

Installation and maintenance instructions



eloSTOR exclusive

VEH 50-120/8-7

AT, DE

Publisher/manufacture

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1 Safety

1.1 Action-related warnings

Classification of action-related warnings

The action-related warnings are classified in accordance with the severity of the possible danger using the following warning signs and signal words:

Warning symbols and signal words



Danger!

Imminent danger to life or risk of severe personal injury



Danger!

Risk of death from electric shock



Warning.

Risk of minor personal injury



Caution.

Risk of material or environmental damage

1.2 Intended use

There is a risk of injury or death to the user or others, or of damage to the product and other property in the event of improper use or use for which it is not intended.

The product is designed for use as a heat generator for hot water generation.

- Max. hot water temperature: 85 °C

The product is approved exclusively for vertical installation on the wall.

The product must only be operated if a safety group is installed.

Intended use includes the following:

- observance of accompanying operating, installation and servicing instructions for the product and any other system components
- installing and fitting the product in accordance with the product and system approval
- compliance with all inspection and maintenance conditions listed in the instructions.

Intended use also covers installation in accordance with the IP code.

The use of the product in vehicles, such as mobile homes and caravans, is not classed as intended use. Units that are not classed

as vehicles are those that are installed in a fixed and permanent location (known as "fixed installation").

Any other use that is not specified in these instructions, or use beyond that specified in this document shall be considered improper use. Any direct use in industrial or commercial processes is also deemed to be improper.

Caution.

Improper use of any kind is prohibited.

1.3 General safety information

1.3.1 Risk caused by inadequate qualifications

The following work must only be carried out by competent persons who are sufficiently qualified to do so:

- Set-up
- Dismantling
- Installation
- Start-up
- Inspection and maintenance
- Repair
- Decommissioning
- ▶ Observe all instructions that are included with the product.
- ▶ Proceed in accordance with current technology.
- ▶ Observe all applicable directives, standards, laws and other regulations.

1.3.2 Risk of death from electric shock

There is a risk of death from electric shock if you touch live components.

Before commencing work on the product:

- ▶ Disconnect the product from the power supply by switching off all power supplies at all poles (electrical partition with a contact gap of at least 3 mm, e.g. fuse or circuit breaker).
- ▶ Secure against being switched back on again.
- ▶ Check that there is no voltage.

1.3.3 Material damage due to unsuitable installation surface

The installation surface must be even and have sufficient load-bearing capacity to sup-





1 Safety

port the operating weight of the product. An uneven installation surface may cause leaks in the product.

There is a risk of death if the connections are subject to leaks.

- ▶ Make sure that the product is positioned flush against the installation surface.
- ▶ Ensure that the installation surface has sufficient load-bearing capacity to bear the operating weight of the product.

1.3.4 Risk of scalding and material damage due to escaping hot or cold water

- ▶ If you use plastic pipes for the hot or cold water connection of the product, you must only use pipes that are temperature-resistant up to 95 °C under a pressure of 1.0 MPa (10 bar).

1.3.5 Risk of death due to lack of safety devices

The schematic drawings included in this document do not show all safety devices required for correct installation.

- ▶ Install the necessary safety devices in the system.
- ▶ Observe the applicable national and international laws, standards and guidelines.

1.3.6 Risk of injury due to the heavy weight of the product

- ▶ Make sure that the product is transported by at least two people.

1.3.7 Risk of material damage caused by using an unsuitable tool

- ▶ Use the correct tool to tighten or loosen threaded connections.

1.3.8 Risk of material damage caused by frost

- ▶ Do not install the product in rooms prone to frost.

1.3.9 Risk of being burned or scalded by hot components

- ▶ Only carry out work on these components once they have cooled down.

1.4 Regulations (directives, laws, standards)

- ▶ Observe the national regulations, standards, guidelines and laws.



2 Notes on the documentation

2.1 Observing other applicable documents

- You must observe all the operating and installation instructions included with the system components.

2.2 Storing documents

- Pass these instructions and all other applicable documents on to the system operator.

2.3 Validity of the instructions

These instructions apply for the following products only:

Product article number

VEH 50/8-7	0010019874
VEH 80/8-7	0010019875
VEH 100/8-7	0010019876
VEH 120/8-7	0010019877

3 Product description

3.1 Identification plate

The identification plate is located on the lower side of the product.

The identification plate contains the following information:

Information	Meaning
Serial no.	Serial number
VEH XX /8-7	Type designation
l	Water capacity
3/N/PE 400 V 1/N/PE 230 V ~ 50/60 Hz	Electrical connection data
MPa (bar)	Max. operating pressure
IP25D	Level of protection

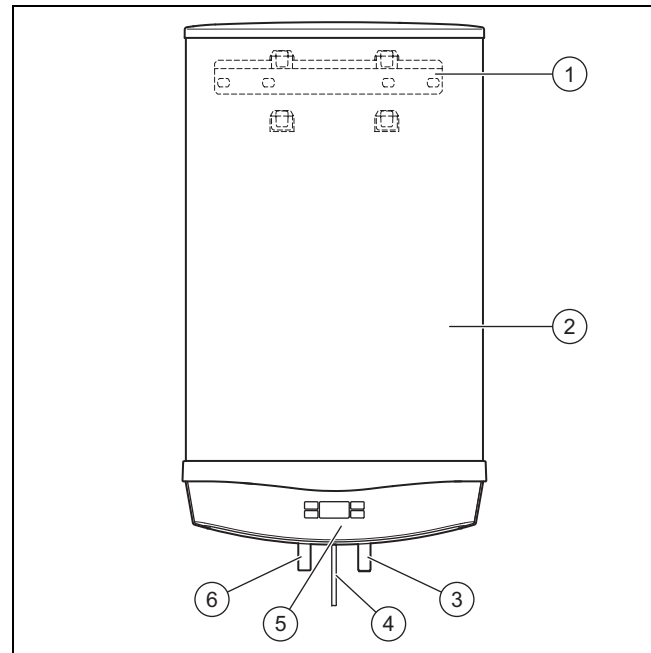
3.2 CE label



The CE label shows that the products comply with the basic requirements of the applicable directives as stated on the identification plate.

