

Installation and maintenance instructions



eloSTOR plus,
eloSTOR exclusive

VEN ...

AT, DE

Publisher/manufacture

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1 Safety

1.1 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 only for use as an open heat generator for hot water generation.

The direct electric domestic hot water cylinder is designed to heat up potable water in accordance with the applicable quality standards. If the quality of the potable water is poor, there is a risk of corrosion in the product.

This product only works in conjunction with low-pressure fittings.

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

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 class.

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 commercial or industrial use is also deemed to be improper.

Caution.

Improper use of any kind is prohibited.

1.2 General safety information

1.2.1 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 the current technology.
- ▶ Observe all applicable directives, standards, laws and other regulations.

1.2.2 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.

1.2.3 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:

- ▶ Unplug the mains plug.
- ▶ Or disconnect the product from the power supply by switching off all power supplies (electrical partition with a contact opening of at least 3 mm, e.g. fuse or line protection switch).
- ▶ Secure against being switched back on again.
- ▶ Wait for at least 3 minutes until the condensers have discharged.



1 Safety



1.2.4 Material damage due to unsuitable installation surface

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

1.2.5 Risk of being burned or scalded by hot components

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

1.2.6 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).

1.2.7 Risk of material damage caused by using an unsuitable tool

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

1.2.8 Risk of material damage caused by frost

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

1.2.9 Material damage due to leaks

- ▶ Ensure that there is no mechanical tension on the supply lines.
- ▶ Do not suspend any loads from the pipelines (e.g. clothing).
- ▶ If there are leaks in the water pipe between the product and draw-off points, close the cold water stop valve immediately.
- ▶ Have the leak repaired by a competent person.

1.2.10 Material damage when using a timer

If you are using a timer and a fault occurs, this may lead to the safety cut-out being unintentionally reset. If the product is unintentionally reset, this may lead to material damage of the product.

- ▶ Do not use a timer to control the product.

1.3 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 Applicability of the instructions

These instructions apply for the following products only:

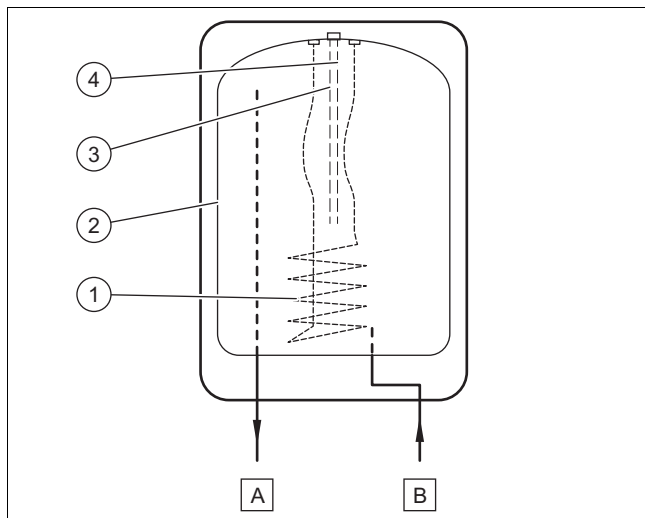
Product article number

VEN 5/7-5_U	0010021140, 0010021141, 0010021142
VEN 5/7-5_O	0010021139
VEN 5/7-7_U	0010021138
VEN 5/7-7_U_S1	0010021424

3 Product description

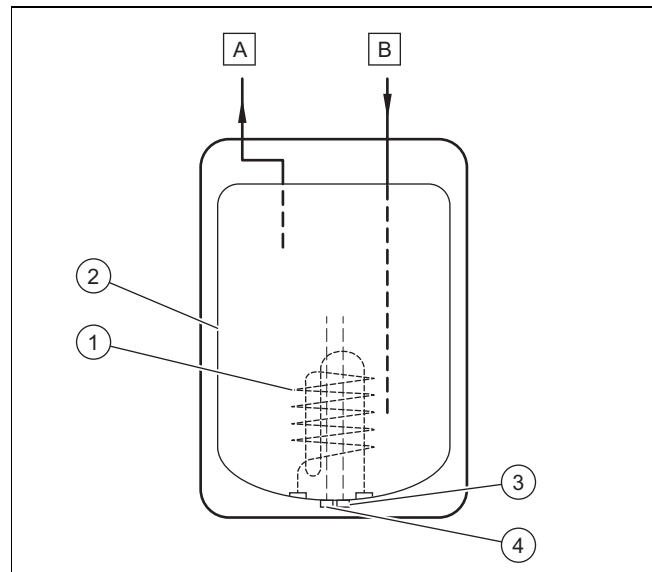
3.1 Functional elements

Applicability: Installation above the work surface



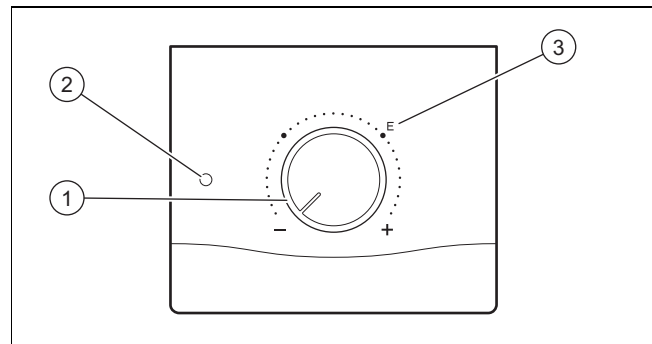
- | | |
|--------------------------|----------------------|
| 1 Heating coil | 4 Temperature sensor |
| 2 Inner vessel | A Hot water outlet |
| 3 Overheating protection | B Cold water inlet |

Applicability: Installation below the work surface



- | | |
|--------------------------|----------------------|
| 1 Heating coil | 4 Temperature sensor |
| 2 Inner vessel | A Hot water outlet |
| 3 Overheating protection | B Cold water inlet |

3.2 Overview of the operator control elements



- | | |
|------------------------|---------------------------|
| 1 Temperature selector | 3 Energy-saving operation |
| 2 Control light | |

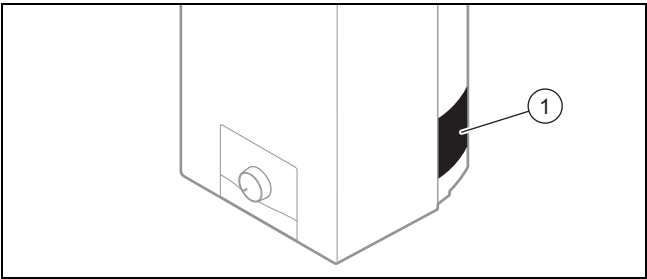
3.3 Information on the identification plate

Information on the identification plate	Meaning
Serial number	For identification purposes; 7th to 16th digits = product article number
VEN ...	System component for the domestic hot water generation
eloSTOR	Product designation
kW	Nominal output
230 V 50 Hz	Voltage – frequency
MPa	Maximum pressure
IP (e.g. X4D)	Degree of protection against water

4 Set-up

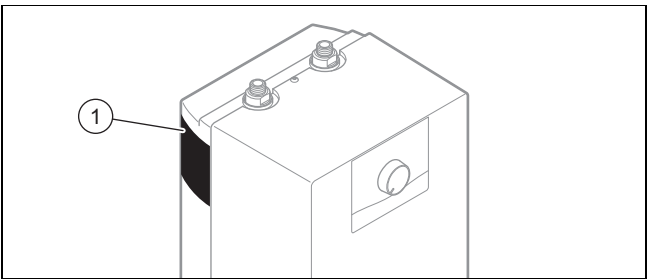
3.4 Installation location for the identification plate

Applicability: Installation above the work surface



1 Identification plate

Applicability: Installation below the work surface



1 Identification plate

3.5 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.

4 Set-up

4.1 Checking the scope of delivery

- Check that the scope of delivery is complete and intact.

Applicability: eloSTOR plus

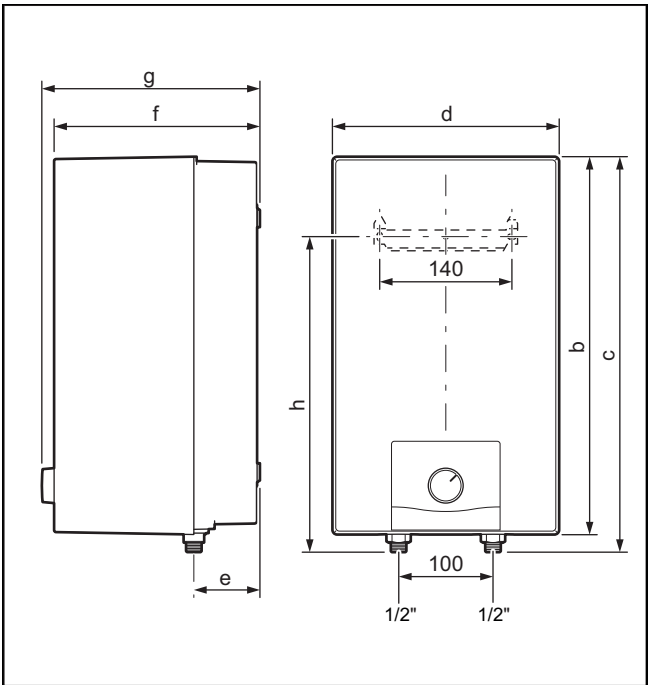
Quantity	Description
1	Product
1	Documentation records
1	Low-pressure valve (depending on the unit variant)
1	Wall-mounting base

