INSTALLATION, OPERATION & MAINTENANCE

Indoor Safety Showers & Eye/Face Washes

Pedestal, wall-mounted and combination units



Products covered by this manual	
SS 1 Series	Safety shower, pull handle
SS 10 Series	Safety shower, foot treadle
SS 100 Series	Self-draining safety shower
SS 50 Series	Wall-mounted eye/face wash
SS 55 Series	Pedestal eye/face wash
SS 200 Series	Safety shower & eyewash
SS 250 Series	Wall safety shower & eyewash

Keep this manual with the equipment and make it available to the people who install, use and maintain it.

Sava Safety Showers FZ-LLC

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1 Before you start

Emergency showers and eye/face washes are the first line of response when a person is splashed with a hazardous substance. They only work if they are in the right place, connected to a reliable water supply and tested regularly. Read this manual in full before installing the equipment, and pass it on to whoever will be responsible for its upkeep.

IMPORTANT
This equipment provides first aid only. Anyone who has used a shower or eyewash after exposure to a hazardous substance must be referred for medical attention.

On delivery

- Check the packaging and the unit for transit damage before signing for the delivery. Report any damage to Sava straight away.
- Compare the contents with the delivery note. Larger units may arrive part-assembled to protect them in transit.
- Store the equipment indoors, in its packaging, until it is ready to be installed.

2 Planning the installation

Choose the location with your site safety team and, where possible, your occupational health or first aid adviser. They will know which hazards the unit has to cover and who is likely to need it. Installations should follow local regulations together with EN 15154 and ANSI/ISEA Z358.1.

Location

- Put the unit where an injured person can reach it within **10 seconds** (roughly 15 m) of the hazard, on the same floor level and without stairs, doors or ramps in the way.
- Where strong acids, alkalis or other corrosive substances are handled, install the unit right next to the hazard but outside any splash or spray zone.
- Leave a clear space around the unit so the user can step straight in and a second person can help.
- Keep water-sensitive items, especially electrical equipment and sockets, away from the spray area.

Visibility & access

- Mount the unit in a prominent position, clearly visible from the work area and never blocked by stored materials.
- Fit a safety sign to ISO 7010 (E012 safety shower, E011 eyewash) on or above the unit so it can be seen from anywhere in the hazard area.
- Keep the area well lit so the unit and its activation handle are easy to find.
- Where a foot treadle is fitted, keep the floor around it free of loose objects and debris.

Drainage & waste water

A safety shower discharges more than 1,100 litres of water during a 15-minute drench. Plan where that water will go before the unit is installed: provide a floor drain or a means of containing the water, remembering it may be contaminated. Agree a clean-up procedure for after the unit has been used.

SELF-DRAINING MODELS (SS 100 SERIES)
The riser drains automatically after each use. Make sure the drain point is kept clear and that the drained water can run away safely.

3 Installation & commissioning

Water supply

- Connect to a **potable (drinking quality) water supply**. The water should be tepid when it reaches the user, between 16 °C and 38 °C. Where the supply may be hotter or colder than this, fit a thermostatic mixing valve or a heating or cooling system.
- The supply pipe must be at least the same size as the inlet on the unit, and made of a material compatible with stainless steel to avoid galvanic corrosion.
- Check that the supply pressure is within the operating range on the technical datasheet for your model. If the mains pressure is higher, fit a pressure regulator. If it is lower, the unit may not reach its rated flow.
- Fit a non-return valve where local water regulations require one.
- Fit an isolation valve in an accessible position for maintenance. Use a lockable type, secured in the open position and labelled, so the supply cannot be turned off by mistake.

Mounting

Unit type	How to mount it
Pedestal units SS 1, SS 10, SS 55, SS 100, SS 200	Stand the unit on a firm, level floor and fix the base flange with anchor bolts suited to the floor material, using the bolt holes shown on the general arrangement drawing.
Wall-mounted units SS 50, SS 250	Fix to a solid wall able to take the weight of the unit full of water, using the flange or brackets supplied and fixings suited to the wall. Check the bowl and shower head heights against the drawing before drilling.

After fixing, check the unit is plumb and push firmly on it to make sure it is stable and cannot move during use.

Flushing & first start-up

1. Flush the supply pipework thoroughly **before** connecting the unit, to clear swarf, jointing compound and other debris.
2. Connect the unit. For the first flush, remove the shower head and the eyewash spray heads, and clean any inlet strainer.
3. Open the supply and run the unit until the water is clear, then refit the shower head and spray heads. Tighten them by hand only, as overtightening can damage the threads.
4. Complete the commissioning checks below and keep a copy with the maintenance records.

Commissioning checklist

Check	Requirement	OK
Valve opens fully	In one second or less, with a single movement	☐
Valve stays open	Water keeps flowing with the user's hands free	☐
Shower flow	At least 75.7 L/min	☐
Eye/face wash flow	At least 11.4 L/min, both streams even and gentle	☐
Water temperature	Between 16 °C and 38 °C at the outlet	☐
No leaks	All joints dry with the valve open and closed	☐
Sign and access	Sign visible, approach clear, area lit	☐

4 Operation

Everyone working in an area with chemical or other splash hazards must know where the nearest unit is and how to use it. Include the equipment in site inductions and refresher training, and walk new starters to it.

