

Maxi Geocoil - MGC

400 l.

EN



SAFETY INFORMATION
O&M INFORMATION
INSTALLATION MANUAL
TDS – TECHNICAL DATA SHEET

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OSO
HOT WATER

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1. SAFETY INSTRUCTIONS

1.1 General information






- Read the following safety instructions carefully before installing, maintaining or adjusting the buffer tank.
- Personal injury or material damage may result if the product is not installed or used in the intended manner.
- Keep this manual and other relevant documents where they are accessible for future reference.
- The manufacturer assumes compliance (by the end-user) with the safety, operating and maintenance instructions supplied and (by the installer) with the fitting manual and relevant standards and regulations in effect at the date of installation.






Symbols used in this manual:





	WARNING	Could cause serious injury or death
	CAUTION	Could cause minor or moderate injury or damage to property
	DO NOT	
	DO	





1.2 Safety instructions for users

 WARNING	
	The overflow from the safety valve shall NOT be sealed or plugged.
	The product must NOT be modified or changed from its original state.
	Children shall NOT play with the product or go near it without supervision.
	Maintenance/settings shall only be carried out by persons over 18 years of age, with sufficient understanding

 CAUTION	
	The product shall not be exposed to frost, over-pressure, over-voltage or chlorine treatment. See warranty provisions.
	Maintenance/settings shall not be carried out by persons of diminished physical or mental capacity, unless they have been instructed in the correct use by someone responsible for their safety.

1.3 Safety instructions for installers

 WARNING	
	The overflow from the safety valve must NOT be sealed or plugged. Safety valve supplied with the product
	Any overflow pipe from the safety valve shall be in a suitable dimension and must be uninterruptable, undamaged and frost-free with a fall to a suitable drain or gully.
	The relevant regulations and standards, and this installation manual, must be followed.

 CAUTION	
	The product shall be placed in a room with a floor drain. The manufacturer assumes no responsibility whatsoever if this provision is not followed.
	The product shall be properly aligned vertically and horizontally, on a level floor suitable for the total weight of the product when in operation. See type plate.
	The product must have a clearance for servicing of 40 cm in front of the electric junction box cover/10 cm over the highest point.

2. PRODUCT DESCRIPTION

2.1 Product identification

Identification details for your product can be found on the type plate fixed to the product. The type plate contains details of the product in accordance with EN 12897:2016 and EN 60335-2-21, as well as other useful data. See Declaration of Conformity at www.osohotwater.com for more information.

OSO products are designed and manufactured in accordance with:

- Pressure vessel standard EN 12897:2016
- Safety standard EN 60335-2-21

OSO Hotwater AS is certified for

- Quality ISO 9001
- Environment ISO 14001
- Work environment ISO 45001

2.2 Intended use

The Maxi Geocoil is designed for use as a buffer for tap water at electrical peak load. The MGC is fitted for external energy sources.

2.3 CE marking



The CE mark shows that the product complies with the relevant Directives. See Declaration of Conformity at www.osohotwater.com for more information.

The product complies with EU Directives for:

- Low voltage LVD 2014/35/EU
- Electromagnetic compatibility EMC 2014/30/EU
- Pressurised equipment PED 2014/68/EU

The safety valve(s) used must be CE marked and conform to PED 2014/68/EU.

2.4 Technical data

OSO Model no.	Product code:	Capacity, persons	Weight, kg.	Dia. x Height mm.	Freight vol. m ³	Volume 40°C water	Thermostat setting °C
11011539	MGC 400 - 9kW / 3x230V+HX3.1 m ²	-	95	ø595x2172	0.81	260	75
The products are classified as IP21.							

2.5 ErP data - Technical Data Sheet

Brand	OSO Model no.	Model name	Actual volume L	Heat loss W	ErP Rating
OSO Hotwater AS	11011539	MGC 400	362	96	C
Regulation: 2017/1369/EU - Regulation: EU 812/2013			Directive: 2009/125/EC - Regulation: EU 814/2013		
Heat loss tested acc. to standard EN 12897:2016					

2.6 Spare parts

NRF no.	OSO Product no.	Designation	Product description:	Dimension
8015194	11000888	RG 1 1/4"	Element - 9kW - 3-fas Δ230/Y400V, 3 tubes	Length 460 mm
8015899	11001069	TS2	Thermostat - 59T/66T 50-75°C 1 phase	2-pole
	11000611	AN	Anode - 3/4"	Length 800 mm
	11001171	Connection wire	Internal wire - 4#, purple	On a roll
	11001182	Connection wire	Internal wire - 4#, black, fork+eye	Length 280 mm
	11001183	Connection wire	Internal wire - 4#, black, fork/bend+eye	Length 280 mm
8004016	11001198	Wire junction	Ouneva - VC05-0012 5x1x2,5-35mm ²	
8015715	11001423	PT 3/4"	Safety valve - pressure&temp. 10 bar / 90-95°C - Caleffi	G3/4" M / G1/2" F

