



6720817966-00.1V

DHW cylinder

Tronic 1000T | 2000T

ES 030/050/080/100/120 6...



BOSCH

Installation and operating instructions

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1 Key to symbols and safety instructions

1.1 Key to symbols

Warnings



Warnings in this document are identified by a warning triangle printed against a grey background.

Keywords at the start of a warning indicate the type and seriousness of the ensuing risk if measures to prevent the risk are not taken.

The following keywords are defined and can be used in this document:

- **NOTICE** indicates a situation that could result in damage to property or equipment.
- **CAUTION** indicates a situation that could result in minor to medium injury.
- **WARNING** indicates a situation that could result in severe injury or death.
- **DANGER** indicates a situation that will result in severe injury or death.

Important information



This symbol indicates important information where there is no risk to people or property.

Additional symbols

Symbol	Meaning
▶	Action
→	Cross-reference to another part of this document
•	List
–	List/list entry (second level)

Table 1

1.2 Safety precautions

Installation

- ▶ Installation must only be carried out by an authorised contractor.
- ▶ If applicable, the DHW cylinder and/or the electrical accessories must be installed in accordance with IEC 60364-7-701.
- ▶ Install the DHW cylinder in a room free from the risk of frost.
- ▶ Before making the electrical connections, make the hydraulic connections first and check for tightness.
- ▶ Before installation, disconnect the DHW cylinder from the power supply.

Installation and conversion

- ▶ Only permit an authorised contractor to install or convert this DHW cylinder.
- ▶ Never plug the drain of the pressure relief valve.
- ▶ Water may escape from the pressure relief valve drain when it is being heated up.

Service work

- ▶ Only authorised contractors are permitted to maintain this appliance.
- ▶ Isolate the appliance from its power supply before commencing any maintenance work on the DHW cylinder.
- ▶ The user is responsible for safety and environmental compatibility during installation and maintenance.
- ▶ Use only original spare parts.
- ▶ If the power cable is damaged, it must only be replaced by the manufacturer, its customer service department or a similarly qualified person to avoid hazards.

Handover to the user

When handing over the heating system, instruct the user in its operation and operating conditions.

- ▶ Explain the operation - with particular emphasis on all safety-related actions.
- ▶ Explain that conversions and repairs must only be carried out by an approved contractor.
- ▶ Point out the need for inspections and maintenance for safe and environmentally-compatible operation.
- ▶ The installation and operating instructions must be given to the user for keeping.

Safety of electrical appliances for domestic use and similar purposes

The following requirements apply in accordance with EN 60335-1 in order to prevent hazards from occurring when using electrical appliances:

“This appliance can be used by children of 8 years and older, as well as by people with reduced physical, sensory or mental capabilities or lacking in experience and knowledge, if they are supervised and have been given instruction in the safe use of the appliance and understand the resulting dangers. Children shall not play with the appliance. Cleaning and user maintenance must not be performed by children without supervision.”

“If the power cable is damaged, it must be replaced by the manufacturer, its customer service department or a similarly qualified person, so that risks are avoided.”

2 Specification and dimensions

2.1 Intended use

DHW cylinders are designed for heating and storing potable water. Please observe national, regional, and local codes, regulations, guidelines and standards for potable water.

Any other use is considered inappropriate. We take no responsibility for damage caused through incorrect use.

Requirements for potable water		
Water hardness, min.	ppm grain/US gallon °dH	120 7.2 6.7
pH, min. – max.		6.5 – 9.5
Conductivity, min. – max.	µS/cm	130 – 1500

Table 2 Requirements for potable water

2.2 Overview of types

ES	030	6	1200 W	BO	L1	X	N	T	W	V	B
					M1		K				
ES	050	6	1500 W	BO	L1	X	N	T	W	V	B
					M1		K			H	
ES	080	6	2000 W	BO	L1	X	N	T	W	V	B
			1500 W		M1		K			H	
ES	100	6	2000 W	BO	L1	X	N	T	W	V	B
			1500 W		M1		K			H	
ES	120	6	2000 W	BO	L1	X	N	T	W	V	B
					M1		K				

Table 3

- [ES] Electrical domestic hot water cylinder
- [030] Cylinder capacity (litres)
- [6] Version
- [1200 W] Output
- [BO] Make
- [L1, M1] Design
- [X] Standard diameter
- [K] Thermostat
- [D] Without temperature controller
- [T] With temperature indicator
- [W] Wall-mounted type
- [V] Vertical installation
- [H] Horizontal installation
- [B] Connections to the bottom side

2.3 Description of the DHW cylinder

- Enamel-coated steel storage cylinder according to European standards
- High pressure stability
- Outer wall jacket: Sheet-metal and/or plastic
- Easy operation
- CFC-free PU insulation
- Magnesium anode

2.4 Corrosion protection

The internal wall of the DHW cylinder is glass lined. This provides fully neutral and water-compatible contact with possible water. As an additional corrosion protection measure, a magnesium anode is installed.

