Super Coil - SC

120-150-180-210-250-300 I.

ΕN



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



Manufactured by OSO Hotwater AS Industriveien 1 – 3300 Hokksund – Norway Tel: +47 32 25 00 00 / Fax: +47 32 25 00 90 E-post: oso@oso.no / www.osohotwater.com 11001865-142229-05 – 05-2022 OSO HOTWATER

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Symbols used in this manual:

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



This document must be kept in a suitable place where it is accessible for future reference.

This OSO product is approved to building and water regulations by KIWA Watertec Ltd.

Tel: 01495 308 185

Email: watertecenquiries@kiwa.co.uk

Safety instructions

- Read the following safety instructions carefully before installing, maintaining or adjusting the water heater.
- 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 doc-
- uments 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.

Safety instructions for users

	△ WARNING				
0	The overflow from the safety valve must NOT be sealed or plugged.				
0	The product must NOT be covered over the cover on the front.				
0	The product must NOT be modified or changed from its original state.				
0	⊘ Children must NOT play with the product or go near it without supervision.				
0	The product shall be filled with water before the power is switched on.				
0	Maintenance/settings should only be carried out by persons over 18 years of age, with sufficient understanding				

	△ CAUTION				
0	The product must not be exposed to frost, over-pressure, over-voltage or chlorine treatment. See warranty provisions.				
0	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.				

Safety instructions for installers

Sale	Safety Instructions for Installers					
	⚠ WARNING					
0	The overflow from the safety valve must NOT be sealed or plugged.					
0	Discharge must comply with current building regulations.					
•	Fixed electric fittings shall be used for installation in new homes or when changing an existing electrical setup in accordance with regulations.					
•	The mains cable shall withstand 85°C. A strain reliever must be fitted.					
•	The product shall be filled with water before the power is switched on.					
•	The relevant regulations and standards, and this installation manual, must be followed.					

_							
	△ CAUTION						
	0	The cylinder must be installed complying with current building regulations. Liability for consequential damage will only apply if this is followed.					
	The product shall be properly aligned vertically and horizontally, on a floor or wall suitable for the total weight of the product when in operation. See type plate.						
	0	The product must have a clearance for servicing of 400 mm in front of the immersion cover / 150 mm above cylinder.					
	0	Do not use the balanced cold connection to feed any outlets other than mixer showers. Under no circumstances use the balanced cold connection to feed all cold water outlets as this practice contravenes Section 10 of water regulations.					

1. GENERAL INFORMATION

1.1 Product Identification

Identification of your product can be found on the label attached to the product. The label contains information about the product according to EN 12897: 2016 and EN 60335-2-21, in addition to other useful data. See Declaration of Conformity at www.osohotwater.com for more information

OSO products are designed and manufactured according to:

•	Tank standard	EN 12897:2016
•	Safety standard	EN 60335-2-21
•	Welding standard	ISO 3834-2

OSO Hotwater AS is certified according to
 Quality ISO 9001
 Environment ISO 14001
 Working Environment ISO 45001

1.2 UKCA marking UK

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

The product complies with Directives for:

Low voltage	LVD 2014/35/EU
Electromagnetic compatibility	EMC 2014/30/EU

• Pressurised equipment PED 2014/68/EU

1.4 General information

Thank-you for purchasing the OSO Super SC indirect hot water cylinder. Designed to be simple and neat to install, the Super SC differs from other unvented cylinders in that all of the principle connections, including hot and cold water pipes and expansion vessel are connected to the top of the cylinder. Full size template is provided to facilitate pipe positioning.

OSO advise that the connecting pipes and electrical cables are fixed in place prior to the positioning of the cylinder. Moving the cylinder into position should be the last thing done before connection of pipes and commissioning of the cylinder.

This manual gives detailed advice for installation and should be read carefully prior to fitting any unvented unit. OSO Super SC cylinders are not suitable for gravity fed primary systems. In known hard water regions, precautions should be taken to prevent limescale formation in hot water cylinders, in accordance with Building Regulation Part L, Domestic Heating Compliance Guide.