3. INSTALLATION INSTRUCTIONS

3.1 Products covered by these instructions

Maxi Geocoil - MGC 400

3.2 Included in delivery

Ref no.	Number of	Description
1	1	Buffer tank with electrical peak load + coil
2	1	PT valve 10 bar/90-95°C (supplied)
3	1	El. junction box with element/thermostats
4	2	Sensor pocket $\varnothing 6 / \varnothing 8$ mm
5	1	Installation manual (this document)
6	1	Center support foot with base (supplied)
7	3	Adjustable feet, factory fitted

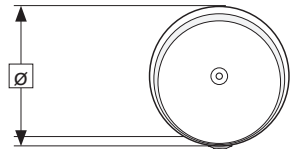
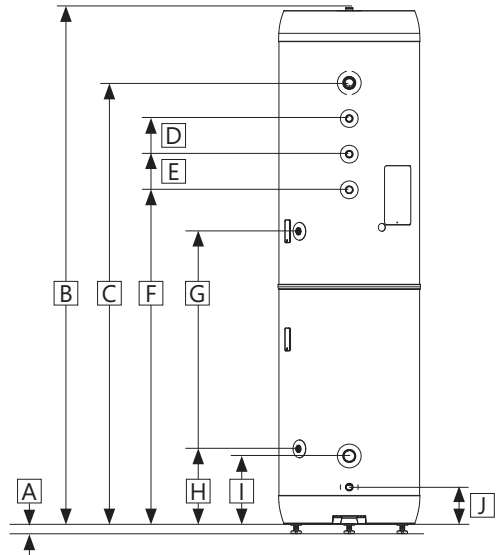
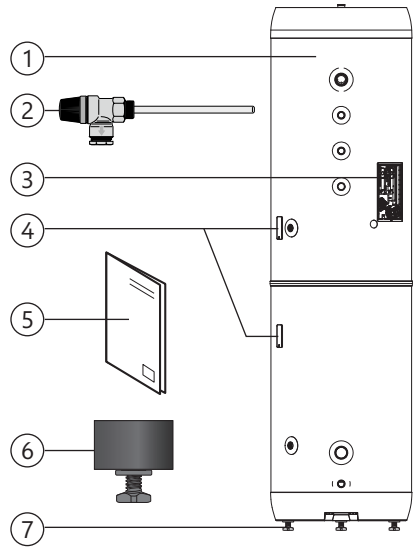
3.3 Product dimensions

All dimensions in mm.

Product	\varnothing	A	B	C	D
MGC 400	595	0-40	2172	1856	1706

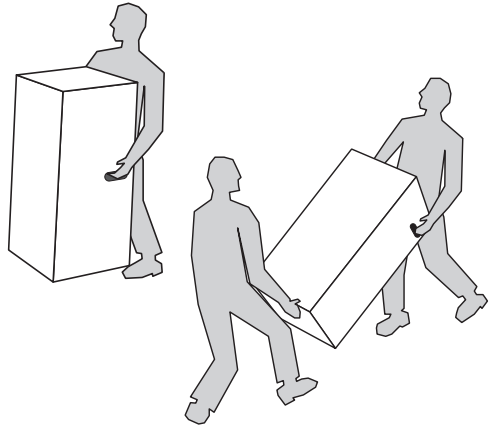
Product	E	F	G	H	I	J
MGC 400	1556	1406	1232	316	286	155

Tolerance +/- 5 mm. (not dimension A).



