

uniSTOR HP

VIH RW GB ... BES



Installation and maintenance instructions

Contents

1.2 Risk caused by inadequate qualifications	1	Safety	. 3
1.3 Intended use 3 1.4 General safety information 3 1.5 Regulations (directives, laws, standards) 4 2 Notes on the documentation 5 2.1 Observing other applicable documents 5 2.2 Storing documents 5 2.3 Validity of the instructions 5 2.4 Benchmark 5 3.7 Product description 5 3.8 Product description 5 3.1 Serial number 5 3.2 Information on the data plate 5 3.3 CE marking 5 3.4 Hot Water Association 6 4.5 Set-up 6 4.1 Observing the requirements for the product's installation site 6 4.2 Transport 6 4.3 Unpacking the product 6 4.4 Checking the scope of delivery 7 5. Installation 8 5.1 Installing the product 8 5.2 Hydraulic connection 8 <td>1.1</td> <td>Action-related warnings</td> <td>. 3</td>	1.1	Action-related warnings	. 3
1.4 General safety information 3 1.5 Regulations (directives, laws, standards) 4 2 Notes on the documentation 5 2.1 Observing other applicable documents 5 2.2 Storing documents 5 2.3 Validity of the instructions 5 2.4 Benchmark 5 3.1 Serial number 5 3.2 Information on the data plate 5 3.3 CE marking 5 3.4 Hot Water Association 6 4.1 Observing the requirements for the product's installation site 6 4.1 Observing the product 6 4.2 Transport 6 4.3 Unpacking the product 6 4.4 Checking the scope of delivery 7 4.5 Product dimensions, standard diameter 7 5 Installation 8 5.1 Installation 10 6 Start-up 13 6.1 Istalling the product 8 5.2 Hydraulic connection	1.2	Risk caused by inadequate qualifications	. 3
1.5 Regulations (directives, laws, standards)	1.3	Intended use	. 3
2 Notes on the documentation 5 2.1 Observing other applicable documents 5 2.2 Storing documents 5 2.3 Validity of the instructions 5 2.4 Benchmark 5 3 Product description 5 3.1 Serial number 5 3.2 Information on the data plate 5 3.3 CE marking 5 3.4 Hot Water Association 6 4 Set-up 6 4.1 Observing the requirements for the product's installation site 6 4.2 Transport 6 4.3 Unpacking the product 6 4.4 Checking the scope of delivery 7 4.5 Product dimensions Slimline 7 5 Installation 8 5.1 Installing the product. 8 5.1 Installing the product. 8 5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13	1.4	General safety information	. 3
2 Notes on the documentation 5 2.1 Observing other applicable documents 5 2.2 Storing documents 5 2.3 Validity of the instructions 5 2.4 Benchmark 5 3 Product description 5 3.1 Serial number 5 3.2 Information on the data plate 5 3.3 CE marking 5 3.4 Hot Water Association 6 4 Set-up 6 4.1 Observing the requirements for the product's installation site 6 4.2 Transport 6 4.3 Unpacking the product 6 4.4 Checking the scope of delivery 7 4.5 Product dimensions Slimline 7 5 Installation 8 5.1 Installing the product. 8 5.1 Installing the product. 8 5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13	1.5	Regulations (directives, laws, standards)	. 4
2.2 Storing documents	2		
2.2 Storing documents. 5 2.3 Validity of the instructions. 5 2.4 Benchmark. 5 3 Product description 5 3.1 Serial number 5 3.2 Information on the data plate 5 3.3 CE marking 5 3.4 Hot Water Association 6 4 Set-up 6 4.1 Observing the requirements for the product's installation site 6 4.2 Transport 6 4.3 Unpacking the product. 6 4.4 Checking the scope of delivery. 7 4.5 Product dimensions Slimline 7 5.1 Installation 8 5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13 6.1 Setting the immersion heater thermostat 13 6.2 Cold water inlet pressure 13 6.3 Filling and purging the product 13 6.4 Filling and purging the primary circuit <td>2.1</td> <td></td> <td></td>	2.1		
2.3 Validity of the instructions 5 2.4 Benchmark 5 3 Product description 5 3.1 Serial number 5 3.2 Information on the data plate 5 3.3 CE marking 5 3.4 Hot Water Association 6 4 Set-up 6 4.1 Observing the requirements for the product's installation site 6 4.2 Transport 6 4.3 Unpacking the product 6 4.4 Checking the scope of delivery 7 4.5 Product dimensions Slimline 7 5.1 Installation 8 5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13 6.1 Setting the immersion heater thermostat 13 6.2 Cold water inlet pressure 13 6.3 Filling and purging the product 13 6.4 Filling and purging the product 14 8 Troubleshooting 14<	2.2		
2.4 Benchmark 5 3 Product description 5 3.1 Serial number 5 3.2 Information on the data plate 5 3.3 CE marking 5 3.4 Hot Water Association 6 4 Set-up 6 4.1 Observing the requirements for the product's installation site 6 4.2 Transport 6 4.3 Unpacking the product 6 4.4 Checking the scope of delivery 7 4.5 Product dimensions Slimline 7 4.6 Product dimensions, standard diameter 7 5 Installation 8 5.1 Installation 8 5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13 6.1 Setting the immersion heater thermostat 13 6.2 Cold water inlet pressure 13 6.3 Filling and purging the product 13 6.4 Filling and purging the primary circuit	2.3	-	
3 Product description 5 3.1 Serial number 5 3.2 Information on the data plate 5 3.3 CE marking 5 3.4 Hot Water Association 6 4 Set-up 6 4.1 Observing the requirements for the product's installation site 6 4.2 Transport 6 4.3 Unpacking the product 6 4.4 Checking the scope of delivery 7 4.5 Product dimensions Slimline 7 4.6 Product dimensions, standard diameter 7 5 Installation 8 5.1 Installation 8 5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13 6.1 Setting the immersion heater thermostat 13 6.2 Cold water inlet pressure 13 6.3 Filling and purging the product 13 6.4 Filling and purging the product 14 8 Troubleshooting	2.4	-	
3.1 Serial number 5 3.2 Information on the data plate 5 3.3 CE marking 5 3.4 Hot Water Association 6 4 Set-up 6 4.1 Observing the requirements for the product's installation site 6 4.2 Transport 6 4.3 Unpacking the product 6 4.4 Checking the scope of delivery 7 4.5 Product dimensions Slimline 7 4.6 Product dimensions, standard diameter 7 5 Installation 8 5.1 Installation 8 5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13 6.1 Setting the immersion heater thermostat 13 6.2 Cold water inlet pressure 13 6.3 Filling and purging the product 13 6.4 Filling and purging the primary circuit 13 7 Handing the product over to the end user 14 8	3		