The declaration of conformity can be viewed at the manufacturer's site.

3.3 Design



- | | | | |
|---|-----------------------------|---|------------------------|
| 1 | Product holder | 4 | Mains connection line |
| 2 | Domestic hot water cylinder | 5 | Operator control panel |
| 3 | Cold water connection | 6 | Hot water connection |

The cylinder is equipped with external heat insulation. The cylinder vessel is made of enamelled steel. The heating elements that transfer the heat are located inside the vessel. As additional corrosion protection, the vessel has a magnesium protection anode.

4 Set-up

4.1 Checking the scope of delivery

- Check that the scope of delivery is complete.

Quantity	Component
1	Domestic hot water cylinder
1	Product holder
1	Installation template
1	Operating instructions
1	Installation and maintenance instructions

Applicability: VEH 80/8-7

Quantity	Component
1	Connector 0020192421
1	Connector 0020192422

4 Set-up

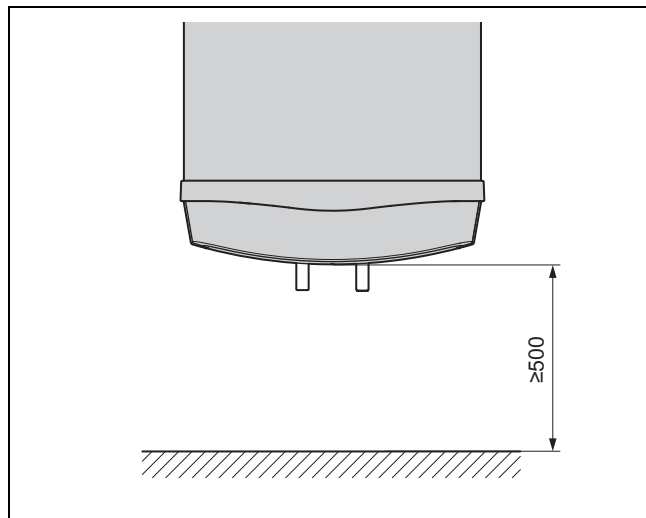
4.2 Requirements for the installation site

- Observe the following requirements:
 - Installation only in rooms that are always dry and free of frost
 - Installation only on a level, vertical and stable wall
 - Installation only on a wall with sufficient load-bearing capacity for the filled product (→ Appendix: Technical data)

Conditions: Non-pressurised installation

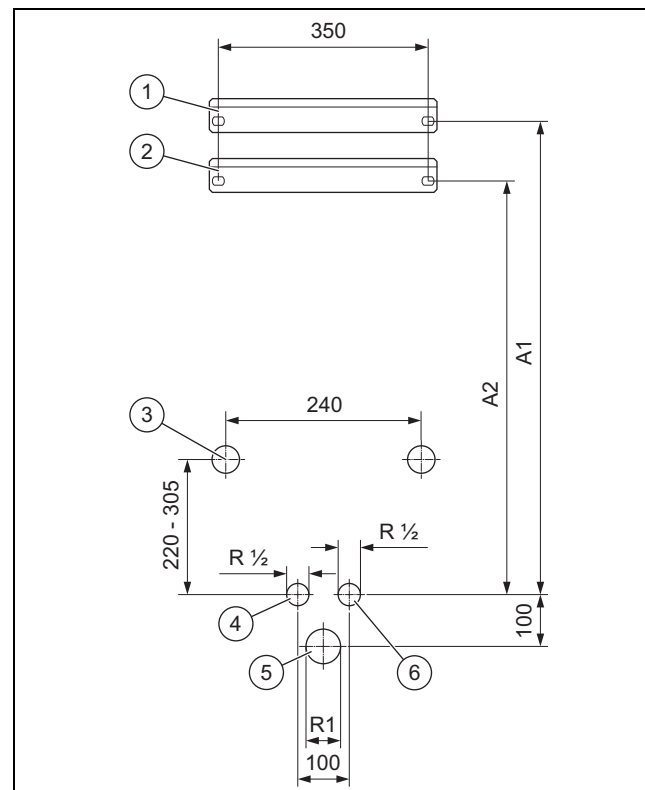
- Installation height above sea level: < 2000 m

4.3 Observing the minimum clearances



- Comply with the minimum clearances during installation.

