

PS Evo

Translation of the original instructions



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Description PS Evo

A pump station has a built-in pump, to pressurize water.

The selected outlet pressure is kept constant regardless of consumption provided the consumption remains below the maximum volume the system can deliver.

The pump is protected against dry-running in case of insufficient water supply.

The pump is protected against excessive water temperatures.

EU Declaration of Conformity II A

Manufacturer:

System Cleaners A/S
Halkjærvej 17
DK-9200 Aalborg SV
Denmark

Product series: Pumpstation PS5-20 Evo & PS10-20 Evo.

Year of Manufacture: 2026

We, System Cleaners A/S, declare that this product complies with the following directives and standards.

Machinery Directive 2006/42/EC.

Standards:

EN ISO 12100:2010 – Risk assessment and risk reduction.
EN 60204-1:2018 – Part 1: General requirements (IEC 60204-1:2016).
EN ISO 13849-2:2012 – Part 2: General requirements.
EN ISO 14118:2018 – Prevention of unexpected start-up.
EN ISO 13849-1:2023 – Part 1: General principles for design.
EN ISO 4414:2010 – General rules and safety requirements.

Responsible for the technical file:



Hanne Søberg Mouridsen
Documentation engineer
Aalborg SV, 29/04/2026



Member of AxFlow Group

General information

For safety during installation and subsequent use, it is extremely important that the manual is followed carefully. Please keep this user manual in a place where it is available at all times and hand it over to the person responsible for this product. If the user manual is lost, you are welcome to request a new one from your dealer. If there is any doubt about the content of the instructions, contact the dealer for clarification.

Intended use

The System Cleaners system is designed for use with water.

- Boosted water.

Any other use besides this is considered inappropriate and a deviation from the provisions, and may lead to dangerous situations.

System Cleaners A/S is not liable for consequential damages caused in this respect.

Intended use means:

- The instructions, regulations and recommendations given in the user manual for the unit.
- Compliance with the prescribed inspection and maintenance intervals.
- Correct maintenance of the unit to keep it in good working order.
- Compliance with the prescribed environmental and operating conditions.
- Use of a detergent compatible with the materials in the unit.

Intended use also includes compliance with all the information provided in this user manual. This applies in particular to the specified safety instructions.

Liability provisions

It is the responsibility of the individual user to handle and use the unit in a safe manner. It is therefore extremely important that this user manual is available to the sanitation worker.

Safety precautions

The unit is designed in accordance with the generally accepted technical rules and regulations as well as working environment and accident prevention regulations. Nevertheless, risks may arise during use that could cause physical harm to the user or third parties or affect the machinery or other equipment. The unit must therefore be in optimal technical condition before use and may only be used in accordance with its intended use and in compliance with the safety regulations and operating instructions. In particular, faults that may affect safety must be rectified immediately.

Warranty provisions

Please refer to the current sales and delivery conditions.

Labelling

The unit is supplied with a type plate with technical data. The type plate is located on a fixed part of the unit.

Disposal

This product and its parts must be disposed of in an environmentally sound manner in accordance with local legislation.

Use the public or private recycling stations.

If the aforementioned is not possible, please contact your nearest System Cleaners representative.

Transport and handling

Care must be taken when lifting the unit due to its relatively high weight.

Use of the dedicated lifting brackets is recommended.

Storage

When storing the unit, the ambient temperature must be kept above freezing point.

After long-term storage, the unit must be rinsed before it is used in production.

Safety information

Safety symbols

	General warning. Read the documentation before using the system. Read the documentation before servicing the system.
	There may be hot surfaces. Take special care when servicing the system.
	Goggles must be worn when operating the system. Goggles must be worn when servicing the system.
	Gloves must be worn when operating the system. Gloves must be worn when servicing the system. Wear cut-resistant gloves when servicing.

General

This unit may only be operated by trained professionals or persons who have been properly instructed in how to operate it.

Service may only be carried out by trained professionals or maintenance personnel who have been properly instructed in how to service it.

Risks on the equipment (residual risk)

Operation

- Always wear safety goggles, gloves and appropriate work clothing when using the unit (PPE).
- Risk of getting high-pressure water in the eyes (HIGH RISK).
- Risk of scalding (HIGH RISK).
 - It is the user's/fitter's responsibility to ensure that water is not used at temperatures above 70 °C.

The door must always be closed.

Risk of high-pressure water in the event of failure (MEDIUM RISK).

Service/maintenance

- Always wear safety goggles, cut-resistant gloves and appropriate work clothing when servicing the system (PPE).
- Risk of getting high-pressure water in the eyes (HIGH RISK).
- Risk of cutting/striking yourself (HIGH RISK).

Before accessing the unit/open door, close all inlet ball valves.

After this, the first thing to be done once the door is open is to depressurise the entire system.

Risk of high-pressure water if service is performed without relieving the pressure from the system (HIGH RISK)

Safety signs

The following pictograms are placed on the equipment (size is 65x68 mm).
Scale displayed (1:1).



Installation

Mounting the unit

- The wall material should be of a stable quality that can support the weight of the unit.
- Mounting must be performed with the bolts and plugs supplied.
- Drill holes for the unit's wall brackets according to the dimensional drawing.
- Mount and tighten the wall brackets. Then, mount the unit and screw the safety screw at the bottom of the unit into the wall.
- For servicing, we recommend that you allow 1m free space around the system.

Mounting the pipe connections

In general, pipe connections must be made in accordance with local regulations.

It is the fitter's responsibility to ensure compliance with applicable legislation.