3.2 Information on the data plate 5 3.3 CE marking 5 3.4 Hot Water Association 6 4 Set-up 6 4.1 Observing the requirements for the product's installation site 6 4.2 Transport 6 4.3 Unpacking the product 6 4.4 Checking the scope of delivery 7 4.5 Product dimensions Slimline 7 5 Installation 8 5.1 Installation 8 5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13 6.1 Setting the immersion heater thermostat 13 6.2 Cold water inlet pressure 13 6.3 Filling and purging the product 13 6.4 Filling and purging the product 13 6.3 Filling and purging the product 14 8 Troubleshooting 14 8.1 Detecting and eliminating faults 14 8.2 Procuring	3.1	-	
3.3 CE marking 5 3.4 Hot Water Association 6 4 Set-up 6 4.1 Observing the requirements for the product's installation site 6 4.1 Observing the requirements for the product's installation site 6 4.2 Transport 6 4.3 Unpacking the product 6 4.4 Checking the scope of delivery 7 4.5 Product dimensions Slimline 7 5 Installation 8 5.1 Installation 8 5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13 6.1 Setting the immersion heater thermostat 13 6.2 Cold water inlet pressure 13 6.3 Filling and purging the product 13 6.4 Filling and purging the product 13 6.4 Filling and purging the product 14 8 Troubleshooting 14 8.1 Detecting and eliminating faults 14	3.2		
3.4 Hot Water Association 6 4 Set-up 6 4.1 Observing the requirements for the product's installation site 6 4.2 Transport 6 4.3 Unpacking the product 6 4.4 Checking the scope of delivery 7 4.5 Product dimensions Slimline 7 4.6 Product dimensions, standard diameter 7 5 Installation 8 5.1 Installing the product. 8 5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13 6.1 Setting the immersion heater thermostat 13 6.2 Cold water inlet pressure 13 6.3 Filling and purging the product 13 6.4 Filling and purging the primary circuit 13 7 Handing the product over to the end user 14 8 Troubleshooting 14 8.1 Detecting and eliminating faults 14 9.1 Inspection and maintenance 14 <td>-</td> <td>•</td> <td></td>	-	•	
4 Set-up		.	
4.1 Observing the requirements for the product's installation site 6 4.2 Transport 6 4.3 Unpacking the product. 6 4.4 Checking the scope of delivery. 7 4.5 Product dimensions Slimline 7 4.6 Product dimensions, standard diameter 7 5 Installation 8 5.1 Installing the product. 8 5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13 6.1 Setting the immersion heater thermostat. 13 6.2 Cold water inlet pressure 13 6.3 Filling and purging the product. 13 6.4 Filling and purging the product over to the end user 14 8 Troubleshooting 14 8.1 Detecting and eliminating faults 14 8.1 Detecting and eliminating faults 14 9.1 Inspection and maintenance 14 9.1 Observing inspection and maintenance 14 9.2 Drainin	•••		
installation site64.2Transport64.3Unpacking the product64.4Checking the scope of delivery74.5Product dimensions Slimline74.6Product dimensions, standard diameter75Installation85.1Installing the product85.2Hydraulic connection85.3Electrical installation106Start-up136.1Setting the immersion heater thermostat136.2Cold water inlet pressure136.3Filling and purging the product136.4Filling and purging the primary circuit137Handing the product over to the end user148Troubleshooting148.1Detecting and eliminating faults149Inspection and maintenance149.1Observing inspection and maintenance149.2Draining the product149.3Checking the safety group's expansion relief valve and the cylinder's expansion relief valve and th		-	
4.3 Unpacking the product			. 6
4.4 Checking the scope of delivery	4.2	Transport	. 6
4.4 Checking the scope of delivery	4.3	Unpacking the product	. 6
4.6 Product dimensions, standard diameter 7 5 Installation 8 5.1 Installing the product. 8 5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13 6.1 Setting the immersion heater thermostat 13 6.2 Cold water inlet pressure 13 6.3 Filling and purging the product 13 6.4 Filling and purging the primary circuit 13 7 Handing the product over to the end user 14 8 Troubleshooting 14 8.1 Detecting and eliminating faults 14 8.2 Procuring spare parts 14 9 Inspection and maintenance 14 9.1 Observing inspection and maintenance 14 9.2 Draining the product 14 9.3 Checking the safety group's expansion relief valve 14 9.3 Checking the pre-charge pressure of the expansion vessel 14 9.4 Checking the pre-charge pressure of the expansion vessel 14	4.4		
5Installation85.1Installing the product.85.2Hydraulic connection85.3Electrical installation106Start-up136.1Setting the immersion heater thermostat.136.2Cold water inlet pressure136.3Filling and purging the product136.4Filling and purging the primary circuit137Handing the product over to the end user148Troubleshooting148.1Detecting and eliminating faults149Inspection and maintenance149.1Observing inspection and maintenance149.2Draining the product149.3Checking the safety group's expansion relief valve and the cylinder's expansion relief valve149.4Checking the pre-charge pressure of the expansion vessel1410Decommissioning the product1411Customer service14Appendix15	4.5	Product dimensions Slimline	. 7
5.1 Installing the product	4.6	Product dimensions, standard diameter	. 7
5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13 6.1 Setting the immersion heater thermostat 13 6.2 Cold water inlet pressure 13 6.3 Filling and purging the product 13 6.4 Filling and purging the primary circuit 13 7 Handing the product over to the end user 14 8 Troubleshooting 14 8.1 Detecting and eliminating faults 14 8.2 Procuring spare parts 14 9 Inspection and maintenance 14 9.1 Observing inspection and maintenance 14 9.2 Draining the product 14 9.3 Checking the safety group's expansion relief valve 14 9.4 Checking the pre-charge pressure of the expansion vessel 14 10 Decommissioning the product 14 11 Customer service 14 14 Appendix 15	5	Installation	. 8