Applicability: eloSTOR exclusive

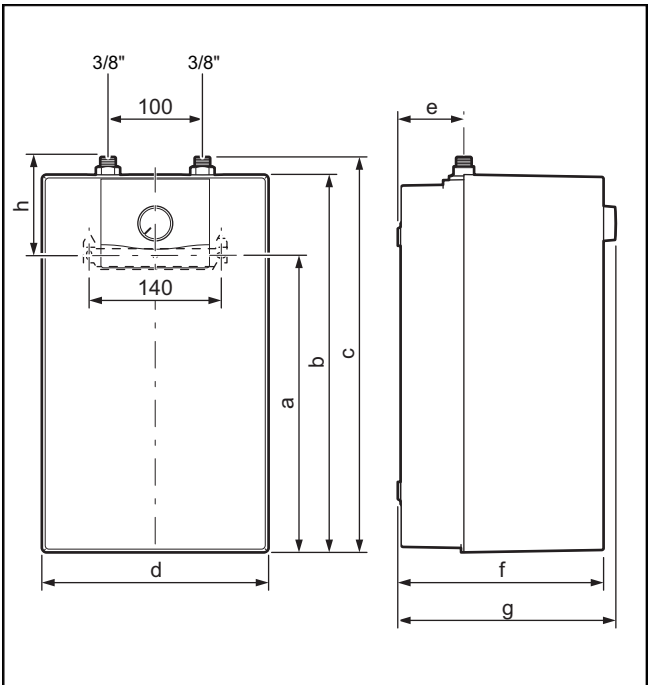
Quantity	Description
1	Product
1	Documentation records
1	Wall-mounting base

4.2 Product dimensions

Applicability: Installation above the work surface



Applicability: Installation below the work surface



Unit dimensions

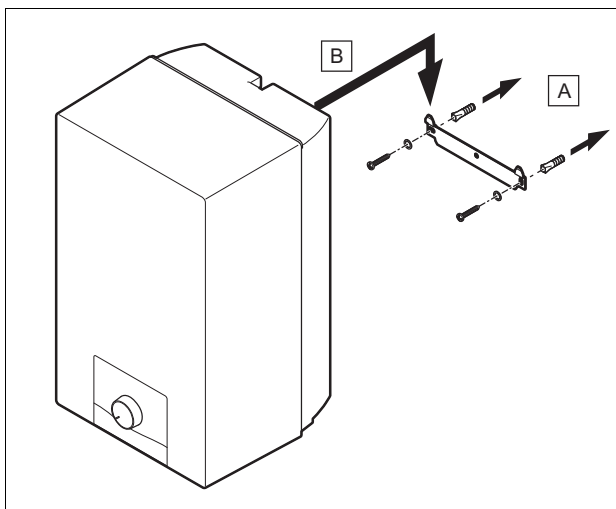
	5L O	5L U
Dimension (a)	–	315 mm
Dimension (b)	400 mm	400 mm
Dimension (c)	419 mm	419 mm
Dimension (d)	240 mm	240 mm
Dimension (e)	70 mm	70 mm

	5L O	5L U
Dimension (f)	218 mm	218 mm
Dimension (g)	232 mm	232 mm
Dimension (h)	335 mm	104 mm