- All pipes must be rinsed through before they are connected to the unit.
- Lockable shut-off valves must be fitted to all pipe connections.
- The fitter must comply with any local requirements regarding pipe interrupters, if any exist.
- We recommend that you select pipe sizes that keep the flow velocity below 3 m/s. This normally provides an acceptable pressure loss and low flow noise.
- It must be ensured that the water temperature does not exceed 70 °C.

Electrical connection

- Connection to the electricity supply must be performed according to local regulations.
- It is the fitter's responsibility to ensure compliance with applicable legislation.
- A lockable service valve that can be operated from the floor without the use of a ladder or similar must always be fitted.
- For more information, see the manual supplied with the pump.

Start-up of operations

The unit must be bled before it is taken into use or after servicing.

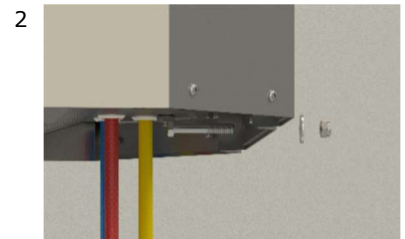
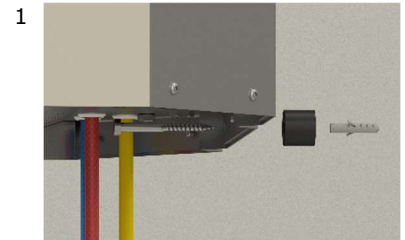
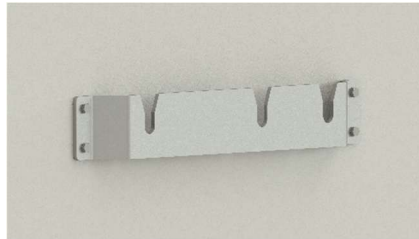
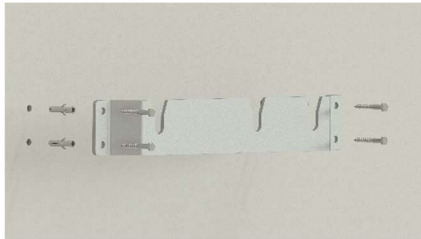
Installation kits

Item number	Installation kit
96-010060	Installation kit PS Evo

Mounting instructions

For safety reasons, your new System Cleaners cleaning system is equipped with an integrated lifting bracket to prevent work-related accidents during mounting when used correctly. Follow the instructions below carefully.

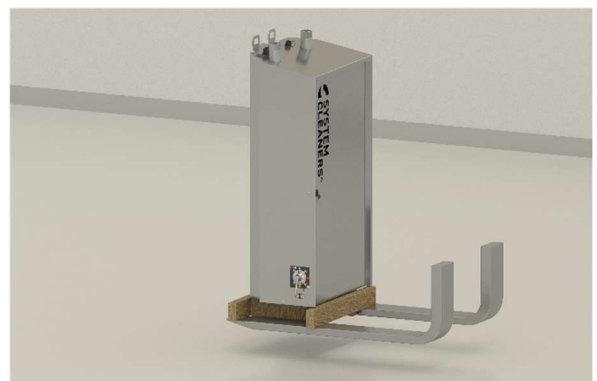
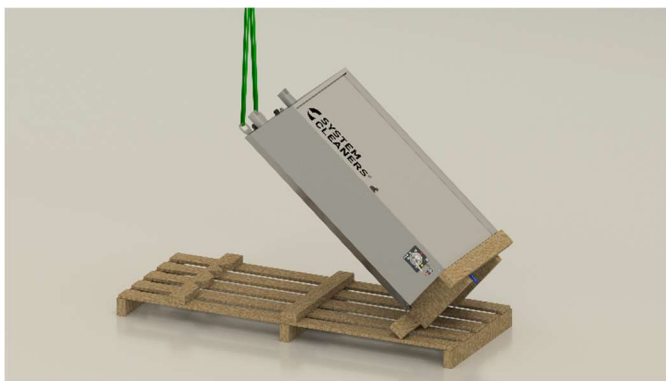
1. Start by drilling holes and mounting the wall bracket (brackets, screws and wall plugs are included).
IMPORTANT: Fit the safety screw in the base of the cabinet in the wall (1) or floor stand (2).



