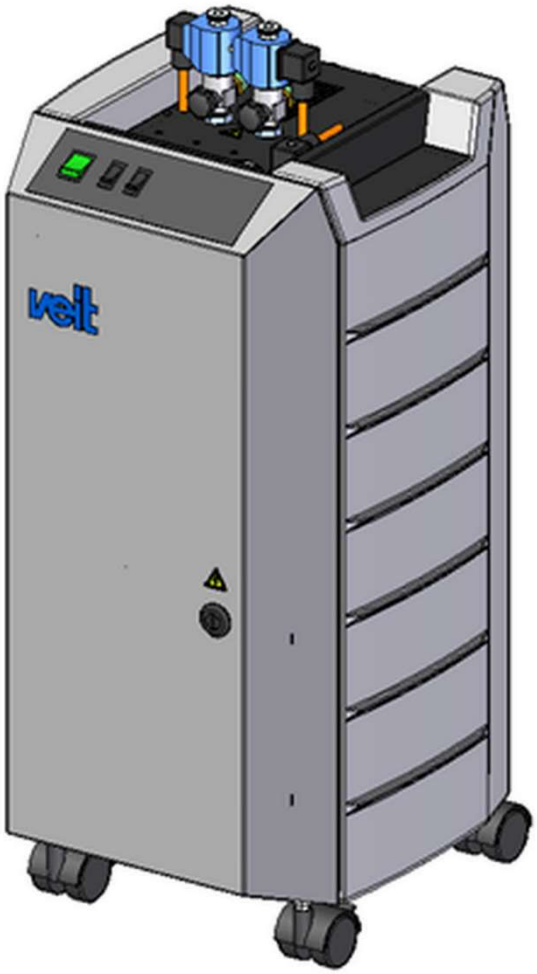
Pressing for Excellence

Operating instructions

Translation of the original operating instructions



Steam generator

VEIT SG67

CE

Read the manual carefully before starting work! Please retain the manual for future use!

VEIT GmbH
Justus-von-Liebig-Str. 15
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Table of contents

1 General information

1.1 Declaration of conformity

EU-Konformitätserklärung / EU declaration of conformity / Déclaration UE de conformité

Manufacturer: **VEIT GmbH / Justus-von-Liebig-Str. 15 / D-86899 Landsberg**

Model: **Dampferzeuger SG67**
Steam Generator SG67

Type: 2367

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.
This declaration of conformity is issued under the sole responsibility of the manufacturer.
La présente déclaration de conformité est établie sous la seule responsabilité du fabricant.

Hiermit erklären wir, dass die Bauart des genannten Produkts in der gelieferten Ausführung folgenden einschlägigen Richtlinien entspricht:
Herewith we declare that the supplied model complies with the following provisions applying to it:
Par la présente, nous déclarons, que le modèle fourni correspond aux dispositions pertinentes suivantes:

Directive 2014/35/EU (L 96/357 - 29.03.2014 - LVD)

Directive 2014/30/EU (L 96/79 - 29.03.2014 - EMCD)

Angewandte harmonisierte Normen, insbesondere:
Applied harmonized standards, in particular:
Normes harmonisées utilisées, notamment:

EN 60204-1:2006

EN 55014-2:2015

EN 55014-1:2006 + A1:2009 + A2:2011

Bevollmächtigter für die Zusammenstellung der technischen Unterlagen:
Authorized representative for the compilation of the technical documents:
Fondé de pouvoir pour l'établissement des documents techniques:

VEIT GmbH
Justus-von-Liebig-Straße 15
D-86899 Landsberg

Zusätzlich angewandte Standards:
Additionally applied standards:
Normes appliquées supplémentaires:

TRD 801 (production)

Konformitätsbewertungsverfahren nach LVD:
Conformity assessment procedures according LVD:
Procédures d'évaluation de la conformité selon LVD:

Modul: A

Notifizierte Stelle:
Notified body:
Organisme notifié:

CE 0036 / TÜV SÜD Industrie Service GmbH / Westendstr. 199 / D-80686 München

VEIT GmbH
Justus-von-Liebig-Straße 15
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Fax: +49 (8191) 479-199

Landsberg, 24.01.2018

Christopher Veit
(vice president)

Fig. 1: Declaration of conformity

2 Intended use

This device has been developed, designed and built for industrial and commercial use only. The device is intended for operation in closed rooms only. The steam generator is equipped with an electrical resistance heating system and is used to generate water steam for industrial and commercial purposes.

In general, the steam generator must only be filled with normal softened or distilled water!

Only cold water must be used as the feedwater.

Additives must only be added to the feedwater with permission of VEIT GmbH.

WARNING!

This device is exclusively designed for the purpose mentioned above. Any other or further use as well as any rebuilding or retrofitting of the device without the written consent of the manufacturer will be deemed as not in accordance with the intended use. The manufacturer shall not be held liable for damages caused by such use. The user alone bears the risk. This also applies to the installation and setting up of safety devices and valves as well as to any changes to load-bearing parts of the device.

Intended use also includes adherence to operating instructions and compliance with the inspection and maintenance intervals prescribed by VEIT.

2.1 Overview of the device

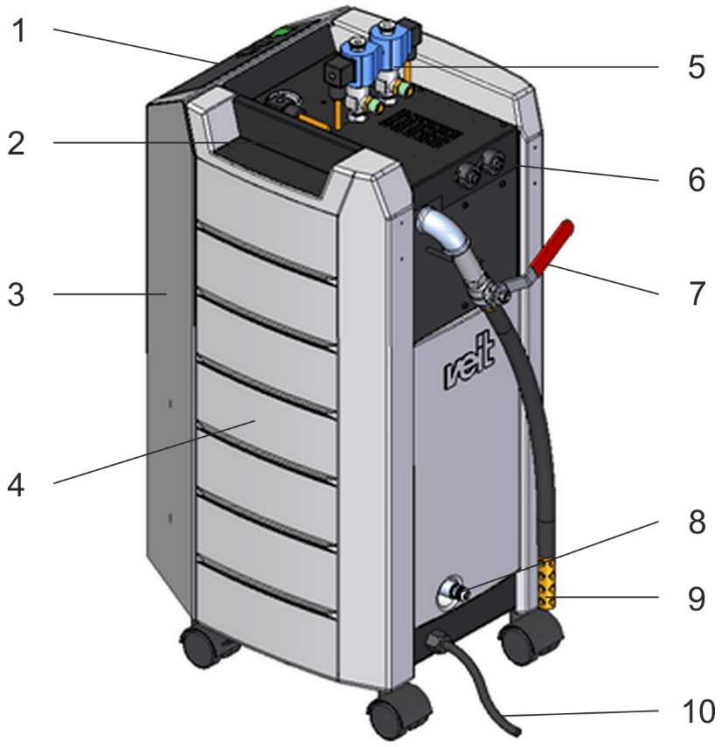


Fig. 2: Overview of the device

1 Control panel
2 Cover of feedwater tank
3 Switch cabinet
4 Feedwater tank
5 Steam connection for iron
6 Special small socket
7 Blow-down valve with locking strap
8 Vent valve
9 Diffuser
10 Power cable

2.2 Technical data

Dimension sheet

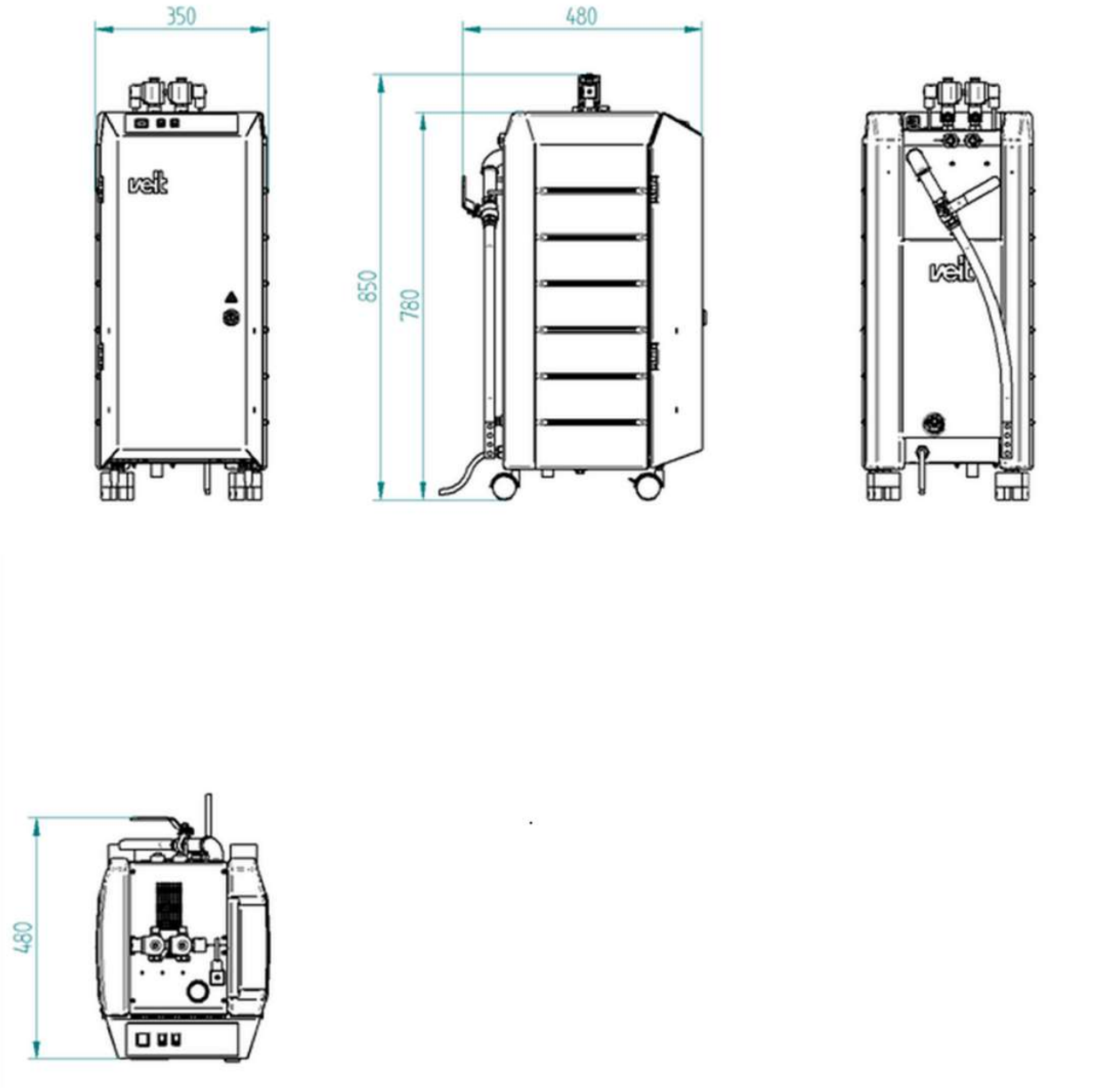


Fig. 3: Dimension sheet

Tab. 1: Dimensions and weight

Width	350 mm	13.5 inches
Depth	480 mm	19.0 inches
Height	850 mm	33.5 inches
Weight	27.5 kg	61 lbs

Tab. 2: Article number

	VEIT SG67 2.2 kW	**VEIT SG67 4.4 kW**	**VEIT SG67-C 4.4 kW**	**VEIT SG67 6.6 kW**
Article number	150042	150000	150044	149801

Tab. 3: Power supply

	VEIT SG67 2.2 kW	**VEIT SG67 4.4 kW**	**VEIT SG67-C 4.4 kW**	**VEIT SG67 6.6 kW**
Supply voltage	230 V	400 V	400 V	400 V
Power	2.2 kW	4.4 kW	4.4 kW	6.6 kW
Current consumption	10.5 A	10.5 A	10.5 A	10.5 A
Protection on the line side	16 A	16 A	16 A	16 A
Frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz

Tab. 4: Water supply

Connection	Article number 152283, optionally

Tab. 5: Steam supply

	VEIT SG67 2.2 kW	VEIT SG67 4.4 kW	VEIT SG67-C 4.4 kW	VEIT SG67 6.6 kW
Connection	3/8"	2 x 3/8"	2 x 3/8"	2 x 3/8"
Operating pressure	3.5 - 4.0 bar / 0.35 - 0.40 MPa	3.5 - 4.0 bar / 0.35 - 0.40 MPa	2.5 - 5.0 bar / 0.25 -0.50 MPa	3.5 - 4.0 bar / 0.35 -0.40 MPa
Saturated steam capacity	3 kg/h	6 kg/h	6 kg/h	9 kg/h
Steam consumers	1 iron	2 irons	2 irons	2 irons

Tab. 6: Boiler

	VEIT SG67 2.2 kW	VEIT SG67 4.4 kW	VEIT SG67-C 4.4 kW	VEIT SG67 6.6 kW
Connected load without irons	2.2 kW	4.4 kW	4.4 kW	6.6 kW
Water capacity until reaching the minimum water level	3.0 l	3.0 l	3.0 l	3.0 l
Total boiler volume	6.5 l	6.5 l	6.5 l	6.5 l
Pre-set operating pressure	3.5 - 4.0 bar / 0.35 -0.4 MPa	3.5 - 4.0 bar / 0.35 -0.4 MPa	2.5 - 5.0 bar / 0.25 -0.5 MPa	3.5 - 4.0 bar / 0.35 -0.4 MPa
Maximum operating pressure	7 bar / 0.7 MPa	7 bar / 0.7 MPa	7 bar / 0.7 MPa	7 bar / 0.7 MPa
Saturated steam capacity	2.8 kg/h	5.7 kg/h	5.7 kg/h	8.6 kg/h

3 Safety

3.1 Safety instructions

In these operating instructions, warnings and notes are indicated with a symbol and keyword.

The warning notes are structured hierarchically:

WARNING!

The keyword WARNING is used to alert you to imminent danger which may result in death or serious injury (personal injuries).

CAUTION!

The keyword CAUTION is used to alert you to possible hazardous situations which may result in death, serious or minor injuries (personal injuries), damage to the equipment or environment.

NOTICE!

Keyword NOTE

The keyword NOTE is used to give advice on the usage. Disregarding these notes may result in damage to the equipment, e.g. to the device or material.

3.2 Warning symbols and danger signs

On the device and in these operating instructions, the following designations or symbols are used for particularly important information:

WARNING!

Replacement of mains connection cable

Electric shocks may lead to death or serious injuries.

– The mains connection cable must only be replaced by a member of the VEIT service team or a person commissioned and instructed by VEIT!

WARNING!

Faults in electrical system

Electric shocks may lead to death or serious injuries.

– Faults in the electrical system must only be resolved by a qualified electrician!

WARNING!

Risk of burns

Symbol indicating **risk of burns** caused by hot steam and hot surfaces.

– In general, there is a risk of burns on the steam generator caused by hot steam and hot surfaces.
– Do not touch the steam valves on the upper side of the device.

WARNING!

– Do not direct the steam jet at persons. Risk of burns!
– Do not direct the steam jet at the device. Risk of damage to the electrics!

WARNING!

– In case steam escapes from the device, immediately stop the device and make sure the leak is removed properly.

  Please observe the notes on maintenance in ↳ *Chapter 8.1 „Maintenance and inspection table“ on page 36* of these instructions.

WARNING!

– Do NOT start up the steam generator when casings/covers are missing!

WARNING!

Prior to opening the device:

– Set the on/off switch to “0”.
– Set the switch for iron 1 and iron 2 to “0”.
– Unplug the connector of the mains connection cable.
– Allow the steam generator to cool down.
– Make sure that the steam generator is depressurised.

WARNING!

– Unplug the mains disconnecting device (unplug the connector of the mains connection cable) to switch off the steam generator in the event of danger.

CAUTION!