3.3.1 Delivery

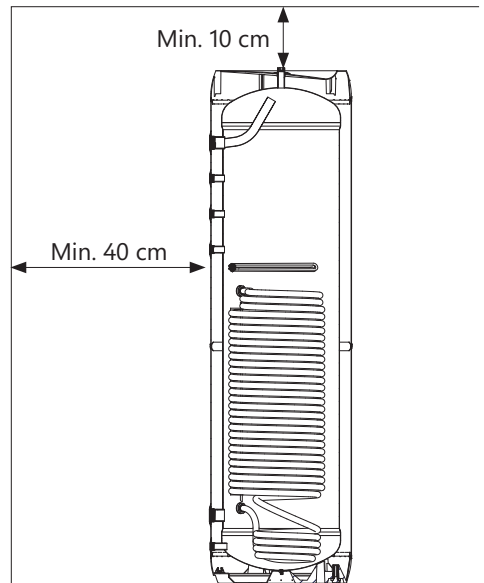
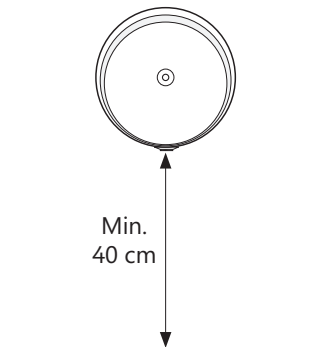
The product should be transported carefully as shown, with packaging. Use the handles in the box.



⚠ CAUTION
Pipe stubs, valves etc. shall not be used to lift the product as this could cause malfunctions.

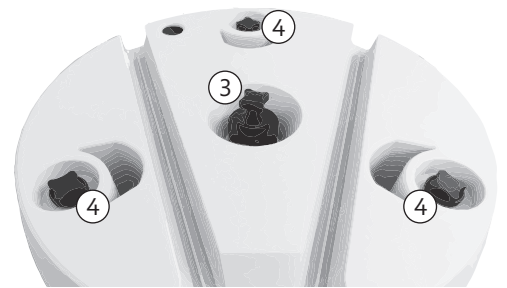
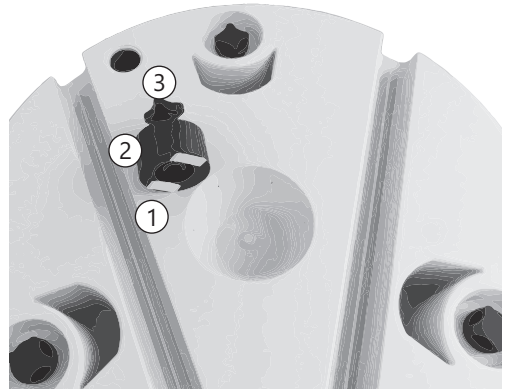
3.4 Requirements for installation location and positioning

⚠ CAUTION	
❗	The product shall be placed in a room with a floor drain. The manufacturer assumes no responsibility whatsoever if this provision is not followed.
❗	The product shall be placed in a dry and permanently frost-free position.
❗	The product shall be placed on a level floor suitable for the total weight of the product when in operation. See type plate.
❗	The product must have a clearance for servicing of 40 cm in front of the electric junction box cover/10 cm over the highest point.
❗	The product shall be easily accessible for servicing and maintenance.



3.5 Installation of center support foot

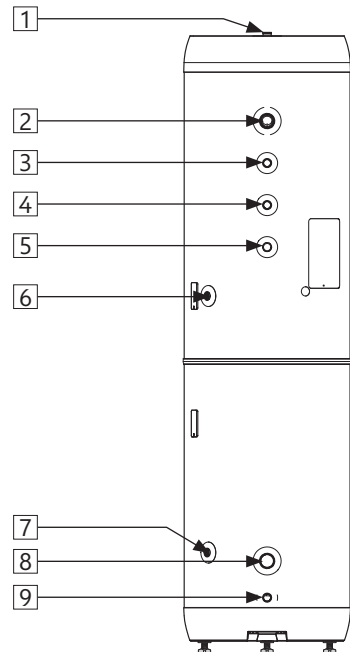
- A. Unpack the heater and lay it on its side. Use the packaging cardboard as a substrate, take care so that the product does not suffer cosmetic damage.
- B. Two adhesive pads are included with the center support foot. Remove the protective paper on one side and fit the adhesive pads as shown (1).
- C. Remove the second protective paper of the adhesive pads and fit the center support (2) with the foot (3) in the center hole in the bottom of the product (see illustration). Press the support firmly into place.
- D. Unscrew the support foot (3) to the desired height. Raise the boiler so that it stands on the foot of the central support and place the boiler in the desired position in the room.
- E. Adjust the three outer feet (4) until the product is plumb and level. Middle support foot MUST be in full contact with the floor after the adjustment.
- F. Install pipes to the product and fill up with water according to the pipe installation instructions in this manual.



3.6 Pipe installation

The product is designed to be permanently connected to the mains water supply. Approved pipes of the correct size should be used for installation. The relevant standards and regulations must be followed.

