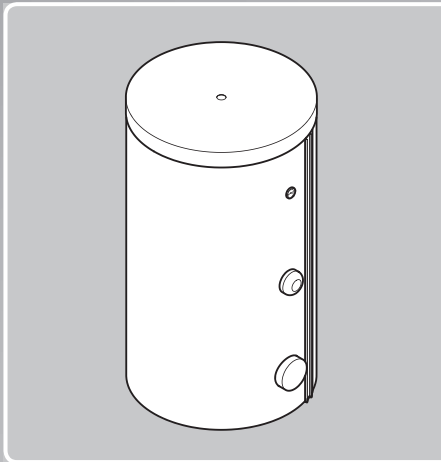


For the operator

Instructions for use



uniSTOR, auroSTOR

Domestic hot water cylinder, solar cylinder

EXPen

Publisher/manufacturer

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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 **VIH R** and **VIH S** solar cylinders are designed to keep drinking water that is heated to a maximum of 85 °C ready for use in households and businesses. The cylinders are designed to be used with the Vaillant solar system. The cylinders are designed to be used in systems with the following output data.

	Continuous power (kW/h)	Continuous power (l/h)
VIH R 750	65*/34**	1596*/835**
VIH R 1000	77*/40**	1891*/982**
VIH R 1500	97*/51**	2382*/1252**
VIH R 2000	118*/62**	2898*/1523**
VIH S 750	60*/31**	1474*/761**
VIH S 1000	60*/32**	1474*/786**
VIH S 1500	77*/40**	1891*/982**

1 Safety

	Continuous power (kW/h)	Continuous power (l/h)
VIH S 2000	87*/48**	2138*/1179**
* Flow temperature 80 °C, hot water outlet temperature 45 °C, cold water inlet temperature 10 °C * Heating flow temperature 60 °C, hot water outlet temperature 45 °C, cold water inlet temperature 10 °C		

To control the hot water generation, weather compensators and control systems from suitable boilers can be used. These are boilers that provide cylinder charging and make use of the compatibility for a temperature sensor.

Intended use includes the following:

- observing the included operating, installation and servicing instructions for the Vaillant product and any other system components
- compliance with all inspection and maintenance conditions listed in the instructions.

This product can be used by children over eight years old and also by persons with limited physical, sensory or mental capabilities or insufficient experience and/or knowledge if they are supervised or have been provided with instructions on how to safely use the product, and they understand the risks resulting from using the product. Children must not play with the product. Cleaning and user maintenance work must not be carried out by children unless they are supervised.

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.

1.3 General safety information

1.3.1 Installation by competent persons only

The installation and start-up, inspection and maintenance, and repair and decommissioning of the product must only be carried out by a competent person.

The only maintenance exception:

- As the operator, you are responsible for checking the indicator lamp that is located on the mains plug (plug potentiostats) for the external current anode (see the "Maintenance" section).



Note

The mains plug is referred to as a plug potentiostat in the operating manual that is supplied for the external current system (→ **Scope of delivery in the operating manual for the external current system**).

1.3.2 Preventing frost damage

If the product is placed out of operation for a relatively long period of time (e.g. during a winter holiday) in an unheated room, the water in the product and pipelines may freeze.

- ▶ Ensure that the entire installation room is always frost-free.

1.3.3 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).

1.3.4 What to do if you find a leak

- ▶ If a leak occurs, immediately close the cold water stop valve on the system.
- ▶ If necessary, ask your competent person where he installed the cold water stop valve.
- ▶ Have the leak repaired by an approved heating specialist company.



1 Safety

1.3.5 Danger due to changes to the product environment

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 changes to the product environment.

- ▶ Never shut down the safety devices.
- ▶ Do not tamper with any of the safety devices.
- ▶ Do not damage or remove any seals on components. Only qualified competent persons and factory service personnel are authorised to make modifications to sealed components.
- ▶ Do not make any changes:
 - to the product
 - to the gas, air, water and electricity supply lines
 - to the drain line and expansion relief valve for the heating water
 - to the structural elements

1.3.6 Cabinet-type casing

Enclosing the product in cabinet-type casing requires compliance with the applicable design instructions.

- ▶ If you require cabinet-type casing for the product, consult an approved heating specialist company. Never, under any circumstances, enclose the product yourself.