4.3 Wall-mounting the product

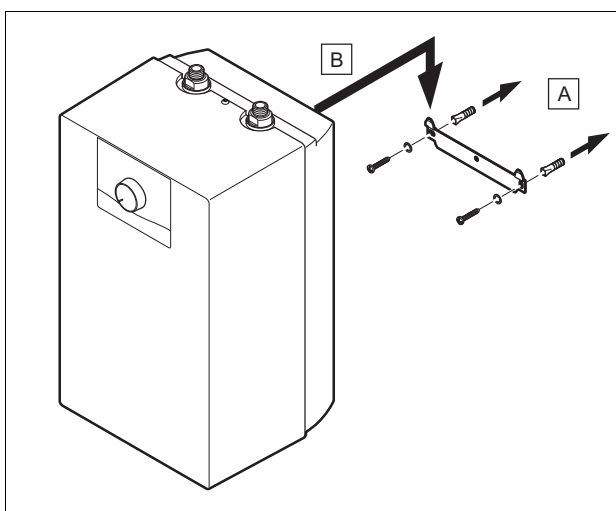
1. Drill the holes in the wall for the rawl plugs.

Applicability: Installation above the work surface



- Use the appropriate fixing material to secure the product to the wall as shown in the illustration.

Applicability: Installation below the work surface



- Use the appropriate fixing material to secure the product to the wall as shown in the illustration.

Conditions: The load-bearing capacity of the wall is sufficient, The fixing material may be used for the wall

- Wall-mount the product as described.

Conditions: The load-bearing capacity of the wall is not sufficient

- Ensure that wall-mounting apparatus on-site has a sufficient load-bearing capacity. Use individual stands or primary walling, for example.

- Do not wall-mount the product if you cannot provide wall-mounting apparatus with a sufficient load-bearing capacity.

5 Installation



Danger!

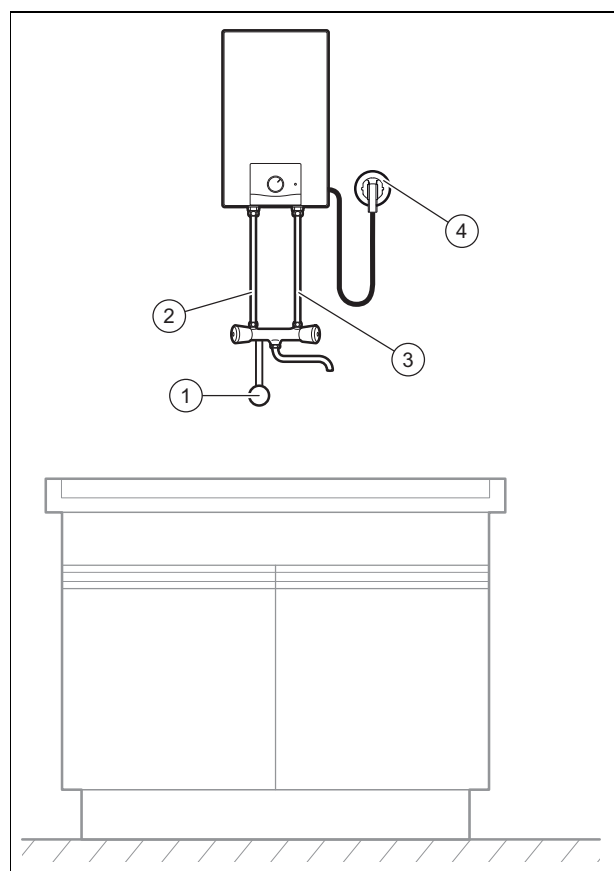
Risk of scalding and/or risk of material damage due to incorrect installation leading to escaping water.

Stresses in supply lines can cause leaks.

- Install the supply lines without tension.

5.1 Establishing the water connection

Applicability: Installation above the work surface

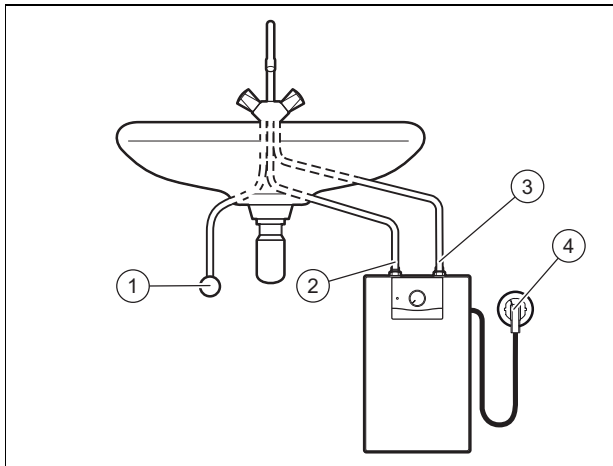


- | | |
|--------------------|--------------------|
| 1 Cold water inlet | 3 Cold water inlet |
| 2 Hot water flow | 4 Power supply |

- Check the water pressure.
 - ◁ The water pressure is, at most, as great as the max. permissible pressure.
 - Water pressure: $\leq 0.5 \text{ MPa}$ ($\leq 5.0 \text{ bar}$)
 - ▽ If the water pressure is greater than the max. permissible pressure, install a domestic pressure regulator.