No.	Dimension	Connection description
1	G 3/4" F	Venting / hot water outlet (plugged)
2	G 1 1/2" F	Hot water outlet
3	G 3/4" F	PT safety valve
4	G 3/4" F	Hot water circulation / Thermometer
5	G 3/4" F	Anode (optional, not included)
6	G 3/4" F	Coil connection, upper
7	G 3/4" F	Coil connection, lower
8	G 1 1/2" F	Cold water inlet
9	G 3/4" F	Draining/safety valve



3.6.1 Incoming water pressure, outlet temperature

The efficiency of the product depends on the incoming cold water pressure. The water pressure should be min. 2 bar and max. 6 bar throughout the day. Excessive water pressure can be adjusted

by installing a pressure reduction valve.
 Important: Max. inlet water temperature to the
 OSO BS mixing valve (optional) is 90°C.

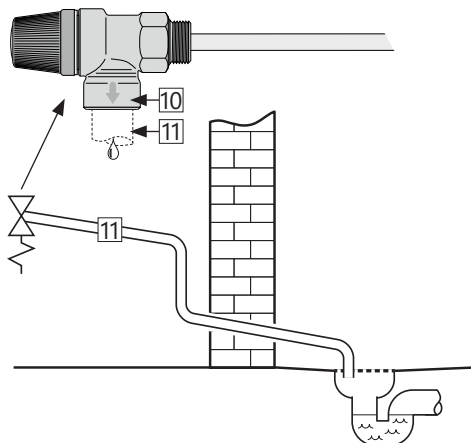
3.6.2 Fitting pipes

- A) Run a pipe of suitable size to the connections shown, and affix with suitable sealant. Unused connections must be plugged securely.
- B) The product can be connected in series for increased capacity in the system.

3.6.3 Fitting of overflow pipe

An overflow pipe (11) in a suitable dimension is run to the safety valve;

- Connects to the overflow (10) on the safety valve (3/4" inside thread).
- Must be fitted uninterrupted, undamaged and frost-free with a fall to a suitable drain.



⚠ CAUTION

Safety equipment for energy according to power output from the coil must be supplied by the installer.

3.6.4 Pressure drop table coil

Product info:		Pressure drop (mbar) at volume flow:							Cw value (m ² /h):
Product	Coil heat surface m ²	540 L/h (0,15L/s)	900 L/h (0,25 L/s)	1800 L/h (0,50 L/s)	2700 L/h (0,75 L/s)	3600 L/h (1,00L/s)	4500 L/h (1,25 L/s)	5400 L/h (1,50 L/s)	Volume flow @ 1 bar pressure drop
MGC 400	3.1	35	81	306	619	1081	1619	2321	3.8

3.6.5 Fitting instructions

⚠ CAUTION

- ❶ The product shall be placed in a room with a floor drain. The manufacturer assumes no responsibility whatsoever if this provision is not followed.
- ❷ The product shall be properly aligned vertically and horizontally, on a level floor suitable for the total weight of the product when in operation. See type plate.
- ❸ The product must have a clearance for servicing of 40 cm in front of the electric junction box cover/10 cm over the highest point.

3.6.6 Fitting recommendation

RECOMMENDATION

- If the maximum water pressure exceeds 6 bar in a 24-hour period, a reduction valve and expansion vessel shall be fitted.

3.7 Electrical installation

Fixed electrical fittings must be used for installation. Any electric fittings must be installed by an authorised electrician. The relevant standards and regulations must be followed.

3.7.1 Electrical components

Component	Note
Safety thermostat	85°C thermal cut-out
Work thermostat	50-75°C adjustable
Heating element	3-phase Δ230/Y400V
Internal wires	Heat-resistant

3.7.2 Electrical connections in the junction box

WARNING

Constant voltage present at the terminals. Before any electrical work is done, the power supply must be disconnected and secured against activation while the work is in progress.

- A) Supply cable connected to terminal (1) as shown. Supply wires should be secured with suitable strain relievers.
- B) Internal wires from connection piece (1) to thermostats and the wires from thermostats to elements are pre-connected from the factory.
- C) Make sure that the earth wire (yellow wire

with green stripe) is connected to the earthing point 

Cover of junction box should be correctly mounted before the power is switched on. The power must not be switched on until the product has been filled with water.

Reduction of electric power output

The product is fitted with two identical electric junction boxes. The power output can be reduced in each electric junction box to 3 or 6 kW if desired. See pt. 3.7.4.

All electrical installation shall be performed by approved installer.