2.5 Accessories

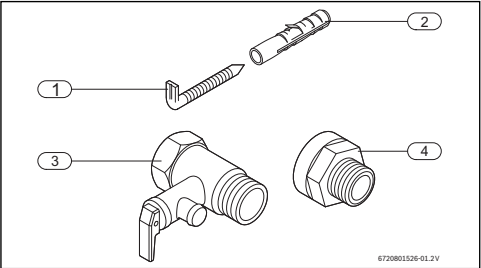


Fig. 1

- [1] Screws (2x)¹⁾
- [2] Rawl plug (2x)¹⁾
- [3] Pressure relief valve (8 bar)
- [4] Isolation fitting (2x)¹⁾

1) Not available for all models

2.6 Specification

This appliance meets the requirements specified by the European Directives 2014/35/EC and 2014/30/EC.

Technical Specifications	Unit	ES 030.V	ES 050.V	ES 050.H	ES 080.V
General data					
Tank capacity	l	30	50	50	80
Dry weight	kg	11.5	15.0	15.0	20.0
Weight when full	kg	41.5	45.0	65.0	100.0
Cover plate heat loss	kWh/24 h	0.69	0.98	1.05	1.45
Water specification					
Max. permissible operating pressure	bar	8			
Water connections	inch	1/2			
Electrical details					
Set output	W	1200	1500	1500	2000
Heat-up time (ΔT : 50 °C)		1 h 27 m	1 h 56 m	1 h 56 m	2 h 20 m
Mains voltage	VAC	230			
Mains frequency	Hz	50			
Power consumption, single-phase	A	5.2	6.5	6.5	8.7
Power cable		H05VV - F 3 x 1.5 mm ²			
Protection class		I			
Degree of protection		IP24			
DHW temperature					
Temperature range	°C	up to 65 °C			

Table 4 Technical Specifications

Technical Specifications	Unit	ES 080.H	ES 100.V	ES 100.H	ES 120.V
General data					
Tank capacity	l	80	100	100	120
Dry weight	kg	20.0	24.0	24.0	28.0
Weight when full	kg	100.0	124.0	124.0	148.0
Cover plate heat loss	kWh/24 h	1.52	1.73	1.84	2.06
Water specification					
Max. permissible operating pressure	bar	8			
Water connections	inch	1/2			
Electrical details					
Set output	W	1500	2000	1500	2000
Heat-up time (ΔT : 50 °C)		3 h 05 m	2 h 55 m	3 h 55 m	3 h 30 m
Mains voltage	VAC	230			
Mains frequency	Hz	50			
Power consumption, single-phase	A	6.5	8.7	6.5	8.7
Power cable		H05VV - F 3 x 1.5 mm ²			
Protection class		I			
Degree of protection		IP24			
DHW temperature					
Temperature range	°C	up to 65 °C			

Table 5 Technical Specifications

2.7 Product data on energy consumption

The following product data complies with the requirements of EU Regulations 811/2013, 812/2013, 813/2013 and 814/2013 as supplement to the Directive 2010/30/EU.

Product data	Symbol	Unit	7736504009	7736504010	7736504011	7736504012	7736504013	7736504014	7736504015	7736504016
Product type	-	-	ES 0306 1200W BOLIX-NTWVB	ES 0506 1500W BOLIX-NTWVB	ES 0506 1500W BOLIX-NTWVB	ES 0806 2000W BOLIX-NTWVB	ES 0806 1500W BOLIX-NTWVB	ES 1006 2000W BOLIX-NTWVB	ES 1006 1500W BOLIX-NTWVB	ES 1206 2000W BOLIX-NTWVB
Emissions of nitrogen oxides	NO _x	mg/kWh	0	0	0	0	0	0	0	0
Sound power level, indoors	L _{WA}	dB(A)	15	15	15	15	15	15	15	15
Declared load profile	-	-	S	M	M	L	M	L	L	L
Water heating energy efficiency class	-	-	C	C	C	C	C	C	C	C
Water heating energy efficiency	η _{wh}	%	32	37	36	37	36	37	38	37
Annual electricity consumption	AEC	kWh	606	1 441	1 459	2 815	1 466	2 828	2 755	2 809
Daily electricity consumption (average climate conditions)	Q _{elec}	kWh	2,762	6,562	6,643	12,819	6,678	12,880	12,545	12,792
Annual fuel consumption	AFC	GJ	0	0	0	0	0	0	0	0
Daily fuel consumption	Q _{fuel}	kWh	0	0	0	0	0	0	0	0
Smart control enabled?	-	-	No	No	No	No	No	No	No	No
Mixed water T = 40 °C	V ₄₀	l	39	69	70	130	89	167	141	167
Storage volume	V	l	30	50	50	80	80	100	100	120
Thermostat temperature (factory setting)	T _{set}	°C	74	61	62	60	58	65	59	60
Indication about ability working only during off-peak hours	-	-	No	No	No	No	No	No	No	No

