



11. Dispatch

After final quality control checks are complete, equipment is dispatched to customers.



10. Packing

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



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.
Mitsubishi Heavy Industries Ltd.
Mitsui Engineering and Shipbuilding Co., Ltd.
M.W. KELLOGG Limited
Sanki Corporation
Samsung Engineering Co., Ltd.
Sime Darby Engineering Sdn.Bhd.
Sumitomi Chemical Engineering Co., Ltd.
Técnicas Reunidas, S.A.
Toyo Engineering Corporation

Piping Engineering Companies

Kobelco Eco-Solutions Co., Ltd.
Kurita Water Industries Ltd.
Sanken Setsubi Kogyo Co., Ltd.
Takasago Thermal Engineering Co., Ltd.
Taisei-setsubi Co., Ltd.
Taikisha Ltd.

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.
Petroliam Nasional Berhad (PETRONAS)
Qatargas 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...

REFERENCE

● Stainless Steel ● ABS Plastic *Please refer to the key on the content page

Enclosed Emergency Showers and Eyewashes

Model No.	Booth	Drain Pan	Door	Main Piping	Shower Head	Eyewash Bowl	Eyewash Spray Heads	Eye/Face Wash Spray Heads	Curtain	Foot Pedal	Page
808-D	●	●	●	●	●	●	●				7
805-D	●	●	●	●	●	●	●				8
801-FS		●		●	●	●			●		8
801HFC-FS		●		●	●	●			●	●	8

Emergency Showers and Eyewashes

Model No.	Shower Head	Main Piping	Eyewash Bowl	Eyewash Spray Heads	Eye/Face Wash Spray Heads	Handwasher	Dust Cover	Foot Pedal	Curtain	Heat Protection	Freeze Protection	Page
502-50FS	●	●	●	●								9
502-50HFC-FS	●	●	●	●			●					9
502-50	●	●	●		●							10
502-50HFC	●	●	●		●		●					10
502-50FS.DC	●	●	●	●		●						10
502-50HFC-FS.DC	●	●	●	●		●	●					10
502-07	●	●	●		●							10
502-07HFC	●	●	●		●		●					10
502-52FS.F	●	●	●	●						●		10
502-52FS.F-HFC	●	●	●	●			●			●		10
502-50FS SW/O	●	●	●	●		●						10
502-50FS-HFC SW/O	●	●	●	●		●	●					10
502-50FS/C	●	●	●	●				●				10
502-50HFC-FS/C	●	●	●	●			●	●				10
502-50FS.FLW/AL	●	●	●	●		*With Standard Alarm System, Flow Switch (Limit Switch)					6	
502-50FS.EP.FLW/AL	●	●	●	●		*With Explosion-Proof Alarm System, Flow Switch (Limit Switch)					6	

Emergency Eyewashes

Model No.	Main Piping	Eyewash Bowl	Eyewash Spray Heads	Eye/Face Wash Spray Heads	Foot Pedal	Page
450-40FS	●	●	●			11
450-40HFC-FS	●	●	●		●	11
450-40	●	●		●		12
450-40HFC	●	●		●	●	12
303-40	●	●		●		12
303-40HFC	●	●		●	●	12
450FS	●	●	●			12
450	●	●		●		12
304	●	●		●		12
401FS	●	●	●			12
401	●			●		12

Laboratory Use-Emergency Showers and Eyewashes

Model No.	Dimensions	Weight	Water Supply Location	Water Inlet Supply	Pressure	Temperature	Page
402-S Type A	379×225×256mm	2kg	Vertical (insert connection)	PT 1/2 (15A)	0.2-0.6MPaG	16-38°C	13
402-S Type B	379×225×256mm	2kg	Horizontal (insert connection)	PT 1/2 (15A)	0.2-0.6MPaG	16-38°C	13
530-5	500×250×250mm	5kg	Side	PT 1 (25A)	0.2-0.6MPaG	16-38°C	14
530-5V	500×250×250mm	4kg	Above	PT 1 (25A)	0.2-0.6MPaG	16-38°C	14

Portable Decontamination Shower

Dimensions	Weight	Water Flow	Water Flow	Temperature	Materials	Sprays	Page
110×96×210cm	10kg	Above 15 L/min	Above 0.2 MPaG	16-38°C	PVC ; POM ; Stainless Steel	TopX1 SidesX4	15-16

Accessories

Model No.	Product Name	Page
540-5	Shower Head (SUS304)	17
540-3	ABS Shower Head	17
540-1	Ball Valve for Shower	17
400-1	Ball Valve with push plate (Foot Pedal use)	17
400-2	Ball Valve with push plate (Push Plate use)	17
303-1	Yellow ABS Bowl	17
400-3	Stainless Steel Bowl (SUS304)	17
500-7	Pull Rod	17
400-6	Parts for foot pedal (SUS304)	17
700	Signboard	17

Optional Extras

Product Name	Page
Information Sticker	8
Pictorial Emergency Signs	14
Stripe Marking Sticker	14

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