5.2 Hydraulic connection 8 5.3 Electrical installation 10 6 Start-up 13 6.1 Setting the immersion heater thermostat. 13 6.2 Cold water inlet pressure 13 6.3 Filling and purging the product 13 6.4 Filling and purging the primary circuit 13 7 Handing the product over to the end user 14 8 Troubleshooting 14 8.1 Detecting and eliminating faults 14 8.2 Procuring spare parts 14 9 Inspection and maintenance 14 9.1 Observing inspection and maintenance 14 9.2 Draining the product 14 9.3 Checking the safety group's expansion relief valve 14 9.4 Checking the pre-charge pressure of the expansion vessel 14 10 Decommissioning the product 14 11 Customer service 14 14 Appendix 15	5.1	Installing the product	. 8
6Start-up136.1Setting the immersion heater thermostat136.2Cold water inlet pressure136.3Filling and purging the product136.4Filling and purging the primary circuit137Handing the product over to the end user148Troubleshooting148.1Detecting and eliminating faults148.2Procuring spare parts149Inspection and maintenance149.1Observing inspection and maintenance149.2Draining the product149.3Checking the safety group's expansion relief valve and the cylinder's expansion relief valve149.4Checking the pre-charge pressure of the expansion vessel1410Decommissioning the product1411Customer service14Appendix15	5.2	Hydraulic connection	. 8
6.1Setting the immersion heater thermostat.136.2Cold water inlet pressure136.3Filling and purging the product136.4Filling and purging the primary circuit137Handing the product over to the end user148Troubleshooting148.1Detecting and eliminating faults148.2Procuring spare parts149Inspection and maintenance149.1Observing inspection and maintenance149.2Draining the product149.3Checking the safety group's expansion relief valve and the cylinder's expansion relief valve149.4Checking the pre-charge pressure of the expansion vessel1410Decommissioning the product1411Customer service14Appendix15	5.3	Electrical installation	10
6.2 Cold water inlet pressure 13 6.3 Filling and purging the product 13 6.4 Filling and purging the primary circuit 13 7 Handing the product over to the end user 14 8 Troubleshooting 14 8.1 Detecting and eliminating faults 14 8.2 Procuring spare parts 14 9 Inspection and maintenance 14 9.1 Observing inspection and maintenance 14 9.2 Draining the product 14 9.3 Checking the safety group's expansion relief valve and the cylinder's expansion relief valve 14 9.4 Checking the pre-charge pressure of the expansion vessel 14 10 Decommissioning the product 14 11 Customer service 14 Appendix 15	6	Start-up	13
6.3Filling and purging the product136.4Filling and purging the primary circuit137Handing the product over to the end user148Troubleshooting148.1Detecting and eliminating faults148.2Procuring spare parts149Inspection and maintenance149.1Observing inspection and maintenance149.2Draining the product149.3Checking the safety group's expansion relief valve and the cylinder's expansion relief valve149.4Checking the pre-charge pressure of the expansion vessel1410Decommissioning the product1411Customer service14Appendix15	6.1	Setting the immersion heater thermostat	13
6.4 Filling and purging the primary circuit 13 7 Handing the product over to the end user 14 8 Troubleshooting 14 8.1 Detecting and eliminating faults 14 8.2 Procuring spare parts 14 9 Inspection and maintenance 14 9.1 Observing inspection and maintenance 14 9.2 Draining the product 14 9.3 Checking the safety group's expansion relief valve 14 9.3 Checking the pre-charge pressure of the expansion vessel 14 10 Decommissioning the product 14 11 Customer service 14	6.2	Cold water inlet pressure	13
7Handing the product over to the end user148Troubleshooting148.1Detecting and eliminating faults148.2Procuring spare parts149Inspection and maintenance149.1Observing inspection and maintenance149.2Draining the product149.3Checking the safety group's expansion relief valve and the cylinder's expansion relief valve149.4Checking the pre-charge pressure of the expansion vessel1410Decommissioning the product1411Customer service14Appendix15	6.3	Filling and purging the product	13
8 Troubleshooting 14 8.1 Detecting and eliminating faults 14 8.2 Procuring spare parts 14 9 Inspection and maintenance 14 9.1 Observing inspection and maintenance 14 9.2 Draining the product 14 9.3 Checking the safety group's expansion relief valve and the cylinder's expansion relief valve 14 9.4 Checking the pre-charge pressure of the expansion vessel 14 10 Decommissioning the product 14 11 Customer service 14	6.4	Filling and purging the primary circuit	13
8.1 Detecting and eliminating faults	7	Handing the product over to the end user	14
8.2 Procuring spare parts 14 9 Inspection and maintenance 14 9.1 Observing inspection and maintenance 14 9.2 Draining the product 14 9.3 Checking the safety group's expansion relief valve and the cylinder's expansion relief valve 14 9.4 Checking the pre-charge pressure of the expansion vessel 14 10 Decommissioning the product 14 11 Customer service 14 Appendix 15 15	8	Troubleshooting	14
9Inspection and maintenance149.1Observing inspection and maintenance intervals149.2Draining the product149.3Checking the safety group's expansion relief valve and the cylinder's expansion relief valve149.4Checking the pre-charge pressure of the expansion vessel1410Decommissioning the product1411Customer service14Appendix15	8.1	Detecting and eliminating faults	14
9.1 Observing inspection and maintenance intervals 14 9.2 Draining the product 14 9.3 Checking the safety group's expansion relief valve and the cylinder's expansion relief valve 14 9.4 Checking the pre-charge pressure of the expansion vessel 14 10 Decommissioning the product 14 11 Customer service 14	8.2	Procuring spare parts	14
intervals	9	Inspection and maintenance	14
9.3 Checking the safety group's expansion relief valve and the cylinder's expansion relief valve 14 9.4 Checking the pre-charge pressure of the expansion vessel 14 10 Decommissioning the product	9.1		14
valve and the cylinder's expansion relief valve 14 9.4 Checking the pre-charge pressure of the expansion vessel	9.2	Draining the product	14
expansion vessel	9.3		14
10Decommissioning the product1411Customer service14Appendix15	9.4	Checking the pre-charge pressure of the	14
11 Customer service	10	-	14
	11		14
A Detecting and eliminating faults 15	Append	dix	. 15
	Α	Detecting and eliminating faults	15