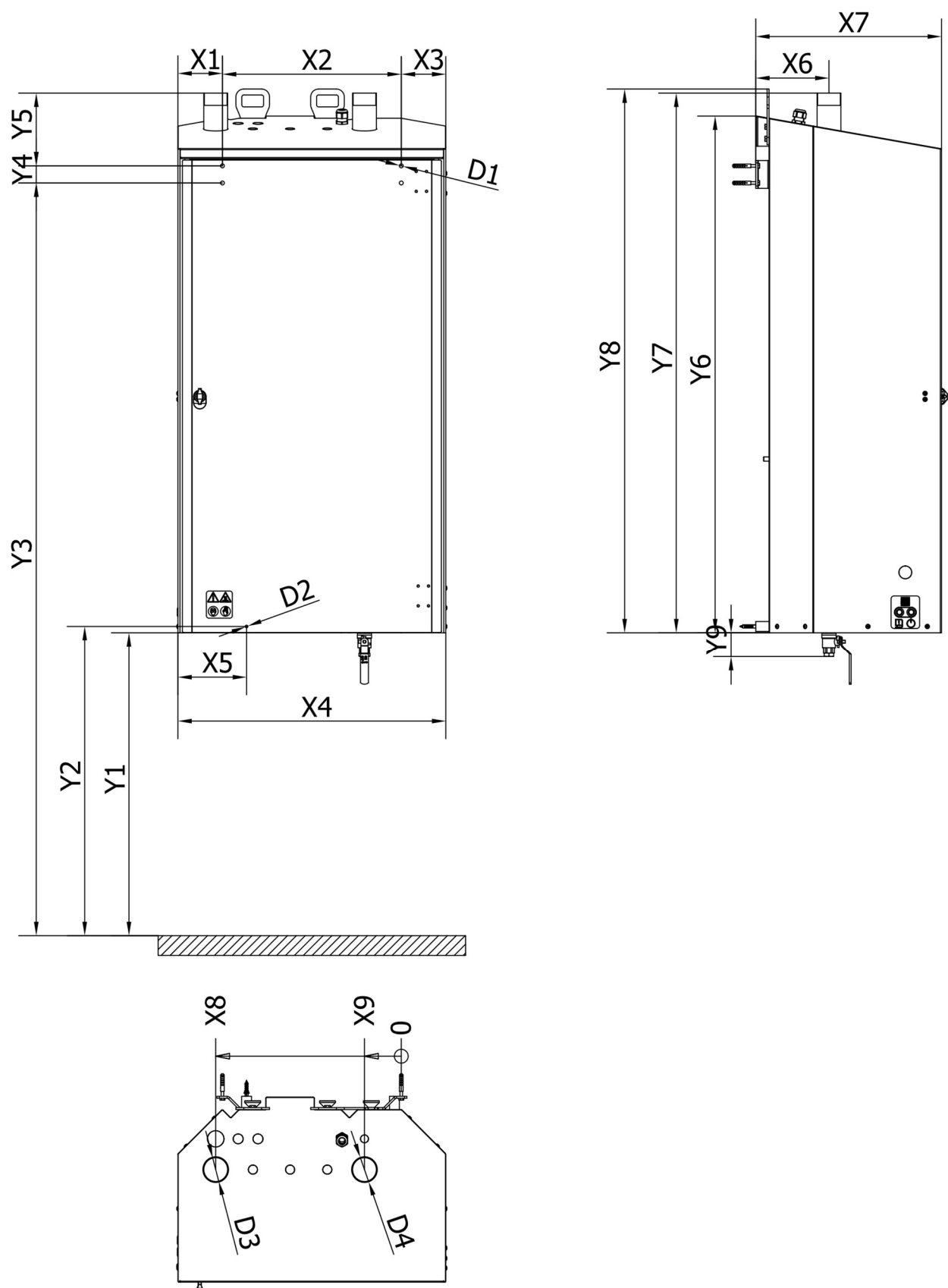
2. Your new System Cleaners unit is delivered lying on a pallet. To mount it on the wall bracket or on a floor stand, use the integrated lifting bracket.



3. Attach an approved lifting sling to the bracket. Once the unit is hoisted into a vertical position, a forklift can be used for the rest of the installation.