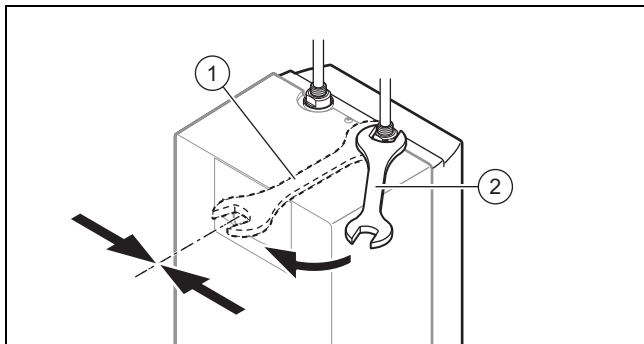
5 Installation

Applicability: Installation below the work surface



- | | |
|--------------------|--------------------|
| 1 Cold water inlet | 3 Cold water inlet |
| 2 Hot water flow | 4 Power supply |

- ▶ Check the water pressure.
 - ◁ The water pressure is, at most, as great as the max. permissible pressure.
 - Water pressure: $\leq 0.5 \text{ MPa}$ ($\leq 5.0 \text{ bar}$)
 - ▽ If the water pressure is greater than the max. permissible pressure, install a domestic pressure regulator.
- 1. Install the restrictor element.
 - ◁ The water flow rate is, at most, as great as the permissible pressure.
 - $\leq 5 \text{ l/min}$



2. Connect the product to the low-pressure fitting.
 - Tightening torque: $\leq 25 \text{ Nm}$ ($\leq 18.4 \text{ ft-lb}_f$)

5.2 Filling the product

1. Open the cold water stop cock.
2. Fill the domestic hot water cylinder.
 - ◁ Always fill the direct electric domestic hot water cylinder with water before you switch it on. The cylinder is full when water escapes as you open the hot water tap.
3. Keep the low-pressure fitting's outlet clear.
 - ◁ Do not connect any hoses or aerators to the fitting.

Applicability: eloSTOR plus

- ◁ When the direct electric domestic hot water cylinder is heating up, hot water may leak out of the tap as a result of thermal expansion.

5.3 Electrical installation



Danger! **Risk of death from electric shock!**

Touching live connections may cause serious personal injury.

- ▶ Disconnect the product from the power supply by interrupting all power supply sources.
- ▶ Ensure that the product is disconnected from the power supply.
- ▶ Secure all of the supply lines and connections in order to prevent the product from being accidentally reconnected to the power supply.

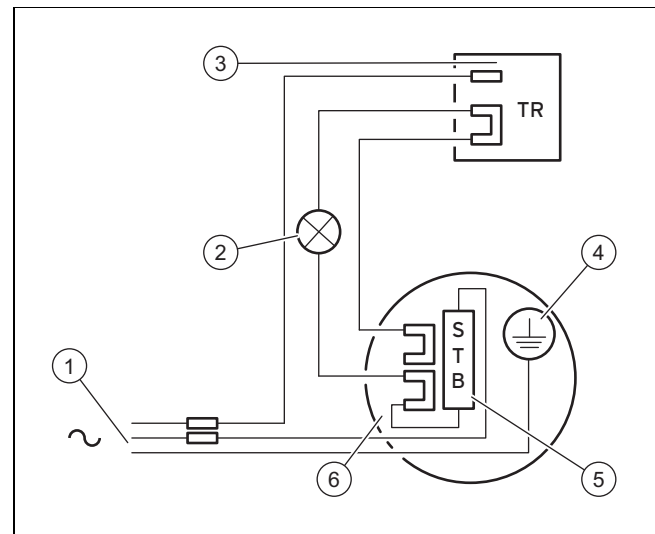


Danger! **Risk of material damage.**

If you do not follow the installation steps, this may result in damage to the product.

- ▶ Do not connect the product to the power mains until the direct electric domestic hot water cylinder is filled with water.