В	Inspection and maintenance work – Overview	15
С	Technical data	16
D	Commissioning Checklist	18
Index .		21

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 symbols 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 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
- Proceed in accordance with current technology.

1.3 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 intended as a system component for domestic hot water generation and storage for closed central heating installations.

 observance of accompanying operating, installation and maintenance instructions for the product and any other system components

- installing and setting up 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.

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.

1.4 General safety information

1.4.1 Risk of death due to lack of safety devices

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

- Install the necessary safety devices in the installation.
- Observe the applicable national and international laws, standards and directives.

1.4.2 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.

1.4.3 Risk of burns or scalding caused by hot components

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

1.4.4 Risk of material damage caused by using an unsuitable tool

Use the correct tool.

- 1.4.5 Risk of material damage caused by frost
- Do not install the product in rooms prone to frost.

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

- Make sure that the product is transported by at least two people.
- 1.5 Regulations (directives, laws, standards)
- Observe the national regulations, standards, directives, ordinances and laws.

2 Notes on the documentation

2.1 Observing other applicable documents

 Always 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 end user.

2.3 Validity of the instructions

These instructions apply only to:

Product article number

VIH RW GB 150 BES	0010019230
VIH RW GB 200 BES	0010019231
VIH RW GB 250 BES	0010019232
VIH RW GB 300 BES	0010019233

2.4 Benchmark

Vaillant is a licensed member of the Benchmark Scheme.

Benchmark places responsibilities on both manufacturers and installers. The purpose is to ensure that customers are provided with the correct equipment for their needs, that it is installed, commissioned and serviced in accordance with the manufacturer's instructions by a competent person approved at the time by the Health and Safety Executive and that it meets the requirements of the appropriate Building Regulations. The Benchmark Checklist can be used to demonstrate compliance with Building Regulations and should be provided to the customer for future reference.

Installers are required to carry out installation, commissioning and servicing work in accordance with the Benchmark Code of Practice which is available from the Heating and Hotwater Industry Council who manage and promote the Scheme.

Benchmark is managed and promoted by the Heating and Hotwater Industry Council.



For more information visit www.centralheating.co.uk

3 Product description

3.1 Serial number



You can find the serial number on the data plate (1), which is located on the cylinder below the electronics box.

3.2 Information on the data plate

The data plate is attached to the product at the factory.

The data plate keeps record of the country in which the product is to be installed.

This product meets the requirements of standard EN 12897:2016.

3.3 CE marking

CE

The CE marking shows that the products comply with the basic requirements of the applicable directives as stated on the declaration of conformity.

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

3.4 Hot Water Association

Vaillant is a full member of the Hot Water Association and promotes the scheme in association with its cylinder range. Details are available on the web site www.vaillant.co.uk



4 Set-up

4.1 Observing the requirements for the product's installation site



Caution. Material damage due to frost

If the water in the system freezes, there is a risk of damage to the domestic hot water cylinder.

 Install the cylinder in a dry, permanently frost-free room.



Caution.

Material damage due to escaping water

In the event of damage, water may escape from the cylinder.

Select the installation site so that, in the event of damage, large volumes of water can be drained safely (e.g. into a floor drain).



Caution.

Material damage due to high load

When filled, the cylinder may damage the ground on which it stands due to its weight.

- Take into consideration the weight of the filled cylinder and the load-bearing capacity of the floor.
- ► If required, reinforce the installation area.

Select a sensible installation site and take into consideration the routing of the pipework system.

Install the cylinder as close as possible to the heat generator in order to minimise heat losses.

Set up the product in a suitable location in a room and, when doing so, pay attention to the following points:

- Plan the installation of the tundish. $(\rightarrow Page 8)$
- The installation surface must be even and have sufficient load-bearing capacity to support the total weight of the product.
- The installation site must be frost-free.
- Install the product in such a way that the thermostat and immersion heater can be accessed easily.

- Leave sufficient space around the product for installing, maintaining and replacing the expansion vessel.

To prevent heat losses, the pipework system must have heat insulation in accordance with the applicable energy-saving regulations.

4.2 Transport

Caution.



Risk of material damage caused by incorrect transport.

The components attached to the cylinder must not be used to transport the cylinder. Otherwise there is a risk that the cylinder could malfunction.

 Do not use the components attached to the cylinder to transport it.



Always transport the unit as illustrated above.



Never transport the unit while it is horizontal.

4.3 Unpacking the product

- 1. Remove the product from its box.
- 2. Remove the protective film from all of the product's components.

Caution.

Risk of material damage caused by unpacking incorrectly.

The components could become damaged when unpacking the product.

- Carefully unpack the product.
- 3. Remove the product from its box.

4. Remove the protective film from all of the product's components.

4.4 Checking the scope of delivery

• Check that the scope of delivery is complete.

Quant- ity	Designation
1	Domestic hot water cylinder
1	Enclosed documentation
1	Expansion vessel

4.5 Product dimensions Slimline



4.6 Product dimensions, standard diameter

Validity: VIH RW GB 200 BES OR VIH RW GB 250 BES OR VIH RW GB 300 BES



Dimensions (mm)							
	Α	В	С	D			
VIH RW GB 200 BES	1,265	940	675	470			
VIH RW GB 250 BES	1,535	1,210	865	565			
VIH RW GB 300 BES	1,745	1,420	865	565			

5 Installation

5.1 Installing the product

► Align the product horizontally.

5.2 Hydraulic connection

Caution.

Risk of damage caused by heat transfer when welding.

The heat that is transferred during welding may damage the cylinder and its components as well as the connection seals.

- Protect the product and its components.
- Do not weld the connection pieces if these have been screwed into the pipe fittings.



Caution.

Risk of material damage by drilling through the product.

The product may be damaged by drilling work.

• Do not drill through the product.



Caution.

Risk of material damage to the cylinder.

If an unvented hot water cylinder is fitted at a high level (eg, loft space), potential damage to the cylinder may occur if the correct method of draining is not followed.

In certain circumstances and at the discretion of the installer, install a WRAS approved automatic air vent on the hot water outlet at the highest point.



1 Cylinder heating return 2 Tundish

- 3 Safety assembly
- 4 Cold water connection
- 5 Domestic hot water expansion relief valve
- 6 Domestic hot water
 - connection Cylinder heating inlet
- flow 10 Dry pocket for the temperature sensor 11 Heating flow from the heat pump

3-port motorised valve

Heating circuit heating

12 Drain valve

5.2.1 Connecting the product to the brine circuit

8

9

- Connect the brine circuit to the product.
 - Minimum diameter of the copper pipe: ≥ 28 mm



7

Note Ensure that

Ensure that the distance between the heat generator and the product is as small as possible in order to prevent heat losses.

5.2.2 Installing an expansion vessel

- 1. Install the expansion vessel close to the product.
- 2. Install a pipe at the expansion vessel and connect the terminal to the safety group.

5.2.3 Connecting the installation's cold water inlet

 Connect the cold water connection to the safety assembly.

5.2.4 Installing a discharge pipe

Drain pipe

The drain connections of the temperature and pressure relief valve and the expansion relief valve must be connected to the supplied tundish via 15-mm-thick copper pipes. The tundish must be installed vertically, as close to the cylinder as possible and with a maximum clearance of 600 mm from the connection of the temperature and pressure relief valve. It must be installed in the same room as the cylinder, but at a sufficient distance from electrical components. The drain pipes from the temperature and pressure relief valve and from the expansion relief valve can be connected above the tundish using a T-piece. The drain pipe from the 22 mm connection of the tundish must consist of copper pipes with a diameter of at least 22 mm and be connected to a safe and visible drainage point. The vertical section of pipe beneath the tundish must be at least 300 mm long before any bends or diversions in the line. If the total resistance of the drain pipework exceeds the values in the following table, you must increase the diameter of the pipework. When installing the drain pipework, comply with the standards, directives and laws that are applicable in your country.