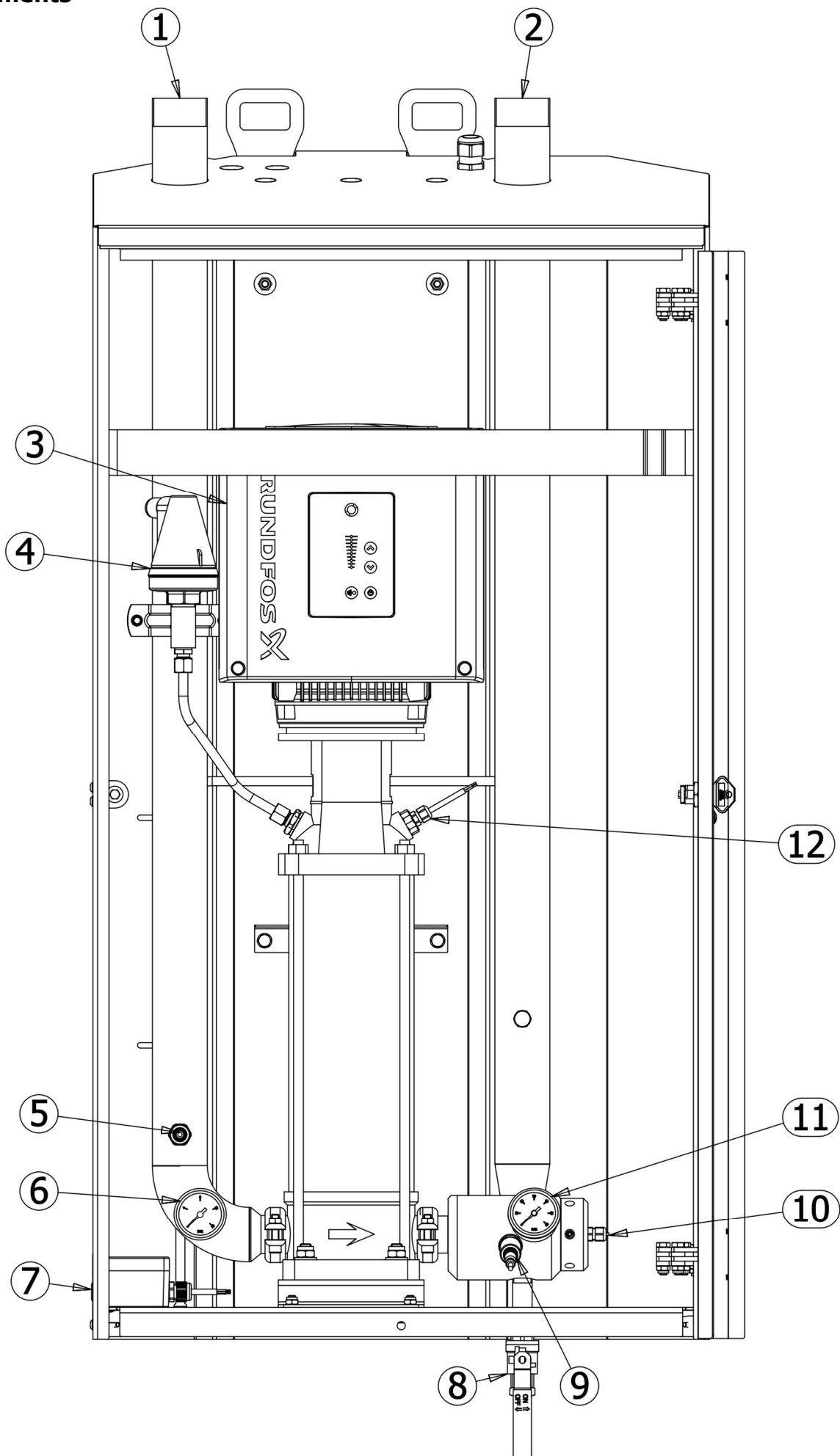


Mounting dimensions



Item	Millimetres	Inches
X1	112.5	4 ²⁷ / ₆₄
X2	452	17 ⁵¹ / ₆₄
X3	112.5	4 ²⁷ / ₆₄
X4	677	26 ²¹ / ₃₂
X5	173.5	6 ⁵³ / ₆₄
X6	185	7 ⁹ / ₃₂
X7	469.4	18 ³¹ / ₆₄
X8	469	18 ¹⁵ / ₃₂
X9	93	3 ²¹ / ₃₂
Y1	1070	42 ¹ / ₈
Y2	1086	42 ³ / ₄
Y3	2208.5	86 ⁶¹ / ₆₄
Y4	43	1 ¹¹ / ₁₆
Y5	183	7 ¹³ / ₆₄
Y6	1374.7	54 ¹ / ₈
Y7	1364.5	53 ²³ / ₃₂
Y8	1306.8	51 ²⁹ / ₆₄
Y9	118.6	4 ⁴³ / ₆₄
D1	Ø10	²⁵ / ₆₄
D2	Ø8	⁵ / ₁₆
D3	2"	2"
D4	2"	2"

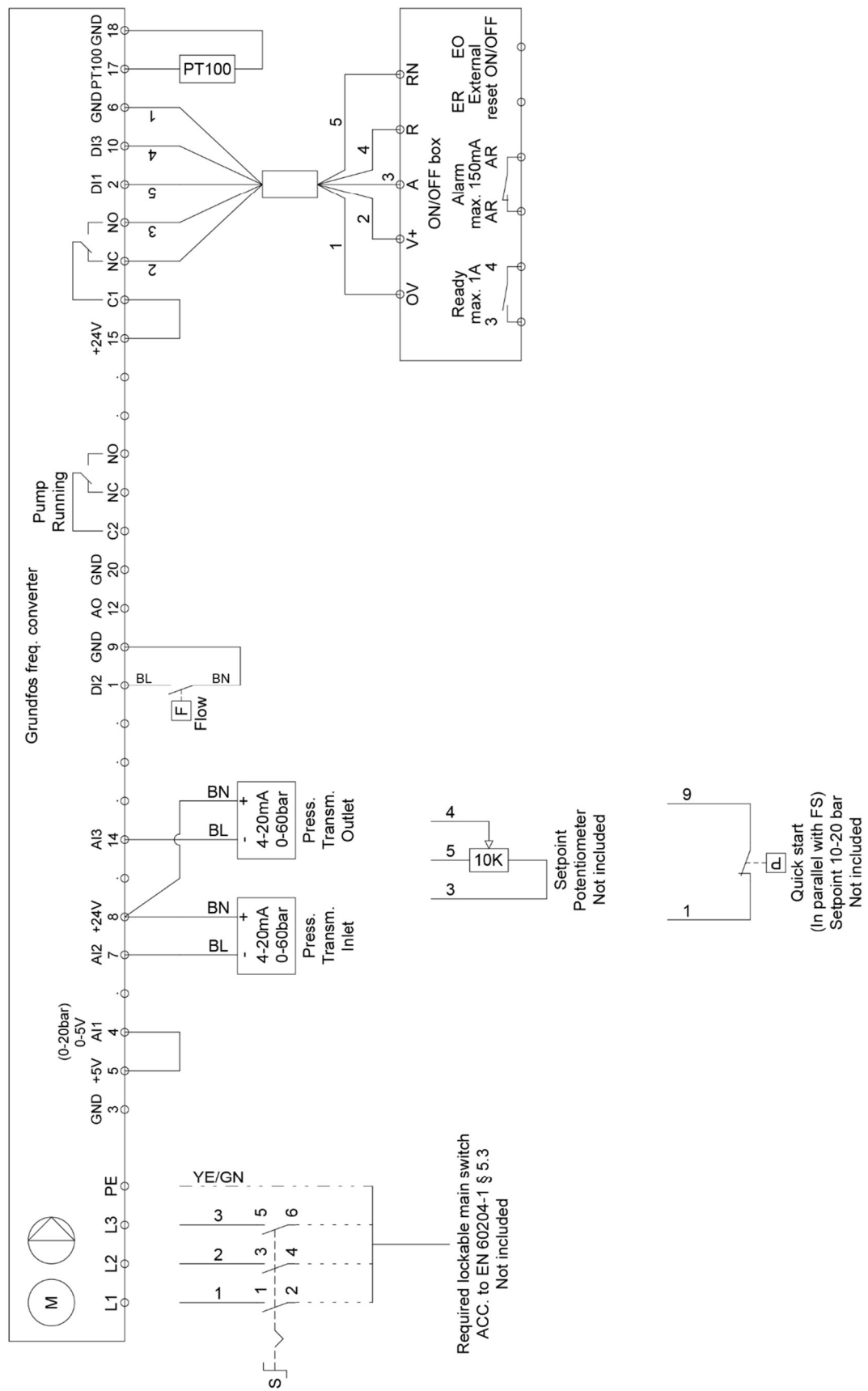
Main elements



Main elements list

Item	Description
1	Water inlet
2	Outlet
3	Pump
4	Pump exhaust system
5	Pressure transmitter inlet
6	Manometer inlet
7	On/Off/Reset buttons with indicator
8	Drain outlet
9	Pressure transmitter outlet
10	Non-return valve/flow switch
11	Manometer outlet
12	Temperature sensor