This OSO cylinder must be installed by a competent person and be installed in compliance with the OSO Installation and Maintenance Instructions, all current legislation, codes of practice and regulations governing the installation of unvented hot water cylinders in force at the date of installation.

1.3 ErP data - Technical Data Sheet

TDS - Technical Data Sheet - Indirect water heater - ErP data								
Directive: 2010/30/EU Regulation: EU 812/2013 Directive: 2009/125/EC Regulation: EU 814/2013						2013		
Heat loss tested ac	Heat loss tested acc. to standard: EN 12897/2016							
Trade mark	M T.	M	odel/identifier		ErP	Heat	Storage	
Haue Hark	item no.	IVI	odel/identifier		Rating	loss W	volume L	
OSO Hotwater AS	10802951	SC 120 - 2.8kW @ 230	V/3.0kW @ 240V + coil 0	.5m²	В	44	109	
OSO Hotwater AS	10802952	SC 150 - 2.8kW @ 230	V/3.0kW @ 240V + coil 0	.8m²	В	54	142	
OSO Hotwater AS	10802953	SC 180 - 2.8kW @ 230	V/3.0kW @ 240V + coil 0	.8m²	C	61	163	
OSO Hotwater AS			V/3.0kW @ 240V + coil 0		C	67	190	
OSO Hotwater AS	10802955	SC 250 - 2.8kW @ 230	V/3.0kW @ 240V + coil 0	.8m²	C	80	239	
OSO Hotwater AS	10802956	SC 300 - 2.8kW @ 230	V/3.0kW @ 240V + coil 0	.8m ²	C	89	277	

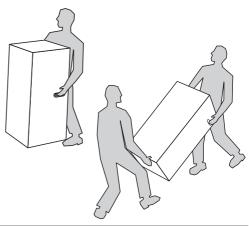
△ CAUTION

This indirect hot water storage tank is intended to be connected to a high efficiency external energy source. The immersion heaters are intended for backup and supplementary use only. Immersion heaters as sole heat source should be avoided and would lead to higher energy consumption and higher operating cost.

1.5 Handling, location and positioning The product should be transported carefully as shown, with packaging. Use the handles in the box.

△ CAUTION

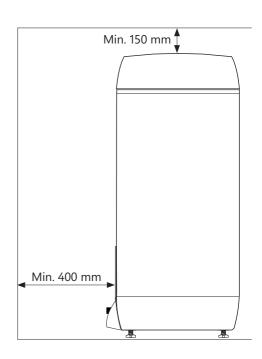
Tappings, valves etc. should not be used to lift the product as this could cause malfunction.



	△ CAUTION					
0	The cylinder must be installed complying with current building regulations.					
0	The product should be placed in a dry and permanently frost-free position.					
0	The product should be placed on a floor or wall suitable for the total weight of the product when in operation. See type plate.					
0	The product must have a clearance for servicing of 400 mm in front of the immersion cover / 150 mm above cylinder.					
0	The product should be easily accessible in the home for servicing and maintenance.					

1.6 Clearances





2. INSTALLATION

2.1 Health and safety regulations

Handling Operations Regulations 1992 defines manual handling as: "any transporting or supporting of a load (including the lifting, putting down, pushing, pulling, carrying or moving thereof by hand or bodily force". The Regulations set no specific requirements such as weight limits. However common sense still has to be used based on an ergonomic approach for each individual. The Super SC should be transported and stored in a vertical position.

2.2 Siting the Super SC

The cylinder should not be positioned until the connecting pipework and cables are fitted. There are few restrictions on the siting of the OSO Super SC, however it should not be sited anywhere open to frost attack. The unit should be placed on a stable flat surface capable of withstanding the weight of the cylinder when full (see table on page 20) and access must be allowed for maintenance purposes. Prior to positioning the cylinder, wind out the feet in the base to protrude by 10 mm (35 mm if using optional wall bracket). If wall mounted with an OSO wall bracket, the wall should be capable of withstanding the forces generated by the weight of the full cylinder. Provision should also be allowed for the routing of the discharge pipe away from the cylinder to an outside point according to building regulation G3.