Size of the outlet valve	Minimum diameter of the discharge pipe D1	Minimum diameter of the dis- charge pipe from the tun- dish D2	Maximum permiss- ible res- istance, inform- ation on the length of a straight pipe	Resist- ance per elbow or bend
		22 mm	9 mm	0.8 m
1/2"	15 mm	28 mm	≤ 18 m	1.0 m
		35 mm	≤ 27 m	1.4 m

Size of the outlet valve	Minimum diameter of the discharge pipe D1	Minimum diameter of the dis- charge pipe from the tun- dish D2	Maximum permiss- ible res- istance, inform- ation on the length of a straight pipe	Resist- ance per elbow or bend
		28 mm	≤9 m	1.0 m
3/4"	22 mm	35 mm	≤ 18 m	1.4 m
		42 mm	≤ 27 m	1.7 m
		35 mm	≤9 m	1.4 m
1"	28 mm	42 mm	≤ 18 m	1.7 m
		54 mm	≤ 27 m	2.3 m

Sample calculation

The following example corresponds to a temperature and pressure relief valve G1/2 with a drain pipe (D2) with four 22 mm elbows and a length of 7 m from the tundish to the drainage point. According to the table, the maximum permissible resistance for a straight length of a 22-mm-thick copper discharge pipe (D2) of a thermal expansion relief valve G1/2 is 9.0 m. The resistance of the four 22 mm elbows, which are each 0.8 m in length, must be subtracted from this, i.e. a total of 3.2 m. The maximum permitted length is accordingly 5.8 m and is therefore below the current length of 7 m. The calculation must therefore be performed using the second largest size. The maximum permissible resistance for a straight length of a 28-mm-thick pipe (D2) of a thermal expansion relief valve G1/2 is 18 m. The resistance of the four 28 mm elbows, which are each 1.0 m in length, must be subtracted from this, i.e. a total of 4.0 m. The maximum permitted length is accordingly 14 m. As the current length is 7 m, a 28 mm copper pipe (D2) should be selected.

A suitable location for the discharge pipe terminal is, for example, beneath a fixed mesh above the odour trap in a soakaway with a siphon. Low drain pipework, for example up to 100 mm above external surfaces (car parks, meadows, etc.) can be used provided that it is protected by a wire fence or something similar to prevent children from coming into contact with the waste water and provided that the system is not visible. Do not install any valves or stopcocks on the drain pipework.

Make sure that the discharge pipe from the tundish to the drain has a constant downward gradient of at least 1:200. The discharge pipe for the heat generator expansion relief valve can be connected to the horizontal discharge pipe for the cylinder behind the tundish using a T-piece.



Drain pipe

I Temperature and pres- 2 Tundish sure relief valve

5.2.4.1 High-level drain

Installing the highest drain is permitted as long as this does not present a danger to anyone in or outside the building at the drain point. Examples of points to consider when deciding whether a location is suitable for the highest drain:

- The possibility (taking the wind into account) that a person might stay in the area where the water is drained for a prolonged period of time, and, if this is the case, whether the water is sufficiently cooled by that point to pose no danger. The thermal conductivity of the material surfaces, the climatic conditions, the installation location and the drain pipework direction can, to different extents, contribute to reducing the temperature of the water that is being drained.
- The position of the windows and other openings.
- The probability of prams being under the drain opening.
- The resistance of the surface to hot water.
- The possibility of ice forming if water drains onto access paths.

5.2.5 Installing the temperature sensor for the immersion heater

Note

The temperature sensor is used to control the immersion heater via a multi-functional module or a control.



Condition: With a multi-functional module or control



Secure the temperature sensor.

Validity: VIH RW GB 150 BES

Condition: With a multi-functional module or control



5.2.6 Secondary return

Validity: VIH RW GB 250 BES OR VIH RW GB 300 BES



- 3 Secondary return pipe
 - Circulation pump

5

Non-return valve

5.3 Electrical installation

Danger!



4

Risk of death from electric shock!

The power supply terminals L and N are live:

- Switch off the power supply.
- Secure the power supply against being switched back on.

Caution.

Risk of material damage by drilling through the product.

The product may be damaged by drilling work.

• Do not drill through the product.



4

Immersion heater thermostat

1

2

stat Retainer for temperature sensor

5.3.1 Optional combination of thermostats

Use the wiring diagram in the system instructions for the installation.

5.3.2 Thermostats



If you are using a control from another brand, use the optional cylinder thermostats.

The thermostat connections make it possible to install a connection box in addition to the Vaillant control.

5.3.3 Thermostats



- 1 Thermal cut-out and reset knob for the immersion heater
- 3 Setting the temperature of the primary circuit
- 2 Thermal cut-out and reset knob for the primary circuit
- 4 Immersion heater temperature control

5.3.4 Cable route

Validity: Except for VIH RW GB 150 BES



 Use the grommets that are included in the scope of delivery for the cylinder in the electronics box.

Validity: VIH RW GB 150 BES



 Use the grommets that are included in the scope of delivery for the cylinder in the electronics box.

5.3.5 Connecting the immersion heater to the power supply



- 1. Remove the cover for the electrics on the cylinder.
- 2. Install a separate power supply for the immersion heater in accordance with the applicable standards.
- 3. Use heat-resistant cables for the immersion heater connection.

Diameter of the cable: 1.5 mm²

- 4. Connect the thermal cut-out to the mains power supply using a double-pole disconnector with a contact gap of at least 3 mm at both poles.
- 5. Protect the electrical circuit using a fuse.
 - Fuse: 13 A
- 6. Connect the immersion heater as shown in the basic diagram.
- 7. Attach the cover for the electrics on the cylinder.

5.3.6 Electrical connection of the temperature sensor

Condition: With a multi-functional module or control

Connect the temperature sensor to the multi-functional module or the control; to do this, see the instructions for the control or multi-functional module.

5.3.7 Connecting the control

Condition: eBUS

The thermal cut-out for the primary circuit is not used when connecting an eBUS unit.

Condition: 230 V control

If you use a 230 V control from a third-party manufacturer, connect the thermal cut-out (2) and (3) for the primary circuit to the motorised valve to isolate the heat source in the event of a fault in the motorised valve.

5.3.8 Electric connection for the primary circuit

- 1. Connect the thermostat for the primary circuit and the thermal cut-out.
 - Diameter of the cable: 1.5 mm²

Condition: S plan





Condition: Y plan



Connect the plug (1) to the electronics box.

5.3.9 Establishing the electrical connection for the motorised valve

 Establish the electrical connection for the motorised valve.