– When laying the mains connection cable make sure that it is optimally protected against mechanical damage and that there is no risk of tripping over!
– Make sure that the mains connection cable cannot contact any hot surfaces!

CAUTION!

– The mains disconnecting device is the connector of the mains connection cable. It must always be freely accessible! Direct connection without connector is not permissible!

CAUTION!

– The steam generator must only be operated with the voltage, current and frequency indicated in the operating instructions and on the type plate.

CAUTION!

– The steam generator must always be freely accessible.
– Do not cover the steam generator.

CAUTION!

– Prior to commissioning, the steam generator must be checked for visible damage - If damages are present, repairs/servicing must be arranged for immediately => Do NOT start up the steam generator!
– Prior to starting work, check the steam hoses for damages. Immediately replace used or porous hoses.

CAUTION!

– Only spare parts and accessories approved by VEIT may be used!

CAUTION!

– Unauthorised modifications to the product are not permitted. The manufacturer cannot be held liable for accidents/damages resulting from unauthorised modifications!

CAUTION!

– Blow-down must only be carried out by instructed personnel observing the specified safety instructions! ↳ *Chapter 8.2 „Blow-down“ on page 38*

CAUTION!

– Following blow-down, the ball valve must be closed again and locked using the locking strap!

CAUTION!

– Protect the machine against frost!

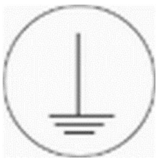
CAUTION!

Observe the following for automatic filling:

– Provide a shut-off valve in the water supply line in the building.
– Close the shut-off valve during interruptions of operation and after the end of operation.
– Regularly check that the connections are leak-proof and seated securely.

NOTICE!

Request to pay particular attention.



This symbol labels the connection points for the **protective conductor connection**.

Reference to external **operating instructions**.

3.2.1 Designation of the machine

	Address
Manufacturer	VEIT GmbH Justus-von-Liebig-Str. 15 D-86899 Landsberg am Lech Germany Phone +49 (8191) 479-0 Fax +49 (8191) 479-149 E-mail: info@veit.de www.veit-group.com

Service hotline

Germany:	+49 (8191) 479-133
Europe:	+49 (8191) 479-252
America:	+1 (770) 868 8060
Asia:	+852 2111 9795

Spare parts

Sales	+49 (8191) 479-176
Sales for textile care	+49 (8191) 479-129

3.3 Regulations

The built-in steam boiler of category I is produced according to TRD 801. According to article 1 (2) – f) of the pressure equipment directive 2014/68/EU this steam generator is not covered by the PED 2014/68/EU!

In the Federal Republic of Germany, these steam generators can be installed and operated without permission.

CAUTION!
In the Federal Republic of Germany, maintenance must be carried out by a “competent, authorised and instructed person”. (BetrSichV § 10 (Industrial Safety Regulation)).

Enclosed with the device you will find the certificate for the water pressure test and for the proper installation of the steam boiler unit.

The electrical equipment of the steam boiler complies with the relevant VDE-regulations. The local connection must be performed according to the regulations for technical connections of the authorised electric supply company.

3.4 Built-in safety systems

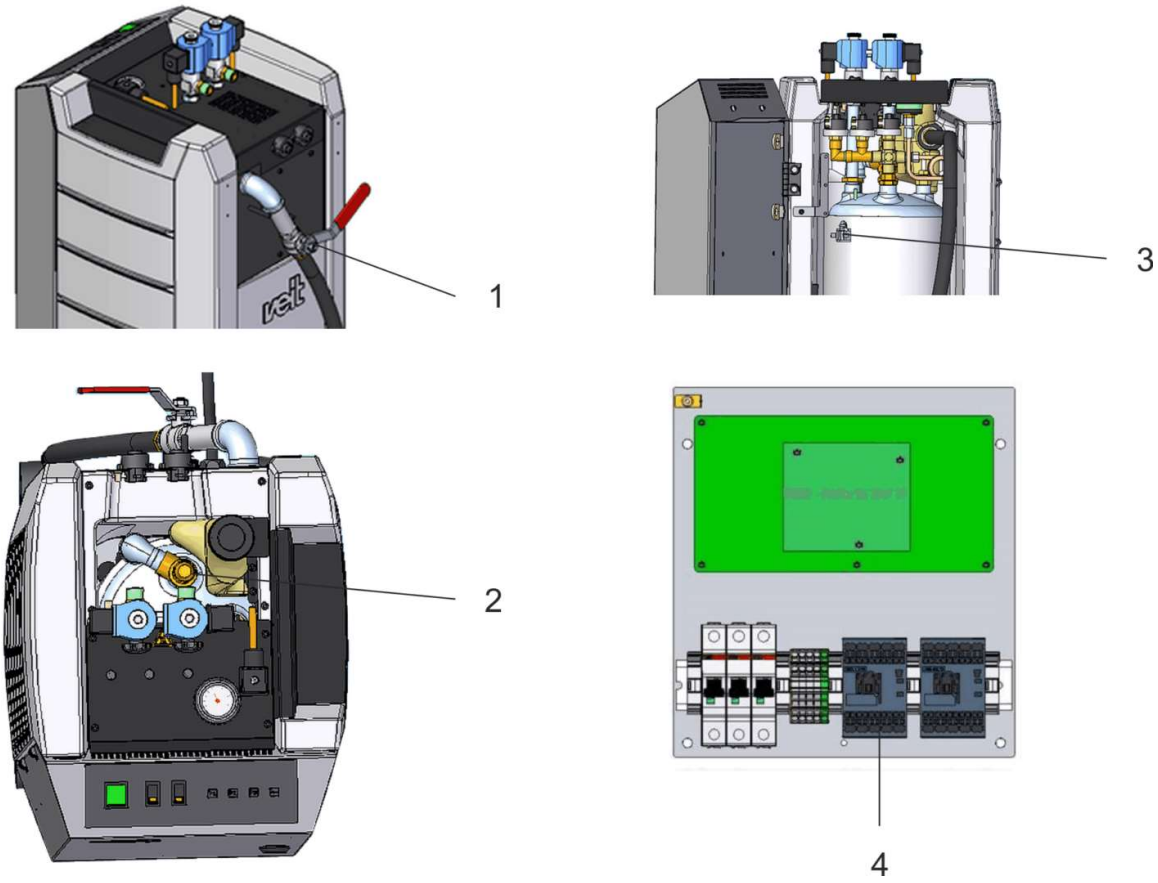


Fig. 4: Built-in safety systems

1 Locking strap for ball valve
2 Safety valve
3 Temperature limiter
4 Main contactor

Prior to commissioning, the safety systems must be checked as follows at the specified intervals.

Tab. 7: Interval

t	Every day
w	Every week
m	Every month
j	Every year

Tab. 8: Inspection

S	Visual inspection
F	Function check
M	Measurement

CAUTION!
Built-in safety systems
The built-in safety systems must only be checked/ replaced by a VEIT service engineer or by accordingly trained and instructed qualified personnel!

Pos.	Safety device	Interval	Inspection
1	**Locking strap for ball valve** All the steam ball valves are protected against unintentional opening using locking straps.	t	F
2	**Safety valve** A TÜV-certified safety valve is used to prevent the permissible operating pressure from exceeding 7 bar.	Every 6 months	F
3	**Temperature limiter** The temperature limiter protects the steam generator against incorrect heating. The temperature limiter is mounted on the boiler wall and switches off the heating element in the event of overheating (180°C).	Every 6 months	S
4	**Main contactor** **Note:** The main contactor K1 is not available on the 2.2 kW version.	Every 6 months	S

CAUTION!

Temperature limiter

After switching off, it is essential to search for the cause of interruption. Only after this may the limiter be replaced.

Pos.	Safety device	Interval	Inspection
	Pump runtime monitoring The pump runtime is monitored by the electronics. When a specified maximum time is exceeded, an audible signal is triggered. Switching the device off and back on again acknowledges the fault and restarts the pump runtime. The cause of the fault must be removed (see chapter "Remedy of faults/elimination of defects").		

CAUTION!

Operating instructions

These operating instructions are a part of the device and must be available to operating personnel at all times. The safety instructions they contain must be followed. It is strictly forbidden to take safety devices out of service or to modify their function.

3.4.1 Instructions

Operating and maintenance personnel will be instructed on site by personnel of VEIT GmbH unless otherwise agreed in the purchase contract.

In case of questions or uncertainties, please contact VEIT GmbH.

WARNING!

The operating company undertakes to introduce any new operating and maintenance personnel to the operation and maintenance of the device as well as to all safety instructions to the same extent and with the same care.

We recommend that operating and maintenance personnel attend appropriate training at VEIT. Please contact the VEIT service department for further information on training opportunities.

WARNING!

The device may only be operated and serviced by instructed personnel.

4 Potential dangers / residual hazards

WARNING!

– There is always a risk of burns caused by hot steam and hot surfaces.
– Keep your distance.
– Do not touch the steam and condensate lines.

WARNING!

Protect the device against frost.

CAUTION!

– Blow-down must only be carried out by instructed personnel observing the specified safety instructions!

WARNING!

SteamClean

– Avoid contact with eyes, skin, mouth and clothes.
– Wear personal protective equipment:
– Act **IMMEDIATELY** in the event of contact with eyes, skin or mouth:
  – Thoroughly rinse with water.
  – Additional first aid measures: see instructions on the VEIT SteamClean bottle and packaging.
  – Immediately contact a doctor.
– The substance must not enter the sewage system or waters.
– It is absolutely necessary to follow the safety instructions on the VEIT SteamClean bottle and packaging.

5 Installation

5.1 Setup

The device will be set up, assembled and installed by qualified personnel of VEIT GmbH or by qualified personnel provided by the customer.

- The device has to be set up on an even surface.
- An energy supply (electrical connection) must be available.
- Make sure that there is enough space around the device to carry out service and maintenance work.

NOTICE!

If the place of installation does not comply with the intended use, rebuilding measures must be taken to ensure a higher protection class (see chapter "Technical data").

5.2 Connections

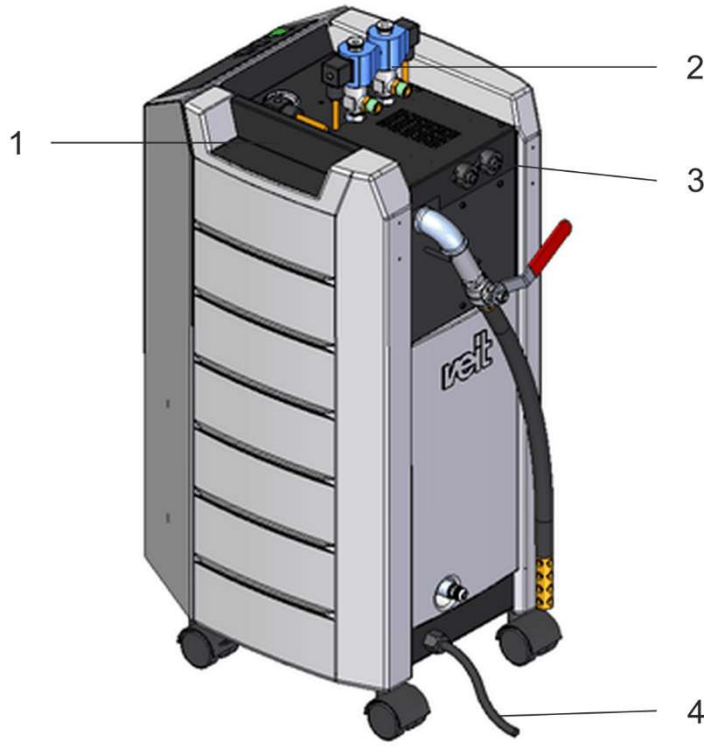


Fig. 5: Connections

1 Water filling opening
2 Steam connection for iron
3 Special small socket for iron
4 Power cable

Electrically heated irons

Connect the iron steam hoses with screw connections (3/8”) at the outputs of steam connection of iron (2). Connect the special small connector of the HD steam iron to special small socket of iron (3).

5.2.1 Power supply connection

WARNING!

Work on electric supply lines

Work on electric supply lines must only be carried out by a qualified electrician. Unplug the mains disconnecting device prior to opening the device. Danger to life!

The electrical connection and compliance of the specifications on the type plate of the device and the local power supply must be checked.

The device is designed to connect to a TN-S network. If a different network configuration is present, additional measures may be required! In this case, please contact the qualified electrician who is responsible for operation!

Connection to the mains must be protected on site. The regulations of the local distribution system operators (DSO) must be observed. Information on fusing can be found in the electrical connection data and in the circuit diagram.

When laying the mains connection cable make sure that it is optimally protected against mechanical damage and that there is no risk of tripping over!

Make sure that the mains connection cable cannot contact any hot surfaces!

WARNING!

Mains disconnecting device

The mains disconnecting device is the connector of the mains connection cable. It must always be freely accessible!

Unplug the mains disconnecting device to stop the device in the event of danger.

WARNING!

Fixed connection

Fixed connection (without connector) of the device is prohibited.

WARNING!

Modifications to the connector

Any person modifying the connector of the mains connection cable or replacing it with another connector is liable for proper clamping of the individual cable wires and for any adverse consequences.

According to European specifications, the individual wires of the mains connection cable are the following:

Tab. 9: Alternating current, 230 volts

Phase (L)	Brown or black
Neutral conductor (N)	Light blue
Protective conductor (PE)	Green/yellow

Tab. 10: Three-phase current, 400 volts

Phase (L1)	Brown
Phase (L2)	Black
Phase (L3)	Grey
Neutral conductor (N)	Light blue
Protective conductor (PE)	Green/yellow

5.2.2 Water supply

NOTICE!
The steam generator is suitable to be operated with normal, softened or distilled water. It is permissible to add the lime binding agent Lapidon at the dosage mentioned in *Chapter 6 „Commissioning“ on page 27*. VEIT will not accept liability for function and safety of the device when adding any other chemicals.

Only cold water must be used as the feedwater.

CAUTION!
Make sure that no liquids enter the device. If this is the case, switch off the steam generator and unplug the connector of the mains connection cable. The steam generator may only be started again if it is in a completely dry state.

CAUTION!
When using contaminated water, the filter or the 3/2-way valve in the door may be clogged. As a result the runtime of the pump becomes extremely long or the functions fail completely ⇨ Replace the filter, clean the valve.

5.2.2.1 Water supply via water storage tank

The housing of the SG67 steam generator also is the water storage tank which is filled manually.

To fill the tank, remove the cover (1) and fill in water.

Then place the cover (1) on the tank again ⇨ Protection against contamination of the feedwater.

CAUTION!
Make sure that no water is spilled on the upper side of the steam generator.

5.2.2.2 Water supply via direct water connection (automatic filling)

A direct water connection (article no. 152283) can be used as an option. In this way the steam generator is designed for direct connection to the water line.

In the event you ordered the direct water connection option (article no. 152283), proceed as follows:

1. Switch off the steam generator
2. Remove the cover (1) and mount the assembly for direct water connection. Tighten the two provided screws to 2 Nm and connect the valve reliably to a 3/8" water connection.
3. Unscrew the valve connector from the cover plate and connect it to the valve coil.

CAUTION!
Observe the following for automatic filling:

- Provide a shut-off valve in the water supply line in the building.
- Close the shut-off valve during interruptions of operation and after the end of operation.
- Regularly check that the connections are leak-proof and seated securely.

6 Commissioning

When commissioning the device, proceed as follows:

CAUTION!

When setting up the steam generator, the following must be ensured:

- The blow-down valve on the rear side of the device cannot be opened unintentionally.
- There is no risk of tripping over the connection cable, blow-down hose and blow-down tank.
- The steam vales cannot be touched accidentally.

1. Measuring the water hardness

   The lime in the water may lead to deposits in the boiler and heating elements and thus to system failures. To prevent this from happening, we therefore recommend using the lime binding agent Lapidon if the water hardness exceeds 10°dH (German water hardness). The lime binding agent binds the lime in the water. The lime is then removed from the boiler during blow-down.