4.4 Installing the product



- | | | | |
|---|--|----|---|
| 1 | Product bracket (replacement for VEH /5) | 6 | Cold water connection |
| 2 | Product bracket (new installation or replacement for VEH /6 or /7) | A1 | Distance between the product bracket and water connections (replacement for VEH /5) |
| 3 | Bearing surfaces for wall support | A2 | Distance between the product bracket and water connections (new installation or replacement for VEH /6) |
| 4 | Hot water connection | | |
| 5 | Discharge connection | | |

1. Install the product bracket.

[mm]	A1	A2
VEH 50	790	690
VEH 80/100/120	1020	920

2. Hang the product in the product bracket.
 - Lateral corrections are possible as a result of movement.

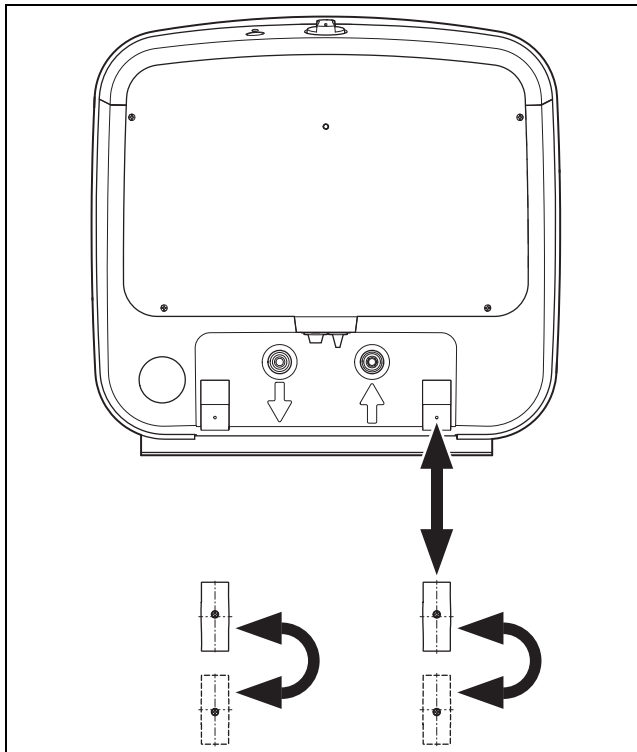
Conditions: Pressure-tight installation of a VEH 50, VEH 100 or VEH 120

- Install a suitable safety group on the VEH's water connections.

Conditions: Pressure-tight installation of a VEH 80

- Install a suitable safety group on the VEH's water connections.
- Replace the connectors from the safety group with the connectors supplied for the VEH 80:
 - Vaillant connection pipe 0020192421
 - Vaillant connection pipe 0020192422

Conditions: The wall is uneven.



- Smooth out any unevenness in the wall with the wall supports.

5 Installation

5.1 Hydraulic installation

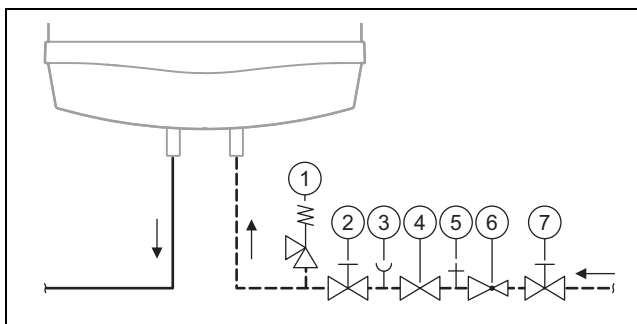


Warning.
Risk of adverse health effects caused by impurities in the potable water.

Sealing residues, dirt or other residues in the pipelines may adversely affect the quality of the potable water.

- Flush all of the hot and cold water pipes thoroughly before you install the product.

Conditions: Pressure-tight installation



- | | |
|-----------------------------|--------------------------|
| 1 Expansion relief valve | 4 Return flow prevention |
| 2 Stop valve | 5 Test valve |
| 3 Pressure gauge connectors | 6 Pressure reducer |
| | 7 Cold water stop valve |

- Install components (1) to (7).
- Install the safety device as close as possible to the product's cold water inlet.
- Install the drain pipework at a constant incline.
- Maintain a clearance between the expansion relief valve's discharge pipe and the tundish so that the drain pipework is open to the atmosphere.
 - Clearance: ≥ 20 mm
- Make sure that the diameter of the drain pipework is at least equal to that of the expansion relief valve's discharge pipe.
- Check the water connection positive pressure.

Result 1:

Water connection positive pressure: ≤ 6 bar

- Install a suitable safety group with no pressure reducer.

Result 2:

Water connection positive pressure: 6 ... 16 bar

- Install a suitable safety group with pressure reducer.

5.2 Requirements for electrical installation at the installation site



Danger!

Risk of electric shock

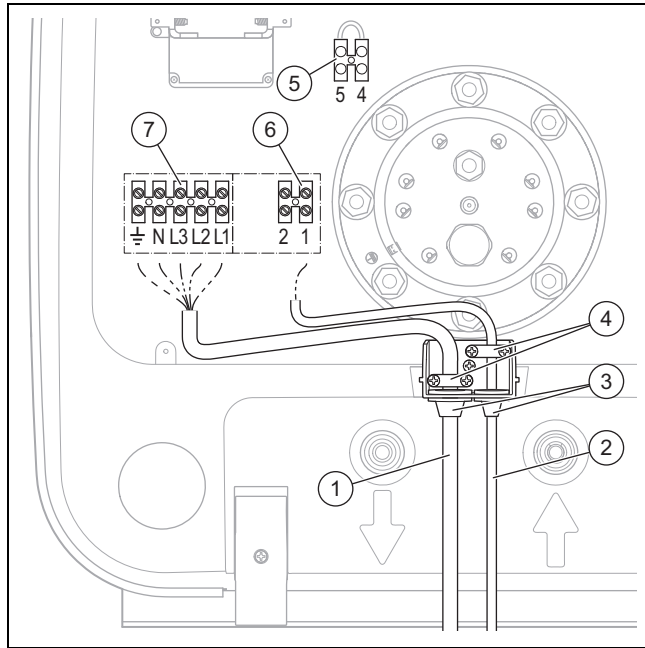
There is a risk of electric shock when working on electrical components that are connected to the low-voltage network.