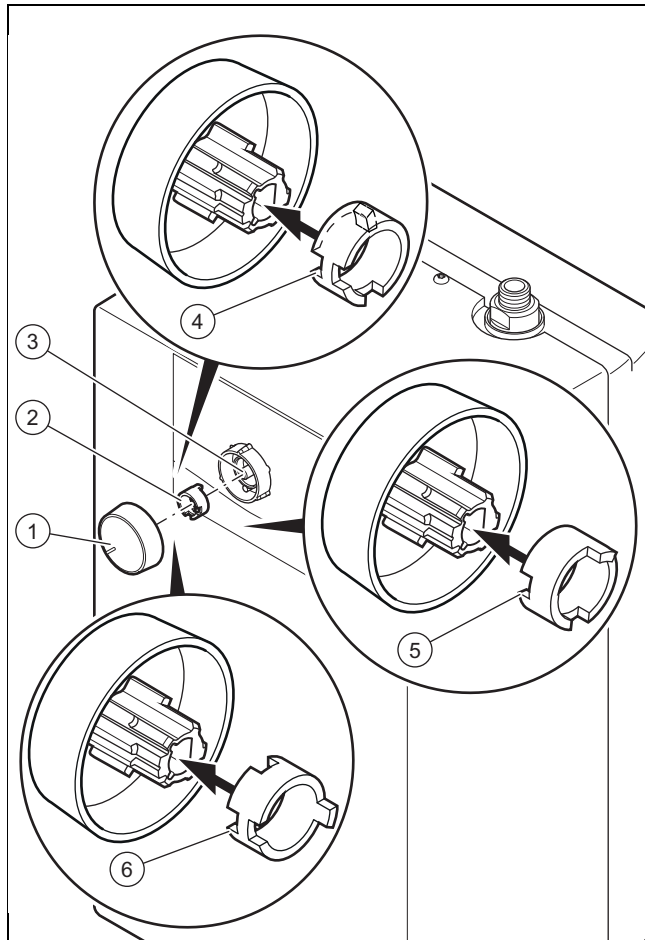
1. Before the electrical installation, check whether local mains voltage matches the specifications on the product's identification plate.



- | | |
|---|--------------------------|
| 1 Mains connection line with mains plug | 4 Earth connection |
| 2 Control light | 5 Overheating protection |
| 3 Temperature control | 6 Heating coil |
2. Plug the mains plug into an earthed socket outlet.
 - ◁ The plug socket must be freely accessible at all times.

6 Start-up

6.1 Setting the hot water temperature



- | | | | |
|---|----------------------------------|---|--------------------------------|
| 1 | Temperature selector knob | 4 | Notch for the setting at 85 °C |
| 2 | Setting ring for the temperature | 5 | Notch for the setting at 40 °C |
| 3 | Adjustment spindle | 6 | Notch for the setting at 60 °C |



Warning.

Risk of being scalded by hot water

There is a risk of scalding at the hot water draw-off points if the temperatures are greater than 60 °C. Young children and elderly persons are particularly at risk, even at lower temperatures.

- Select the hot water temperature so that nobody is at risk.

1. Select a moderate set target temperature.
 - ◄ You can set the set target temperature to either 40 °C, 60 °C or 85 °C.
2. Remove the temperature selection knob (1).
3. Remove the adjusting ring (2) for the temperature selection knob.

Conditions: Limiting the temperature to 40 °C

- Slide the recess (5) for the setting ring onto the nose of the temperature selection knob.

Conditions: Limiting the temperature to 60 °C

- Slide the recess (6) for the setting ring onto the lug of the temperature selection knob.

Conditions: Limiting the temperature to 85 °C (factory setting)

- Slide the recess (4) for the setting ring onto the nose of the temperature selection knob.

4. Fit the temperature selector knob with the setting ring onto the adjusting spindle (3).

6.2 Switching on

1. Ensure that the direct electric domestic hot water cylinder has been filled.
2. Insert the mains plug into the wall socket.
3. Set the temperature selector knob to (E).
 - ◄ The indicator light lights up. It goes out as soon as the set target temperature is reached.

6.3 Handing the product over to the operator

Explain to the operator how the safety devices work and where they are located.

Inform the operator how to handle the product. Answer any questions the operator may have. In particular, draw attention to the safety information which the operator must follow.

Inform the operator of the necessity to have the product maintained according to the specified intervals.

Pass all of the instructions and documentation for the product to the operator for safe-keeping.

7 Troubleshooting

7.1 Contacting your service partner

If you contact your service partner, you should, where possible, specify the type of fault that has occurred.