2.3 Component check list

Components supplied with the unit in a separate accessory kit for site fitting:

- Expansion vessel with wall bracket (300 l. only)
- Tundish (incl. screws)
- Plastic cable clamp

Components factory fitted:

- Expansion vessel(s) with T piece connector
- Flexible hose for expansion vessel
- Combination valve, includes line strainer, pressure reducing valve, balanced cold water connection (for shower or bidet only), blanking cap for balanced cold water connection, temperature & pressure relief valve and hot water blending valve.
 - Documentation supplied:
- Installation manual & service logbook

- Template for connecting pipework
- Immersion heater(s) 3 kW
- Thermostat(s) / thermal cut-out
- Drain cock
- · Lid for cylinder.

2.4 Supply requirements

An uninterrupted 22 mm cold water mains supply is recommended, however if only a 15 mm supply is available, this may be used provided there is sufficient flow rate available. A minimum standing pressure of 2.5 bar and a flow rate of 20 litres per minute with a 1 bar dynamic pressure is recommended. The cylinder will operate at lower pressures and flow rates however the performance will be compromised. The OSO unvented unit is designed for use with supply pressure up to 8 bar. For pressures over 8 bar an additional pressure reducing valve must be fitted in the supply pipe to the unit.

2.5 Expansion vessel

Super SC 120-250: Twin expansion vessels (single on 120) are factory fitted to the multifunction valve using the supplied flexible hose. Super SC 300: An external expansion vessel is provided to be connected to the multifunction valve. The vessel(s) accommodate expanded water when the cylinder is heated and prevents the cylinder reaching its maximum working pressure.

2.6 Wall mounting

Wall mounting brackets are available for OSO unvented units Super SC 120-180.



2.7 Preliminary wiring

Before final installation and pipe fitting it is recommended to feed the electrical wires to the electrical box. The OSO Super SC is provided with two channels in the base to feed electrical cables to the cylinder. The channels run diagonally from the front centre to the rear left and right, and ensures a neat installation with minimum visible cabling.

When the cylinder is moved into position remove the electrical box covers. The power cables should be fed up from the base channels into the electrical box. When cables are connected they must be secured using the cable clamp (1) supplied in the fittings bag.

All cables should comply with BS6141 table 8 HOFR 85c. Cables should be sufficient length to reach from the junction box through the base channels and leave an amount of tail from the front of the cylinder sufficient to reach the electrical connection point.

For more information about electrical installations see chapter 4. ELECTRICAL INSTALLATION.

2.8 Pipework

The OSO Super SC has all pipework connections at the top of the cylinder with these pipes secured to the rear wall. A template is provided to assist in the placement of these pipes. Decide where the cylinder is to be positioned and secure the wall template with the cross on the back wall at least 326 mm from the left wall and at the appropriate height for the cylinder according to the template.

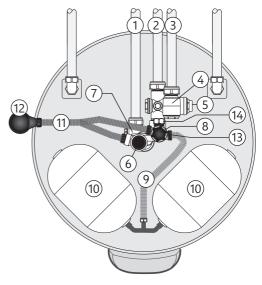
Wind the cylinder feet out to protrude 10 mm to match template instructions. Please note that if the cylinder is raised on its feet or on a plinth higher than floor level, the height of the template above the floor will need to be raised accordingly.

The connecting pipe tails should be fitted so they reach out away from the back wall horizontally, perpendicular to the wall and parallel with each other. The table below shows the exact distance these tails should be cut from wall to reach the cylinder connections. If pipes are clipped up the back

wall behind the cylinder position, the tails should be longer. Use the lengths marked 'below'. If the pipes approach the template points from above/ side, use the lengths marked 'above'.

OSO recommend that the discharge pipe should be located at the left side of the cylinder.