- Disconnect the product from the power supply.
- Secure the product against being switched back on again.
- Check that the product is de-energised.
- Only open the product when it is de-energised.

- Connect the product to a permanent mains connection via a partition wall.
 - Requirements for the partition: Contact opening of at least 3 mm; mains connection is switched off at all pins
- Make sure that the line protection switches are suitable for the measuring current.
 - Measuring current: 16 A

6 Start-up

5.3 Electrical installation



- | | | | |
|---|----------------------------|---|-------------------------------|
| 1 | Mains connection cable | 5 | Output selection terminal |
| 2 | Auxiliary connection cable | 6 | Auxiliary connection terminal |
| 3 | Cable duct | 7 | Mains connection terminal |
| 4 | Strain relief | | |



Danger! **Risk of electric shock**

There is a risk of electric shock when working on electrical components that are connected to the low-voltage network.

- ▶ Disconnect the product from the power supply.
- ▶ Secure the product against being switched back on again.
- ▶ Check that the product is de-energised.
- ▶ Only open the product when it is de-energised.

1. Observe the connection diagram (Appendix).
2. Guide the mains connection cable through the cable duct and through the strain relief.
3. Tighten the screws on the strain relief.
4. Secure the mains connection cable to the mains connection terminal.
5. Guide the auxiliary connection cable through the cable duct and through the strain relief.
6. Tighten the screws on the strain relief.
7. Secure the auxiliary connection cable to the auxiliary connection terminal.

Re-work

- ▶ Using an indelible pen, note the connected power on the identification plate.

6 Start-up

1. Open the cold water stop cock.
2. Open the hot water valves.
3. Wait until water flows out of the hot water valves.
4. Close the hot water valves.
5. Check that the expansion relief valve is functioning properly by venting the expansion relief valve.
 - ◀ Water must escape from the expansion relief valve.
6. Ensure that the safety cut-out is switched on.
7. Check that all of the pipe connections are leak-tight.
8. Switch on the fuses.
9. Switch on the line protection switches.
10. Set the configuration type. (→ Page 8)
11. Set the operating mode (→ Operating instructions).
12. Check that the product works correctly. (→ Page 9)
13. Set the target cylinder temperature.

Conditions: Water hardness: > 3.57 mol/m³

- Water temperature: ≤ 50 °C

6.1 Operating

The domestic hot water cylinder operating instructions list the functions that can be set by the operator.

6.2 Setting the configuration type



Note

In the as-delivered condition, the twin-circuit switching (Co2) and the Smart operating mode are preset.

1. Press and hold the button for at least three seconds to switch to standby mode.
 - ◀ The symbol flashes in the display.
2. Press and hold the and buttons at the same time for at least 10 seconds to open the configuration menu.
3. Use the and buttons to set the configuration type (on-demand switching (Co0), single-circuit switching (Co1) or twin-circuit switching (Co2)) that was selected during the electrical installation.
4. Press the button to save this selection and exit the configuration menu.

6.3 Checking that the product works correctly

1. Set the maximum flow temperature on the domestic hot water cylinder.
 - ◁ The display shows the "Heating element active" symbol .
2. Open the hot water draw-off point that is furthest away from the domestic hot water cylinder.
 - ◁ If water flows out from the hot water draw-off point, the domestic hot water cylinder has been sufficiently filled with water.
3. After a few minutes, check the current hot water temperature.
4. When the domestic hot water cylinder is heated for the first time, check whether the expansion relief valve is operating correctly.
 - ◁ If water drips from the discharge line, the expansion relief valve is operating correctly.

7 Handing over to the operator

- ▶ Inform the operator how to handle the product. Answer any questions the operator may have. Draw attention to the safety information that the operator must follow.
- ▶ Explain to the operator how the safety devices work and where they are located.



Danger!

Risk of death from legionella.

Legionella multiply at temperatures below 60 °C.

- ▶ Ensure that the end user is familiar with all of the Anti-legionella measures in order to comply with the applicable regulations regarding legionella prevention.
-
- ▶ Explain to the operator how to limit the hot water temperature at the draw-off point in order to prevent scalding.
 - ▶ Inform the operator of the necessity to have the product maintained on a regular basis.
 - ▶ Provide the operator with all relevant instructions and unit documentation for safe-keeping.

8 Inspection and maintenance

- ▶ You can find the inspection and maintenance work in the maintenance plan in the appendix. (→ Page 17)

8.1 Disconnecting the product from the power supply



Danger!