How each unit is activated

Series	Unit	Activation
SS 1	Safety shower	Pull the triangular handle down
SS 10	Safety shower	Press the foot treadle, or use the hand lever on the valve
SS 100	Self-draining safety shower	Push down the activation lever
SS 50 / SS 55	Eye/face wash	Push the handle beside the bowl
SS 200 / SS 250	Safety shower & eyewash	Shower: pull handle. Eye/face wash: push handle

Valves are designed to **stay open once activated**, so the user has both hands free. Water keeps flowing until the valve is closed by hand.

Using the safety shower

1. Step under the shower head and activate the valve.
2. Remove contaminated clothing, shoes and jewellery while under the water.
3. Keep rinsing for at least 15 minutes, or as long as the substance's safety data sheet advises.
4. Seek medical attention.

Using the eye/face wash

1. Push the handle. The dust covers lift off with the water flow.
2. Lower your face into the streams and hold your eyelids open with your fingers.
3. Roll your eyes and keep rinsing for at least 15 minutes. Remove contact lenses as soon as you can.
4. Seek medical attention.

Optional accessories

Accessory	What it does
Flow switch	Detects water flow when the unit is used and sends a signal to an alarm panel, control room or DCS. It must be wired to your site system by a qualified electrician.
Audible / visual alarm	Sounds and flashes locally when the unit is activated, so help is called straight away.
Freeze protection valve	Opens automatically to bleed water when its temperature approaches freezing, and closes again as it warms up.
Scald protection valve	Diverts water that has become too hot, for example where pipework runs through hot areas, and closes once it has cooled.
Thermostatic mixing valve	Blends hot and cold supplies to deliver tepid water within the 16–38 °C range.

For set points and wiring details, refer to the documentation supplied with each accessory.

5 Inspection & maintenance

Regular testing keeps the equipment ready for use, stops sediment and bacteria building up in standing water, and gives you the records that EN 15154 and ANSI/ISEA Z358.1 expect. Record every test and service, with the date and the name of the person who carried it out.

How often	What to do
Weekly	Activate every shower and eye/face wash. Run it until the water is clear and check that the valve opens fully, stays open and the flow looks normal. Check the sign, access and lighting.
Every 6 months	Remove and clean the shower head and eyewash spray heads. Clean any inlet strainers. Check the dust covers move freely and the bowl is clean. Replace eyewash spray heads that are worn or damaged.
Annually	Carry out a full inspection against ANSI/ISEA Z358.1: measure the flow rates, check water temperature, spray pattern and heights, and inspect fixings, joints and valves. Service or replace parts as needed.
After any work	After cleaning, repairs or work on the supply, give the unit a full operational test before putting it back into service.

Cleaning

- Wipe the outside with mild soapy water and a soft cloth. Do not use abrasives or solvents, which damage the finish and the instruction labels.
- Strainers may need cleaning more often during the first six months, while debris left from installation works its way out of the pipework.
- Have the water quality tested periodically to check for harmful bacteria, especially where water stands in long supply pipes.

Spare parts & servicing

Use genuine Sava spare parts only. For spare parts, servicing or technical advice, contact Sava with the series number of your unit.

Sensors and switches with sealed bodies cannot be repaired. Inspect their cables, and replace the part if it is damaged.

6 If a unit is out of service

Never leave a hazard area without emergency washing facilities. If a unit has to be taken out of use:

1. Fit a clear “Out of Service” notice to the unit.
2. Tell the supervisor or manager responsible for the area.
3. Stop any work that relies on the unit for protection until it is back in service.
4. If the work cannot stop, provide a portable eyewash or shower for immediate first aid, and make sure the nearest working plumbed unit is known and easy to reach.

> **NOTE**
> Portable units are a short-term measure only and do not replace a permanently plumbed unit.

7 Inspection record

Photocopy this page or keep an equivalent electronic log for each unit.

Series / model		**Location**	
Installed on		**Asset no.**	

Date	Check type	Flow OK	Temp OK	Comments / action taken	Signed

8 Warranty

Sava Safety Showers FZ-LLC warrants its products to be free from defects in materials and workmanship for **12 months from the date of invoice**.

- The warranty applies only where the product has been installed, used and maintained as described in this manual. It does not cover damage caused by misuse, accidents, unsuitable water quality or pressure, or modification of the product.
- Claims must be made in writing to Sava within the warranty period, with the invoice number and a description of the fault. Sava may ask for the product, or photographs of it, to be returned for inspection.
- Where a defect is confirmed, Sava will repair or replace the product, at its discretion, free of charge. This is Sava's sole liability under the warranty. It does not extend to indirect or consequential losses.
- The purchaser is responsible for choosing equipment suitable for the hazards on site, and for removing from service any unit that is damaged or no longer works correctly.

NEED HELP?
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