

Haws 8350FP AXION Combination Shower

Installation and operating manual



Read these instructions before starting work!

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1 Introduction

1.1 Information about these instructions

Purpose of these instructions	These operating instructions are intended to explain the proper handling - from planning to disposal - of the safety emergency shower, model Haws 8350FP AXION shower combination.
Target group	<p>These operating instructions address:</p> <ul style="list-style-type: none"> • The person who plans the installation - to ensure that the requirements are fulfilled. • Qualified plumbers carry out installation, repair, and removal of the safety emergency shower. • The safety inspector or equivalent appointed persons who are tasked to supervise industrial safety measures. • The person who is tasked to carry out the weekly functional check. <p>The potential users of the emergency shower are to be instructed in the proper handling of the emergency shower.</p>
Reading obligation	The people addressed by these operating instructions are obliged to read and understand the relevant chapters. Any uncertainties must be clarified with the supplier or manufacturer.
Storage location	These instructions are a part of the safety emergency shower. They must be provided or kept in a manner that all people who are addressed by these instructions also have immediate access to them.
Reselling	These instructions also must be handed over when you sell the safety emergency shower.
Applicable documents, regulations and provisions	<p>Besides these operating instructions, observe the information on the signs at the safety emergency shower. The local accident-prevention regulations and the general safety instructions for the area of application of the safety emergency shower must also be observed.</p> <p>Illustrations in these instructions Illustrations in these operating instructions are intended to provide a basic understanding and may differ from the actual design of the safety emergency shower.</p>
Loss of the operating instructions	Order a replacement copy immediately if you have lost these operating instructions. Contact details can be found in the imprint.

1.2 Explanation of symbols

These operating instructions use symbols to identify safety instructions. The safety instructions begin with a signal word that tells you the extent of the danger.

Observe the safety instructions in all cases and handle them with care to avoid accidents, personal injuries, and damage to equipment.



WARNING

... indicates a potentially dangerous situation that can result in fatal or serious injuries if it is not avoided.



NOTE

... indicates helpful advice and recommendations, as well as information for efficient and trouble-free operation.

1.3 Disclaimer

Information in these instructions	<p>The information and safety instructions in these operating instructions have been compiled based on the valid standards, directives and regulations, the state of the art, and the many years of experience and know-how of the manufacturer.</p> <p>Due to optionally ordered items, production of special versions, or recent technical modifications, the scope of delivery can differ from the descriptions and illustrations in this document.</p>
Delivery	In addition to the contractually agreed obligations, the General Terms and Conditions and Terms of Delivery of the manufacturer apply. These are subject to the applicable laws at the time of concluding the contract.
Technical modifications	The publication date of these operating instructions applies. The manufacturer reserves the right to make technical modifications within the scope of further development to improve the safety and functionality of the safety emergency shower.
Exclusion of liability in the case of non-compliance	<p>The manufacturer excludes any liability for damage and accidents that result from:</p> <ul style="list-style-type: none"> • using the safety emergency shower in a way that is not intended • non-compliance with the information and warnings given in these operating instructions • unqualified or unauthorized personnel working on or with the emergency equipment • installation of spare parts that are not genuine spare parts • unauthorized modifications without the written approval of the manufacturer • using unapproved operating materials

1.4 Terms of warranty

Location	The warranty terms and conditions can be found in the purchase agreement and in the manufacturer's General Terms and Conditions.
General regulations	The manufacturer will make final decisions on warranty claims following the return or return shipment of all defective components or following an on-site inspection if necessary. The replacement of defective parts does not extend the general warranty of the safety emergency shower. Modifications or major repairs by the company operating the unit or third parties that are carried out without a written agreement from the manufacturer render the warranty void.

1.5 Customer service and product monitoring

Customer service	Our customer service department is available if you need any technical information or have problems or questions you cannot resolve with these operating instructions. The contact information can be found on the internet at www.haws.ch .
Product monitoring	The manufacturer continually strives to improve product and is therefore interested in gathering information about experience made with the handling of the safety emergency shower that is beyond the normal customer service. Please let us know about any problems you experienced when handling the safety emergency shower, malfunctions during operation, and faults.

2 Safety



WARNING

Incorrect installation.

Negligent maintenance.