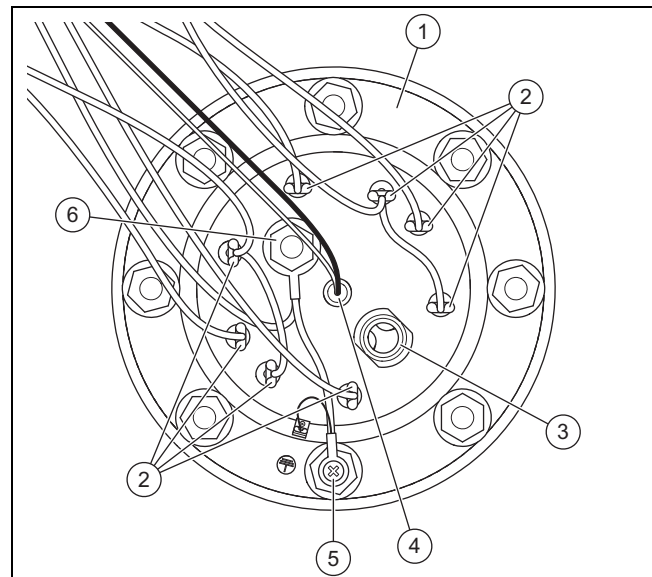
Risk of electric shock

There is a risk of electric shock when working on electrical components that are connected to the low-voltage network.

- ▶ Disconnect the product from the power supply.
- ▶ Secure the product against being switched back on again.
- ▶ Check that the product is de-energised.
- ▶ Only open the product when it is de-energised.

- ▶ Remove the mains connection lines.

8.2 Checking the magnesium protection anode



- | | | | |
|---|----------------------|---|----------------------------|
| 1 | Flange with hex nuts | 4 | Temperature sensor |
| 2 | Heating elements | 5 | Earth line |
| 3 | Drain cock | 6 | Magnesium protection anode |

1. Disconnect the product from the power supply. (→ Page 9)
2. Empty the product. (→ Page 10)

Removing the flange

3. Unscrew the cover on the flange.
4. Remove the electrical connections on the heating elements from the terminal block.
5. Undo the hex nuts on the cover for the flange and the electronics box.
6. Remove the temperature sensor for the thermostat and the safety cut-out.
7. Unscrew the earth line from the flange.
8. Remove the flange straight from the cylinder tank.

Replacing the magnesium protection anode

9. Replace the magnesium protection anode when it is worn to an extent of 60%.

9 Troubleshooting

Installing the flange

10. Replace the flange seal.
11. Check the inner vessel and components for scale deposition. (→ Page 10)
12. Screw the flange in place.
13. Screw on the earth line.
14. Insert the temperature sensor for the thermostat and the safety cut-out into the opening provided for them.
15. Use a cube plug to place the electrical connections for the heating elements on the terminal block.
16. Screw the cover to the product tightly.
17. Start up the product. (→ Page 8)

8.3 Checking the inner vessel and components for scale deposition

1. Disconnect the product from the power supply. (→ Page 9)
2. Empty the product. (→ Page 10)
3. Remove the flange. (→ Page 9)
4. If necessary, clean the inner vessel with descaling agents or by carefully scraping it with a wooden spatula.
5. Replace components if necessary.
6. Install the flange. (→ Page 10)
7. Start up the product. (→ Page 8)

8.4 Completing maintenance work

1. Fit the casing.
2. Ensure that all of the product's components have been installed correctly.
3. Connect the product to the power supply.
4. Switch on the product.

9 Troubleshooting

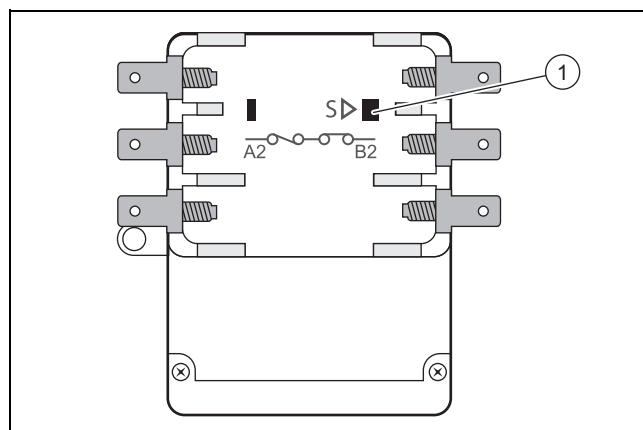
9.1 Replacing a defective Smart Control module

1. Disconnect the product from the power supply. (→ Page 9)
2. Undo the screws on the cover for the flange and electronics box.
3. Pull out all plugs from the Smart Control module.
4. Undo the two screws for the Smart Control module.
5. Secure the new Smart Control module.
6. Plug all of the plugs into the contacts.
7. Screw the cover to the product tightly.
8. Start up the product. (→ Page 8)

9.2 Replacing a defective heating element

1. Disconnect the product from the power supply. (→ Page 9)
2. Empty the product. (→ Page 10)
3. Remove the flange. (→ Page 9)
4. Unscrew the defective heating element from the flange.
5. Screw the new heating element onto the flange.
6. Install the flange. (→ Page 10)
7. Start up the product. (→ Page 8)

9.3 Resetting the safety cut-out



1. Disconnect the product from the power supply. (→ Page 9)
2. Eliminate whatever triggered the safety cut-out using the table in the appendix (→ Page 12).
3. In the opening (1), press the reset button for the safety cut-out, e.g. using a screwdriver.
4. Start up the product. (→ Page 8)

9.4 Rectifying faults

- Use the table in the appendix to rectify the faults (→ Page 12).