3.7.3 Torque settings




Component	Torque
G1.1/4" heating element	60 Nm (+/- 5)
Thermostat screws	2 Nm (+/- 0,1)
Nuts on the element head	2 Nm (+/- 0,1)
Screws on terminal (1)	2,5-16 mm ² : 3 Nm
	25-35 mm ² : 6 Nm

3.7.4 Reduced electric power output 3 - 6 kW



The electric output from the 9 kW el. junction box can be reduced to 3 or 6 kW by removing jumpers from the element, see illustration. Electric effect can then only be 1x230V. All electrical installation shall be performed by approved installer.

3.7.5 Fitting instructions

WARNING

	The product should be filled with water before the power is switched on.
	Fixed electrical fittings must be used for installation according to the regulations. Any electric fittings must be installed by an authorised electrician. Components for disconnection must be integrated in the electric connection in accordance with current standards and regulations.
	The mains cable should withstand 90°C continuously. A suitable strain reliever must be fitted.

CAUTION

	The product must have a clearance for servicing of 40 cm in front of the electric junction box cover/10 cm over the highest point.
	In case of damage to the power supply cable, this should be replaced with new cable with the correct specifications for the installation. All electrical work should be performed by an authorised electrician.

3.7.6 Fitting recommendation

RECOMMENDATION

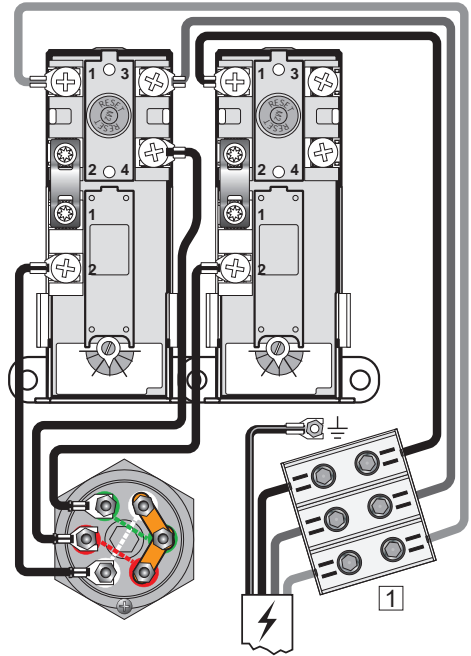
-	An authorized electrician should calculate the correct supply cable and fuse according to the applicable standards and regulations. Make sure all wires are undamaged and are not pinched..
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Electrical connection diagram - STANDARD
7.5 kW - TN-C-S - 400V

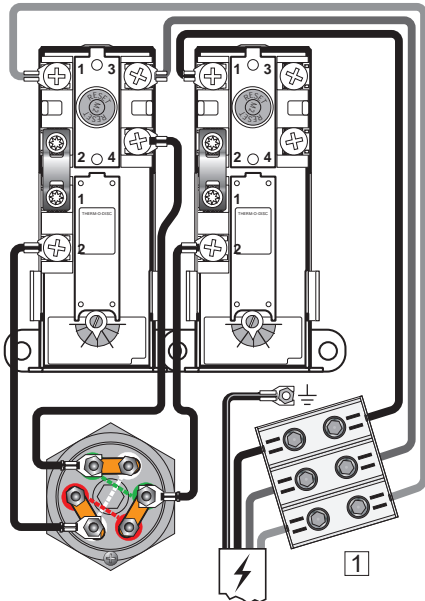
The product is fitted with two identical electric junction boxes. Important: Neutral wire is NOT possible!

⚠ WARNING

Constant voltage present at the terminals. Before any electrical work is done, the power supply must be disconnected and secured against activation while the work is in progress.

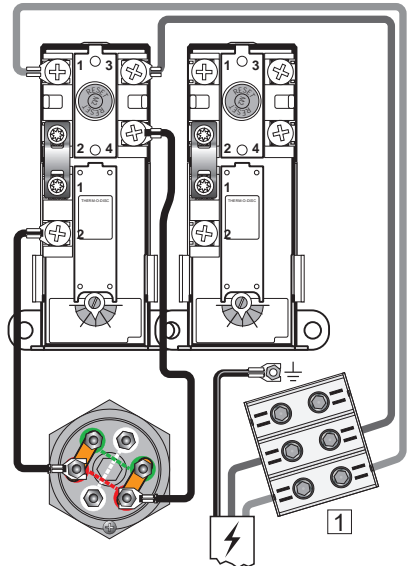


Alternative connection IT net - Norway only. Options for reduced output effect is shown.



Electrical connection diagram - OPTIONAL
7.5 kW - 230V 3-phase IT

The product is fitted with two identical electric junction boxes.