Tail lengths from wall	Above	Below
Cold feed in (3)	202	242
Hot water out (1)	274	314
Balanced cold water out (2)	188	228



No.	Description	Dim.
1	Domestic hot water outlet (DHW out)	ø22 mm
2	Balanced cold water connection (Bal. CW)	ø22 mm
3	Cold water main supply inlet (CW in)	ø22 mm
4	Line strainer	-
5	Pressure reducing valve - 3 bar	-
6	Temp&pressure relief valve - 90-95°C/10 bar	1/2"
7	Hot water blending valve	-
8	Expansion relief valve - 8 bar	1/2"
9	Flexible hose and T-piece (120-250 l. only)	-
10	Expansion vessel(s) (120-250 l. only)	-
11	Flexible Y-hose	-
12	Tundish	-
13	Expansion vessel connection point	1/2" BSPM
14	Secondary Return	1/2"male / ø15

2.9 Pipe connections

Before connecting the cold supply (3), flush the cold supply pipework of all flux and debris. Lift off the cylinder lid to allow access to the combination valve and other connections.

2.10 Vessel connections

Check the expansion vessel(s) and hose connections are tight. SX 300: Fit the expansion vessel and bracket on a suitable wall close to the cylinder.

2.11 Remove the template

Position the cylinder to meet the heating and domestic water pipes.

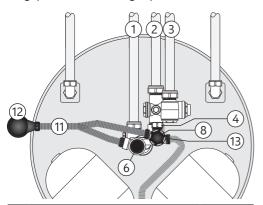
2.12 Combination valve

The combination valve at the top of the cylinder is factory fitted and is water-tight. If necessary it can be rotated in either direction to suit the connecting pipework, up to half a turn without losing its seal.

2.13 Balanced cold water supply (optional)

If no balanced cold supply is required, tighten the supplied blanking cap.

If a balanced mains pressure cold water supply is required to a shower or bidet (over rim type only, ascending spray type requires type AA, AB or AD air gap), remove blanking cap and connect to the



No.	Description	Dim.
1	Domestic hot water outlet (DHW out)	ø22 mm
2	Balanced cold water connection (Bal. CW)	ø22 mm
3	Cold water main supply inlet (CW in)	ø22 mm
4	Secondary Return	1/2" male / ø15

shower or bidet cold supply (2) on the combination valve. Major shower manufacturers advise fitting a mini expansion vessel in the balanced cold supply pipework to accommodate thermal expansion and prevent tightening of shower controls

△ CAUTION

Do not use the balanced cold connection to feed any outlets other than mixer showers. Under no circumstances use the balanced cold connection to feed all cold water outlets as this practice contravenes Section 10 of water regulations.

2.14 Cold mains supply

Connect the cold mains supply to the combination valve cold feed (see illustration below). The OSO unvented unit is designed for use with supply pressure up to 8 bar. For water pressures above 8 bar an additional pressure reducing valve must be fitted to the cold water supply pipe.

2.15 Hot water outlet

Connect the hot water distribution pipe to the combination valve hot water outlet (1), see illustration.

2.16 Expansion vessel (300 l. only)

Site the expansion vessel on the wall using the supplied bracket and connect to the expansion vessel connecting point (13) on the multifunction valve with copper pipe.

2.17 Flexible Y-hose

The flexible Y-hose (11) is preformed to the correct shape. Connect the inlet ends to the expansion relief valve (8) and the temperature and pressure relief valve (6).

2.18 Tundish

Recommended position of the tundish (12) is to the left of the cylinder as seen from the front. Connect the tundish inlet to the outlet end of the flexible Y-hose (11). Tundish should be visible and positioned away from electrical devices. Tundish can be secured with supplied screws.

2.19 Secondary return (optional)

A secondary return can be connected via the expansion relief valve (8). Remove the cap (4) and connect the tube. An additional expansion vessel will be required if the secondary return 'loop' exceeds 10% of the cylinder capacity.

1 metre of 22 mm pipe holds approximately 1/3 litre of water. 15 mm pipes carry approximately half that volume. Secondary return must be pumped by a bronze pump and fitted with non return valves to ensure correct direction of flow.