Table 6 Product data on energy consumption

Product data	Symbol	Unit	77 36504017	77 36504018	77 36504019	77 36504020	77 36504021	77 36504022	77 36504023	77 36504024
Product type	-	-	ES 030 6 1200W BO M1X- KNWB	ES 050 6 1500W BO M1X- KNWB	ES 050 6 1500W BO M1X- KNWB	ES 080 6 2000W BO M1X- KNWB	ES 080 6 1500W BO M1X- KNWB	ES 100 6 2000W BO M1X- KNWB	ES 100 6 1500W BO M1X- KNWB	ES 120 6 2000W BO M1X- KNWB
Emissions of nitrogen oxides	NO _x	mg/kWh	0	0	0	0	0	0	0	0
Sound power level, indoors	L _{WA}	dB(A)	15	15	15	15	15	15	15	15
Declared load profile	-	-	S	M	M	L	M	L	L	L
Water heating energy efficiency class	-	-	C	C	C	C	C	C	C	C
Water heating energy efficiency	η_{wh}	%	32	37	36	37	36	37	38	37
Annual electricity consumption	AEC	kWh	606	1 441	1 459	2 815	1 466	2 828	2 755	2 809
Daily electricity consumption (average climate conditions)	Q _{elec}	kWh	2,762	6,562	6,643	12,819	6,678	12,880	12,545	12,792
Annual fuel consumption	AFC	GJ	0	0	0	0	0	0	0	0
Daily fuel consumption	Q _{fuel}	kWh	0	0	0	0	0	0	0	0
Smart control enabled?	-	-	No	No	No	No	No	No	No	No
Mixed water T= 40 °C	V ₄₀	l	39	69	70	130	89	167	141	167
Storage volume	V	l	30	50	50	80	80	100	100	120
Thermostat temperature (factory setting)	T _{set}	°C	74	61	62	60	58	65	59	60
Indication about ability working only during off-peak hours	-	-	No	No	No	No	No	No	No	No

Table 7 Product data on energy consumption

2.8 Dimensions and minimum clearances

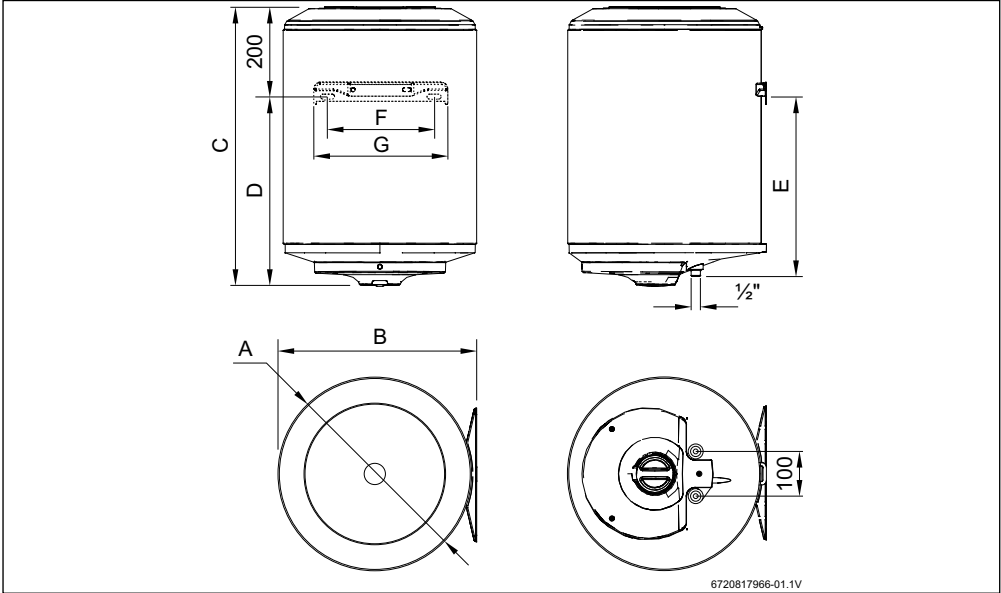


Fig. 2 Dimensions in mm (vertical installation)

Appliance	A	B	C	D	E	F	G
ES030...	433	440	457	257	243	240	300
ES050...	433	440	622	422	407	240	300
ES080...	433	440	869	669	654	240	300
ES100...	433	440	1031	831	816	240	300
ES120...	433	440	1194	994	979	240	300

Table 8

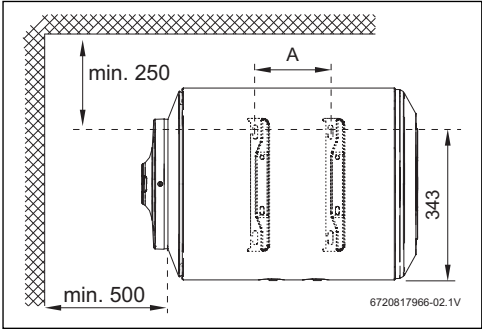


Fig. 3 Dimensions in mm (horizontal installation)