5 kW 230V 1-phase IT:

Wire from the right thermostat to the element is removed. The jumpers on the element is arranged as shown and wires from the left thermostat is fitted as shown. Two of three heating pipes are in use. For 2,5 kW effect: Remove jumpers.

4. INITIAL COMMISSIONING

4.1 Filling with water

First check that all pipes are connected correctly. Then fill the tank according to the needs/requirements of the system. Make sure that the tank is vented during filling to prevent air pockets.

4.2 Turning on the power

When the cylinder has been filled with water, the power can be switched on.

A) Switch on breaker/fuse.

4.3 Control points

- A) Check that all pipe connections to/from the product are tight and not leaking.
- B) Check that the power supply to the product is not at risk of exposure to mechanical, thermal or chemical damage.
- C) Check that any overflow pipe from the safety valve is clear, undamaged and frost-free with a fall to the drain.
- D) Check that the product is standing firmly vertically and horizontally.

4.4 Emptying of water

⚠ WARNING

The water temperature in the product is 75°C and could cause scalding. Before emptying, a hot tap should be opened to the max. pressure/temperature for min. 3 minutes.

- A) Disconnect the power supply.
- B) Shut off incoming cold water supply.
- C) Open a hot tap to the maximum – leave open (prevents a vacuum).
- D) The product is emptied via the drain pipe (5) or by opening the safety valve if this is fitted to the connector (5).

To open the safety valve, see 'Maintenance instructions' in section 5.2.

After emptying, close the pipe (5) or safety valve. Close all open taps.

4.5 Handover to end-user

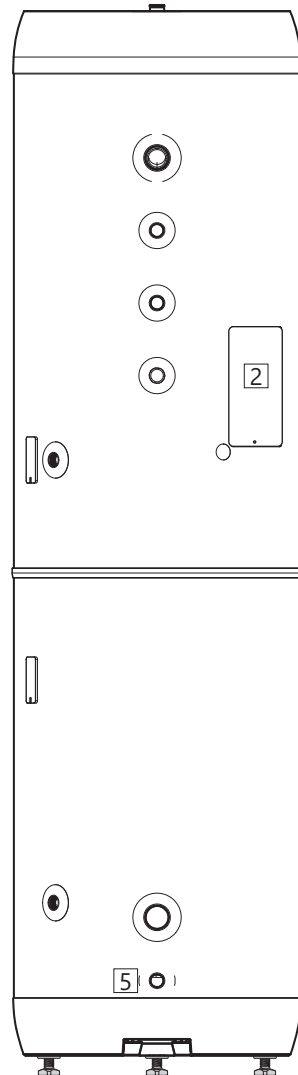
THE INSTALLER MUST:

Brief the end-user on safety and maintenance instructions.

Brief the end-user on settings and emptying the product.

Hand this installation manual over to the end-user.

Enter contact details on the type plate on the product.



5. USER GUIDE

5.1 Settings

5.1.1 Thermostat setting

The product's thermostats are adjustable from 50-75°C. The thermostat should not be set lower than 60°C to prevent bacteria growth. To adjust the temperature:

- A) Disconnect the power supply.
- B) Remove the cover (2) with a screwdriver.
- C) Adjust the temperature on the thermostats (3) with a screwdriver.

Fit the cover (2) before connecting the power supply.

5.1.2 Resetting the safety thermostat

The safety thermostats on the product cut out when there is a risk of overheating. These are reset by switching off the power supply, removing the cover (2) and pressing the red 'RESET' button (4). If the thermostat cuts out repeatedly, contact the installer.

5.2 Annual inspection

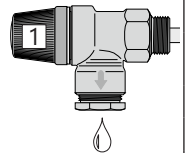
All components fitted in or to the product must be inspected annually. Inspection must be performed by person older than 18 years of age, with appropriate qualifications. Annual inspection includes:

- Checking all connections for leaks. Tighten or maintain properly if required..
- Tighten all connections in the electric junction box:
 - A) Disconnect power supply and ensure against activation while work is in progress.
 - B) Remove junction box cover (2) and tighten all connections to the correct torque as shown in table 3.6.3. The junction box cover must be refitted before power is turned back on.
- Inspection of safety valve operation, see pt. 5.3.