2.20 Discharge pipe

Connect the tundish outlet to the discharge pipe. Install the tundish in a vertical position within a maximum of 500 mm from the Temperature and Pressure Relief Valve drain connection. Ensure the expansion relief pipework discharges through the tundish. Tundish pipework must be 22 mm with a minimum vertical length of 300 mm below tundish. Maximum permitted length of 22 mm pipework is 9 m.

Each bend or elbow is equivalent to 0.8 m of pipework. All pipework must have continous fall and discharge in a safe, visible position. If any doubt, refer to Building Regulation G3. Discharge pipe must be dedicated to the cylinder and must not be used for any other purpose.

3. COMMISSIONING

3.1 Commissioning and filling

- Check all connections for tightness. Open hot water tap furthest away from the OSO water heater
- Open the mains stop cock to fill the water heater. When water flows evenly from tap, allow to run for a few minutes to flush through any dirt, swarf or residue, then close the tap. Open successive hot taps to purge any remaining air.
- Check all water connections for leaks and rectify if necessary.
- 4. Manually operate Expansion relief valve (8) (see illustration on previous page) to ensure free water flow through discharge pipe by turning knob counter-clockwise. To close continue to turn counter-clockwise until the valve shuts.
- 5. Manually operate Temperature and Pressure Relief Valve (6) (see illustration on previous page) to ensure free water flows through discharge pipe (Turn knob counter-clockwise).
- 6. Switch electrical power on.
- 7. Replace the cylinder lid this is important as the lid prevents heat loss from the cylinder and combination valve, conserving valuable energy. Do not place heavy objects on the lid.

3.2 Draining

Switch off the electrical power (important to avoid damage to element). Turn off the cold water supply valve. Open hot water tap. Open drain at base of cylinder using a 6 mm hex key. The unit will drain. Draining process may be speeded up by opening the temperature and pressure relief valve. An internal ø18 mm hose can be applied to bottom drain cock to lead the water to a gully, sink or similar.

3.3 System flushing

System flushing will not be necessary under normal circumstances as the line strainer will prevent ingress of foreign materials, however if flushing is required, run at least 50 litres of water from the cylinder at the highest possible flowrate. Close the taps and follow draining procedure above.

4. ELECTRICAL INSTALLATION

4.1 Immersion heaters

Power to immersion heaters should not be switched on until the unit is filled with water. All units are fitted with a 3 kW immersion heater. Immersion heaters must be wired through the factory fitted thermostat and thermal cut-out according to diagram on the reverse of the electrical box cover or see wiring diagram (right).

Alternative thermostats should not be used, regulations require immersion heaters on unvented cylinders to be connected with a thermal cut-out. Recommended torque is 0,2 kp (20Nm). End terminal fork width must not exceed 10 mm, see illustration below right.

4.2 Wiring of immersion heaters

Follow the wiring instructions connecting the live, neutral and earth as indicated. A dedicated permanent supply complying with current IEE regulations should be used, and each circuit must be protected by a suitable fuse and double pole isolating switch with a contact separation of at least 3 mm in both poles.

All cables should comply with BS6141 table 8 HOFR 85c

All internal wiring is factory mounted. Each immersion heater has a working thermostat adjustable between 40°C - 70°C.

A safety cut-out is also incorporated within the thermostat and will operate at $85^{\circ}\text{C} \pm 3^{\circ}\text{C}$. Should this happen, check reasons for thermal cut-out button being released and when satisified press the reset button. Important: Before resetting the safety cut-out or altering the thermostat setting, isolate electrical supply to the unit prior to removal of the lid. Ensure the lid to the electrical box is replaced correctly and the retaining screw is fitted.

4.3 Electrical connections

The OSO Super SC is provided with two channels in the base to lay electrical cables to the cylinder. The channels run diagonally from the front centre to the rear left and right and allow the installation to be neat with minimum visible cabling and must be permanently connected to a 20 amp DP Switch (BS3455) with minimum 3 mm separation and 2.5 mm Flexible Cable HR to 85c (HOFR to BS 6141 Table 8), installation shall comply with current IEE Regulations. Im-

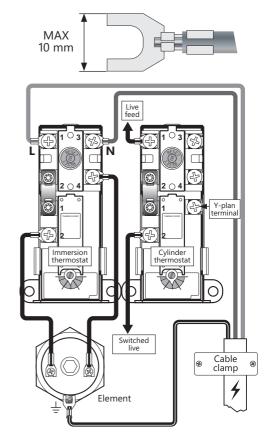
mersion Heater rating is 230V x 3kW.