1.3.7 Risk of injury and material damage due to maintenance and repairs carried out incorrectly or not carried out at all

If you fail to carry out maintenance, or carry this out incorrectly, this may adversely affect the operational reliability of your product.

- ▶ Ensure that any faults and damage that may negatively affect safety are rectified immediately.
- ▶ Adhere to the maintenance intervals specified (see the "Maintenance" section).
- ▶ Regularly check the indicator lamp (see the "Maintenance" section "Checking the





indicator lamp"). The following instructions are valid for all other maintenance work.

- ▶ Never attempt to carry out maintenance work or repairs on the product yourself.
- ▶ Employ a competent person to carry out maintenance and repair work.

1.3.8 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.

2 Notes on the documentation

2 Notes on the documentation

2.1 Observing other applicable documents

- ▶ You must observe all operating instructions enclosed with the system components.

2.2 Storing documents

- ▶ Keep this manual and all other applicable documents safe for future use.

2.3 Applicability of the instructions

These instructions apply for the following products only:

Type designation	Article number
VIH R 750	0010014931
VIH R 1000	0010014932
VIH R 1500	0010014933
VIH R 2000	0010014934
VIH S 750	0010014935
VIH S 1000	0010014936
VIH S 1500	0010014937
VIH S 2000	0010014938

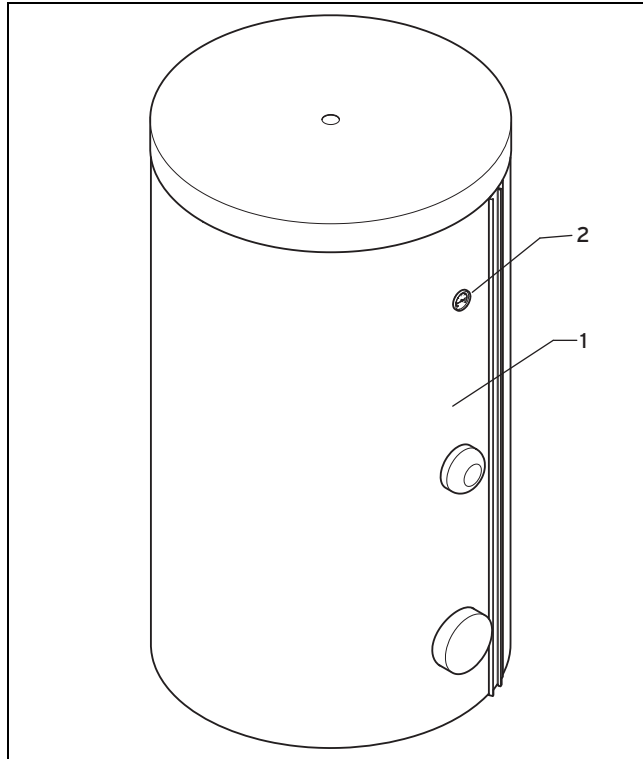
3 Description of the unit and functions

3.1 Task

The solar cylinders are used to maintain hot water in households and businesses. Generally, solar cylinders are operated in conjunction with a solar system.

3.2 Design

VIH R, VIH S



1 Heat insulation

2 Thermometer for the hot water temperature

The cylinder is equipped with external heat insulation. The cylinder vessel is made of enamelled steel. The pipe spirals that transfer the heat are located inside the vessel. For additional corrosion protection, the vessel has two magnesium protection anodes (cylinder with 750 l and 1000 l) or two external current anodes (cylinder with 1500 l and 2000 l). A circulation pump can be used as an option to increase the hot water comfort, particularly at more distant draw-off points.

3.3 Functionality

The **VIH R** domestic hot water cylinders are monovalent cylinders. They have a heat exchanger that is supplied with heat energy using the solar collectors located on the roof and using solar fluid as the transport medium. Alternatively, the heat exchanger can also be operated with a boiler. The heat exchanger is arranged in the lower area of the cylinder. Using the heat energy that rises from the bottom, all the drinking water in the cylinder is heated and usable. When hot water is drawn from the cylinder, cold water will always be pumped into it at the same time.