Obstacles and tripping hazards on the way to the emergency equipment.

Risk of fatal injury!

Danger of losing eyesight!

Danger of irreparable damage to health!

- ✓ This emergency equipment is intended to save life and eyesight:
- Never put the effectiveness of the emergency equipment at risk by improper installation.
- Check the function of the emergency equipment weekly and make sure that any malfunctions are remedied immediately.
- Ensure that the escape route to the emergency equipment is ALWAYS FREE of obstacles and tripping hazards.

Personal protective equipment

- Wear the personal protective equipment as required by the local regulations.

3 Description

3.1 Intended use

The emergency shower combination Haws 8350FP AXION is a plumbed-in emergency shower installed on industrial and logistic sites

It meets the specifications of the standards below:

- EN 15154-5:2019
- EN15154-2:2006
- ANSI/ISEA Z358.1-2014

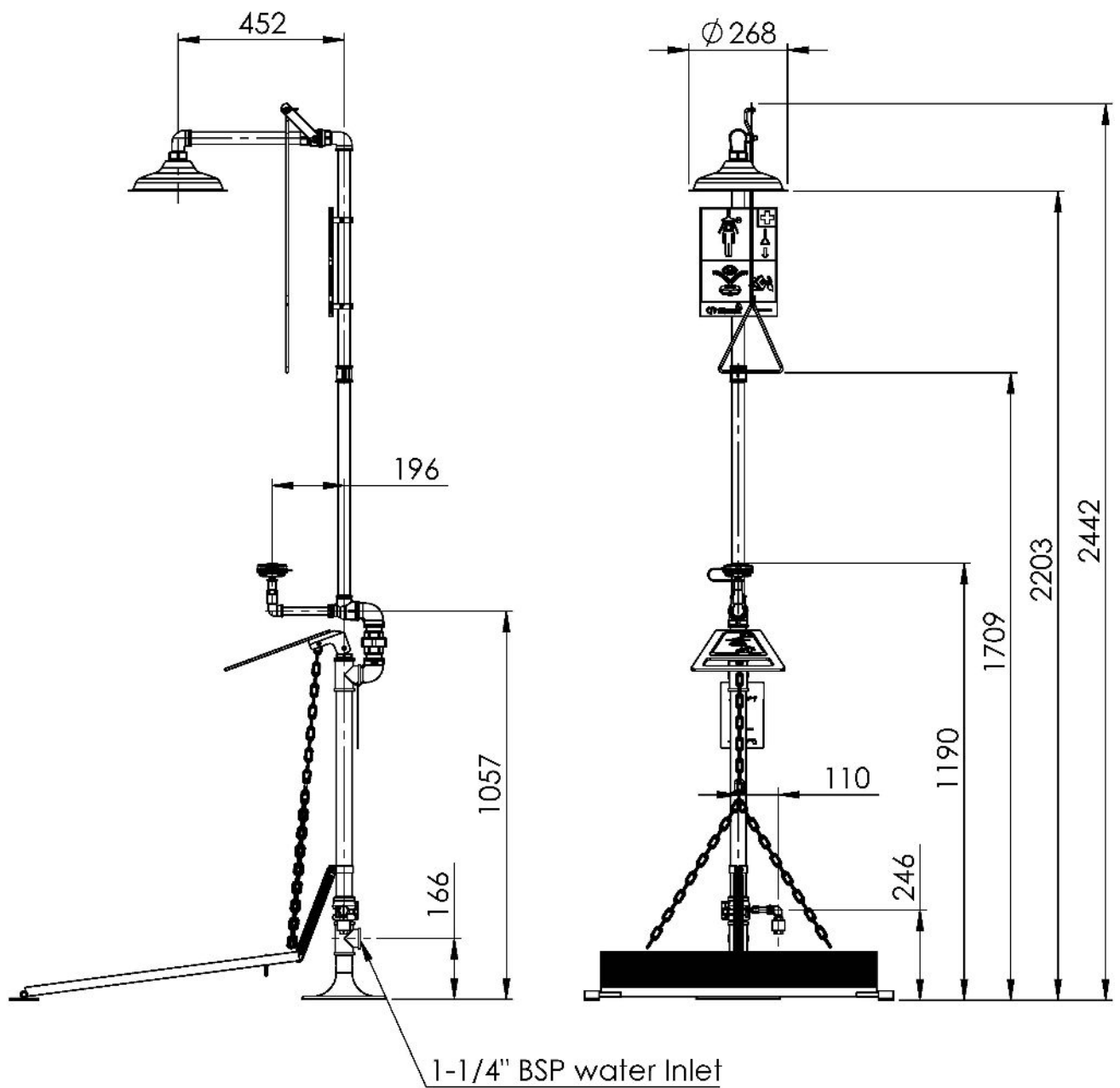
Any other use is considered as not intended.