4.4 System wiring

Motorised valve: To comply with regulations governing the installation of indirect unvented cylinders, a motorised valve must be fitted in the primary pipework.

The wiring plan shown is based on the use of a 10-way Junction Box (Honeywell Part no. 42002116-001) terminal 10 is switched live and, if needed, terminal 9 is pump live.

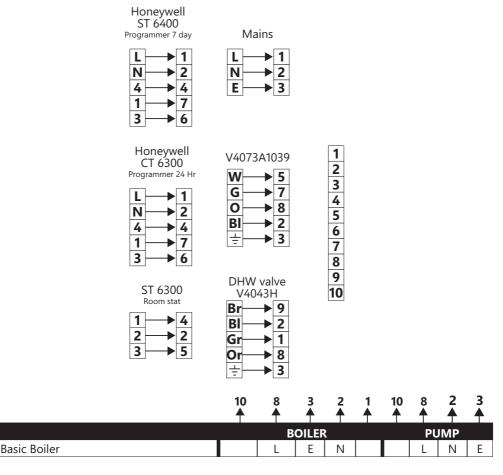
Your OSO unit has been supplied with a two port motorised valve, which will act as a positive energy cut-out should the safety cut-out operate. The motorised valve will also control the temperature of the domestic stored water via the cylinder thermostat, which is lo-



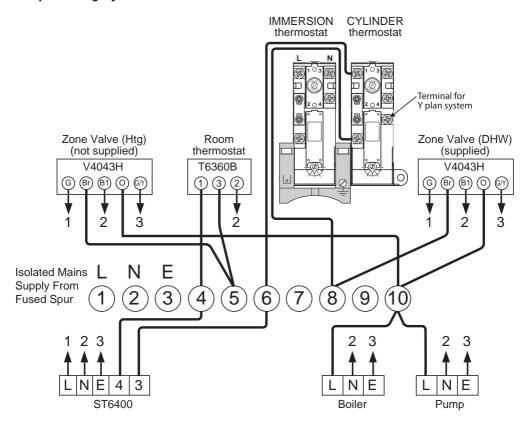
cated in the electrical box. The unit should be installed on an "S" or "Y" plan system. Please follow the wiring instructions carefully. The working thermostat which controls the temperature of the domestic hot water is adjustable between 40°C - 70°C. A safety cut out is also incorporated within the thermostat and will operate at 85°C \pm 3°C. Should the safety cut out be brought into operation, the motorised valve will operate and close down the primary flow to the cylinder. To reset the safety cut-out and the motorised valve the reset button must be pressed in.

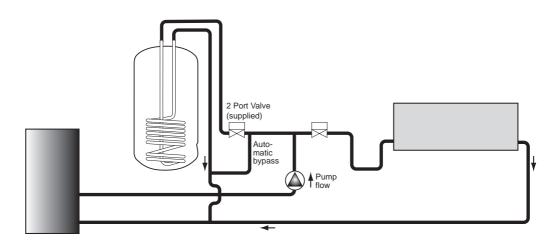
If using a 6-wire 28mm or 1" BSP V4043H on either circuit the white wire is not needed and must be made electrically safe.