5.3 Maintenance

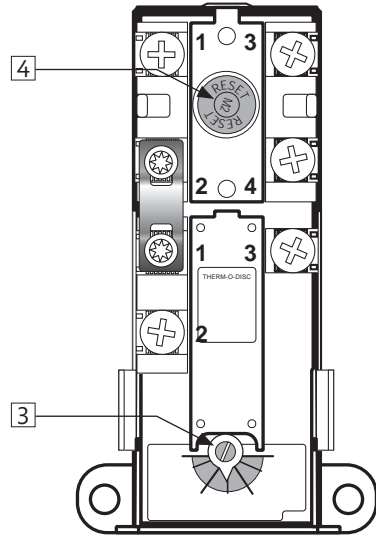
MAINTENANCE INSTRUCTIONS

⚠	Maintenance shall be carried out by persons over 18 years of age, with sufficient understanding.
⚠	Annual inspection of safety valve:
-	Open valve for 1 min. by turning knob (1) approx. 90 degrees counterclockwise to the open position.
-	Visually check that the water is flowing freely to the drain.
-	YES = OK. Close the valve by turning knob (1) further counterclockwise.
-	NO = NOT OK. Disconnect power supply / shut off water supply. Contact installer.



⚠ WARNING

Constant voltage is present in the junction box. Before any electrical work is done, the power supply must be disconnected and secured against activation while the work is in progress.



6. TROUBLESHOOTING

6.1 Faults and fixes

If problems arise when the product is in use, check for possible faults and fixes in the table. If you are unsure what is wrong, contact the

installer (see product type plate) or OSO Hot-water AS - see section 7.1.

TROUBLESHOOTING		
Problem	Possible cause of fault	Possible solution
There is leakage/dripping from the safety valve/there is often water on the floor by the cylinder in the morning	Pressure reduction valve, water meter or blocked non-return valve on the water intake.	Fit AX expansion vessel which absorbs expansion during heating, and fit pressure reduction valve for stable water pressure inside the system. The pressure reduction valve is adjusted in according to the pressure in the expansion vessel. Contact auth. installer.
	Water pressure into the system is too high.	
	The safety valve is worn or there are particles stuck between the membrane and the valve seat because the water is dirty	Try to flush with water through the safety valve. Open valve for approx. 1 minute. See section 5.2. If the valve still leaks, it must be replaced. Contact auth. installer.
	Leak from heating element.	Verify as follows: a) cut the electric supply, b) unscrew the cover, c) visually check whether there is a leak from the heating element. If so, replace the gasket/heating element. Contact auth. installer.
No hot water	Power supply interrupted.	Verify that the fuse is on / the plug is plugged in to the wall contact / the earth breaker has not tripped.
	Thermostat has cut out.	Press the 'RESET' button on the safety thermostat; see 'User guide'.
	Heating element is defective.	Replace heating element. Contact auth. installer.
	Leak in hot water pipe	Verify as follows: a) close the water supply, b) wait 2-3 hours, c) feel the tank to see whether it is hot. If so, there is a leak in the hot water pipe or elsewhere. Contact auth. installer.
Not enough hot water	High consumption in the system.	Switch to a larger OSO water heater. Contact auth. installer.
Not high enough temperature	The thermostat is set for low temperatures.	Check the thermostat settings. Turn up to 75°C; see 'User guide'.
	Change from cold to hot water in taps.	Contact auth. installer.
Fuse/earth breaker trips repeatedly	Possible fault in the heater's electrical system.	Verify as follows: a) cut the electric supply, b) unscrew the cover, c) visually check the junction box for any problems. If so, contact auth. installer to check. Fit the cover.
Long time before the water reaches the tap	Long stretch of pipe from water heater to tap.	Fit circulation wire or heating cable to HW pipe. Or fit an auxiliary heater by the tap. Contact auth. installer.
Knocking in the pipes when the hot tap is closed	Large pressure increase when the tap is closed quickly.	Completely normal. Fit AX expansion vessel if troublesome. Contact auth. installer.

7. WARRANTY CONDITIONS - applies to UK only

1. Scope

OSO Hotwater UK Ltd. (hereinafter called OSO) warrants for 2 years from the date of purchase, that the Product will: i) conform to OSO specification, ii) be free from defects in materials and workmanship, subject to conditions below. All components carry a 2-year warranty.

The warranty is voluntarily extended by OSO to 10 years for the stainless steel inner tank. This extended warranty only applies to Products purchased by a consumer, that has been installed for private use and that has been distributed by OSO or by a distributor where the Products have been originally sold by OSO. The extended warranty does not apply to Products purchased by commercial entities or for Products that have been installed for commercial use. These shall be subject only to the mandatory provisions of the law. The conditions and limitations set out below shall apply.