NOTE

Intended use and standard-compliant installation of the emergency equipment include the proper installation, see chapter **Installation** including the fulfillment of the prerequisites, see chapter **Requirements** as well as regular maintenance, see chapter **Maintenance**.

3.2 Overall Dimensions



All dimensions in mm

4 Installation



NOTE

Intended use and standard-compliant construction of the emergency equipment includes the proper installation in accordance with the description below, in particular the fulfillment of the following requirements.

4.1 Requirements

4.1.1 Personnel requirements

- Qualified plumber

4.1.2 Necessary material

- Haws 8350FP AXION shower combination kit
- Valves, adapters, filters, pipes, etc. as required by the local conditions (valves with handles such that the position of the valve can be determined at a glance; not included in the scope of delivery)
- Only use suitable sealing material for the threaded connections (e.g., Teflon tape or liquid sealant). (not included in the scope of delivery)
- Hardware for anchoring the unit on the floor, as required according to the local conditions (not included in the scope of delivery)
- General sanitary tools

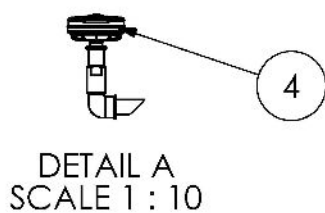
4.1.3 Place of installation

- Accessible without obstacles and at a short distance by the people who are to be protected (remember the impaired orientation and movement in an emergency!), thus:
 - must be reachable within 10 seconds
 - must be on the same level as the hazard source
 - access route free of any obstacles that could delay the immediate use,
 - well illuminated,
 - information sign referring to the emergency equipment visible from the entire area that is serviced by the emergency equipment,
 - immediately next to the hazard source if there is any danger from aggressive acids or bases.
- A circle of a radius of at least 400 mm around the drop line of the shower head must be free of obstacles. The eyewash is not considered an obstacle. The area free of obstacles around the outlets of the eyewash must be at least 150 mm. The individual components of the combination unit must be accessible.
- Water supply shall be drinking water or water of a similar quality to European or national standards. Water temperature should be held at between 15°C and 25°C (and ideally between 20°C and 25°C). If the water temperature accelerates chemical reactions, a safety inspector must be consulted to adjust the optimum temperatures for the individual applications.
- Water pipe protected against freezing.
- Floor drain
- Floor and wall protected against penetrating water, anti-slip surface of the floor.
- No electrical installations in the splash area.