   For a water hardness between 10 dH and 15 dH, one measuring cap of the provided lime binding agent Lapidon is added to the feedwater tank if it is completely filled. When exceeding 15 dH, two measuring caps need to be added.

CAUTION!

Measuring information on the bottle

Please ignore the measuring information on the bottle!

2. Fill the water storage tank with clean tap water or softened or distilled water prior to switching on the device.
3. Connect the device to the power supply.
4. Set the on/off switch to on.
5. Set the switch for the iron to on.

6.1 Filling, venting and heating

The pump fills the boiler. If the pump does not supply any water, the vent valve must be opened while the pump is running until water emerges. Then the valve must be closed again.

When the minimum water level in the boiler is reached, the heating elements are switched on.

The steam pressure in the boiler is indicated on the pressure gauge. When the working pressure is reached and the device has been initialised, the device is ready for supplying steam.

The next operating steps are performed automatically.

If the feedwater tank is almost empty, an audible signal indicates that the minimum will soon be reached and that water needs to be refilled.

6.2 Setting instructions for the water hardness (cleaning version)

Fig. 6: Setting instructions for the water hardness

Button	Hardness	Millimoles of calcium carbonate per litre	°dH
P1	Soft to moderately hard	< 1.5	< 8.4
P2	Hard	1.5 - 2.5	8.4 - 14
P3	Very hard	> 2.5	> 14

Setting instructions for the water hardness

Press the “clean” button for approximately two seconds immediately after switching on the on/off switch. Two audible beep signals indicate that the water hardness can now be set. Water hardness “hard” is preset by the manufacturer (LED P2 flashes). The required water hardness can be set by pressing the corresponding button.

Deactivating the cleaning function

Press the flashing button again to deactivate the cleaning function and to switch off all the LEDs.

Saving the values

Press the “clean” button for two seconds in order to save the values. Two audible beep signals indicate that the values have been saved successfully.

6.3 Setting instructions for the pressure levels (cleaning version)

The pressure level can be changed at any time during operation. Pressing the corresponding button (P1, P2 or P3) changes the pressure level temporarily. Pressing the button longer (2 seconds, approx.) changes the pressure level permanently. This means that the selected pressure level is also used when switching the device on the next time.

Button	Pressure level	Steam temperature
P1	3 bar / 0.3 MPa, approx.	130°C, approx.
P2	4 bar / 0.4 MPa, approx.	140°C, approx.
P3	5 bar / 0.5 MPa, approx.	150°C, approx.

6.4 Cover of feedwater tank

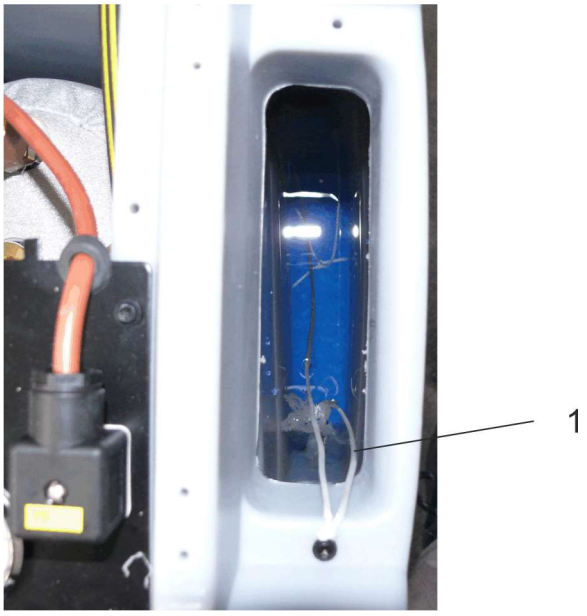


Fig. 7: Securing the cover of the feedwater tank

1 String

Secure the cover of the feedwater tank using the string (1), if required.

7 Operation

7.1 Controls and indicators

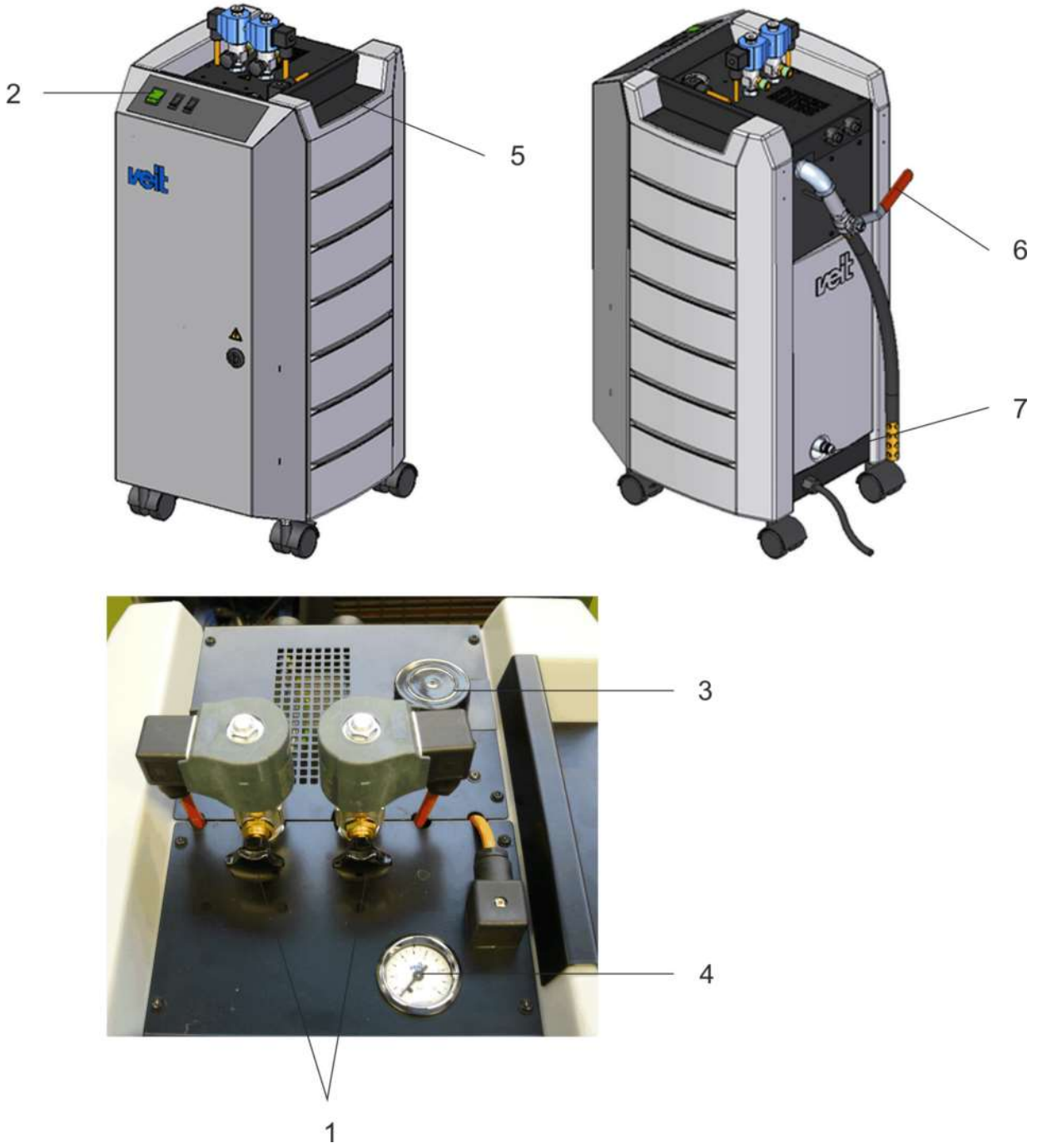


Fig. 8: Controls and indicators

1	**Adjusting the steam volume** Turning the handwheel adjusts the steam volume. VEIT recommends to open the handwheel by 90°.
2	**Control panel** ■ Standard version ↳ *Chapter 7.1.1 „Control panel on standard version“ on page 32* ■ Cleaning version ↳ *Chapter 7.1.2 „Control panel on cleaning version“ on page 33*
3	**Filling nozzle for VEIT SteamClean** VEIT SteamClean can be refilled via the filling nozzle, if required. For cleaning version only.
4	**Steam pressure** (pressure gauge) Displays the current boiler pressure.
5	**Water filling opening** Feedwater can be refilled via the water filling opening.
6	**Blow-down valve** When opening the blow-down valve, the blow-down water is discharged during blow-down.
7	**Vent valve** If the pump does not supply water, the vent valve must be opened to vent the pump.

7.1.1 Control panel on standard version

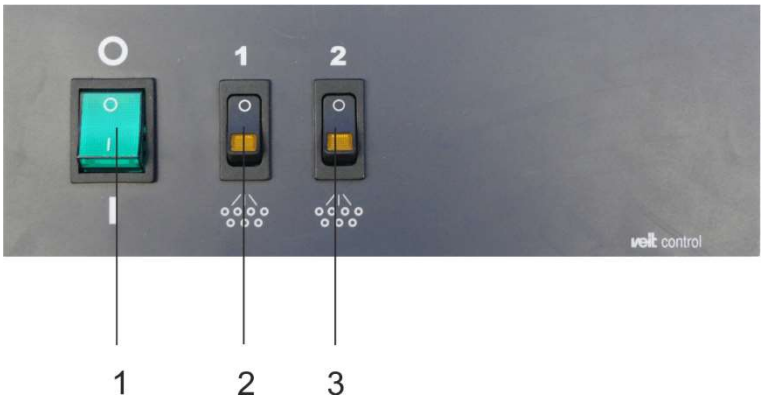


Fig. 9: Control panel on standard version

1	**On/off switch** Pressing the switch switches the device on/off.
2	**Switch for iron 1** Pressing the switch switches iron 1 on/off.
3	**Switch for iron 2** Pressing the switch switches iron 2 on/off.

7.1.2 Control panel on cleaning version

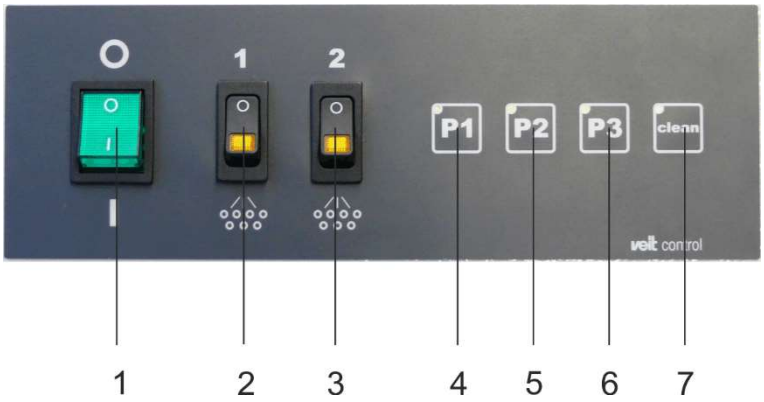


Fig. 10: Control panel on cleaning version

1	**On/off switch** Pressing the switch switches the device on/off.
2	**Switch for iron 1** Pressing the switch switches iron 1 on/off.
3	**Switch for iron 2** Pressing the switch switches iron 2 on/off.
4	**P1 button** Pressing the button activates the pressure level with 3 bar, 130°C, approx.
5	**P2 button** Pressing the button activates the pressure level with 4 bar, 140°C, approx.
6	**P3 button** Pressing the button activates the pressure level with 5 bar, 150°C, approx.
7	**Clean button** Pressing the button starts the the cleaning program.

7.2 Switching on the device

7.2.1 Standard version

- Switch on the device using the on/off switch.
- Two audible beep signals can be heard after approximately 5 seconds.
- The device is now ready to operate.

7.2.2 Cleaning version

- Switch on the device using the on/off switch.
- The device performs a self-test. The LEDs light up in various combinations.
- Two audible beep signals can be heard after approximately 5 seconds.
- The device is now ready to operate.

7.3 Switching off the device

- Switch off the device using the on/off switch.
- Switch off the iron switch(es).

8 Maintenance and cleaning

WARNING!

Prior to opening the device:

- Set the on/off switch to “0”.
- Set the switch for iron 1 and iron 2 to “0”.
- Unplug the connector of the mains connection cable.
- Allow the steam generator to cool down.
- Make sure that the steam generator is depressurised.

WARNING!

SteamClean

- Avoid contact with eyes, skin, mouth and clothes.
- Wear personal protective equipment:
- Act **IMMEDIATELY** in the event of contact with eyes, skin or mouth:
  - Thoroughly rinse with water.
  - Additional first aid measures: see instructions on the VEIT SteamClean bottle and packaging.
  - Immediately contact a doctor.
- The substance must not enter the sewage system or waters.
- It is absolutely necessary to follow the safety instructions on the VEIT SteamClean bottle and packaging.

8.1 Maintenance and inspection table

Inspection and maintenance schedule			
Interval	**Part to be inspected**	**Work to be carried out**	**Remarks**
Every day	Safety devices	Function check	
	Boiler	Blow-down (only for standard version)	
	Ball valves	Leak test	Check and replace, if necessary.
	■ Pressure gauge ■ Pressure regulator	Function check	Check and replace, if necessary.
	Steam hoses	Check for damages	Replace defective steam hoses.
Every 6 months	Safety valve	Function check	Check and replace, if necessary.
	Steam valve	Leak test	Check and replace, if necessary.
	All hoses	Check for damages	Replace defective hoses.
	Connection cable	Check for damages	Replace defective connection cable.
Every year	All connections and components	Leak test	Check and replace, if necessary.
		Corrosion on mounting clamps	Check and replace, if necessary.
		Tightness	Check and replace, if necessary.
	All function parts: ■ Pressure gauge ■ Pressure regulator ■ Safety valve ■ Check valve	Function check	Check and replace, if necessary.
	■ Inside of boiler ■ Electrode ■ Heating elements	■ Check for contamination ■ Check for lime deposits	tions. deposits.
	■ Filling assembly ■ Blow-down assembly	■ Check for contamination ■ Check for corrosion	tions.
	■ Filling nozzle ■ Blow-down nozzle	Check for lime residue	Check and clean, if necessary.

CAUTION!

Safety valve

VEIT recommends that the safety valve be replaced every year.

NOTICE!

Spare parts

– If defects are detected, original VEIT spare parts must be used.
– For safety reasons, the blow-down hoses must only be replaced by original VEIT spare parts.

8.2 Blow-down

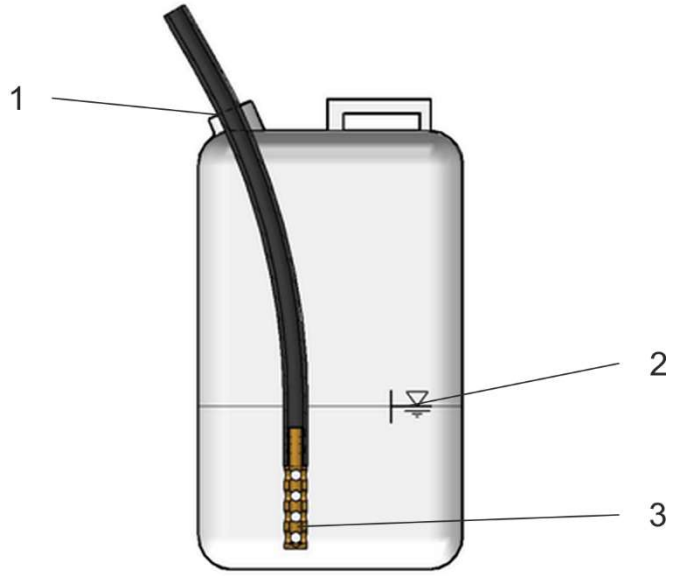


Fig. 11: Position of the blow-down tank during blow-down

1 Screw cap
2 Marking
3 Diffuser

CAUTION!
Risk of burns!
Incorrect blow-down poses a risk of burns. The following safety measures must be performed in a controlled manner prior to every blow-down process:

- Only use original VEIT blow-down tank.
- Check blow-down tank and blow-down hose for visible damage.
  In the event of damages, replace the tank and/or hose.
  Do **NOT** start the blow-down process.
- The blow-down tank must be filled with cold water up to the mark.
- The cover of the blow-down tank must be fixed between the two stainless steel clamps.
- The holes in the diffuser must be free from any lime deposits and contamination.
- The diffuser must be inserted in the tank as close as possible to the bottom.
- The screw cap must be tightly screwed onto the tank.