6 Start-up

6.1 Setting the immersion heater thermostat



The domestic hot water temperature is controlled via the immersion heater thermostat (1).

Condition: Without a multi-functional module or control

Set the domestic hot water temperature as you require.

Condition: With a multi-functional module or control

Set the immersion heater thermostat (1) to its maximum.

The temperature of the immersion heater is regulated via the temperature sensor that is installed on the carrier in the electronics box.

6.2 Cold water inlet pressure

The product's efficiency depends on the cold water inlet pressure.

To achieve optimum efficiency, we recommend a pressure of at least 2 bar.

6.3 Filling and purging the product

Note

It is not permitted to use valves or expansion relief valves for the purging.

- 1. Check whether the drain valve is closed.
- 2. Open the domestic hot water draw-off valves.
- 3. Open the water supply valve.
- 4. Open the manual air separator at the top of the cylinder.
- 5. Let the water flow in order to remove any air bubbles.
- 6. Close the manual air separator as soon as all of the air has escaped.
- 7. Close the domestic hot water draw-off valves.
- 8. Check whether there are any leaks. Check the immersion heater in particular.
- 9. Open the highest hot water supply valve, and then the lowest hot water supply valve, and let the water flow.
 - − Water running time: \geq 5 min
- 10. Close all of the draw-off valves.

6.4 Filling and purging the primary circuit

Note

The primary circuit can be filled using a filling device or a separate filling cock, which is installed at a location that is easily accessible.

The separate filling cock must be removed after filling.

If a filling device is used, close the filling valve and remove the filling device.

Legal requirements mean that you must not use a separate filling tap. Use a pump.

- 1. Move the lever to MAN OPEN and hold it in this position.
- Flush out the primary circuit and then fill and purge it. Consult the installation instructions for the heat generator.
- 3. Move the lever to AUTO.
- 4. Remove the cover for the electrics.
- 5. Set the product's thermostat and the immersion heater's thermostat.

Setting the thermostats: 60 °C

- 6. Start up the heat generator.
- 7. Drain the heating circuit as soon as the operating temperature has been reached in order to remove any residue from the heating installation.
- 8. Fill and purge the primary circuit. Consult the installation instructions for the heat generator.

7 Handing the product over to the end user

- Once the installation is complete, show the user the location and function of the safety devices.
- Inform the end user how to handle the product.
- In particular, draw attention to the safety warnings which the end user must follow.
- Inform the end user of the necessity to have the product maintained according to the specified intervals.

8 Troubleshooting

8.1 Detecting and eliminating faults

 If problems occur whilst operating the product, check certain points with the aid of the table in the appendix.
 Detecting and eliminating faults (→ Page 15)

8.2 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 result in the product no longer meeting the applicable standards, thereby voiding the conformity of the product.

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 back page of these instructions.

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

9 Inspection and maintenance

9.1 Observing inspection and maintenance intervals

Adhere to the minimum inspection and maintenance intervals. The inspection may require maintenance to be carried out earlier, depending on the results.

Inspection and maintenance work – Overview (→ Page 15)

The immersion heater can be removed in order to inspect the inside of the cylinder.

9.2 Draining the product

- 1. Close the cold water draw-off valve.
- 2. Secure a hose to the drain valve.
- 3. Position the hose at a suitable drain.
- 4. Open the highest hot water tap in the installation.
- 5. Open the drain valve and drain the product completely.
- 6. Close the hot water tap and the drain valve.
- 7. Remove the hose.

9.3 Checking the safety group's expansion relief valve and the cylinder's expansion relief valve

- 1. Open all expansion relief valves by turning the plug.
- 2. Check whether the water is flowing into the tundish.
- 3. Check that the expansion relief valves are in the correct position and then check the pressure.
- 4. Check and, if required, clean the pressure reducer.

9.4 Checking the pre-charge pressure of the expansion vessel

- 1. Drain the product. (\rightarrow Page 14)
- 2. Measure the pre-charge pressure of the expansion vessel at the vessel valve.

Condition: Pressure <0.3 MPa (0.3 bar)

- Top up the expansion vessel in accordance with the static height of the heating installation, ideally with nitrogen, otherwise with air.
- 3. If water escapes from the valve of the expansion vessel, you must replace the expansion vessel.
- 4. Fill and purge the product. (\rightarrow Page 13)

10 Decommissioning the product

- Switch off the heat generator.
- Unplug the domestic hot water cylinder's mains plug.
- Close the cold-water stopcock.
- Drain the product. (\rightarrow Page 14)
- Remove the hydraulic connections and the temperature sensor.
- Remove the cables for the temperature sensor from the heat generator, control or multi-functional module.

11 Customer service

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 www.vaillant.co.uk.

Appendix

A Detecting and eliminating faults

Fault	Possible cause	Remedy
No flow rate at the valve	 Water supply valve closed Main filter blocked Pressure reducer not installed correctly 	 Check and open the valve. Close the water supply valve, clean the filter and the water pressure reducer. Check whether the pressure reducer has been installed correctly.
Low throughput and pressure at a valve	1. Filter in cold water supply clogged	1. Close the cold water supply, clean the filter for the water pressure reducer.
Water from the valve is cold	 The cylinder was not set or is not operating. The heat generator does not work. The thermal cut-out was triggered. Motorised valve does not work The immersion heater does not work. 	 Check the thermostat or the room thermostat and, if required, set this. Check the heat generator; a fault code is present. Check and initialise the cylinder. Check the valve's connections. Set the thermostat or the room thermostat.
Domestic hot water temperature too high	 Use a thermometer to check the temperature it must be between 60 and 65 °C. Check the cabling. Thermostat set too high Defective thermostat 	 r; 1. Install a mixer tap. 2. Repair the cable. 3. Reduce the temperature of the thermostat to 55 °C. 4. Replace the thermostat.
Irregular domestic hot water output at the valve	 Defective expansion vessel Thermal control 	 Set the expansion vessel. Interrupt the power supply of the product and heat generator, check the thermal cut-outs and replace these if you find any defects.
Continuous water leak (dripping)	 Expansion relief valve fault Temperature and pressure relief valve fault. 	 Determine the part that is causing the continuous water leak. Replace the defective parts.
Continuous water leak (flowing out quickly)	1. Malfunction in the pressure reducer.	 Check the pressure at the pressure reducer outlet. Replace the pressure reducer if the pressure is above 3.5 bar.
Continuous water leak (flowing out quickly with hot water vapour)	 Temperature and pressure relief valve opened due to an excessively high temperature. 	 Switch off the power supply to the immersion heater. If the immersion heater is not switched on, switch off the power supply to the cylinder. Contact a competent person.