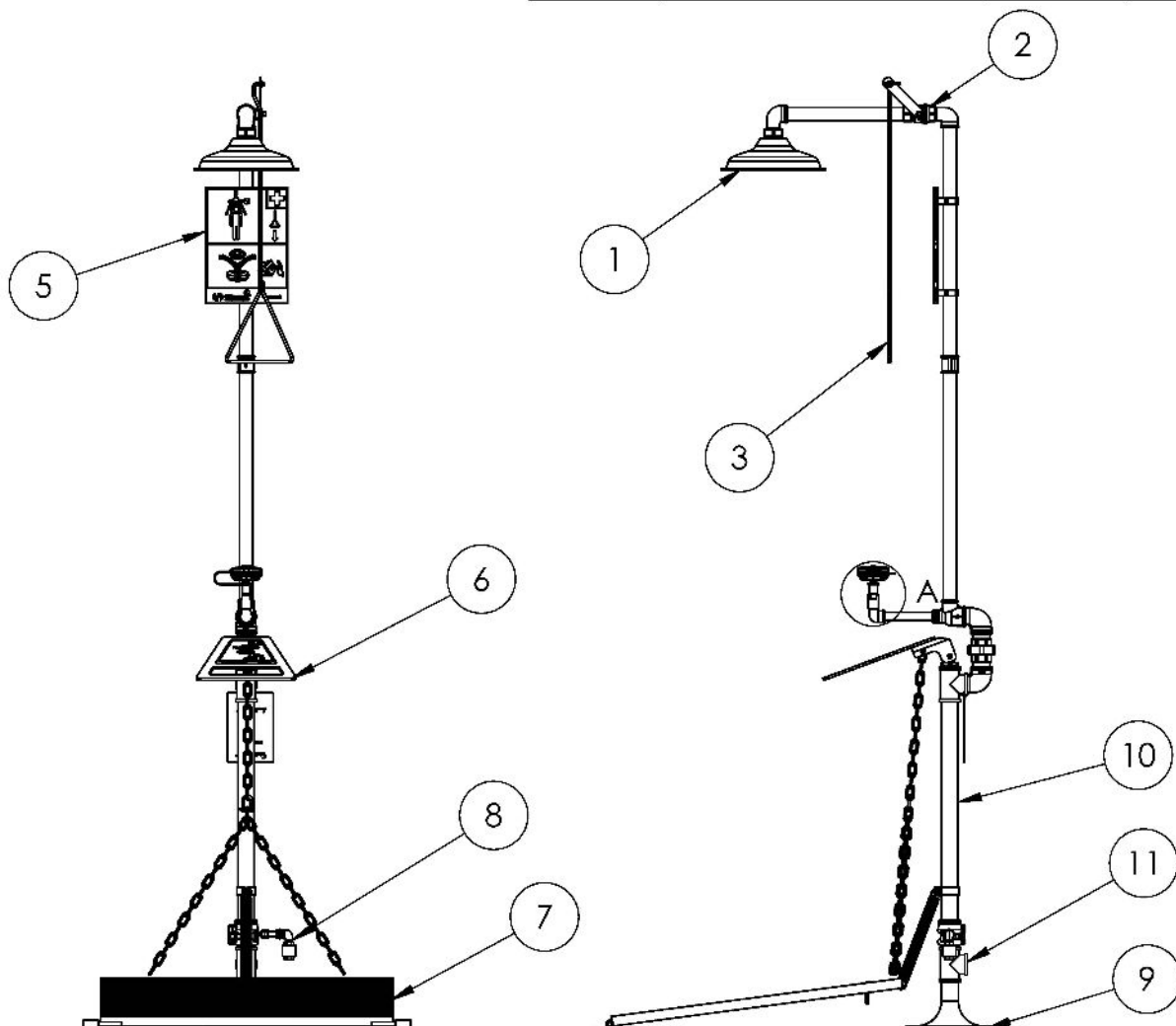
4.2 Assembly

1. Make sure that the requirements for installation are met, see section **Requirements**.

PARTS BREAKDOWN



ITEM	DESCRIPTION	MODEL NO.	ITEM NO.
1	AXION SHOWER HEAD	SP829 AXION	10001845
2	VALVE ASSEMBLY	SP260.158	10006189
3	PULL ROD	SP200	10002978
4	AXION EYEWASH HEAD	SP65CTFP	10001850
5	SAFETY SIGN	SP178	10003218
6	PUSH FLAG	-	10001661
7	SP222 (Grate)	SP222	10001762
8	Drain Check Valve Assy	SP82	10000278
9	Floor Flange	SP75	10003380
10	Freeze Proof Valve Assy	MK81A	10005401
11	Water Inlet	-	-



1. Check the delivery for completeness referring to the drawing above.
2. Apply suitable sealing material for the threaded connections.
3. Assemble the safety emergency shower as shown.
4. Align the emergency equipment.
5. Using the floor flange, item 29, as a template, mark the drill holes for mounting on the floor.
6. Align the grid such that it will not scratch other components and mark the drill holes using the two fastening brackets.
7. Take precautions against water penetrating the drilled holes (sealing with rubber disks or silicone sealant).
8. Mount the assembled emergency equipment on the floor.
9. Mount the plate, at eye level of an average adult person.
10. Connect the water supply via a filter.

4.3 Checks after installation / annual check

Before connecting the supply water line to the emergency shower, **FLUSH THE LINE THOROUGHLY.**

- Connect to supply water line
- Control valves for the shower and the eyewash station are closed
- Check the connections of the safety emergency shower for leaks.
- If water leaks at a joint renew the seal at the joint.