2.9 Appliance layout

Appliance	A
ES050...	165
ES080...	350
ES100...	495

Table 9

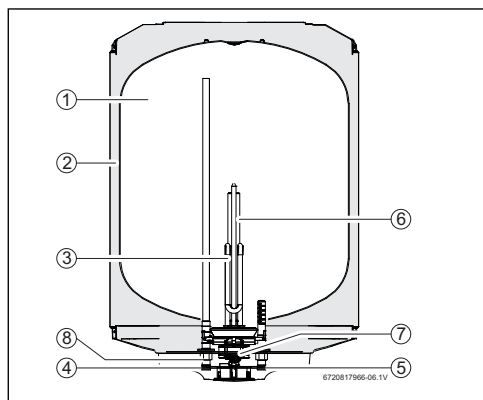


Fig. 4 DHW cylinder assembly (excluding models with temperature controller)

- [1] Storage tank
- [2] CFC-free PU insulation
- [3] Heating insert
- [4] DHW outlet 1/2 "
- [5] Cold water inlet 1/2 "
- [6] Magnesium anode
- [7] High limit safety cut-out and controls
- [8] Isolation fitting

2.10 Wiring diagram

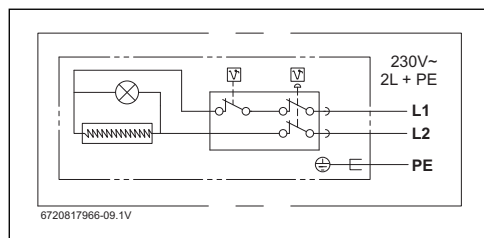


Fig. 5 Connection diagram

3 Regulations

The applicable Portuguese standards regarding the installation and handling of electrical DHW cylinders must be observed.

4 Transport

- Do not let the DHW cylinder fall.
- Transport the storage tank in the original packaging, and use suitable means of transportation.

4.1 Transport, storage

- The device must be stored in a dry, frost-free location.

5 Installation



Installation, electrical connection and commissioning may only be carried out by a contractor approved for such work by the gas or energy supplier.

5.1 Important notes



CAUTION:


- Do not let the DHW cylinder fall.
- Only remove the DHW tank from the packaging at the installation location.
- If applicable, the DHW cylinder and/or the electrical accessories must be installed in accordance with IEC 60364-7-701.
- Select a wall for mounting the cylinder that has sufficient load bearing capacity to support the full DHW cylinder, page 5.



CAUTION: Damage to the heating inserts!

- First make the water connections, and then fill the DHW cylinder.
- Then connect the DHW cylinder to the power supply via an earthed connection socket.

5.2 Selecting the location



CAUTION:


- Select a wall for mounting the cylinder that has sufficient load bearing capacity to support the full DHW cylinder. Page 5.

Regulations concerning the installation site

- Installing the DHW cylinder at a safe clearance from heat sources.
- Please observe legal standards.
- Install the DHW cylinder in areas only where the ambient temperature does not fall below 0 °C.
- Ensure sufficient ventilation if installing the DHW cylinder in an area where the ambient temperature can rise to above 35 °C.
- Install the DHW cylinder close to the most frequently used hot water tap in order to reduce heat loss and wait time.
- Install the DHW cylinder in a room that allows the magnesium anode to be replaced and the necessary maintenance to be performed.

Safety zone 1

- Do not install in the safety zone 1.
- Install the DHW cylinder outside the safety zone.



CAUTION:

- Make sure that the DHW cylinder is connected by a ground conductor to the system (fuse box).

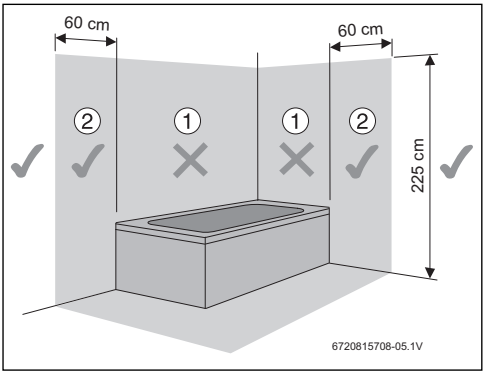



Fig. 6 Protection zones

5.3 Mounting the DHW cylinder



NOTICE: Damage to property!

- Use screws and wall mounting brackets suitable for the type of wall that are designed for suspension of the full cylinder (see page 5).

Vertical installation

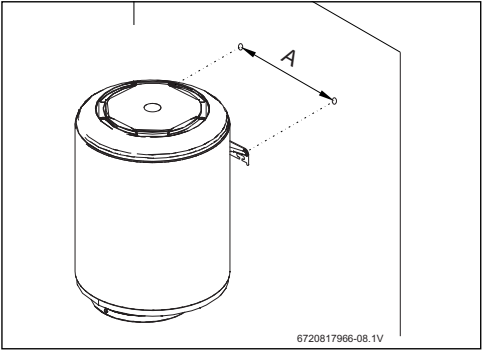


Fig. 7 Vertical installation

Device	A
Models with standard diameter	240

Table 10

Horizontal installation

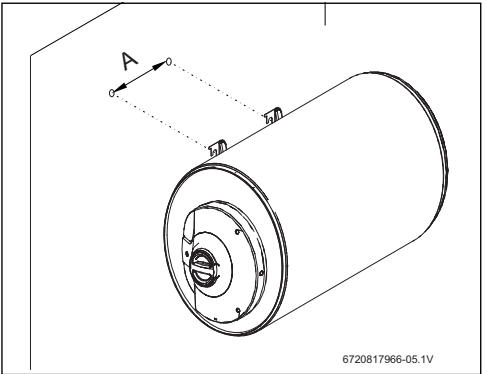


Fig. 8 Horizontal installation

Device	A
ES050...	165
ES080...	350
ES100...	495

Table 11



When installing horizontally, ensure that the hydraulic connections are perpendicular and located at the bottom part of the appliance.