» Continued on the next page

- The vent holes of the blow-down tank must not be blocked.
- The blow-down ball valve must be opened slowly.
- Wear safety gloves during blow-down.

Following blow-down:

- The ball valve must be closed again immediately. Otherwise, negative pressure causes the blow-down water to be sucked in again.
- The ball valve must necessarily be secured using the locking strap if it does not snap in automatically.

CAUTION!

Hot water must not directly enter the sewage system. The local regulations for the maximum permissible waste water temperature must be observed. If necessary, the waste water of the steam generator must be allowed to cool down or must be cooled down actively.

Workflow

1. Fill the provided blow-down tank with cold water until reaching the mark.
2. Position the blow-down tank vertically behind the device.
3. Insert the blow-down hose with the diffuser in the tank and tighten the screw cap.
4. For **standard version** only: set the on/off switch to off.

> **NOTICE!**
> **Cleaning program**
> The device remains switched on during the cleaning program.

5. Slowly open the blow-down ball valve in order for the hot water running out to mix with the cold water from the blow-down tank.
6. If the pressure gauge no longer indicates any pressure, the blow-down valve is closed.

> **NOTICE!**
> Make sure that the blow-down ball valve is secured by means of the locking strap.

7. For standard version only: set the on/off switch to on again. The boiler will be filled. Then switch off the steam generator using the on/off switch.

> **NOTICE!**
> **Cleaning program**
> The steam generator remains switched on during the cleaning program (automatic running of the cleaning process).

8. The water from the blow-down tank is poured away.

> **CAUTION!**
> Hot water must not directly enter the sewage system. The local regulations for the maximum permissible waste water temperature must be observed. If necessary, the waste water of the steam generator must be allowed to cool down or must be cooled down actively.

8.3 Cleaning program (cleaning version)

WARNING!
SteamClean

- Avoid contact with eyes, skin, mouth and clothes.
- Wear personal protective equipment:
- Act **IMMEDIATELY** in the event of contact with eyes, skin or mouth:
  - Thoroughly rinse with water.
  - Additional first aid measures: see instructions on the VEIT SteamClean bottle and packaging.
  - Immediately contact a doctor.
- The substance must not enter the sewage system or waters.
- It is absolutely necessary to follow the safety instructions on the VEIT SteamClean bottle and packaging.

When the “clean” LED starts flashing more frequently and finally flashes quickly (including a short audible signal), the steam generator needs to be cleaned.

The audible signal can be switched off by shortly pressing the “clean” button. When switching on the device the next time, the audible signal sounds again until the cleaning process has been executed successfully.

NOTICE!
Be aware that the cleaning program cannot be stopped once it has started!

Proceed with the steps and instructions as follows:

1. Fill the feedwater tank.

   This step can be omitted if the feedwater tank is filled automatically.

2. Press the “clean” button for 5 seconds to acknowledge flashing. In this way, the cleaning process can be started at any time even if the LED is not on or not flashing.
3. Press the “clean” button again to start the cleaning program. The steam generator heats up to pressure level P1. If the pressure is higher than the pressure at pressure level P1, two repeated audible and visible signals indicate that blowdown can be performed.

NOTICE!

Blow-down

Workflow and safety instructions *Chapter 8.2 „Blow-down“ on page 38*

4. Following blow-down (pressure gauge no longer indicates any pressure), the blow-down ball valve is closed.

5. **NOTICE!**

   Make sure that the blow-down ball valve is secured by means of the locking strap.

6. Press the “clean” button to acknowledge blow-down and proper closing of the ball valve.

7. Three audible and visible signals indicate that the cleaning agent can be filled in.

8. Remove the cover of the cleaning tank and fill VEIT Steam-Clean (article number 152681) in the cleaning tank observing the notes indicated on the bottle. The VEIT SteamClean bottle is secured by means of an aluminium strap which is pierced using the mandrel inside the cleaning tank. To enlarge the opening, pierce the strap and rotate the bottle slightly on the mandrel. Make sure that all of the cleaning agent flows into the tank. Then remove the bottle and close it with the cover. Be careful and read the notes on the packaging carefully.

9. Close the cleaning tank only after the pump runtime has elapsed.

   Press the “clean” button to acknowledge that you have filled VEIT SteamClean into the cleaning tank. SteamClean and water will be pumped into the boiler. Close the cleaning tank with the cover after the pump runtime has elapsed. After approximately 3 - 5 seconds the pumping process is completed. The active cleaning phase then automatically starts. This step takes about 20 minutes. LEDs P1, P2 and P3 indicate the process of the cleaning cycle. The cleaning cycle is complete if all the three LEDs are on. The steam generator then automatically heats up to pressure level P1 (LEDs “P1” and “clean” are flashing).

10. Two audible and visible signals indicate that pressure level P1 has been reached. Blow down the steam generator. Observe the blow-down instructions in chapter *Chapter 8.2 „Blow-down“ on page 38*. Press the cleaning button to con- firm blow-down and proper closing of the ball valve.

    This will complete the cleaning program.

11. The steam generator has now been cleaned. The device fills the boiler with water and heats up to the relevant pressure level. The device is ready to operate again.

NOTICE!

In general, the following applies:

– 2 x flashes/beeps: blow-down
– 3 x flashes/beeps: fill in cleaning agent

8.4 Maintenance of the boiler

Remove the flange cover for maintenance of the boiler.

Clean the electrode and heating elements inside the boiler from contamination and lime deposits.

NOTICE!

When mounting the flange cover, a new seal must be used.

8.5 Maintenance of the feedwater tank

8.5.1 Emptying the feedwater tank

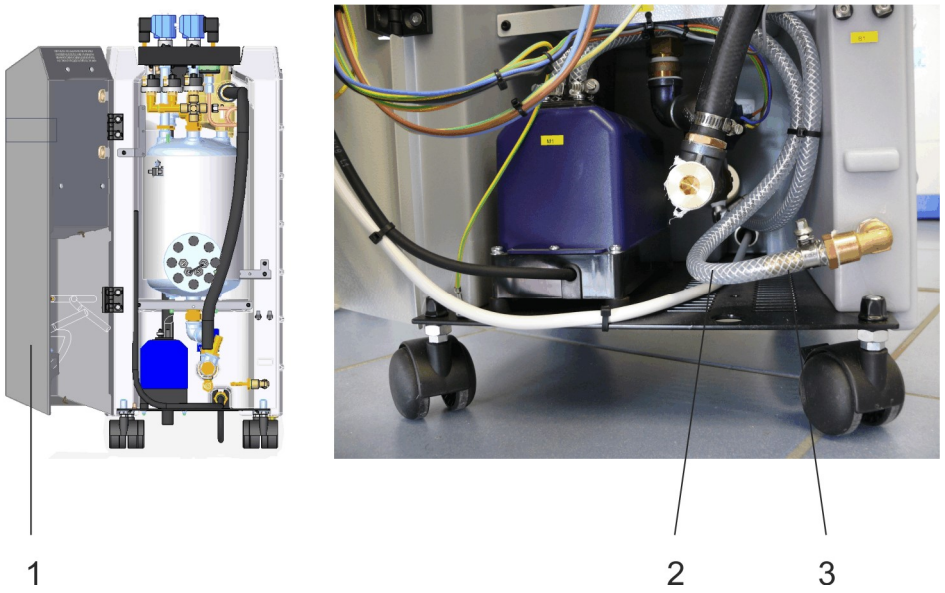


Fig. 12: Emptying the feedwater tank

1 Door
2 Hose
3 Hose nozzle

To empty the feedwater tank, proceed as follows:

- Open the door (1).
- Place a suitable container below the hose nozzle (3) of the feedwater tank.
- Remove the hose (2).
- Allow the feedwater tank to be emptied.
- Tilt the steam generator to also drain the feedwater from the opposite chamber.
- If the feedwater tank is empty replace the hose (2) on the hose nozzle (3).
- Close and lock the door (1).

8.5.2 Replacing/cleaning the filter of the feedwater tank

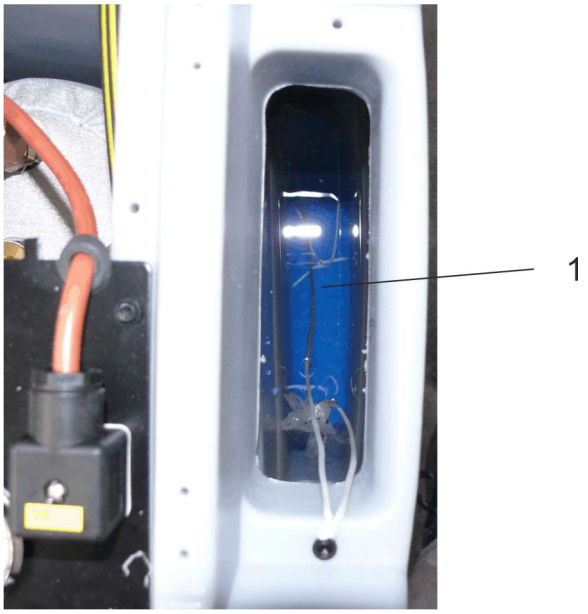


Fig. 13: Replacing_cleaning the filter of the feedwater tank

1 Filter

To replace/clean the feedwater tank, proceed as follows:

- Empty the feedwater tank *Chapter 8.5.1 „Emptying the feedwater tank“ on page 44*.
- Remove the cover of feedwater tank.
- Remove the filter (1) from the feedwater tank.
- Replace or clean the filter (1).
- Insert the filter (1) in the feedwater tank. Make sure that the filter rests on the bottom of the feedwater tank.
- Close the feedwater tank using the cover of the feedwater tank.

9 Remedy of faults/elimination of defects

CAUTION!

The facts and information listed as **faults** in this chapter are described in such a way that they may be eliminated by an instructed person.

If a fault cannot be remedied, a **qualified person** must be informed.

These members of personnel must be provided with the necessary tools and test equipment.

Before starting maintenance and repair work, the shutdown procedures have to be carried out.

If the remedial measures described here are not successful, please contact the VEIT GmbH service department.

WARNING!

Prior to opening the device:

- Set the on/off switch to “0”.
- Set the switch for iron 1 and iron 2 to “0”.
- Unplug the connector of the mains connection cable.
- Allow the steam generator to cool down.
- Make sure that the steam generator is depressurised.

WARNING!

SteamClean

- Avoid contact with eyes, skin, mouth and clothes.
- Wear personal protective equipment:
- Act **IMMEDIATELY** in the event of contact with eyes, skin or mouth:
  - Thoroughly rinse with water.
  - Additional first aid measures: see instructions on the VEIT SteamClean bottle and packaging.
  - Immediately contact a doctor.
- The substance must not enter the sewage system or waters.
- It is absolutely necessary to follow the safety instructions on the VEIT SteamClean bottle and packaging.

9.1 Fault, cause, remedy

CAUTION!
The facts and information listed as **faults** in this chapter are described in such a way that they may be eliminated by an **instructed person**. If a fault cannot be remedied, a **qualified person** must be informed.

Fault	Cause	Remedy
Single regular audible beep signal	Water level in feedwater tank has reached the minimum	The fault can be suppressed for two minutes by pressing the “clean” button.
		The fault is removed by filling water in the feedwater tank.
Short audible beep signal at intervals of 10 s	Blow-down of device required	This signal can be suppressed until switching the device on the next time by pressing the “clean” button.
		Perform blow-down of cleaning version.
Special audible signal (3 x short, 3 x long, 3 x short)	Fault in the pump circuit Information: This fault occurs when the max. pump runtime has been exceeded which is required to fill the boiler up with fresh water.	
	Feedwater tank empty	Top up feedwater tank
	Air bubbles inside the suction hose	Vent
	Water fill valve (solenoid valve) defective, clogged	Clean, repair and replace, if necessary
	Check valve defective	Replace
	Filling line clogged	Clean
	Pump defective (pump cannot overcome the boiler pressure)	Replace
		The fault is automatically acknowledged by switching the on/off switch off and on again.
	Pump does not start after fault acknowledgement	Search for the fault in the electrical circuit of the pump.
Safety valve opens shortly after switching-on	Ball valve of blow-down assembly leaking	Replace ball valve

Fault	Cause	Remedy
Boiler is overfilled caused by vacuum build-up	The pressure has risen too fast because the boiler has not been vented during heating-up.	Activate the pressure switch of the iron.
	Overfilling during normal operation	
	Cable leading to electrode defective	Check and replace, if necessary
Heating element cannot be switched on	Pressure regulator line interrupted	Check the line
	Electric line leading to heating defective	Check cable
	Contactor defective	Replace contactor
	Heating element defective	Replace heating element
	Electronics defective	Replace PCB
	Fill level detection defective	Replace fill level detection
Pressure drop in the boiler	Water level regulator defective	Replace PCB
	Heating element defective	Replace heating element
	Blow-down valve leaking	Replace ball valve
	Temperature limiter defective	Replace temperature limiter and determine the cause
	Contactor defective	Replace contactor
Ball valve of blow-down assembly leaking During interruptions of operation (e.g. overnight), leaking of the ball valve may cause soaking and overfilling of the boiler due to vacuum build-up.	Ball valve leaking	Remove and clean ball valve; replace, if necessary
	Water is dripping out of the ball valve -> stuffing box leaking	Remove control lever of the valve and re-tighten stuffing box at the hexagon screw (size 13 wrench). **ATTENTION!** Make sure the locking strap is in the correct position. When the ball valve is closed, the locking strap must prevent the valve from being opened unintentionally.
Iron delivers water	Too much Lapidon in the boiler Overdosage of Lapidon leads to foaming of water. Therefore, water can be carried away during steam extraction.	Use the dosage specified in the operating instructions.
	Iron defective (heating)	Check and replace, if necessary.
	Solenoid valve leaking	Check and replace, if necessary.

Fault	Cause	Remedy
	Error during blow-down: If blow-down is done incorrectly or insufficiently, salts may be concentrated in the water. Therefore, foaming can occur in the water, and water can be carried away during steam extraction.	Blow down the device every day according to the operating instructions.
	Boiler sucked up caused by vacuum build-up.	Blow down.
	Fill level detection defective	Replace fill level detection

9.2 Defect, cause, remedy

CAUTION!

The facts and information listed as **defects** in this chapter are described in such a way that they may be eliminated by a **person qualified** in

– Electrics/electronics
– Mechanics/maintenance

.

The device components mentioned in the "Cause" column are detailed in the supplied electric circuit and pneumatic diagrams.

Defect	Cause	Remedy
Operating pressure too low	Safety valve leaking	Check and adjust, if necessary. Operating pressure for standard version 4 bar, max. Operating pressure for cleaning version 5 bar, max.
Boiler is being overfilled	Electrode dirty	If yes: Remove electrode and check for soiling (dirt, lime, rust); clean electrode, if necessary. Used electrodes need to be replaced.

10 Spare parts

CAUTION!
Please note that only accessories and spare parts from VEIT GmbH may be used. VEIT GmbH cannot be held liable for damages resulting from using non-genuine accessories and non-genuine parts.