4.3.1 Function of the shut-off valves

1. Fully open the shut-off valves and release them.

The control valve must remain in the fully open position without any further action.

4.3.2 Flow rate measurement

1. If there are any shut-off valves between the main water pipes and the emergency equipment:
 - Ensure that the shut-off valves are fully open.
2. If other consumers are connected to the same branch of the main water pipes:
 - Open the other consumers.
 - Place a suitable bucket underneath the eyewash station.
 - Place a suitable bucket underneath the shower head, item 4 of the shower.
 - Switch on both the eyewash and the shower and collect the water for 60 seconds.
 - Determine the volume of the collected water.
3. If the minimum flow rates of 60 l/min for the shower and of 6 l/min for the eyewash station are reached:
 - Complete the installation.
4. If the minimum flow rates of 60 l/min for the shower and of 6 l/min for the eyewash station are NOT reached:
 - Have the capacity of the water supply adjusted.
 - Repeat the flow rate measurement.

4.3.3 Determining jet height and jet pattern of the eyewash station



NOTE

While running the eyewash without a face above it the folding water jet of one outlet can “cover” the water jet of the other outlet, hence falsifying it.

In such a case place a vertical plate between the two outlets, so that the two jets will not affect each other.

1. Make sure that the shower is off.
With sufficient flow pressure, the water jet should have a height of at least 10 cm and at most 30 cm.
2. Activate the shower.
3. Repeat the check with the shower switched on.



NOTE

Only the manufacturer and/or the authorized manufacturer customer service are authorized to disassemble item eyewash.

The qualified local qualified plumber is only allowed to replace eye / facewash as a complete assembly.

1. If the jets are lower than 10 cm or higher than 30 cm:
2. Check with the operator whether the water supply pressure is sufficient. If not, a pressure booster system should be installed.

4.3.4 Determining the water temperature

- Using a thermometer, check that the water temperature meets the requirements, see chapter.

4.4 Final work

1. If there are any shut-off valves between the main water pipes and the emergency equipment:
 - Make sure that the shut-off valves are not closed by mistake. The manufacturer recommends installing lockable shut-off valves locked in the open position: Water supply for emergency equipment. Always keep the shut-off valve fully open. Prior to starting work that requires the water supply to be shut off, inform the staff the emergency equipment is allocated to.
 - Hand over these operating instructions to the safety inspector of the company operating the unit or an equivalent appointed person who is engaged in supervising occupational safety measures and inform him/her of the duties to instruct the personnel and organize the maintenance.

4.5 Instructing the personnel and organizing maintenance

4.5.1 Personnel requirements

- Safety inspector of the site operator or an equivalent assigned person who is engaged in supervising occupational safety measures

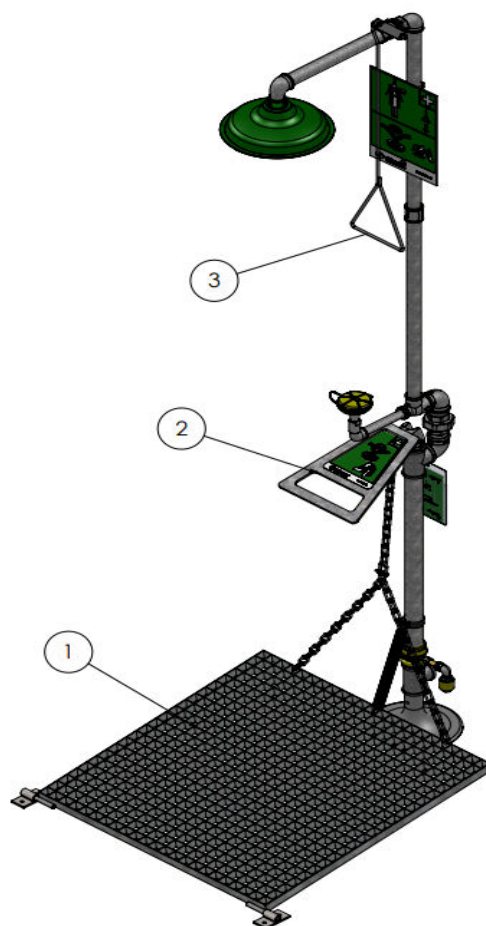
4.5.2 Instructing the personnel

1. Within a short time after the emergency equipment has been installed, instruct the personnel the emergency equipment is allocated to.
Minimum contents of the instruction:
 - Operation of the emergency equipment (switching on and off)
 - Prohibition of blocking the way to the emergency equipment
2. Make sure that the handling of the emergency equipment is included in the introductory program for new employees.