5.4 Water connection



NOTICE: Corrosion damage to the DHW cylinder's connections!

- Provide the water connections with insulating dielectric unions. This prevents current (DC current) from flowing between the metal hydraulic connections and causing corrosion.



NOTICE: Damage to property!

- Use a filter at the water inlet if the water has suspended matter.
- When using PEX pipes, install a temperature limiter at the discharge pipe of the DHW cylinder. These must be adjusted to match the performance of the material used.
- The piping used must be designed for 10 bar (1 MPa) and 100 °C.



Recommendation:

- Rinse the equipment before installation, as dirt particles reduce the water flow and may block the line completely in the case of heavy contamination.

- Mark the cold water lines and the DHW lines accordingly to avoid confusion (fig. 9).

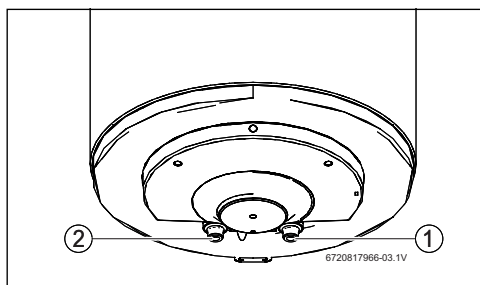


Fig. 9

- [1] Cold water inlet (right)
- [2] Hot water outlet (left)

- Use suitable accessories for the hydraulic connection of the DHW cylinder.

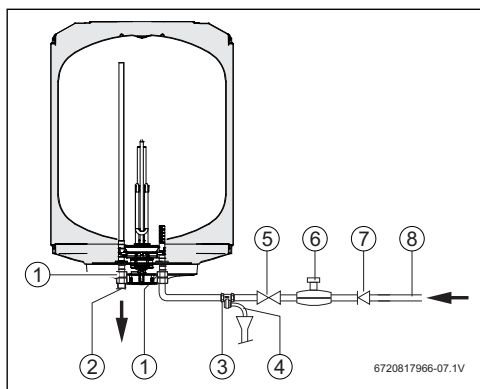


Fig. 10 Water connection

- [1] Isolation fitting
- [2] Hot water outlet
- [3] Pressure relief valve
- [4] Siphon connection
- [5] Shut-off valve
- [6] Pressure reducing valve
- [7] Non-return valve
- [8] Connection to the water line



We recommend the installation of a non-return valve upstream of the cylinder to prevent faults resulting from sudden pressure fluctuations in the water supply (Fig. 10, [7]).

Risk of frost:

- Switch off the DHW cylinder.
- Drain the DHW cylinder (→ sec. 6.3).

Pressure relief valve



DANGER:

- Fit a pressure relief to the cold water connection on the DHW cylinder (fig. 10).



NOTICE:

NEVER CLOSE OFF THE PRESSURE RELIEF VALVE DRAIN.

Never install accessories between the pressure relief valve and the cold water connection (on the right) of the electrical DHW cylinder.



If the water pressure exceeds 80 % of the maximum permissible value (6.4 bar):

- Install a pressure relief valve (fig. 10).
The pressure relief valve is always triggered once the water pressure in the cylinder exceeds 8 bar (± 0.5 bar), and the discharge water then needs to be channelled off.

5.5 Electrical connection



DANGER:

Risk of electrocution!

- Prior to working on the appliance, isolate it from the power supply (fuse or similar).

All control, monitoring and safety equipment for this device has been subjected to intense scrutiny and is ready for operation.



CAUTION:

Electrical fuse!

- The control panel must have a separate connection for the DHW cylinder that is secured and earthed by a 30 mA FI switch.



The electrical connection must meet the current standards for electrical installations in the country of use.

- Connect the DHW cylinder to the power supply via an earthed connection socket.

5.6 Commissioning

- Check for correct installation of the DHW cylinder.
- Open the water valves.
- Open all of the hot water taps and completely vent the water lines.
- Check the tightness of all connections, and fill up the storage tank.
- Connect the DHW cylinder to the power supply.
- Instruct the customer in the function and operation of this DHW cylinder.