7.2 Procuring spare parts

The original components of the product were also certified by the manufacturer as part of the declaration of conformity. If you use other, non-certified or unauthorised parts during maintenance or repair work, this may void the conformity of the product and it will therefore no longer comply with the applicable standards.

We strongly recommend that you use original spare parts from the manufacturer as this guarantees fault-free and safe operation of the product. To receive information about the available original spare parts, contact the contact address provided on the reverse of these instructions.

- If you require spare parts for maintenance or repair work, use only the spare parts that are permitted for the product.

8 Inspection and maintenance

8 Inspection and maintenance

8.1 Observing inspection and maintenance intervals

Proper regular inspections (once a year) and maintenance (depending on the result of the inspection, but at least once every two years) combined with the exclusive use of genuine spare parts are decisive factors in ensuring smooth operation and long working life for the product.

We recommend taking out an inspection or maintenance contract.

Inspection

The inspection is intended to determine the actual condition of a product and compare it with the target condition. This is done by measuring, checking and observing.

Maintenance

Maintenance is required in order to eliminate any deviations of the actual condition from the target condition. This is normally done by cleaning, setting and, if necessary, replacing individual components that are subject to wear.

8.2 Replacing the power supply cable

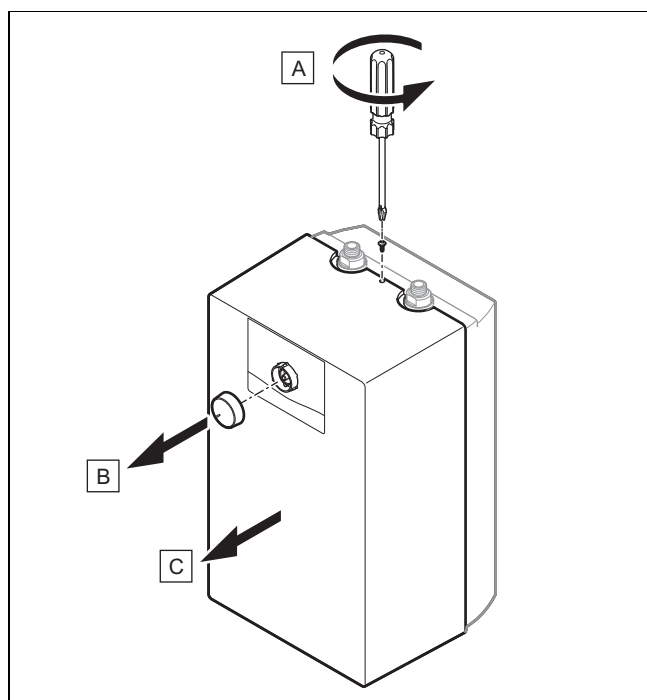


Note

To avoid danger, if the power supply cable is damaged, it must be replaced by the manufacturer, their responsible customer service department or suitably qualified persons.

- Replace it in accordance with the recommendations for the power supply connection.

8.3 Removing/installing the product casing



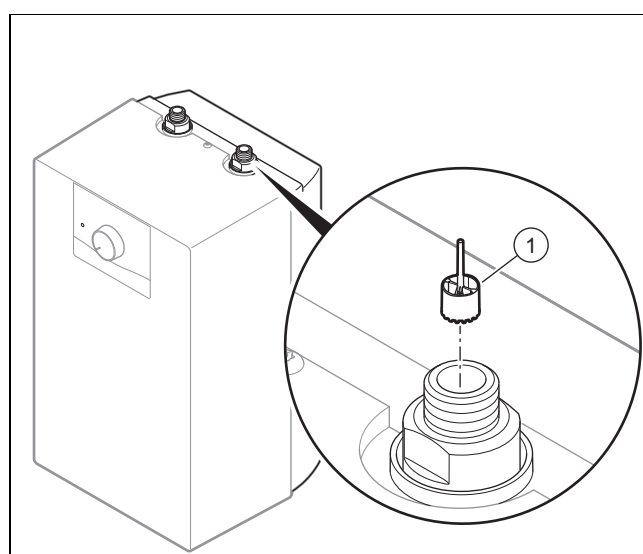
1. Undo the screw (A) between the hydraulic connections.
2. Remove the temperature selector knob (B).
3. Remove the front casing (C).
4. When fitting the casing, carry out the steps described above in reverse.