Wiring diagram



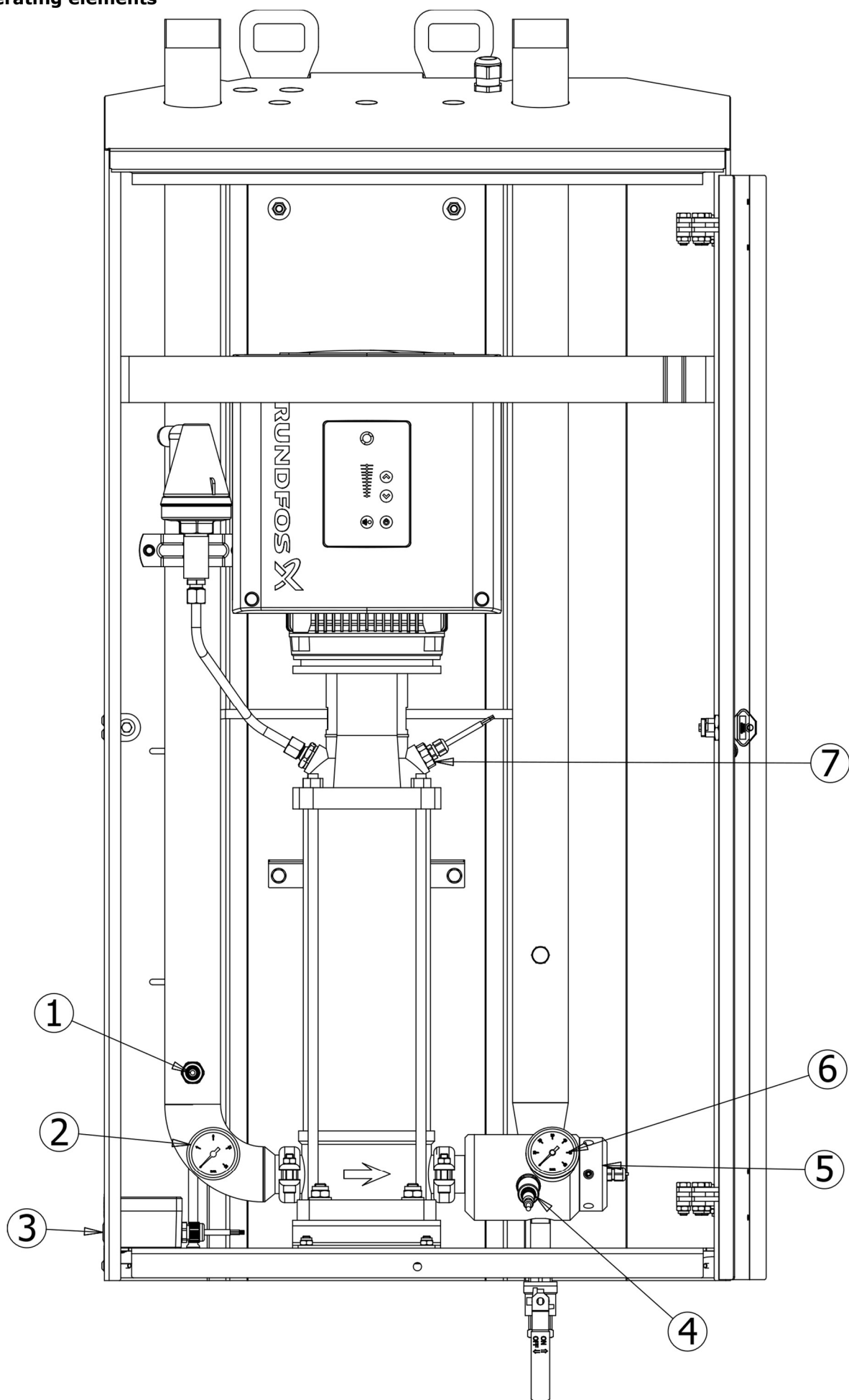
Technical specifications

	PS5-20 Evo
Installation	
Ambient temperature	3-40 °C // 37-104 °F
Pump	
Pump type	CRNE 5-14
Energy class	IE5
Motor power	6 kW // 8 HP
Frequency converter	Integrated in pump motor
Water supply	
Connection	2" BSPT // 2" NPT
Inlet pressure	1,5-10 bar // 22-145 psi
Filtration rating	≤800 µm
Automatic pump stop at inlet pressure less than	1,5 bar // 22 psi
Temperature	3-70 °C // 37-160 °F
Automatic pump stop at liquid temperature higher than	85 °C // 185 °F
Recommended minimum inlet flow	12 m³/h // 53 US gal/min
Water outlet	
Connection	2" BSPT // 2" NPT
Set point range (0-5V external signal)	0-20 bar (STD. 20 bar)
Maximum flow at 20 bar/290 psi, incl. a 4 bar/58 psi inlet pressure	150 litres/min // 40 US gal/min
Electrical connection	
Voltage	3x380-500 V + PE ± 10%
Frequency	50-60 Hz
Current	11,5-9 A
General	
Number of users/workstations	5
Width x height x depth	677 x 1432 x 470 mm // 27 x 57 x 19 inches
Maximum weight	170 kg // 375 lbs
IP class	54
Noise level	<70 dB