The **VIH S** solar cylinders are bivalent cylinders. They have two heat exchangers. The lower heat exchanger is supplied with heat energy using the solar collectors located on the roof and using solar fluid as the transport medium. Using the heat energy that rises from the bottom, all the drinking water in the cylinder is heated and usable. If it is not possible to yield solar energy for a long period of time, the upper heat exchanger is available for hot water generation, as it can

4 Operation

be supplied with energy from an additional boiler. When hot water is drawn from the cylinder, cold water will always be pumped into it at the same time.

4 Operation



Caution.**Operating faults due to lack of water withdrawal**

If you withdraw water from the cylinder less frequently than once every two months, gas accumulations may disrupt operation.

- ▶ Allow water to flow out of the water tap at least once every two months.

**Caution.****Corrosion caused by removing the supply lines to the external current anode**

If you disconnect the mains plug (plug potentiostat) or the external current anode supply lines from the power supply, you therefore decommission the external current anode. If you decommission the external current anode while the cylinder is filled with water, the corrosion protection is no longer guaranteed.

- ▶ Ensure that the mains plug (plug potentiostat) is always connected to the power supply while the cylinder is filled with water.
- ▶ Ensure that the supply lines for the external current anode are always connected to the power supply while the cylinder is filled with water.
- ▶ If the cylinder is filled, leave the external current anode in operation, even if you are away for several weeks.
- ▶ Only remove the supply lines if the cylinder has been drained.

-
- ▶ To ensure that the external current anodes and the mains plug (plug potentiostat) are continuously ready for operation, check the indicator lamp (see the "Maintenance" section "Checking the indicator lamp").

5 Caring for the product



Caution.**Risk of material damage caused by unsuitable cleaning agents.**

Unsuitable cleaning agents can damage the casing, the fittings or the operator control elements.

- ▶ Do not use sprays, scouring agents, detergents, solvents or cleaning agents that contain chlorine.

- ▶ Clean the casing with a damp cloth and a little solvent-free soap.

6 Maintenance

6.1 Maintenance

Regular maintenance of the product in accordance with the maintenance schedule is a prerequisite for ensuring that the product is constantly ready and safe for operation, reliable and has a long working life.

As the operator, you may only carry out the following maintenance work:

- Checking the indicator lamp that is on the mains plug (plug potentiostats) for the external current anode

All other maintenance work must only be carried out by a competent person.

6.2 Maintenance plan

6.2.1 Calendar-based maintenance intervals

Calendar-based maintenance intervals

Interval	Maintenance work	Page
Monthly	Applies to: VIH R, VIH S 1500 OR VIH R, VIH S 2000 Checking the indicator lamp	11
Annually after the first 2 years	Applies to: VIH R, VIH S 750 OR VIH R, VIH S 1000 Servicing the magnesium protection anode	12

6.3 Checking the indicator lamp

Applies to: VIH R, VIH S 1500
OR VIH R, VIH S 2000

1. Check the indicator lamp that is located on the mains plug (plug potentiostats) for the external current anode (→ **Scope of delivery in the operating manual for the external current system**).
2. **Alternatives 1 / 2**

Conditions: Indicator lamp: Green

The external current anode and the mains plug (plug potentiostat) are ready for operation.

- ▶ Repeat the test in the maintenance interval.

7 Recycling and disposal

2. Alternatives 2 / 2

Conditions: Indicator lamp: Red or off

- ▶ Consult the cylinder manufacturer's customer service department or your competent person.

6.4 Servicing the magnesium protection anode

Applies to: VIH R, VIH S 750

OR VIH R, VIH S 1000

- ▶ Have the magnesium protection anode serviced by the competent person.



Note

If the magnesium protection anode is up to 60% used, the competent person must replace the magnesium protection anode. When replacing the magnesium protection anode, if the competent person notices dirt in the vessel, they should rinse the vessel.

7 Recycling and disposal

Disposing of the packaging

- ▶ The competent person who installed the product is responsible for disposing of the packaging.

Disposing of the product and accessories

- ▶ Do not dispose of the product or the accessories with household waste.
- ▶ Ensure that the product and all accessories are disposed of properly.
- ▶ Observe all relevant regulations.

8 Decommissioning

- ▶ Make sure that only an authorised competent person decommissions the product.

9 Guarantee

Applies to: EXP English-speaking

For information on the manufacturer's guarantee, you can write to the contact address that is provided on the back page.

10 Customer service

Applies to: EXP English-speaking

For contact details for our customer service department, you can write to the address that is provided on the back page, or you can visit vaillant.com.

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