6 Operating the appliance

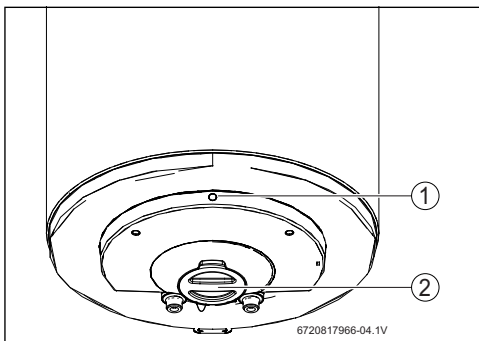


Fig. 11 User interface

- [1] Run lamp
- [2] Temperature controller (models with temperature controller)



CAUTION: The DHW cylinder must be commissioned by an authorised contractor. This contractor must give the customer all information required to ensure correct operation of the appliance.

6.1 Switching the appliance on/off

Start up

- Connect the DHW cylinder to the power supply via an earthed connection socket.

Shutdown

- Isolate the DHW cylinder from the power supply.

6.2 Setting the DHW temperature



The DHW cylinder stops heating once the water reaches the required temperature (the ON indicator goes dark). The DHW cylinder starts heating again once the water temperature falls below the required temperature (ON indicator shines) until the set temperature has been reached.

6.2.1 Models without temperature controller

The water discharge temperature is factory-set, see tables 8, 9 and 10.

6.2.2 Models with temperature controller

The water discharge temperature can be adjusted to up to 65 °C by the temperature controller.

Raise the temperature

- Turn the temperature controller to the left.

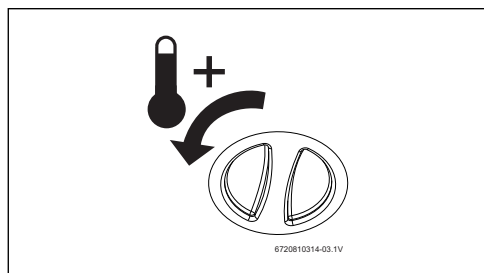


Fig. 12 Raise the temperature

Lower the temperature

- Turn the temperature controller to the right.

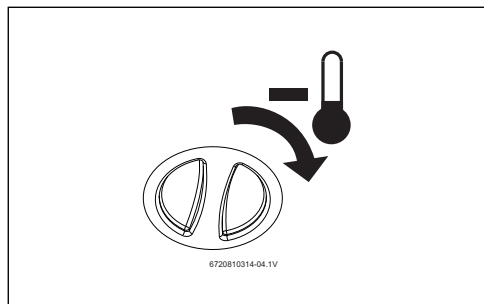


Fig. 13 Lower the temperature

6.3 Draining the DHW cylinder

- Isolate the DHW cylinder from the power supply.



DANGER: Risk of scalding!

Before opening the pressure relief valve, open the hot water tap and check the appliance's water temperature.

- Wait until the water temperature has dropped enough to prevent scalding and other damage.

- Close the water tap and open a hot water tap.
- Open pressure relief valve (fig. 14).
- Wait until the DHW cylinder has drained fully.

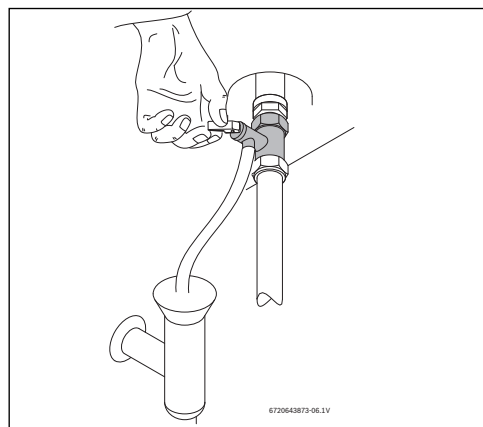


Fig. 14 Manually opening the pressure relief valve

7 Environment / disposal

Environmental protection is a fundamental corporate strategy of the Bosch Group.

The quality of our products, their efficiency and environmental safety are all of equal importance to us and all environmental protection legislation and regulations are strictly observed. We use the best possible technology and materials for protecting the environment taking into account of economic considerations.

Packaging

We participate in the recycling programmes of the countries in which our products are sold to ensure optimum recycling. All of our packaging materials are environmentally friendly and can be recycled.

Old electrical and electronic appliances



Electrical or electronic devices that are no longer serviceable must be collected separately and sent for environmentally compatible recycling (in accordance with the European Waste Electrical and Electronic Equipment Directive).

To dispose of old electrical or electronic appliances, use the return and collection systems put in place in the country concerned.

8 Maintenance/inspection



Only authorised contractors are permitted to maintain this appliance.

8.1 Information for users

8.1.1 Cleaning

- ▶ Do not use abrasive, caustic or solvent containing cleansers.
- ▶ If required, clean the casing of the DHW cylinder with a soft cloth.

8.1.2 Checking the pressure relief valve

- ▶ Check whether water leaks from the pressure relief valve during heating.
- ▶ Never plug the drain of the pressure relief valve.

8.1.3 Pressure relief valve

- ▶ Open the pressure relief valve manually at least once a month (fig. 14).



WARNING:

Make sure that the draining water does not cause personal injury or material damage.

8.1.4 Maintenance and repair

- ▶ The customer is responsible for ensuring regular maintenance and inspections by customer service or an approved contractor.