For all enquiries or orders in writing or on the phone, please always quote:

- Type of machine (see cover)
- Machine number
- Article number

10.1 Spare parts lists

Article number	Steam generator
150042	Steam generator SG67 2.2 kW / 230 V / 50 - 60 Hz
150000	Steam generator SG67 4.4 kW / 230 V / 50 - 60 Hz
149801	Steam generator SG67 6.6 kW / 230 V / 50 - 60 Hz
150044	Steam generator SG67-C 4.4 kW / 230 V / 50 - 60 Hz
154284	Steam generator SG67-TC 2.2 kW / 230 V / 50 - 60 Hz

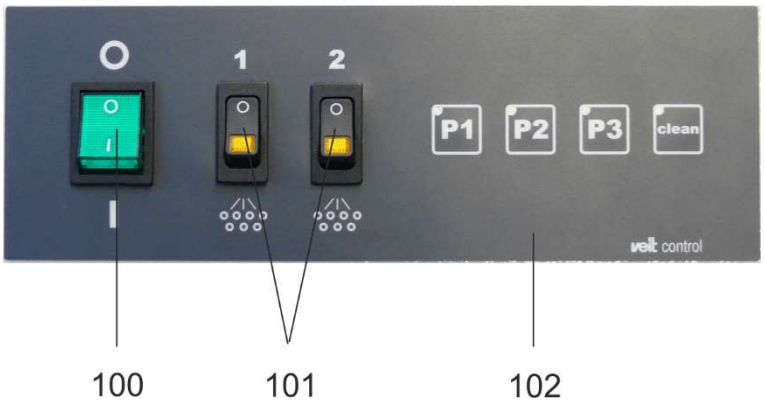


Fig. 14: Control panel (spare part)