B Inspection and maintenance work – Overview

N°	Work	Maintenance-re- lated interval
1	Check the connections for tightness.	Annually
2	Check the temperature and pressure expansion relief valve.	Annually
3	Check the expansion relief valve.	Annually
4	Check the pressure in the expansion vessel.	Annually
5	Check the domestic hot water output at the valve (if required, clean the filters).	Annually
6	Check the target domestic hot water temperature.	Annually
7	Fill out the cylinder's benchmark checklist.	Annually

C Technical data

Technical data – General

	VIH RW GB 150 BES	VIH RW GB 200 BES	VIH RW GB 250 BES	VIH RW GB 300 BES
Actual volumetric capacity	139.5 l	190.7 l	236.3	273.5
Hot water volumetric capa- city in accordance with EN 12897	127.0	172.5	211.0	208.0
Maximum pressure of the heating tube coil during op- eration	0.35 MPa (3.50 bar)	0.35 MPa (3.50 bar)	0.35 MPa (3.50 bar)	0.35 MPa (3.50 bar)
Operating pressure	0.35 MPa (3.50 bar)	0.35 MPa (3.50 bar)	0.35 MPa (3.50 bar)	0.35 MPa (3.50 bar)
Maximum operating pressure	0.7 MPa (7.0 bar)	0.7 MPa (7.0 bar)	0.7 MPa (7.0 bar)	0.7 MPa (7.0 bar)
Pressure of the pressure reducer	0.35 MPa (3.50 bar)	0.35 MPa (3.50 bar)	0.35 MPa (3.50 bar)	0.35 MPa (3.50 bar)
Opening pressure in the ex- pansion relief valve	0.6 MPa (6.0 bar)	0.6 MPa (6.0 bar)	0.6 MPa (6.0 bar)	0.6 MPa (6.0 bar)
Temperature and pressure expansion relief valve	0.7 MPa (7.0 bar)	0.7 MPa (7.0 bar)	0.7 MPa (7.0 bar)	0.7 MPa (7.0 bar)
Temperature and pressure expansion relief valve	90 °C	90 °C	90 °C	90 °C
Load pressure in the expan- sion vessel	0.3 MPa (3.0 bar)	0.3 MPa (3.0 bar)	0.3 MPa (3.0 bar)	0.3 MPa (3.0 bar)
Maximum temperature of the heating circuit	95 °C	95 °C	95 °C	95 °C
Maximum domestic hot water temperature	85 °C	85 ℃	85 ℃	85 ℃
Heat loss (24 h), energy effi- ciency class: C	1.80 kWh	1.22 kWh	1.41 kWh	1.59 kWh
Reheating time in accord- ance with EN 12897	18.49 min	20.83 min	15.08 min	10.66 min
Reheating time (70%)	12.94 min	14.58 min	10.55 min	7.46 min
Reheating output	21.7 kW	26.0 kW	40.7 kW	52.5 kW
Flow rate	900 l/h	900 l/h	900 l/h	1,400 l/h
Pressure loss in the heat exchanger	70 mbar	100 mbar	170 mbar	200 mbar
Volume of the heat exchanger	5.6	7.71	12.9	15.20
Surface of the heat exchanger	1.0 m²	1.4 m²	2.4 m²	2.8 m²
Volume of the expansion vessel	12	18	25	25
Tilt dimension	1,680 mm	1,390 mm	1,640 mm	1,840 mm
Net weight	54.5 kg	58.0 kg	73.3 kg	80.6 kg
Weight including heating wa- ter and domestic hot water	199.6 kg	256.4 kg	322.5 kg	369.3 kg

Technical data – Hydraulic connection

	VIH RW GB 150 BES	VIH RW GB 200 BES	VIH RW GB 250 BES	VIH RW GB 300 BES
Diameter of the cold water supply pipe	3/4"	3/4"	3/4"	3/4"
Hot water outlet	3/4"	3/4"	3/4"	3/4"
Heat generator heating flow	3/4	3/4	3/4	3/4
Heat generator heating re- turn	3/4	3/4	3/4	3/4
Temperature dry pocket	8 mm	8 mm	8 mm	8 mm
Immersion heater diameter	1"	1 1/4"	1 1/4"	1 1/4"

Technical data – Electrics

	VIH RW GB	VIH RW GB	VIH RW GB	VIH RW GB
	150 BES	200 BES	250 BES	300 BES
Connecting the immersion heater to the power supply	230 V / 50 Hz			
Immersion heater power	2.8 kW	2.8 kW	2.8 kW	2.8 kW
Low loss header	230/240 V,	230/240 V,	230/240 V,	230/240 V,
	50Hz	50Hz	50Hz	50Hz
Thermostat	230/240 V,	230/240 V,	230/240 V,	230/240 V,
	50Hz	50Hz	50Hz	50Hz
IP rating	21	21	21	21

Technical data – Material

	VIH RW GB 150 BES	VIH RW GB 200 BES	VIH RW GB 250 BES	VIH RW GB 300 BES
Cylinder material	Stainless steel (1.4521)	Stainless steel (1.4521)	Stainless steel (1.4521)	Stainless steel (1.4521)
Insulation material	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Insulation thickness	40 mm	50 mm	50 mm	50 mm
Propellant for insulating ma- terial	GWP < 5	GWP < 5	GWP < 5	GWP < 5
ODP	0	0	0	0



MAINS PRESSURE HOT WATER STORAGE SYSTEM COMMISSIONING CHECKLIST

This Commissioning Checklist is to be completed in full by the competent person who commissioned the storage system as a means of demonstrating compliance with the appropriate Building Regulations and then handed to the customer to keep for future reference.

Failure to install and commission this equipment to the manufacturer's instructions may invalidate the warranty but does not affect statutory rights.