4.5.3 Organizing the maintenance

- Make sure that the maintenance of the emergency equipment is carried out properly.

5 Operation



Eyewash Activation/Deactivation

- Stepping on the grating (1) opens the self-draining valve. At the same time, the hand plate (2) is pulled down. This activates the eyewash.
- To close the valve again, you must leave the grating and push the hand plate (2) back up.
- Put the dust cap back on the eyewash

Shower Activation/Deactivation

- After eyewash activation the shower can be opened by pulling the pull rod (3) downwards.
- To close the shower, push the pull rod back to the upper position

The grid and the push flag respectively do NOT reset automatically.

6 Maintenance

6.3 Personnel requirements

- To carry out the weekly function check: qualified persons who were instructed based on the maintenance schedule below (QP).
- Checking the system to ensure that it satisfies the current regulations (laws, regulations, directives, standards): OSH officer or equivalent appointed person who is engaged in supervising occupational safety and health measures (OSH)



NOTE

Only the manufacturer and/or the authorized manufacturer customer service are authorized to disassemble eyewash.

The local qualified person is only allowed to replace item eye / facewash.

6.4 Maintenance schedule

Interval	Action	Personnel
Weekly	<ul style="list-style-type: none"> • Make sure that all shut-off valves between the main water pipe and the emergency equipment are fully open. • Perform a general visual inspection: <ul style="list-style-type: none"> – Mechanical damage? – Leaks at joints? • Functional check of emergency equipment: <ul style="list-style-type: none"> – Allow the emergency equipment to run until the water in the branch pipe of the main pipe is replaced with fresh water (time depends on the local conditions). – Check the jet pattern of the shower: Signs of calcification? – Check the jet pattern of the eyewash station: Signs of calcification? – Check the alignment of the outlet openings of the eyewash station. • If there are any discrepancies: <ul style="list-style-type: none"> – Have the discrepancies eliminated by a skilled qualified plumber. • Enter the inspection in the maintenance log. 	QP
As required	Elimination of discrepancies	QP
Annually	<ul style="list-style-type: none"> • Carry out the Checks after installation / annual check • Enter the inspection in the maintenance log. 	QP
Annually	<ul style="list-style-type: none"> • Check whether the emergency equipment still satisfies the current provisions (laws, directives, regulations, standards). • If not: Initiate correction. • Enter the inspection in the maintenance log. 	OSH
Every 2 years	<ul style="list-style-type: none"> • Replace the filter in the water supply pipe. • Enter the filter change in the maintenance log. 	QP

6.5 Maintenance log





- Use the following page as a copy template for the maintenance log.

Maintenance log for the year 20.....

Emergency equipment model Haws 8350FP AXION

Location:

Weekly check

Cw	Date	State		Initials	Cw	Date	State		Initials
									
1					27				
2					28				
3					29				
4					30				
5					31				
6					32				
7					33				
8					34				
9					35				
10					36				
11					37				
12					38				
13					39				
14					40				
15					41				
16					42				
17					43				
18					44				
19					45				
20					46				
21					47				
22					48				
23					49				
24					50				
25					51				
26					52				

Annual check

Date	Initials

Check for compliance with the valid regulations (annually)

Date	Initials

Filter replacement (every 2 years)

Date	Initials

7 Disassembly and disposal

According to the information that was available at the time when these operating instructions were prepared, the emergency equipment does not contain any components that require special disposal measures.

1. Make sure that the emergency equipment is disconnected from the supply line.
2. Disassemble the emergency equipment.
3. Dispose of the components of the emergency equipment in accordance with the local regulations

8 Spare parts

ITEM	DESCRIPTION	MODEL NO.	ITEM NO.
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2	VALVE ASSEMBLY	SP260.158	10006189
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