10 Decommissioning

1. Disconnect the product from the power supply. (→ Page 9)

Emptying the product

2. Close the cold water stop cock.
3. Open a hot water valve connected to the product.
4. Drain the domestic hot water cylinder using the drain cock.

Removing the product

5. Remove the cold and hot water piping.
6. Undo the screws.
7. Lift the product and remove it from the wall.
8. Remove the screws from the wall.

11 Recycling and disposal

Disposing of the packaging

- Dispose of the packaging correctly.

- Observe all relevant regulations.

12 Customer service

Applicability: Austria

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Österreich

E-Mail Kundendienst: termin@vaillant.at

Internet Kundendienst: <http://www.vaillant.at/werkskundendienst/>

Telefon: 05 7050-2100 (zum Regionaltarif österreichweit, bei Anrufen aus dem Mobilfunknetz ggf. abweichende Tarife - nähere Information erhalten Sie bei Ihrem Mobilnetzbetreiber)

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Applicability: Germany

Auftragsannahme Vaillant Kundendienst: 021 91 5767901

Appendix

Appendix

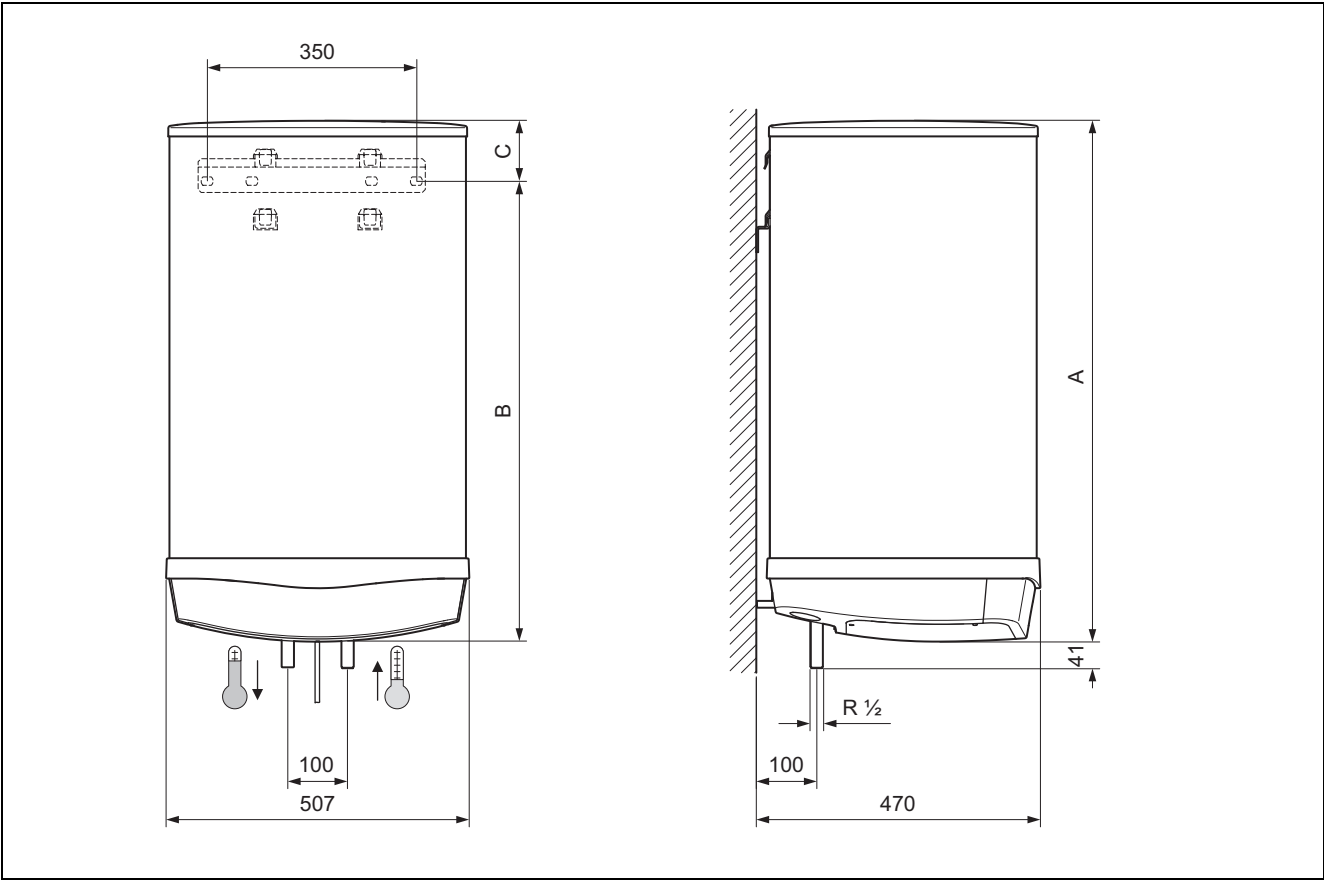
A Fault display view

Display	Cause	Remedy
Err The display lights up for 30 seconds. The display remains permanently on.	Dry fire Fault	- Check all of the product's components for malfunctions. - Repair or replace the defective component. - Press and hold the  and  buttons at the same time for 5 seconds to acknowledge the fault

B Rectifying faults

Fault	Possible cause	Troubleshooting
The safety cut-out has been tripped. The display lights up for 30 seconds and displays the fault code err .	Dry fire	- Check why the domestic hot water cylinder does not contain any water and replace the faulty component. - Fill the domestic hot water cylinder.
	Heat-up time too long	- Check that the electrical plug connections and other connections are seated correctly and correct these if necessary. - Replace the Smart Control module.
	- Smart Control module defective - Communication fault	- Close the expansion relief valve. - Replace the expansion relief valve.
	- Expansion relief valve is open - Expansion relief valve is defective	- Close the expansion relief valve. - Replace the expansion relief valve.
	Smart Control module defective	Replace the Smart Control module.
	Electronics fault	Replace the Smart Control module.
	Connection error	- Check that the electrical plug connections and other connections are seated correctly and correct these if necessary. - Replace the Smart Control module.