Customer name:	Tolophor	ne number:						
Address:	Telephoi		•					
Cylinder Make and Model								
Cylinder Serial Number								
Commissioned by (PRINT NAME):	Register	ed Operati	ve ID Numb	ar				
Company name:		ne number:						
Company address:	relephor						 	
	Commis	sioning dat	ho.				 	
To be completed by the customer on receipt of a Building Regulations Compliance C		sioning dat					 	
Building Regulations Notification Number (if applicable)	, ortinouto							
ALL SYSTEMS PRIMARY SETTINGS (indirect heating only)		ealed					Oper	
Is the primary circuit a sealed or open vented system?	30	ealeu					 Oper	°C
What is the maximum primary flow temperature?								
ALL SYSTEMS								
What is the incoming static cold water pressure at the inlet to the system?							bar	
Has a strainer been cleaned of installation debris (if fitted)?					Yes	+ +	No	
Is the installation in a hard water area (above 200ppm)?					Yes		No	-
If yes, has a water scale reducer been fitted?					Yes	8	 No)
What type of scale reducer has been fitted?							*0	
What is the hot water thermostat set temperature?	4 h : h . A						 °C	
What is the maximum hot water flow rate at set thermostat temperature (measured a							I/min	
Time and temperature controls have been fitted in compliance with Part L of the Buil	aing Regula	tions?	Y Plan		C Diar		Ye	-
Type of control system (if applicable) Is the cylinder solar (or other renewable) compatible?			r Plan		S Plar Yes	+ +	 Othe No	-
What is the hot water temperature at the nearest outlet?					165		°C	,
All appropriate pipes have been insulated up to 1 metre or the point where they been	me concea	ed					Ye	
UNVENTED SYSTEMS ONLY								
Where is the pressure reducing valve situated (if fitted)? What is the pressure reducing valve setting?							bar	
Has a combined temperature and pressure relief valve and expansion valve been fit	ted and disc	harge test	ed?		Yes		N	
The tundish and discharge pipework have been connected and terminated to Part G		-				, I	 Ye	
Are all energy sources fitted with a cut out device?		ing rogue			Yes		 N	
Has the expansion vessel or internal air space been checked?					Yes	+ +	N	
THERMAL STORES ONLY				_				
What store temperature is achievable?								°C
What is the maximum hot water temperature?							 	0°
ALL INSTALLATIONS								_
The hot water system complies with the appropriate Building Regulations							Ye	s
The system has been installed and commissioned in accordance with the manufactu	irer's instruc	tions					 Ye	-
The system controls have been demonstrated to and understood by the customer							 Ye	-
The manufacturer's literature, including Benchmark Checklist and Service Record, h	as been exp	lained and	l left with the	custome	er		Ye	3
Commissioning Engineer's Signature								
Customer's Signature								
(To confirm satisfactory demonstration and receipt of manufacturer's literature)								-
-								

*All installations in England and Wales must be notified to Local Authority Building Control (LABC) either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer.



© Heating and Hotwater Industry Council (HHIC)

www.centralheating.co.uk

SERVICE RECORD

It is recommended that your hot water system is serviced regularly and that the appropriate Service Record is completed.

Service Provider

Before completing the appropriate Service Record below, please ensure you have carried out the service as described in the manufacturer's instructions.

SERVICE 01	Date:	SERVICE 02	Date:				
Engineer name:		Engineer name:					
Company name:		Company name:					
Telephone No:		Telephone No:					
Comments:		Comments:					
Signature		Signature					
SERVICE 03	Date:	SERVICE 04	Date:				
Engineer name:		Engineer name:					
Company name:		Company name:					
Telephone No:		Telephone No:					
Comments:		Comments:					
Signature		Signature					
SERVICE 05	Date:	SERVICE 06	Date:				
Engineer name:		Engineer name:					
Company name:		Company name:					
Telephone No:		Telephone No:					
Comments:		Comments:					
Signature		Signature					
-							
SERVICE 07	Date:	SERVICE 08	Date:				
Engineer name:		Engineer name:					
Company name:		Company name:					
Telephone No:		Telephone No:					
Comments:		Comments:					
Signature		Signature					
SERVICE 09	Date:	SERVICE 10	Date:				
Engineer name:		Engineer name:					
Company name:		Company name:					
Telephone No:		Telephone No:					
Comments:		Comments:					
	Signature		Signature				
Signature		Signature					

Index

Δ

A	
Article number	5
В	
Basic diagram	3
C	
CE marking	5
Checking the pre-charge pressure of the expansion	
vessel	11
Competent person	
· · ·	ა
D	_
Data plate	
Decommissioning	
Decommissioning the product	
Discharge pipe	8
Documents	
Draining the product	14
E	
Electricity	3
F	
Filling and purging the primary circuit	13
Filling and purging the product	
Frost	
Н	
Handing over to the end user	11
	14
I Increation work 14	45
I Inspection work	
Intended use	
Intended use	3
Intended use M Maintenance work	3
Intended use M Maintenance work P	3 14
Intended use M Maintenance work	3 14
Intended use M Maintenance work P Product dimensions Q	3 14 7
Intended use M Maintenance work P Product dimensions	3 14 7
Intended use M Maintenance work P Product dimensions Q Qualification R	3 14 7 3
Intended use M Maintenance work P Product dimensions Q Qualification	3 14 7 3
Intended use M Maintenance work P Product dimensions Q Qualification R	3 14 7 3
Intended use M Maintenance work P Product dimensions Q Qualification R Regulations S	3 14 7 3 4
Intended use M Maintenance work P Product dimensions Q Qualification R Regulations S Safety device	3 14 7 3 4 3
Intended use M Maintenance work P Product dimensions Q Qualification R Regulations S Safety device Serial number	3 7 3 4 3 5
Intended use M Maintenance work P Product dimensions Q Qualification R Regulations S Safety device Spare parts	3 7 3 4 3 5
Intended use M Maintenance work P Product dimensions Q Qualification R Regulations S Safety device Spare parts T	3 7 3 4 3 5 14
Intended use M Maintenance work P Product dimensions Q Qualification R Regulations S Safety device Spare parts T Tool	3 14 7 3 3 4 3 14 3
Intended use M Maintenance work P Product dimensions Q Qualification R Regulations S Safety device Serial number Spare parts T Tool Transport	3 14 7 3 4 3 5 14 3 3
Intended use M Maintenance work P Product dimensions Q Qualification R Regulations S Safety device Serial number Spare parts T Tool Transport Troubleshooting	3 14 7 3 4 3 5 14 3 3
Intended use M Maintenance work P Product dimensions Q Qualification R Regulations S Safety device Spare parts T Tool Transport Troubleshooting U	3 14 7 3 4 3 4 14 14
Intended use M Maintenance work P Product dimensions Q Qualification R Regulations S Safety device Spare parts T Tool Transport Troubleshooting U Unpacking the product	3 14 7 3 4 3 4 14 14
Intended use M Maintenance work P Product dimensions Q Qualification R Regulations S Safety device Spare parts T Tool Transport Troubleshooting U	3 14 7 3 4 3 4 14 14 6

Supplier Vaillant Ltd. Nottingham Road Belper Derbyshire DE56 1JT Telephone 0330 100 3143 info@vaillant.co.uk www.vaillant.co.uk



Publisher/manufacturer Vaillant GmbH

 Berghauser Str. 40
 D-42859 Remscheid

 Tel. +49 2191 18 0
 Fax +49 2191 18 2810

 info@vaillant.de
 www.vaillant.de

© These instructions, or parts thereof, are protected by copyright and may be reproduced or distributed only with the manufacturer's written consent. Subject to technical modifications.