	PS10-20 Evo
Installation	
Ambient temperature	3-40 °C // 37-104 °F
Pump	
Pump type	CRNE 10-12
Energy class	IE5
Motor power	11 kW // 15 HP
Frequency converter	Integrated in pump motor
Water supply	
Connection	2" BSPT // 2" NPT
Inlet pressure	1,5-10 bar // 22-145 psi
Filtration rating	≤800 µm
Automatic pump stop at inlet pressure less than	1,5 bar // 22 psi
Temperature	3-70 °C // 37-160 °F
Automatic pump stop at liquid temperature higher than	85 °C // 185 °F
Recommended minimum inlet flow	24 m³/h // 106 US gal/min
Water outlet	
Connection	2" BSPT // 2" NPT
Set point range (0-5V external signal)	0-20 bar (STD. 20 bar)
Maximum flow at 20 bar/290 psi, incl. a 4 bar/58 psi inlet pressure	300 litres/min // 79 US gal/min
Electrical connection	
Voltage	3x380-500 V + PE ± 10%
Frequency	50-60 Hz
Current	20,6-16 A
General	
Number of users/workstations	10
Width x height x depth	677 x 1432 x 470 mm // 27 x 57 x 19 inches
Maximum weight	210 kg // 463 lbs
IP class	54
Noise level	<70 dB

Description of functions

Operating elements



Item	Description
1	Inlet pressure transmitter
2	Manometer, inlet pressure
3	On/Off/Reset buttons with indicator
4	Outlet pressure transmitter
5	Flow switch
6	Manometer, outlet pressure
7	Temperature sensor

Item 1 – Inlet pressure transmitter

The function of the pressure transmitter is to ensure that there is sufficient inlet pressure to the system.

If the inlet pressure falls below 1.5 bar, a countdown of 5 seconds starts.

If the inlet pressure remains below 1.5 bar after the countdown, the pump will begin sounding an alarm and stop.

The alarm is reset by pressing the blue button.

Item 2 – Manometer, inlet pressure

Shows the inlet pressure.

Item 3 – ON/OFF button

The function of the white button is to switch between “standby” and “ready to run”.

A flashing white light means that the pump is on but has not been granted permission to run.

A steady white light means that the pump is on and is permitted to run.

The function of the blue button is to reset the pump if there has been an error/alarm.

The blue button lights up if there has been an error/warning in the pump.

Item 4 – Outlet pressure transmitter

The function of the pressure transmitter is to maintain a constant outlet pressure.

The pump regulates its speed based on the pressure transmitter's reading.

Item 5 – Flow switch

The function of the flow switch is to start the pump when there is flow.

This function is dependent on the white button having a constant white light.

Item 6 – Manometer outlet pressure

Shows the outlet pressure.

Item 7 – Temperature sensor

The function of the temperature sensor is to protect the system against excessive water temperatures.

If the water temperature is >70 °C, a countdown of 5 seconds starts.

If the temperature remains above 70 °C after the countdown, the pump will go into alarm mode and stop.

The pump temperature must be below 65 °C before the alarm can be reset by pressing the blue button.

Maintenance

Non-return valve

Non-return valve should be checked weekly.

The water non-return valve protects the fresh water supply against the backflow.

It is recommended that you service/replace the non-return valve once a year.

Pump

The shaft seal on the pump should be checked for leaks once weekly.

Repeated dry-running can reduce the life of the shaft seal.

We recommend that you replace the shaft seal every two years.

Service kits

Annual service kit, Machine – 96-010480

PS5-20 Evo shaft seal EPDM (standard) – 32-300010

PS5-20 Evo shaft seal Viton – 32-300011

PS10-20 Evo shaft seal EPDM (standard) – 32-100020

PS10-20 Evo shaft seal Viton – 32-100021

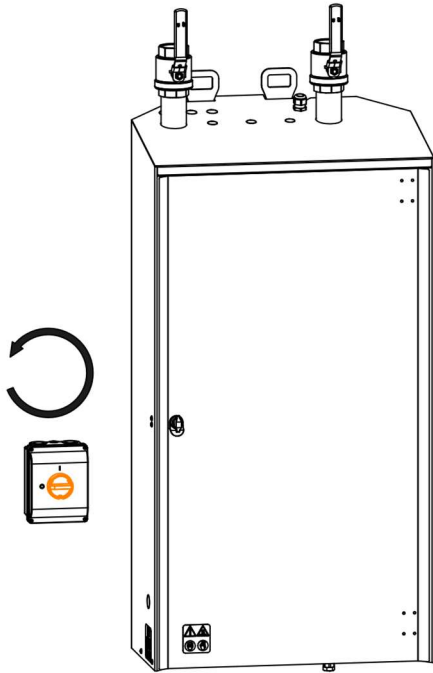


Service quick guides

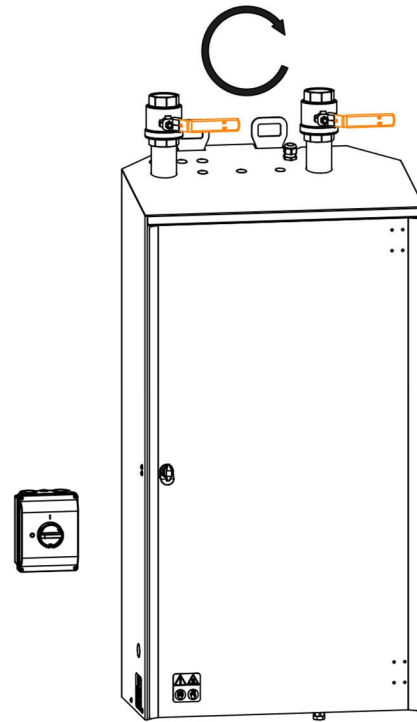
Depressurise the system before servicing.