2. Coverage

If a defect arises and a valid claim is received within the statutory warranty period, at its option and to the extent permitted by law, OSO shall either: i) repair the defect, or; ii) replace the product with a product that is identical or similar in function, or; iii) refund the purchase price.

If a defect arises and a valid claim is received after the statutory warranty period has expired, but within the extended warranty period, OSO will supply a product that is identical or similar in function. OSO will in such cases not cover any other associated costs. In addition, for every year after the statutory warranty period, the claimant must contribute 4% of the list price of the cylinder in question to OSO.

Any exchanged Product or component will become the legal property of OSO. Any valid claim or service does not extend the original warranty. The replacement Product or part does not carry a new warranty.

3. Conditions

The Product is manufactured to suit most public water supplies. However, there are certain water chemistries (outlined below) that can have a detrimental effect on the Product and its life expectancy. If there are uncertainties regarding water quality, the local water supply authority can supply the necessary data.

The warranty applies only if the conditions set out below are met in full:

- The Product has been installed by a professional installer, in accordance with the instructions in the installation manual and all relevant Codes of Practice and Regulations in force at the time of installation.
- The Product has not been modified in any way, tampered with or subjected to misuse and no factory fitted parts have been removed for unauthorized repair or replacement.
- The Product has only been connected to a domestic mains water supply in compliance with the European Drinking Water Directive EN 98/83 EC, or latest version. The water should not be aggressive, i.e. the water chemistry shall comply with the following:

- Chloride	< 250 mg / L
- Electric Conductivity (EC) @25°C	< 750 uS / cm
- Saturation Index (LSI) @80°C	> -1,0 / < 0,8
- pH level	> 6,0 / < 9,5

7.1 Customer service

In case of problems that cannot be resolved with the aid of the troubleshooting guide in this installation manual, contact either:

- The immersion heater has not been exposed to hardness levels exceeding 5°dH (180 ppm CaCO₃). Warranty is invalid if the product is affected by accumulation of limescale/calcium deposits. A water softener is recommended in such cases.
- Any disinfection has been carried out without affecting the Product in any way whatsoever. The product must be isolated from chemically treated water.
- The Product has been in regular use from the date of installation. If the Product is not intended to be used for 60 days or more, it must be drained.
- The immersion heater element must be removed for inspection on service after 5 years. The threads must be checked for corrosion. If signs of corrosion are evident, the element must be replaced. Subsequently the element must be removed and examined every 3 years. Failure to do so in areas of aggressive water may result in the element separating from the cylinder with consequential escape of water.
- Service and/or repair shall be done according to the installation manual and all relevant codes of practice. Any replacement parts used shall be original OSO spare parts.
- The Service record / Benchmark logbook has been completed and updated after each annual service. Invoices should be kept as proof of service.
- The Commissioning Checklist / Benchmark certificate has been completed at the time of installation.
- Any third-party costs associated with any claim has been authorized in advance by OSO in writing.
- The purchase invoice and/or installation invoice, a water sample as well as the defective product is made available to OSO upon request.

Failure to follow these instructions and conditions may result in product failure, and water escaping from the Product.

4. Limitations

The warranty does not cover:

- Any fault or costs arising from incorrect installation, incorrect application, lack of regular maintenance in accordance with the installation manual, neglect, accidental or malicious damage, misuse, any alteration, tampering or repair carried out by a non-professional, any fault arising from the tampering with or removal of any factory fitted safety components or measures.
- Any consequential damage or any indirect loss caused by any failure or malfunction of the Product whatsoever.
- Any pipework or any equipment connected to the Product.
- The effects of frost, lightning, voltage variation, lack of water, dry boiling, excess pressure or chlorination procedures.
- The effects of stagnant (de-aerated) water if the Product has been left unused for more than 60 days consecutively.
- Damage caused during transportation. Buyer shall give the carrier notice of such damage.
- Costs arising if the Product is not immediately accessible for servicing.

These warranties do not affect the Buyer's statutory rights.

- A) The installer who supplied the product.
- B) OSO Hotwater UK: Phone: (0191) 482 0800
technical.uk@oso-hotwater.com
www.osohotwater.co.uk

8. REMOVING THE PRODUCT

8.1 Removal

- A) Disconnect the power supply.
- B) Shut off incoming cold water supply.
- C) Empty the product of water – see section 4.4.
- D) Disconnect all pipes.
- E) The product can now be removed.

8.2 Returns scheme

This product is recyclable and should be taken to the environmental recycling centre. If the product is to be replaced with a new one, the installer can take the old cylinder away for recycling.

OSO

HOTWATER

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