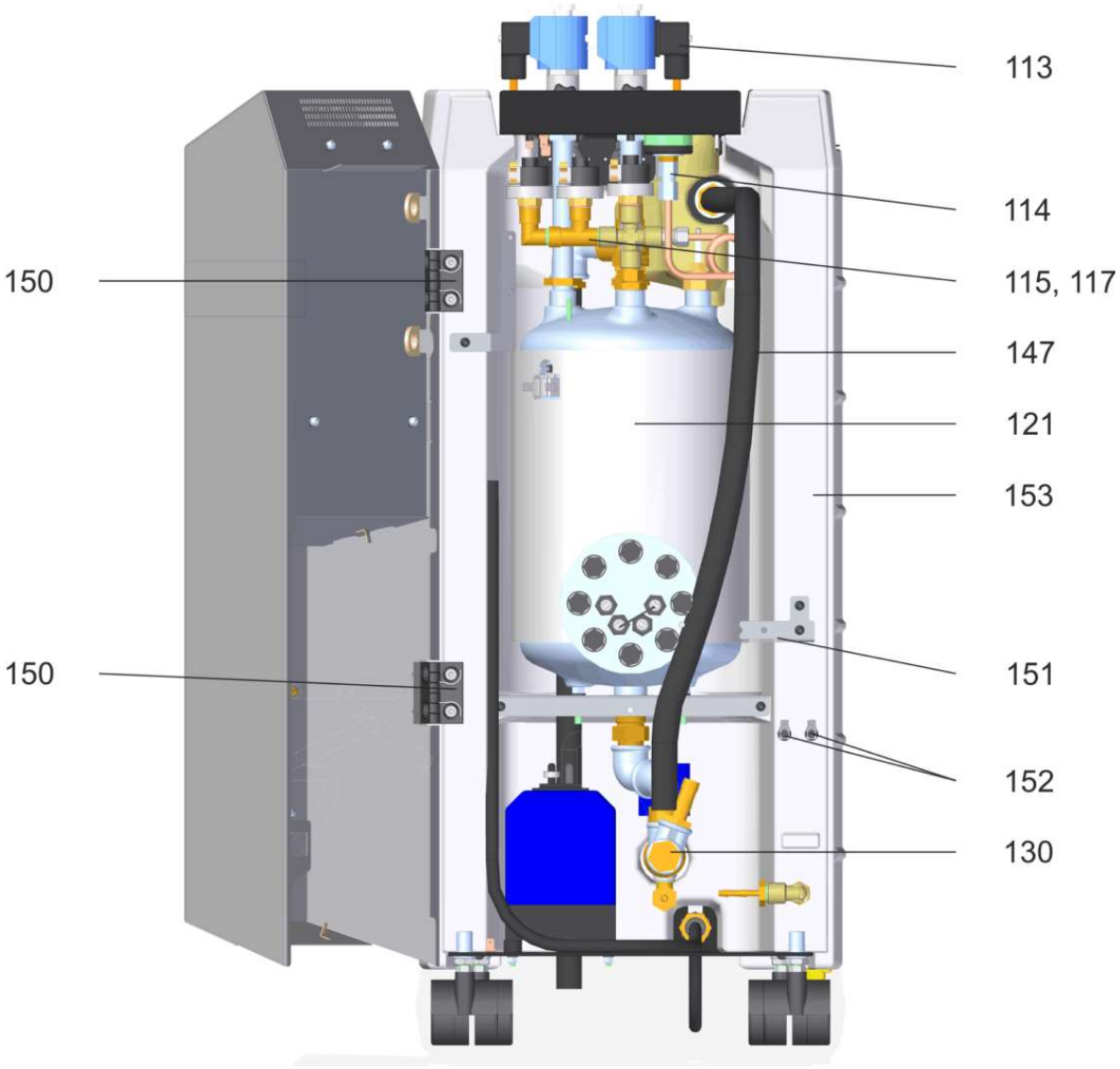


Fig. 15: Device overview – spare parts inside the device

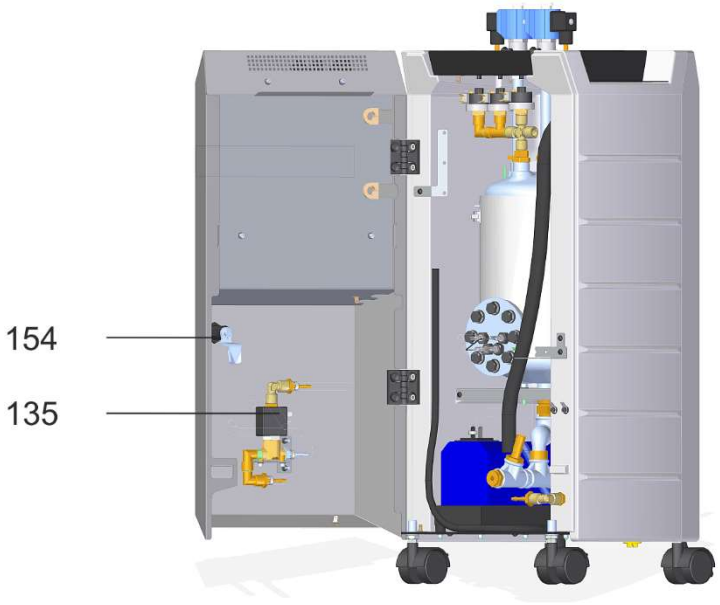


Fig. 16: Device overview – spare parts on the inside of the door

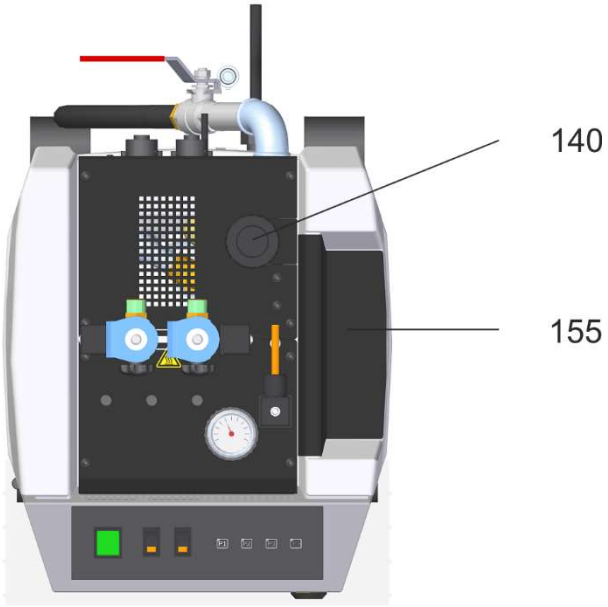


Fig. 17: Device overview – spare parts on the upper part of the device

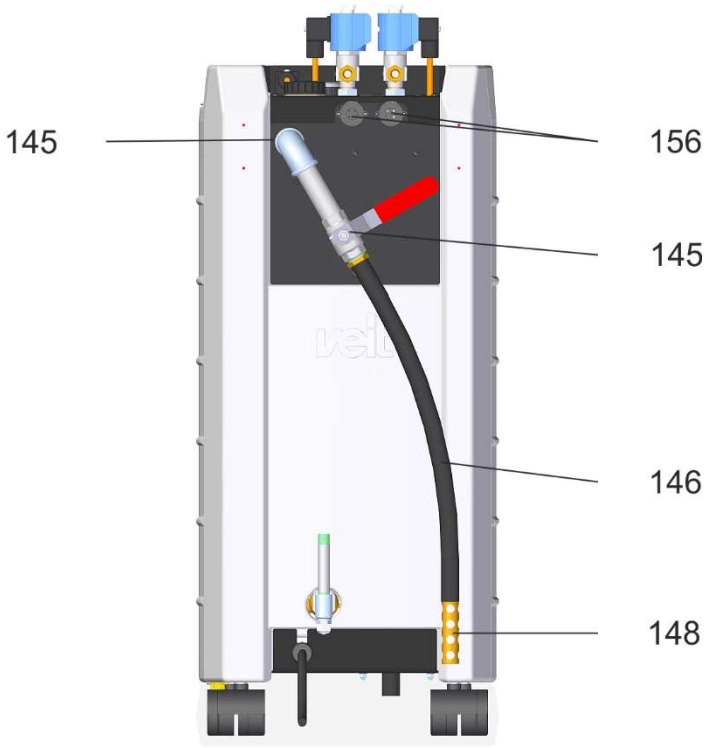


Fig. 18: Device overview – spare parts on the rear side of the device

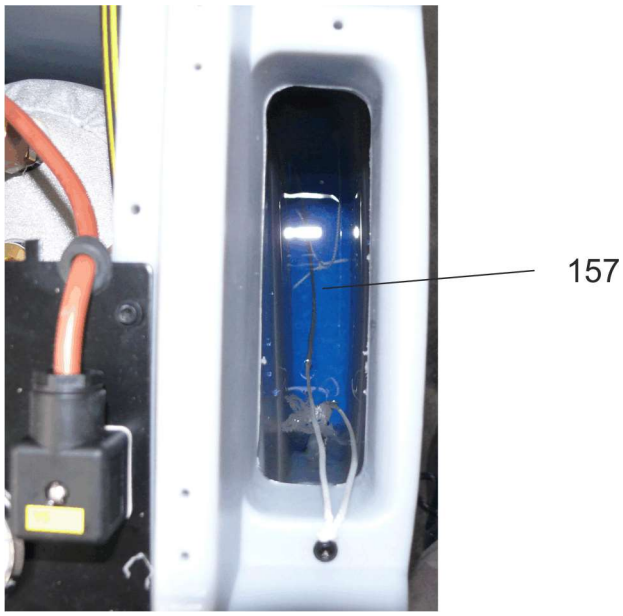


Fig. 19: Spare part: filter for feedwater tank

Pos. 110, spare part: valve, complete

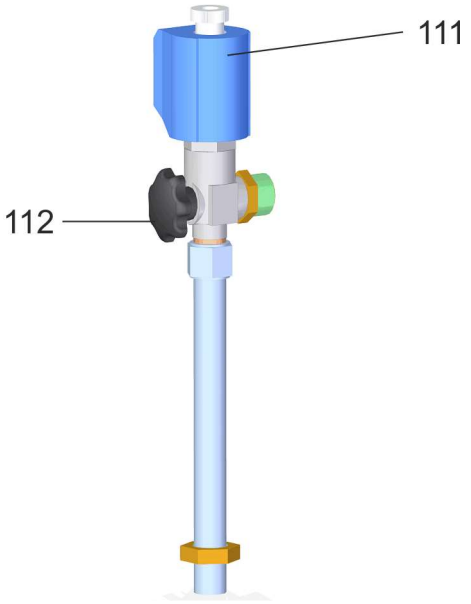


Fig. 20: Spare part: valve

Pos. 114, spare part: pressure gauge assembly

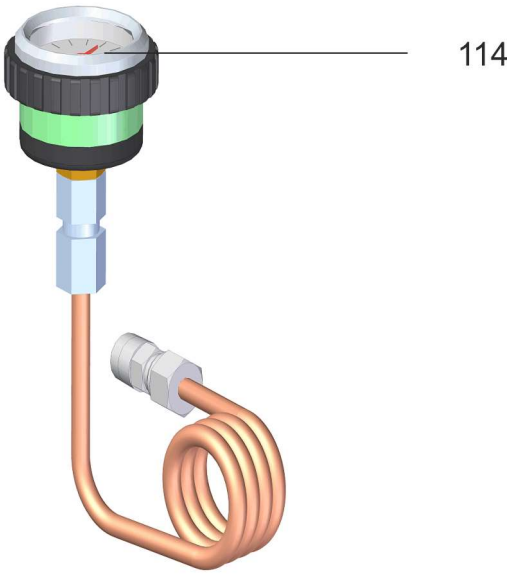


Fig. 21: Spare part: pressure gauge assembly

Pos. 115, 117, spare part: pressure assembly

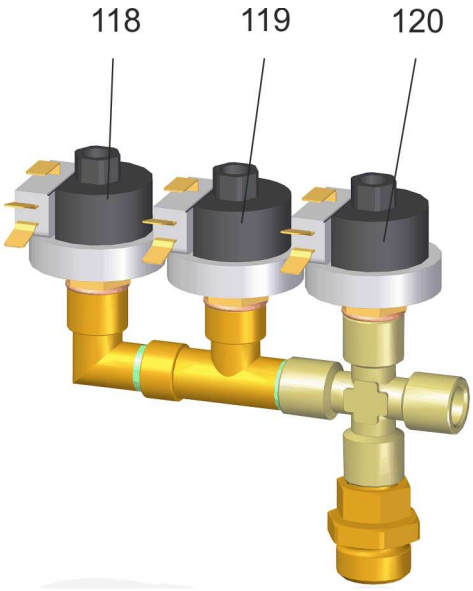


Fig. 22: Spare part: pressure assembly

Pos. 121, spare part: boiler

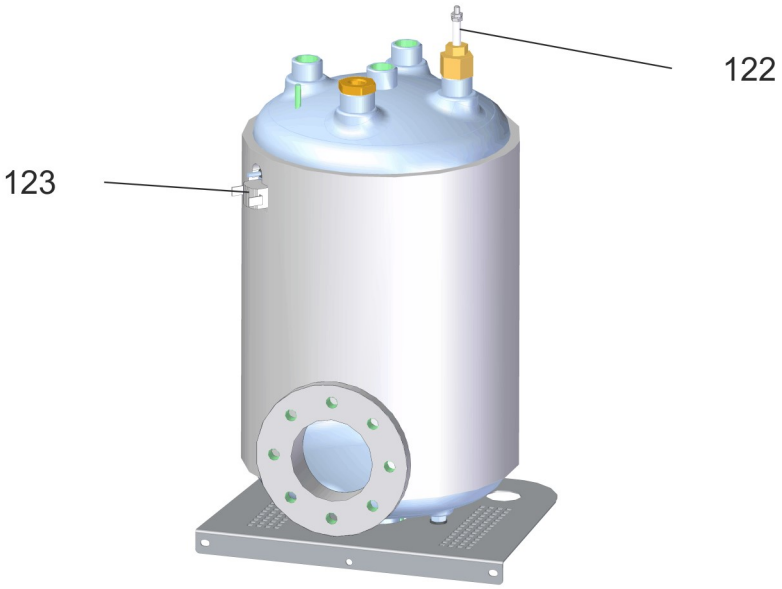


Fig. 23: Spare part: boiler

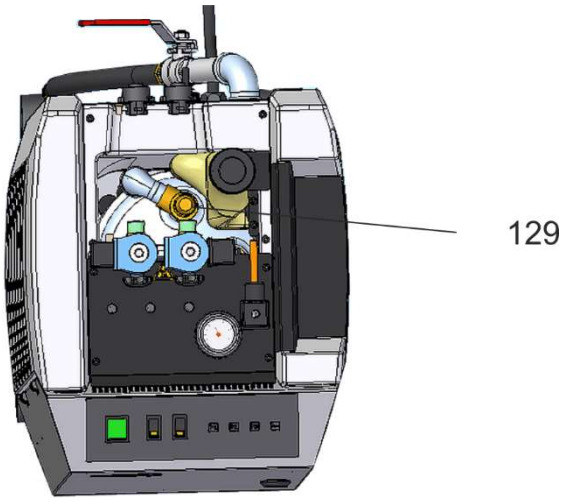


Fig. 24: Spare part: safety valve

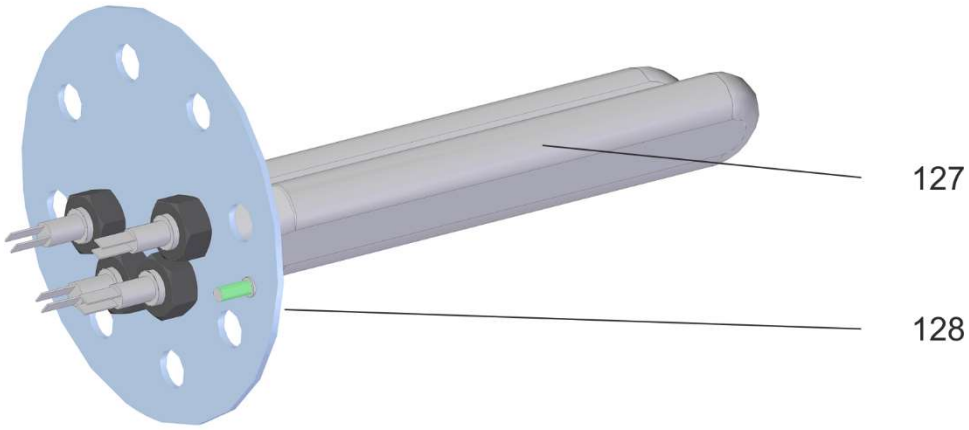


Fig. 25: Replacement heating, complete

Pos. 130, spare part: blow-down filling assembly

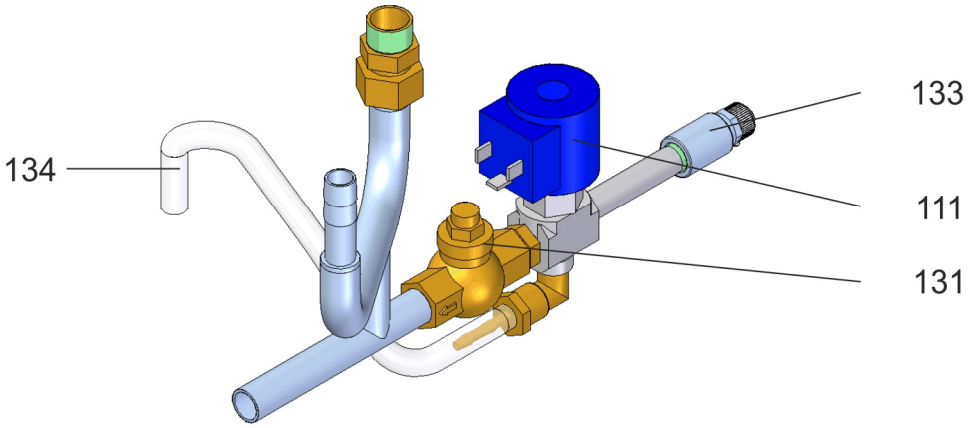


Fig. 26: Spare part: blow-down filling assembly

Pos. 135, spare part: blow-down filling assembly for cleaning version

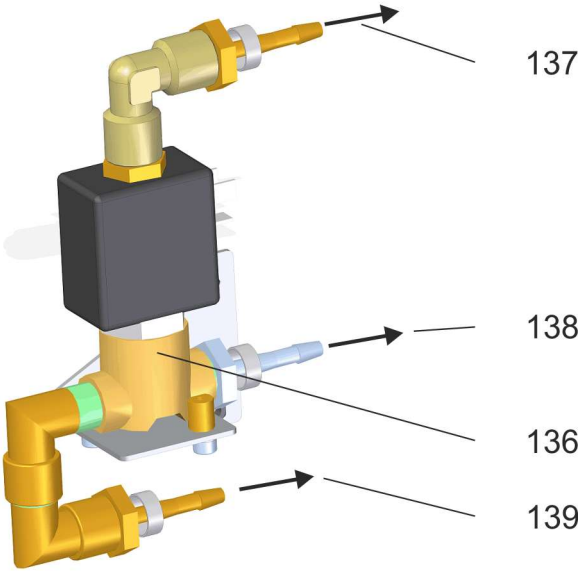


Fig. 27: Spare part: blow-down filling assembly for cleaning version

Pos. 140, spare part: cleaning tank

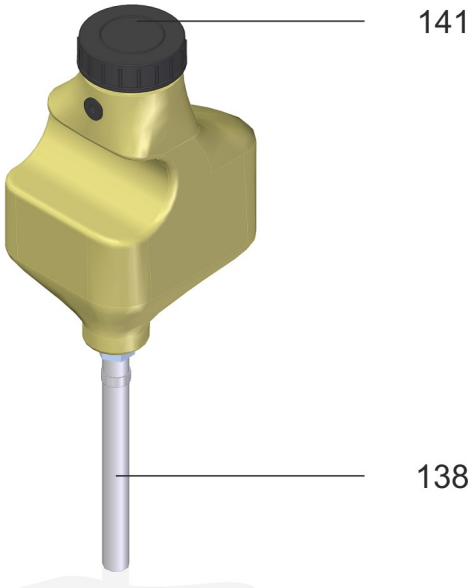


Fig. 28: Spare part: cleaning tank

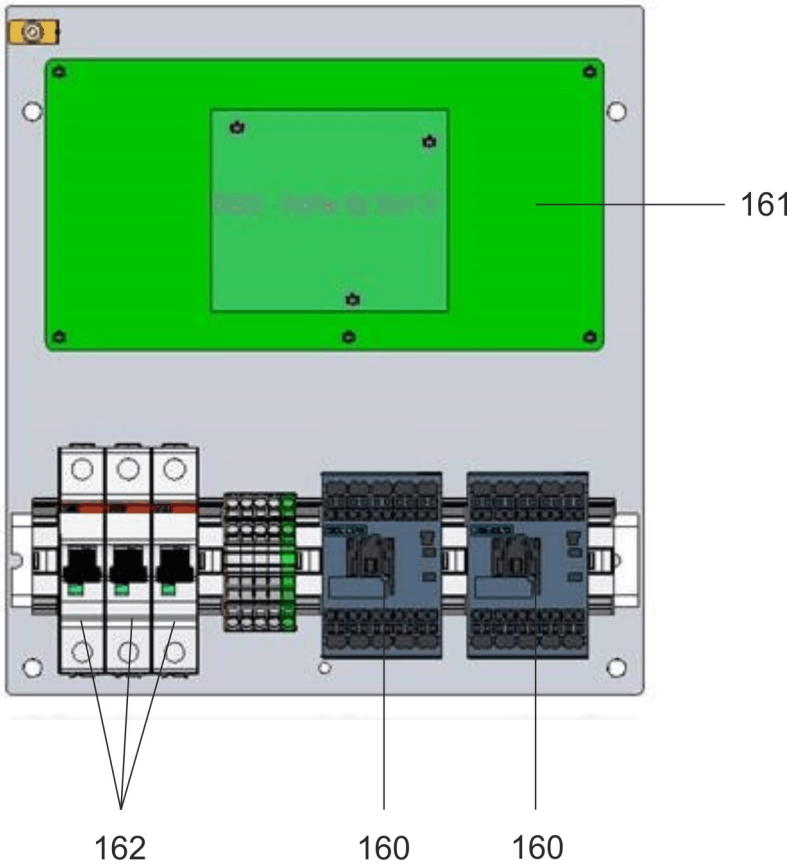


Fig. 29: Spare part: mounting plate

Tab. 11: Spare parts

Position	Article number	Designation	Identifier on circuit diagram
100	4791450010	Appliance switch, green rocker	S1
101	9290650540	Off switch with yellow indicator lamp	S2/S3
102	150571	Operating foil Cleaning SG67 For cleaning version only	
111	9290650180	EMV I, single, NW 2.8 200 - 254 V	Y1/Y2/Y3/Y5
	9290650610	EMV I, NW 2.8 WITHOUT SPINDLE	Y1/Y2/Y3/Y5
	423323018G	Plunger, complete (3 pcs.)	Y1/Y2/Y3/Y5
	4283210000	Coil 200 - 254 V / 50 - 60 Hz	Y1/Y2/Y3/Y5
	4233230130	Stuffing box + spindle + sealing	Y1/Y2/Y3/Y5
112	4282010090	Rotary switch / solenoid valve	Y2/Y3
113	4280310070	3-pos. cable socket	Y2/Y3/Y5
114			
	154660	Spare part: pressure gauge assemply SG67	
	9290650150	Pressure gauge 0 - 10 bar, dm 40 R1/8	
	9412010010	Straight screw fitting (GEV) 6 mm x R 1/4	
	9412010500	Straight screw-on fitting (GAV) 6 mm x R 1/8	
115	154672	Spare part: pressure assemply SG67	
119	151352	Pressure controller 3.5 - 4 bar	N2
		Spare part: pressure assemply SG67 3 pressure ranges	
117	154661	Pressure controller 2.5 - 3 bar	
118	151351	Pressure controller 3.5 - 4 bar	N1
119	151352	Pressure controller 4.5 - 5 bar	N2
120	151353		N3
121			
	154669	Spare part: boiler assemply SG67	
122	4236510130	Electrode M14 l = 190 mm	B1

Position	Article number	Designation	Identifier on circuit diagram
123	153329	Temperature limiter / heat stop	FT1
129	130536	Safety valve	
127	4236560120	Heating "LONG" 2,2 kW/230V Spare part with sealing	
128	4236540240	Seal for heating flange, 11 mm	
	125966	Screw set	
130	154668	Spare part: Blow-down & filling assembly SG67	
131	4310020190	Check valve R 3/8	
133	4231270030	Vent valve 1/4	
134	9270530040	Hose PVC with inlay Dm 6x3	
	2191110040	Hose clamp 8-12 mm Zn	
	9290650610	EMV I, NW 2.8 WITHOUT SPINDLE	
135	154671	Spare part: blow-down filling assembly for cleaning version	
136	153247	3/2-way solenoid valve	Y4
137	9270530040	Hose PVC with inlay Dm 6x3	
	2191110040	Hose clamp 8-12 mm Zn	
138	111365	High pressure hose tefloncore	
	2191110040	Hose clamp 8-12 mm Zn	
139	9270530040	Hose PVC with inlay Dm 6x3	
	2191110040	Hose clamp 8-12 mm Zn	
140	154663	Spare part: cleaning tank SG67	
138	111365	High pressure hose tefloncore	
	2191110040	Hose clamp 8-12 mm Zn	
141	151068	Cover for cleaning tank	
145	154662	Spare part: Ball valve SG67	
146	9270530020	Hose 1/2'', rubber	
147	2311110020	Hose clamp 12-20 mm V2A	

Position	Article number	Designation	Identifier on circuit diagram
148	4236520180	Diffusor/add-on kit	
150	149918	Hinge	
151	149756	Locking plate for door lock	
152	154664	Spare part: water level measurement for tank SG67	
153	149797	Housing	
154	152219	Lock	
155	149750	Cover plate for filling opening	
156	4400000370	Special small socket, 4-pos.	X3/X4
157	154895	Filter for feedwater tank	
	155007	PE repair sticks SG67	
160	151764	Contactor 3RT2016	K1/K2
161	156709	Board SG67 C	A1
	KE00063	Fine-wire fuse 1 AT	A1: F1/F2
	KE00060	Fine-wire fuse 0.2 AT	A1: F5/F6
	154497	Fine-wire fuse 50 mAT	A1: F3/F4
162	9290751510	Circuit breaker B16A	F1/F2/F3
	9290750380	Circuit breaker B32A 220 V version	

Spare parts for SEM pump

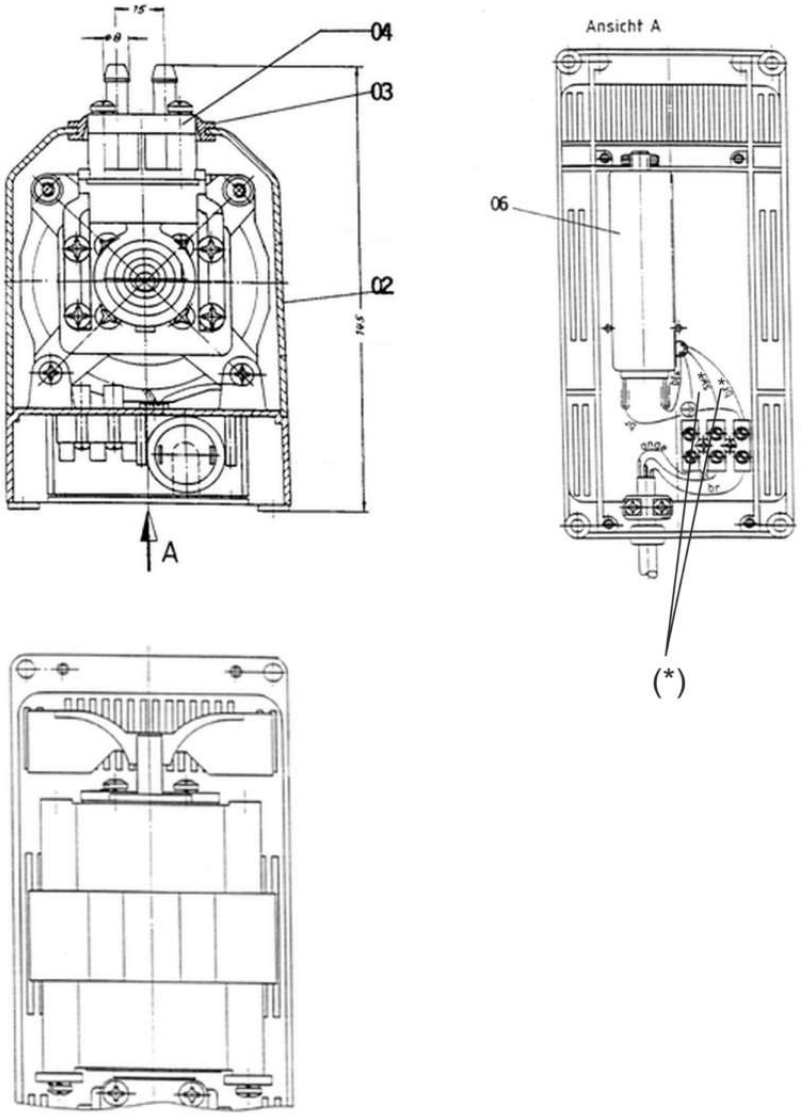


Fig. 30: SEM pump

(*) These connection wires are striped!