8.2 Regular maintenance work



WARNING:

Prior to commencing maintenance work:

- ▶ Isolate the appliance from the power supply.
- ▶ Close the water tap (→ fig. 10).

- ▶ Use only original spare parts.
- ▶ Order spare parts from the DHW cylinder spare parts catalogue.
- ▶ During maintenance, replace removed gaskets with new ones.

8.2.1 Function check

- ▶ Check that all components are functioning correctly.



CAUTION: Damages to the enamel coating!

Never clean the enamel-coated inner walls of the DHW cylinder using a descaling agent. No additional products are necessary to protect the enamel coating.

8.2.2 Magnesium anode



The DHW cylinder is protected against corrosion by a magnesium anode inside the cylinder.



WARNING:

Only commission the DHW cylinder with fitted magnesium anode.



WARNING:

Check the magnesium anode annually and replace if required. DHW cylinders operated without this protection are excluded from our warranty.

- ▶ Disconnect the safety switch of the DHW cylinder.
- ▶ Before starting work, make sure that the DHW cylinder is disconnected from the power supply.
- ▶ Completely drain the DHW cylinder (→ section 6.3).
- ▶ Remove the screws in the cylinder cover, and remove the cover.
- ▶ Pull out the connecting lead of the temperature limiter.
- ▶ Remove the fixing screws in the flange [1].
- ▶ Remove the flange [2].
- ▶ Check the magnesium anode [3] and replace if necessary.

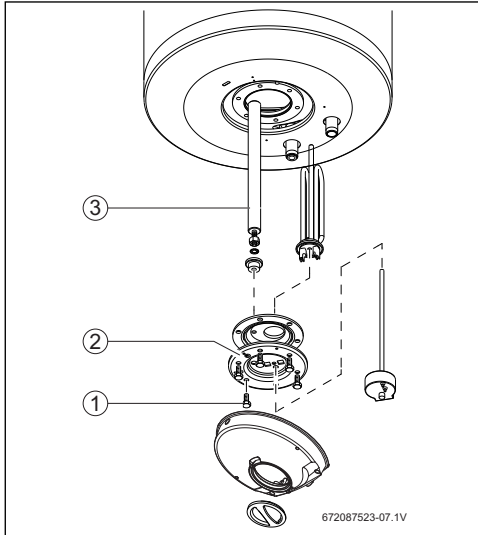


Fig. 15 Access to the interior and component identification

- [1] Fixing screws in the flange
- [2] Flange
- [3] Magnesium anode

8.2.3 Regular cleaning



DANGER: Risk of scalding!
During regular cleaning, hot water can lead to severe scalding.

- ▶ Perform these measures outside of the normal operating times.

- ▶ Turn off all hot water taps.
- ▶ Warn all residents of risk of scalding.
- ▶ Adjust the temperature limiter to the maximum temperature. Then turn the temperature controller to the left until it stops (→ fig. 12).
- ▶ Wait until the ON indicator lamp goes out.
- ▶ Open all hot water taps. Start with the water tap closest to the DHW cylinder. Let all of the hot water drain for at least 3 minutes from the DHW cylinder.
- ▶ Close the hot water taps, and set the temperature limiter to the normal operating temperature.

8.2.4 Extended nonuse (longer than 3 months)



Replace the water in the DHW cylinder if it has not been used for a long period (longer than 3 months).

- ▶ Isolate the DHW cylinder from the power supply.
- ▶ Completely drain the DHW cylinder.
- ▶ Fill the DHW cylinder until water drains from all of the hot water taps.
- ▶ Connect the DHW cylinder to the power supply.

8.3 High limit safety cut-out

The DHW cylinder is equipped with an automatic safety device. This safety device isolates the DHW cylinder from the power supply to prevent the risk of injury if the DHW cylinder water temperature rises above a certain limit.



DANGER: The high limit safety cut-out must only be reset by an authorised contractor!
The high limit safety cut-out must be reset manually after rectifying the fault. To manually reset the high limit safety cut-out:

- ▶ Push down the button (fig. 16).

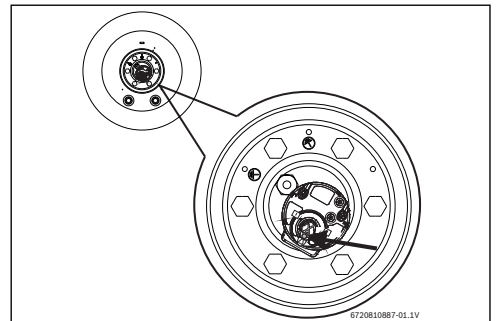


Fig. 16 Reset button

8.4 After maintenance

- ▶ Retighten all water connections and check for tightness.
- ▶ Connect the DHW cylinder.