For safety reasons, this must be done before disassembling internal components.

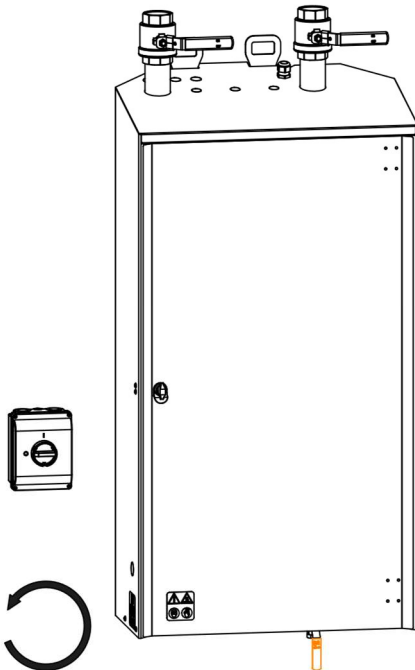
1. Turn off the service switch.



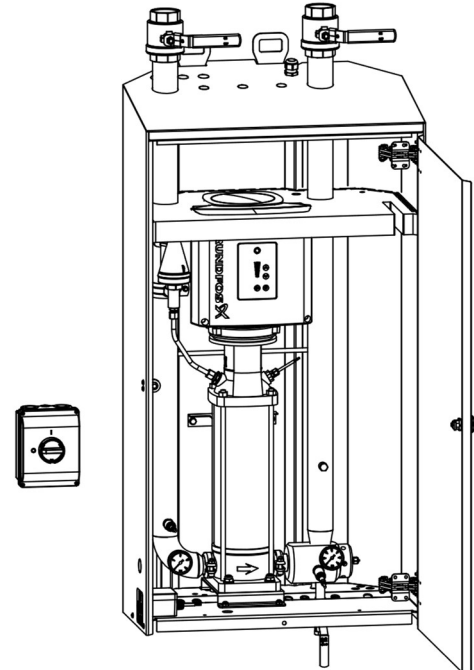
2. Shut off the fluid supply.



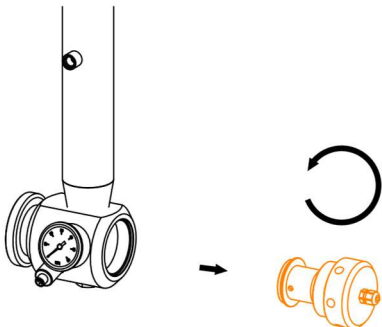
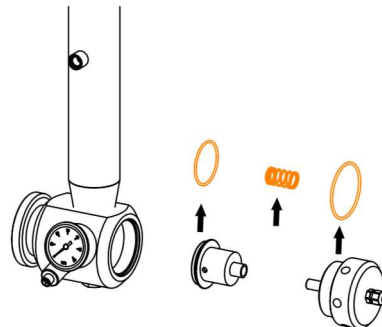
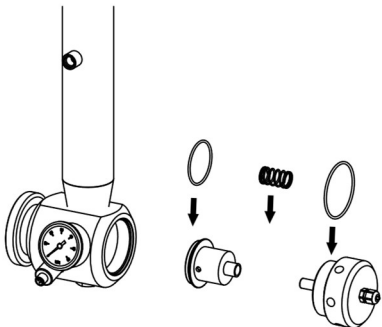
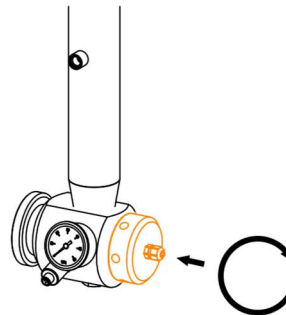
3. Open the drain outlet.



4. Open the unit door.

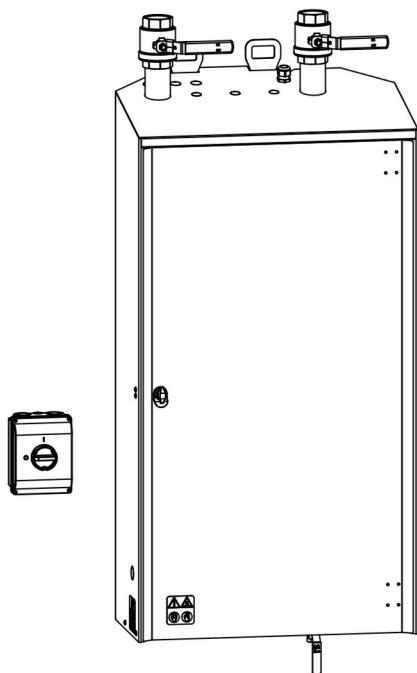


Non-return valve/flow switch

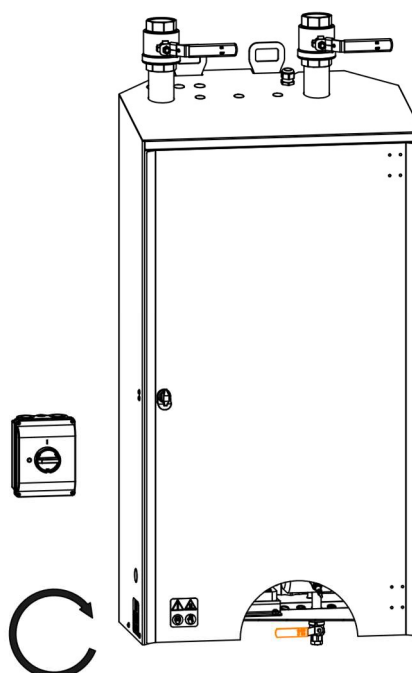
1. Remove the non-return valve/flow switch 	2. Remove the O-rings and spring 
3. Fit new O-rings and spring 	4. Fit the non-return valve/flow switch 

Restart after service.