Tab. 12: Spare parts for SEM pump

Position	Article number	Designation	Identifier on circuit diagram
	4230580290	Spare parts package (1 x diaphragm, 2 x spring, 2 x ball)	M1
	4230580360	Cover hood / SEM pump	
2	4230570350	Seal / cover for SEM pump	
3	4230570360	Pump unit / SEM pump	

Position	Article number	Designation	Identifier on circuit diagram
4	4230580320	Capacitor / SEM pump	
6	9280150430	Kondensator / SEM - Pumpe	

10.2 Circuit diagram

10.2.1 Circuit diagram 2.2 kW

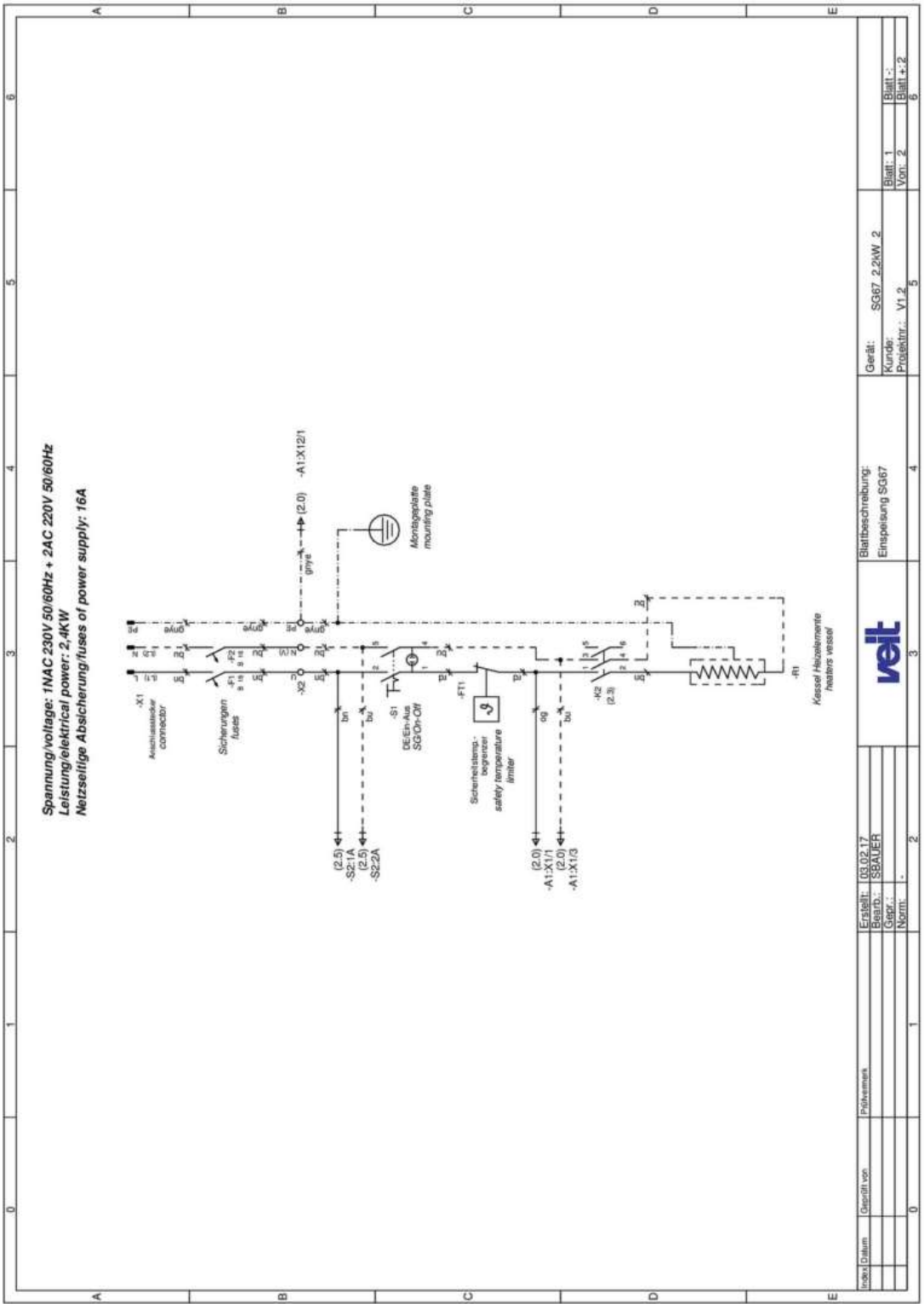


Fig. 31: Circuit diagram_2.2kW_1_2_page 1

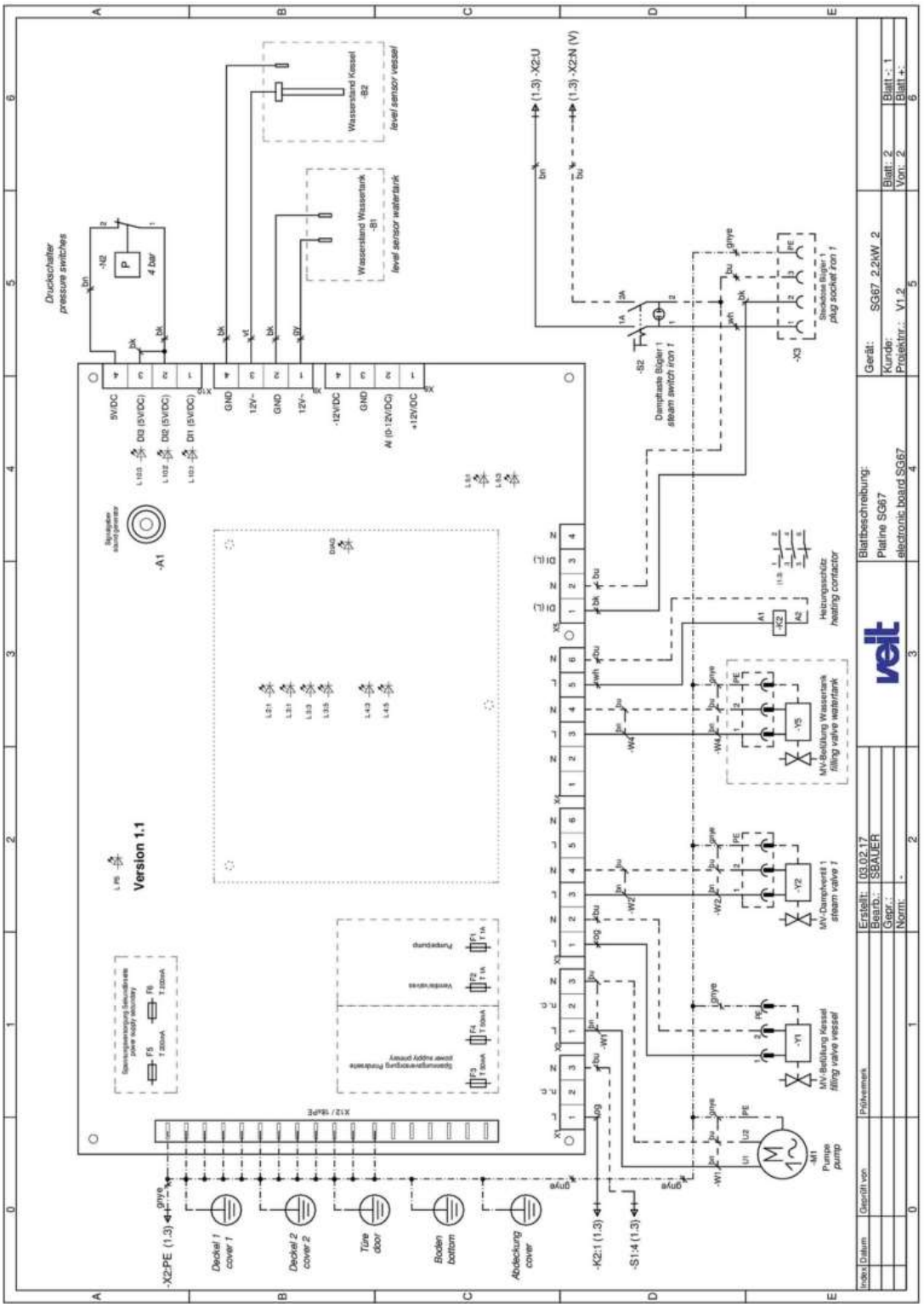


Fig. 32: Circuit diagram_2.2kW_1_2_page 2