9 Faults

9.1 Fault/cause/remedy


DANGER:

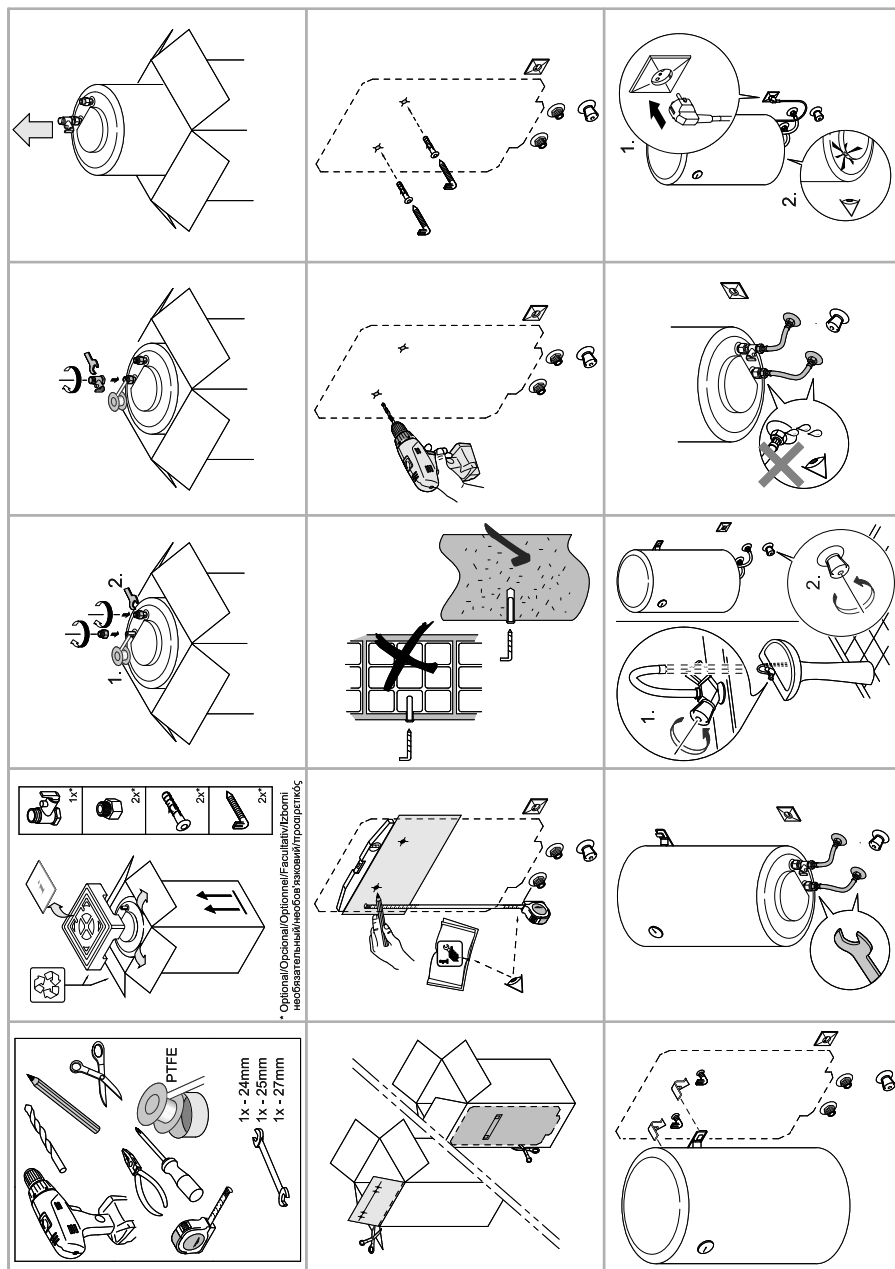
Installation, maintenance and repair work may only be carried out by an authorised contractor.

The following table describes measures for troubleshooting for possible faults (these activities must only be carried out by an authorised contractor).

Problem							Reason	Remedy
Cold water	Very hot water	Insufficient capacity	Continuous water leakage from the pressure relief valve	Rust-colored water	Water with a bad odour	Noises in the DHW cylinder		
X							Overvoltage or the safety switch was triggered (performance too high).	► Check whether the electrical connection that the appliance is connected to is sufficient for the power supply.
X	X						Incorrect temperature set by the temperature limiter.	► Adjust the temperature limiter.
X							High limit safety cut-out triggered.	► Replace the temperature limiter or install a new one.
X							Defective heating element.	► Exchange the heating element.
X							Incorrect operation of the temperature limiter.	► Replace the temperature limiter or install a new one.
X		X	X			X	Scale on the appliance and/or the safety group.	► Remove scale. ► If necessary replace the safety group.
		X	X			X	Water pressure in the system.	► Check the system water pressure. ► If necessary, install a pressure reducer.
		X				X	Capacity of the water supply network.	► Check piping.
				X			Corrosion of DHW cylinder.	► Drain the DHW cylinder and check the inner wall for corrosion. ► Replace the magnesium anode.
					X		Bacterial contamination.	► Drain the DHW cylinder and clean it. ► Disinfect the DHW cylinder.
X							The appliance capacity does not meet requirements.	► Replace this with another product that has sufficient capacity.

Table 12

10 Quick start



Notes

Notes

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