8.4 Descaling the direct electric domestic hot water cylinder and electrical immersion heater

1. Check whether the inner vessel in the direct electric domestic hot water cylinder has any depositions.
 - ◁ Clean the vessel mechanically if it contains depositions.
2. Remove the electrical immersion heater.
3. Check the condition of the electrical immersion heater.
 - ◁ If required, dip the electrical immersion heater as far as the flange into a descaling agent in order to descale it.

8.5 Cleaning the cold-water filter

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1. Visually inspect the cold-water filter (1) in the cold water connection for dirt and scale.
 - ◁ If there is dirt or scale deposition, remove the cold-water filter to clean it.
2. Put the cold-water filter back into its mount.
3. Connect the product to the cold water inlet.

8.6 Replacing the control and/or safety cut-out

1. Disconnect the product from the power mains and make sure that it cannot be switched back on again.
2. Remove the product casing.
3. Check the condition of the temperature control.
 - ◁ Replace the temperature control when it is out of operation.
4. Check the condition of the temperature cut-out.
 - ◁ Replace the temperature cut-out when it is out of operation.
5. Install the product casing.
6. Connect the product to the power supply.

9 Decommissioning

9.1 Decommissioning the product

- ▶ Disconnect the product from the power mains.
- ▶ Close the cold water stop valve.
- ▶ Close the domestic hot water stopcock.
- ▶ Remove the water connections.
- ▶ Drain the product.

10 Customer service

10.1 Customer service

Applicability: Austria, Vaillant

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Applicability: Germany, Vaillant

Auftragsannahme Vaillant Kundendienst: 021 91 5767901

Appendix

Appendix

A Technical data

Technical data – General

	VEN 5/7-5 O	VEN 5/7-5 U	VEN 5/7-7 U	VEN 5/7-7 U S1
Product type	Direct electric domestic hot water cylinder with system for supplying a draw-off point.	Direct electric domestic hot water cylinder with system for supplying a draw-off point.	Direct electric domestic hot water cylinder with system for supplying a draw-off point.	Direct electric domestic hot water cylinder with system for supplying a draw-off point.
Type of installation	Setting up above the work surface	Setting up below the work surface	Setting up below the work surface	Setting up below the work surface
Inside of the cylinder	Plastic	Plastic	Plastic	Plastic
Operating mode	Single-circuit unit	Single-circuit unit	Single-circuit unit	Single-circuit unit
Recommended tap fitting	Available from the unit supplier	Available from the unit supplier	Available from the unit supplier	Available from the unit supplier
Nominal capacity	5 l	5 l	5 l	5 l
Maximum temperature at the outlet	80 °C	80 °C	80 °C	80 °C
Energy-saving mode	60 °C	60 °C	60 °C	60 °C
Temperature limit possible	– 40 °C – 60 °C	– 40 °C – 60 °C	– 40 °C – 60 °C	– 40 °C – 60 °C
Mixed water volume at 40 °C *	9.5 l	9.5 l	9.5 l	9.5 l
Maximum operating pressure	0 MPa (0 bar)	0 MPa (0 bar)	0 MPa (0 bar)	0 MPa (0 bar)
Product dimensions, width	240 mm	240 mm	240 mm	240 mm
Product dimensions, depth	232 mm	232 mm	232 mm	232 mm
Product dimensions, height	400 mm	400 mm	400 mm	400 mm
Weight when filled with water	8 kg	7.95 kg	7.95 kg	7.95 kg

* The mixed water volume with an operating temperature of 40 °C results from adding cold water to the water in the cylinder, which has a temperature of 65 °C, when the unit is ready to operate.

Technical data – Electrics

	VEN 5/7-5 O	VEN 5/7-5 U	VEN 5/7-7 U	VEN 5/7-7 U S1
Electric connection	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Energy consumption in standby mode/24 hours	0.225 kWh	0.218 kWh	0.218 kWh	0.218 kWh
Level of protection	IP 24 D	IP 24 D	IP 24 D	IP 24 D
Safety	Radio-shielded, does not affect the mains supply	Radio-shielded, does not affect the mains supply	Radio-shielded, does not affect the mains supply	Radio-shielded, does not affect the mains supply
Nominal output	2 kW (2.7 hp)	2 kW (2.7 hp)	2 kW (2.7 hp)	1 kW (1.3 hp)



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Individuelle Beratung



Kostenloser Versand



Hochwertige Produkte



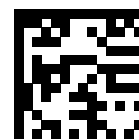
Komplettpakete



Über 15 Jahre Erfahrung



Markenhersteller



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