10.2.2 Circuit diagram 4.4 kW cleaning

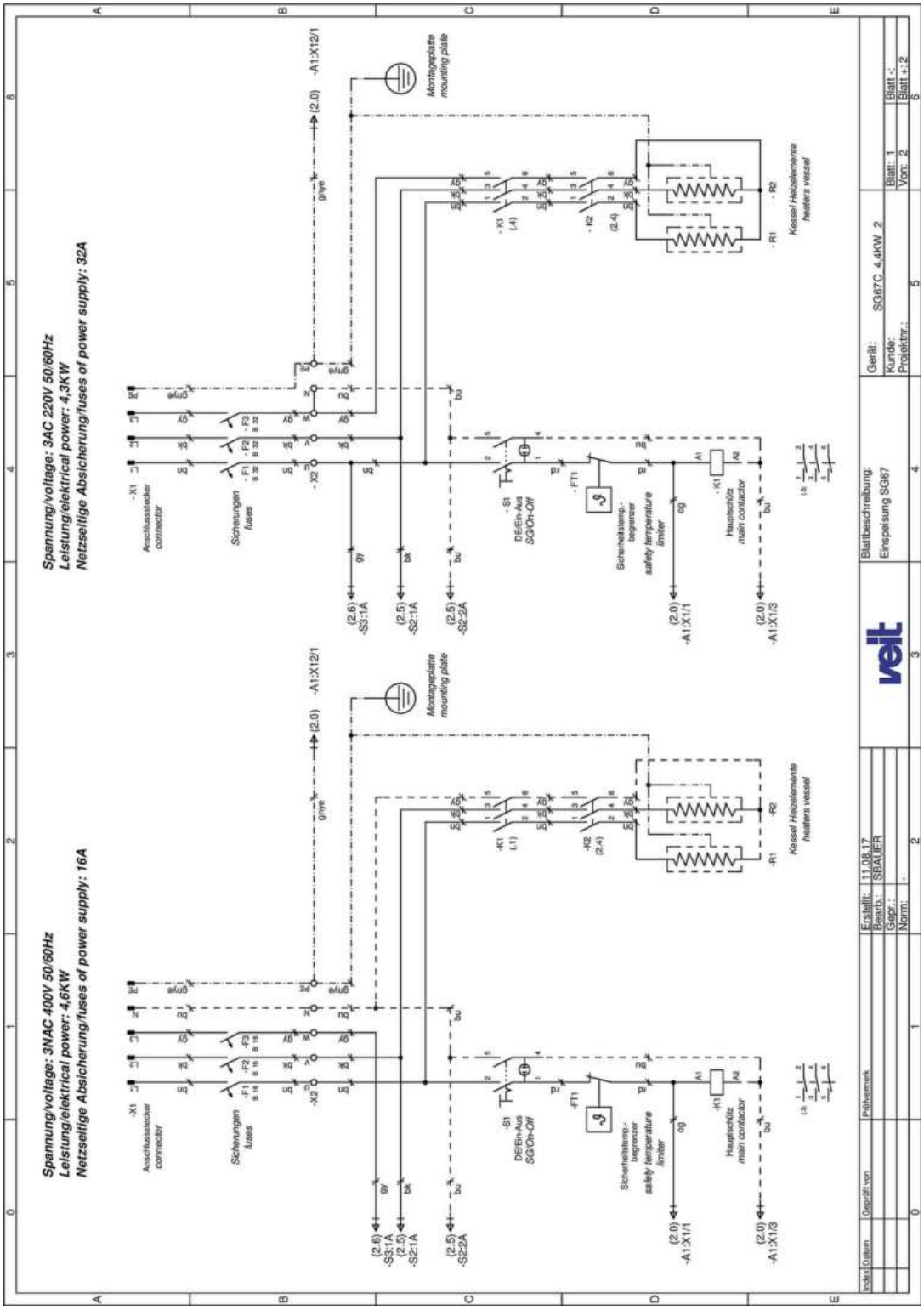


Fig. 33: Circuit diagram_4.4kW_cleaning page 1

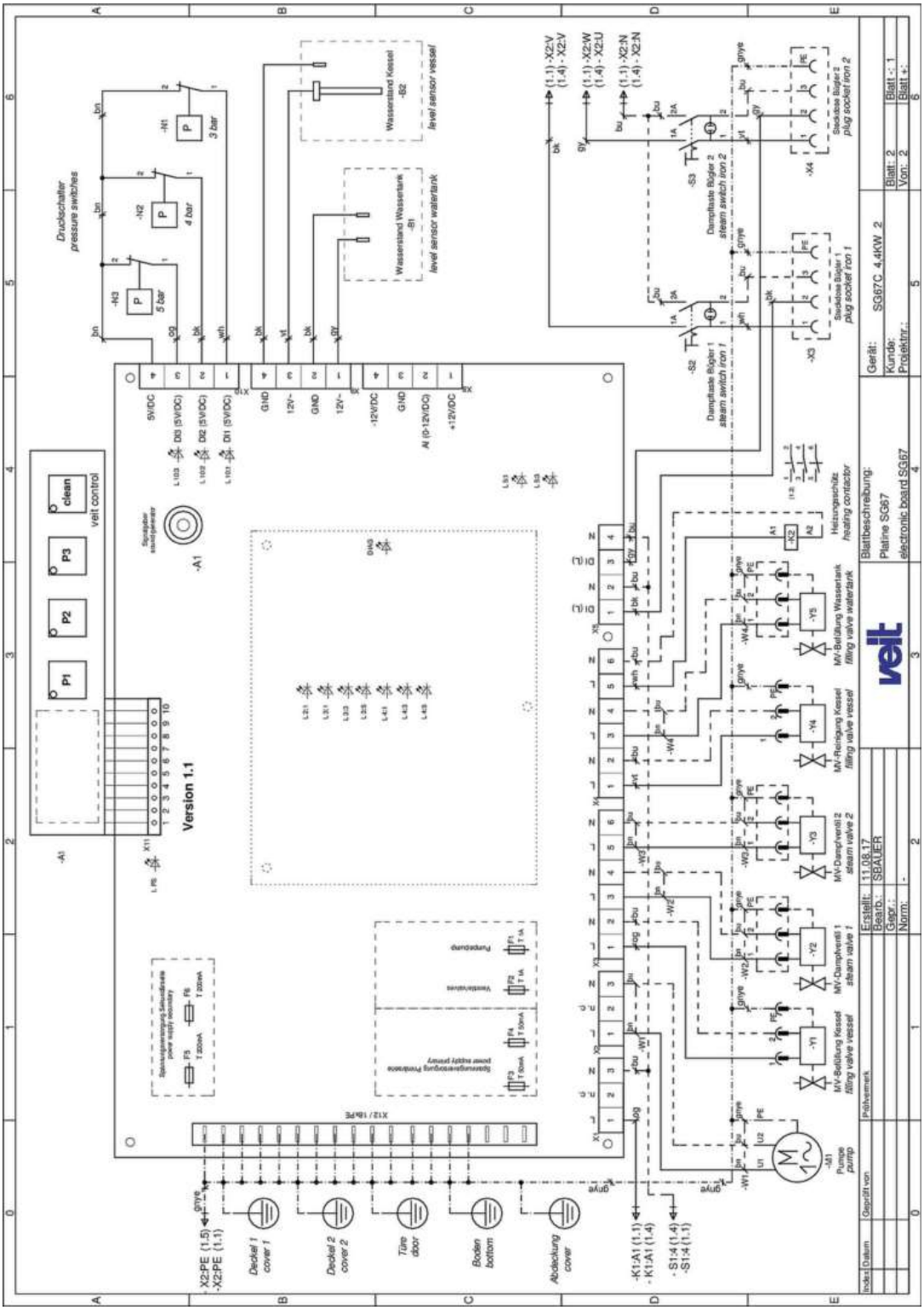


Fig. 34: Circuit diagram_4.4kW_cleaning page 2

10.2.3 Circuit diagram 4.4 kW

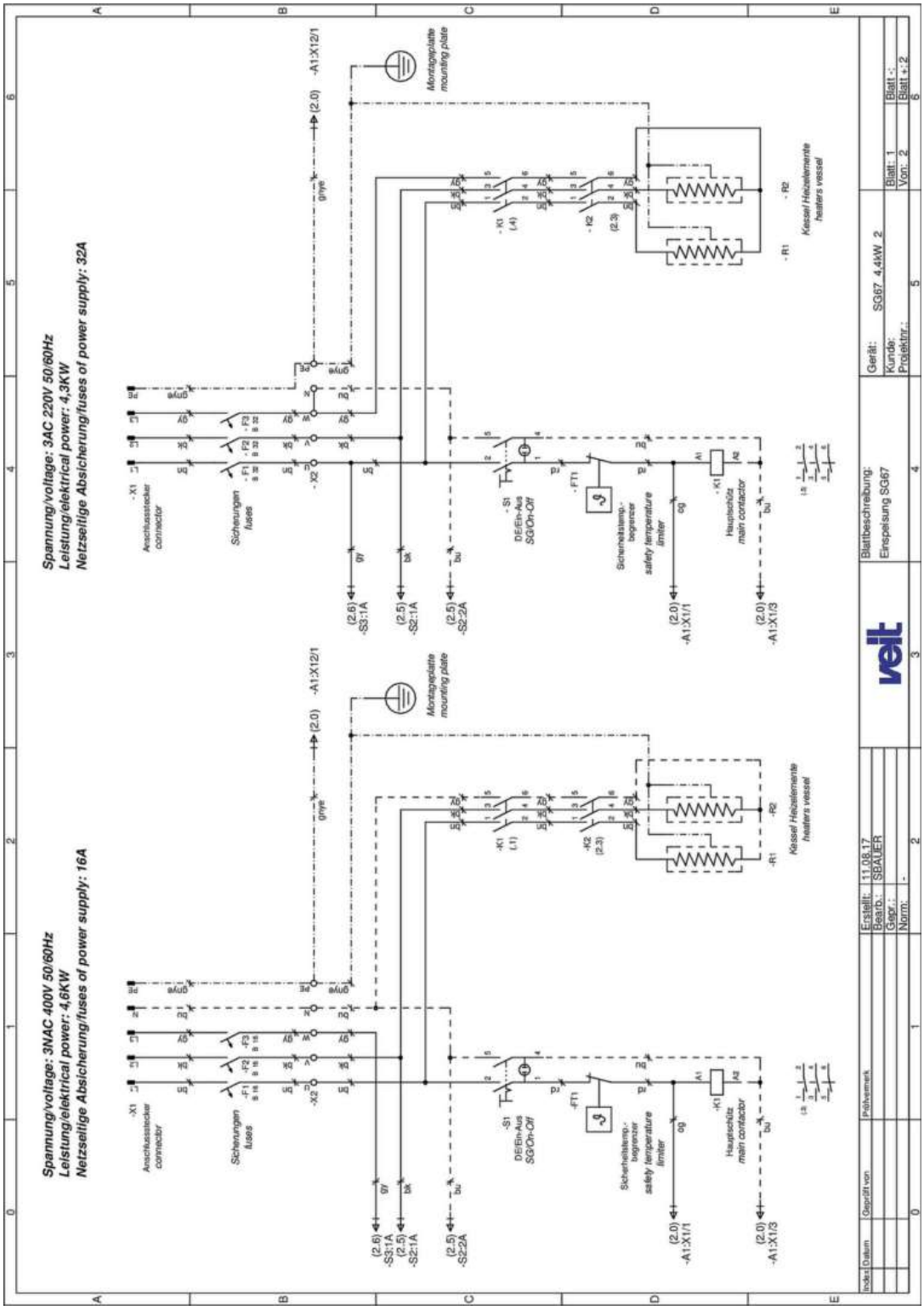


Fig. 35: Circuit diagram_4.4kW_page 1

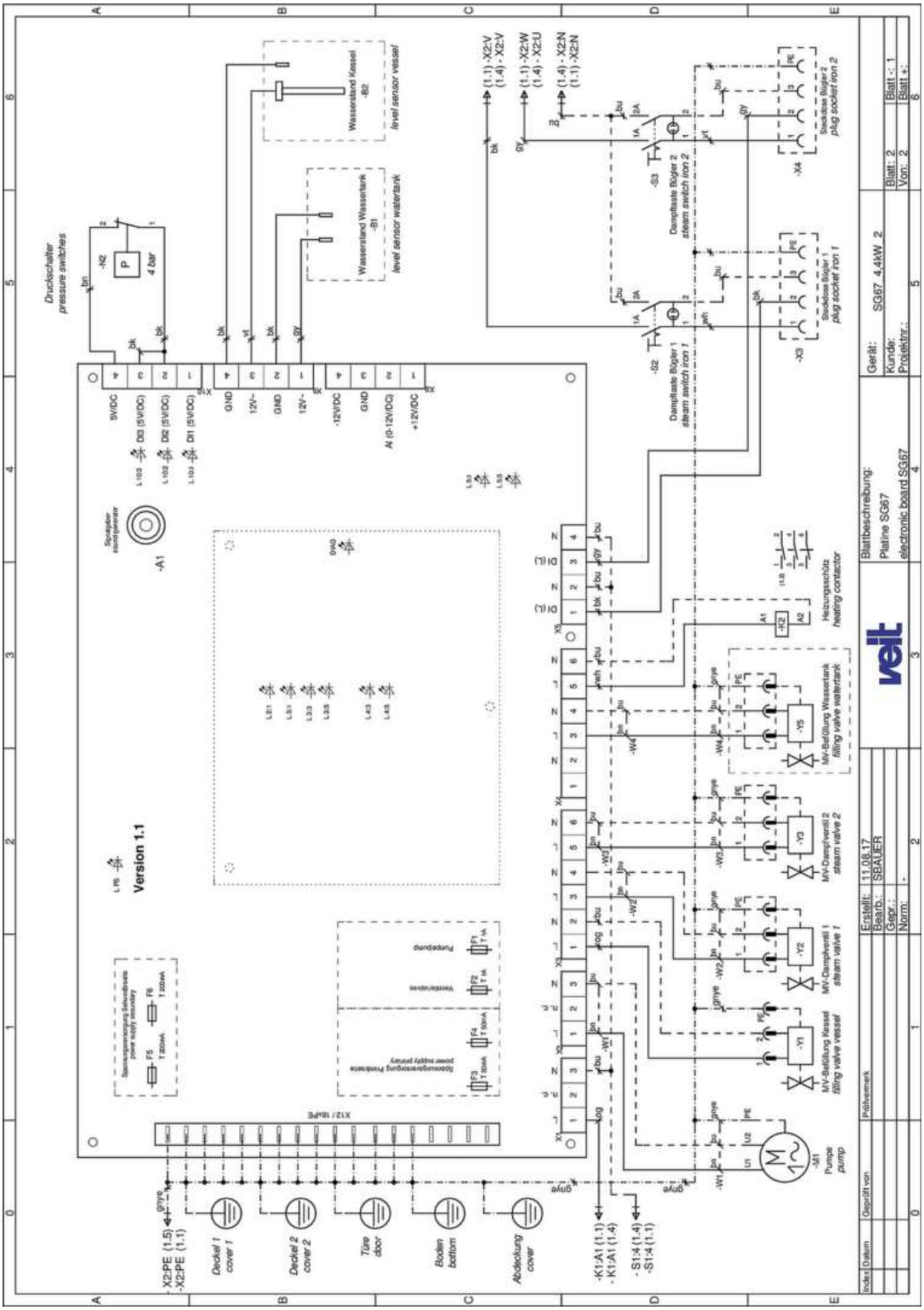


Fig. 36: Circuit diagram_4.4kW_page 2

10.2.4 Circuit diagram 6.6 kW

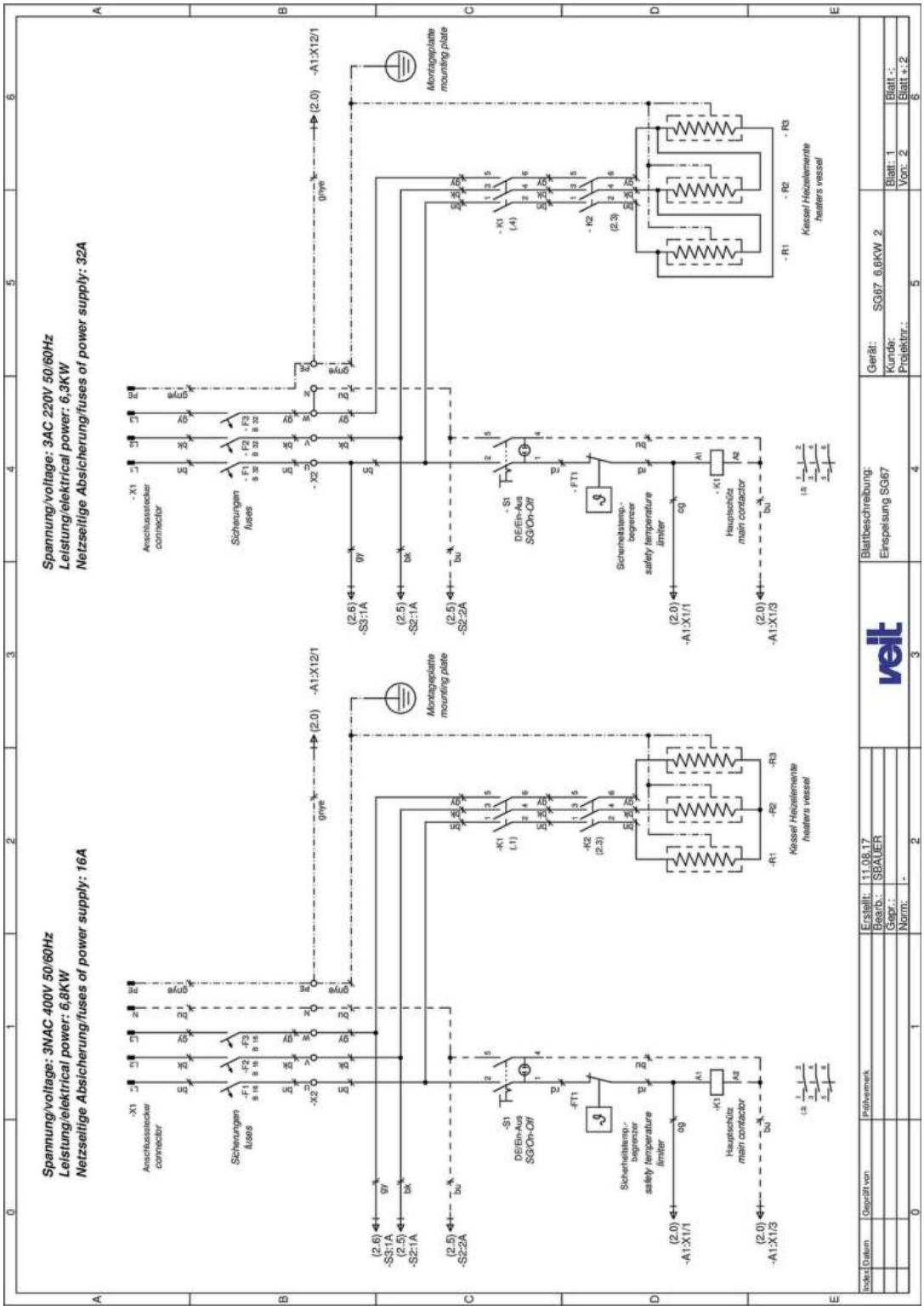


Fig. 37: Circuit diagram_6.6kW_page 1

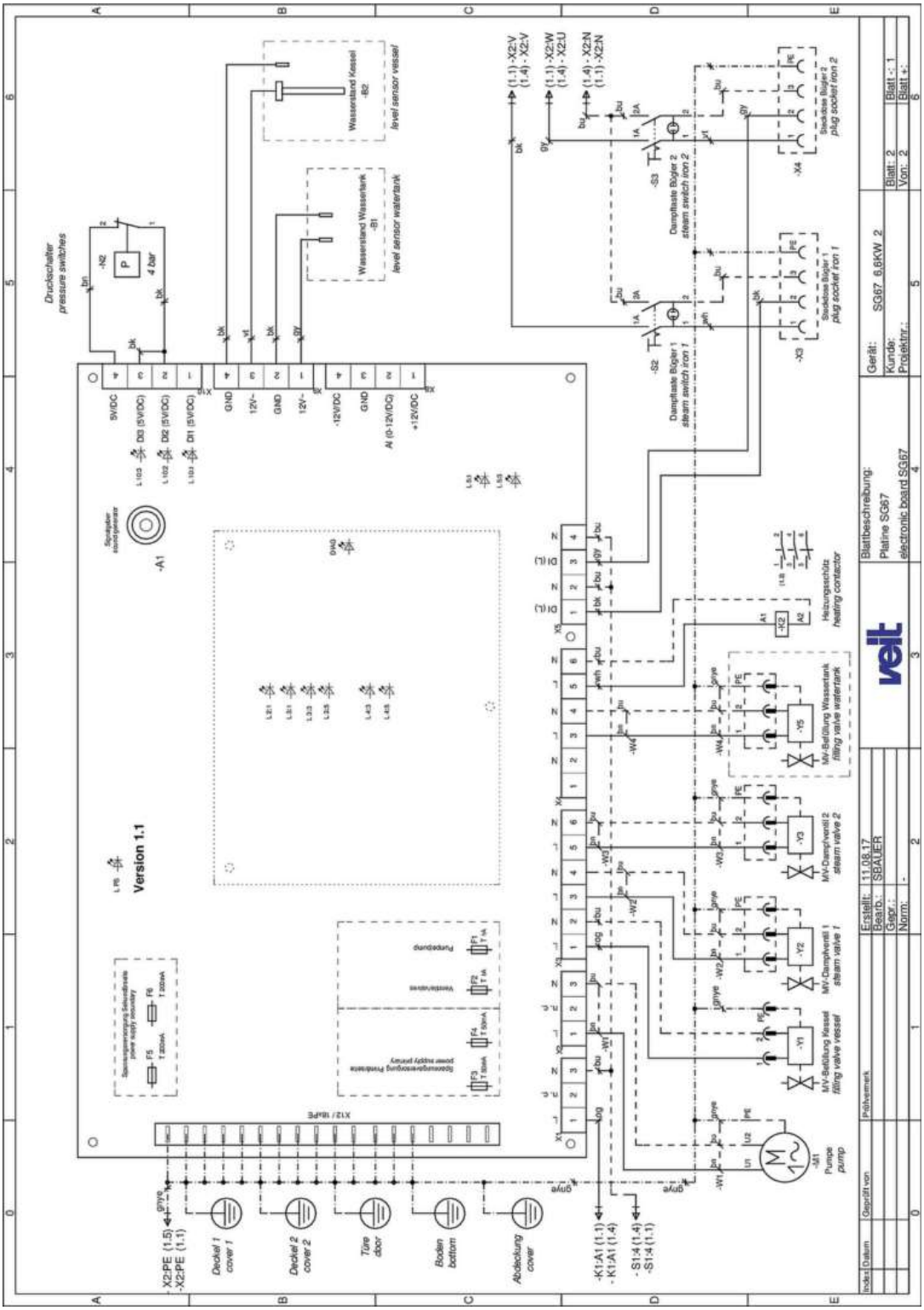


Fig. 38: Circuit diagram_6.6kW_page 2

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