C Dimensions and dimension drawing



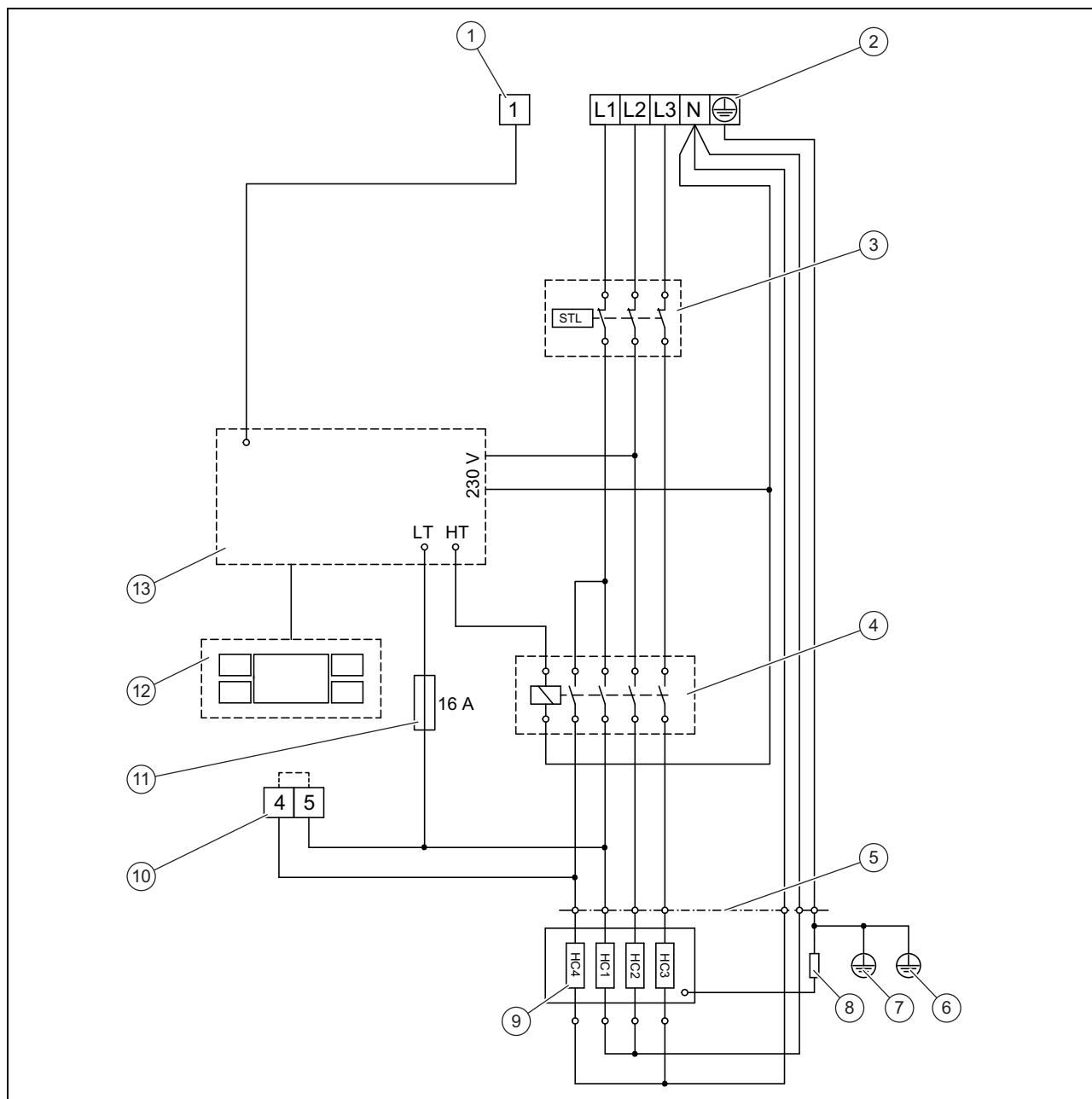
Dimensions

	VEH 50/8-7	VEH 80/8-7	VEH 100/8-7	VEH 120/8-7
A	637 mm	875 mm	1,041 mm	1,207 mm
B	529 mm	673 mm	759 mm	759 mm

Appendix

D Circuit diagrams and electrical connections

D.1 Connection diagram



1	EVU contact	9	Heating elements
2	Mains connection terminal	10	Output selection terminal
3	Safety cut-out	11	Fuse
4	Control system relay	12	Smart control interface module
5	Isolating plug	13	Smart control power module
6	Protection anode earthing	LT	Low tariff output
7	Vessel earthing	HT	High tariff output
8	Functional earth resistor		