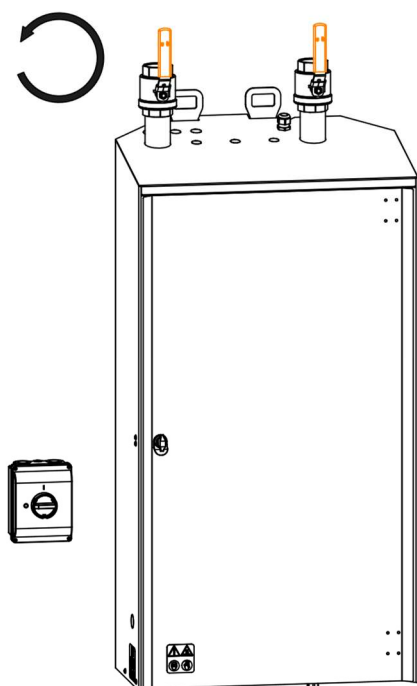
1. Close the door.



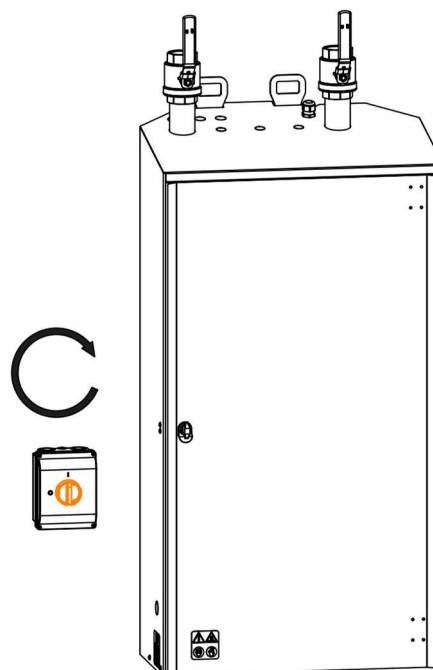
2. Close the manual outlet.



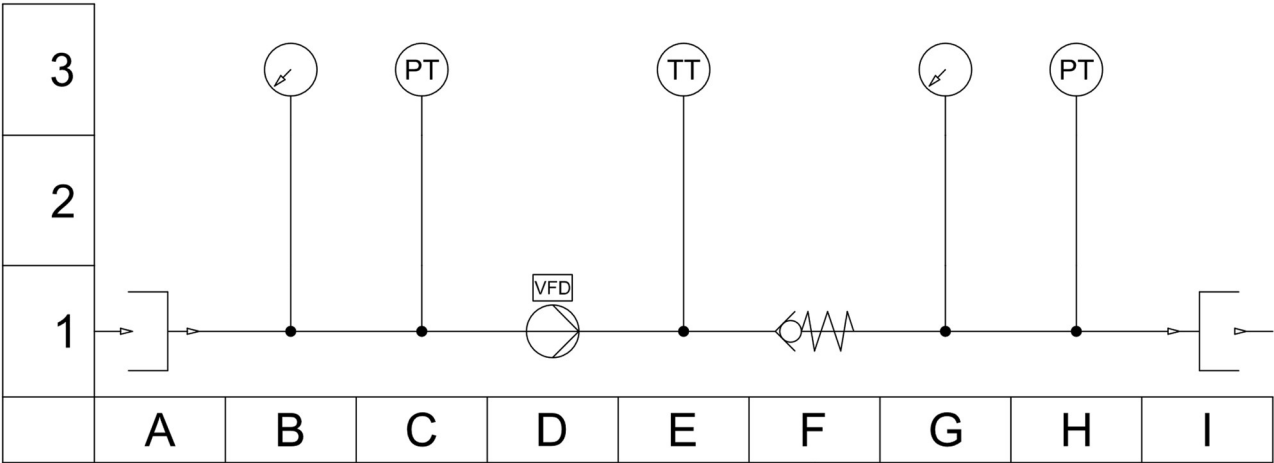
3. Open fluid supply.



4. Turn on the service switch.



P&ID



Row	Column	Description
1	A	Water inlet connection
1	D	Pump
1	F	Non-return valve/flow switch
1	I	Outlet
3	B	Manometer, inlet pressure
3	C	Pressure transmitter, inlet pressure
3	E	Water temperature sensor
3	G	Manometer, outlet pressure
3	H	Pressure transmitter, outlet pressure

Troubleshooting

Error	Cause	Solution
No rinse pressure.	No water pressure.	Start the pump station.
	Insufficient water supply to the unit	Make sure that the water supply is as described in the technical specifications
	Water pressure is too low	Make sure water supply is as described in the technical specifications

Manual revision

Rev.	Description	Date	Ini.
A	Manual created.	18/12/2024	Mpr
B	Small corrections in text. Technical data sheet changed and corrected. Wiring diagram corrected.	13/05/2025	Mpr
C	Declaration of Conformity updated and text corrected	29-04-2026	VBM

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Please note that:

We reserve the right to make changes to the technical specifications without notice.

Version C, EN.

PS Evo

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