D.2 Overview of the configuration types

	On-demand switching (Co0)	Single circuit switching (Co1)	Twin circuit switching (Co2)		
Available operating mode	Scald protection Manual	Scald protection Manual Smart	Scald protection Manual		Smart
EVU contact	Not working	Not working	Open: High tariff	Closed: Low tariff	Not working
Heating elements actuated by	Sluice	Sluice	Sluice	Smart Control module	Sluice

D.3 Selecting the power

Configuration type	Mains connection	Basic load	Rapid heating
Single-circuit switching On-demand switching		– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 2 kW	–
		– VEH 120/8-7 1.5 kW	–
		– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 4 kW	–
		– VEH 120/8-7 3 kW	–
		– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 4 kW	–
		– VEH 120/8-7 4.5 kW	–
		– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 4 kW	–
		– VEH 120/8-7 3 kW	–
		– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 4 kW	–
		– VEH 120/8-7 4.5 kW	–
		– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 6 kW	–
		– VEH 120/8-7 6 kW	–

By bridging terminal 4/5, heating elements 1 and 4 can be interconnected in the low tariff. The heating elements' outputs are listed in the following table. Find out from your energy supply company what the maximum power consumption is for low-tariff switching.

Appendix

Heating element	VEH 50 / 80 / 100	VEH 120
1	1 kW	1.5 kW
2	2 kW	1.5 kW
3	2 kW	1.5 kW
4	1 kW	1.5 kW

Configuration type	Mains connection	Basic load	Rapid heating
Twin-circuit switching		– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 1 kW	– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 4 kW
		– VEH 120/8-7 1.5 kW	– VEH 120/8-7 4.5 kW
		– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 2 kW	– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 4 kW
		– VEH 120/8-7 3 kW	– VEH 120/8-7 4.5 kW
		– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 1 kW	– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 4 kW
		– VEH 120/8-7 1.5 kW	– VEH 120/8-7 4.5 kW
		– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 2 kW	– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 4 kW
		– VEH 120/8-7 3 kW	– VEH 120/8-7 4.5 kW
		– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 1 kW	– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 6 kW
		– VEH 120/8-7 1.5 kW	– VEH 120/8-7 6 kW
		– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 2 kW	– VEH 50/8-7 – VEH 80/8-7 – VEH 100/8-7 6 kW
		– VEH 120/8-7 3 kW	– VEH 120/8-7 6 kW

E Maintenance plan

Maintenance work	Interval
Checking the magnesium protection anode	After the first two years, then annually thereafter
Checking seals	Each time maintenance work is carried out
Tighten the fixing screws	Each time maintenance work is carried out
Checking the inner vessel and components for scale deposition	Each time maintenance work is carried out

F Technical data

Technical data – General

	VEH 50/8-7	VEH 80/8-7	VEH 100/8-7	VEH 120/8-7
Product dimensions, height	637 mm	875 mm	1041 mm	1207 mm
Product dimensions, width	504 mm	504 mm	504 mm	504 mm
Product dimensions, depth	450 mm	450 mm	450 mm	450 mm
Weight when filled with water	80 kg	130 kg	160 kg	185 kg
Nominal capacity	50 l	80 l	100 l	120 l
Electrical power consumption	– 1 kW – 2 kW – 4 kW – 6 kW	– 1 kW – 2 kW – 4 kW – 6 kW	– 1 kW – 2 kW – 4 kW – 6 kW	– 1.5 kW – 3 kW – 4.5 kW – 6 kW

Technical data – Output

	VEH 50/8-7	VEH 80/8-7	VEH 100/8-7	VEH 120/8-7
Standby energy consumption (in 24 hours at 65 °C)	0.6 kWh	0.8 kWh	0.93 kWh	1.06 kWh
Selectable hot water temperature range	7 ... 85 °C	7 ... 85 °C	7 ... 85 °C	7 ... 85 °C
Energy-saving setting	60 °C	60 °C	60 °C	60 °C
Mixed water volume from 40 °C	96 l	157 l	196 l	237 l
Heat-up time (from 10 to 60 °C) at 1 kW	2.73 h	4.60 h	6.83 h	–
Heat-up time (from 10 to 60 °C) at 1.5 kW	–	–	–	4.35 h
Heat-up time (from 10 to 60 °C) at 2 kW	1.43 h	2.18 h	3.51 h	–
Heat-up time (from 10 to 60 °C) at 3 kW	–	–	–	2.16 h
Heat-up time (from 10 to 60 °C) at 4 kW	0.73 h	1.00 h	1.82 h	–
Heat-up time (from 10 to 60 °C) at 4.5 kW	–	–	–	1.32 h
Heat-up time (from 10 to 60 °C) at 6 kW	0.39 h	0.68 h	0.90 h	0.98 h
Permissible operating pressure	0 ... 0.6 MPa	0 ... 0.6 MPa	0 ... 0.6 MPa	0 ... 0.6 MPa

Technical data – Electrics

	VEH 50/8-7	VEH 80/8-7	VEH 100/8-7	VEH 120/8-7
Electric connection	– 230 V/50 Hz – 400 V/50 Hz	– 230 V/50 Hz – 400 V/50 Hz	– 230 V/50 Hz – 400 V/50 Hz	– 230 V/50 Hz – 400 V/50 Hz
Rated current	16 A	16 A	16 A	16 A
Level of protection	IP25D	IP25D	IP25D	IP25D



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