4.4.1 S-plan motorized valve diagram

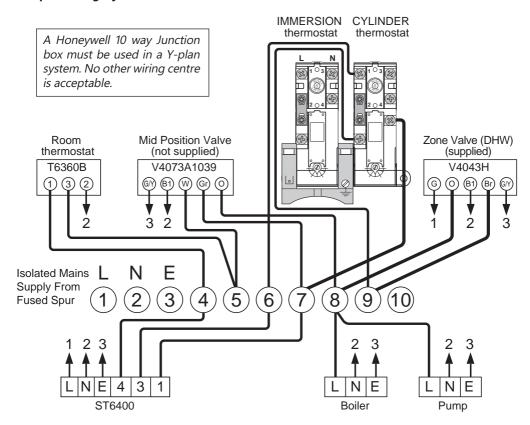


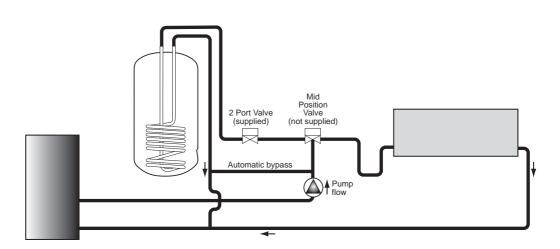
4.5 S plan wiring layout





4.6 Y plan wiring layout





5. SAFETY AND SERVICING

Maintenance must be carried out by a competent person.

5.1 Safety cut out

- 1. The safety cut-out operates if:
 - a. Wiring is incorrect.
 - b. The immersion heater thermostat or cylinder thermostat fails.
- Remember before resetting the safety cutout or altering the thermostat setting, isolate electrical supply to the unit prior to removal of the electrical box lid
- Reduce thermostat setting an press the reset button. After adjustments are completed, ensure the lid to the electrical box is replaced correctly and the retaining screw is fitted
- 4. If still out of operation, contact installer.

5.2 Intermittent or slow discharge from tundish

- Turn off the electrical supply to the immersion heaters.
- 2. Turn off cold water supply valve.
- 3. Open a hot tap.
- Turn the knob on the Temperature and Pressure Relief Valve (C) to the left and hold in this position for 30 seconds
- 5. Check pre-charge on vessel and adjust pressure if necessary.
- 6. Open cold water supply valve.
- When water flows through open tap, close tap. Turn on electrical supply to the immersion heaters.

5.3 Continous very hot water discharge from tundish

This indicates a malfunction of a thermal cut-out, operating thermostat or the combined temperature and pressure relief valve. Turn off the electrical supply to the immersion heater and also isolate an indirect unit from the boiler. Contact the installer or competent engineer.

5.4 Expansion vessel maintenance

The expansion vessels do not require annual maintenance and should not be tampered with unless an intermittent or slow discharge from the tundish occurs when water is being heated. In this situation, maintenance must be carried out by a competent person and the precharge pressure must be restored to the original value. An annual visual inspection is recommended. Important: to check the precharge the expansion vessel must

be completely empty of water. if the pressure is different from the value shown on the label it must be restored to the original value.

Do not remove expansion vessel without depressurising the cylinder and draining 10 litres of water from the drain valve at the base of the cylinder

5.5 Guarantee

Cylinder should be serviced annually (as below) and logbook should be updated in order to validate guarantee. Logbook and service records act as guarantee document. For terms of guarantee see Service logbook at rear of manual.

5.6 Service procedure

The following maintenance work has to be carried out annually by a competent person:

- Inspection of pressure/temperature relief valve and expansion relief valve.
- Manually operate each valve by twisting the operating cap, and check if water flows unobstructed via the tundish to the discharge point.
- 3. Ensure that both valves re-seat satisfactorily.
- 4. Visual inspection of expansion vessel.
- Turn off mains water supply and open nearest hot water tap to depressurise the DHW system.
- 6. Visually check the expansion vessel.
- If the pressure is below 3.0 bar, top up with suitable air pressure pump to pressure on vessel label.
- Complete the service section of Benchmark/ Cylinder Commissioning Checklist included in the inside back pages of these instructions.
- 9. Remove, clean and replace line strainer.
- 10. 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.
- Visual inspection of all valves, external fittings, immersion heaters and electrical connections.

5.7 Combination valve

The combination valve can be separated by unscrewing once whole valve is removed from Cylinder. The entire valve can be removed by unscrewing from the top connection. When refitting, the valve does not tighten, the seal is created by a double O-ring. To create the seal, the valve should be wound down until it will not go any further, then wound back up less than one full turn to point in the desired direction.

5.8 Drain cock removal/replacement

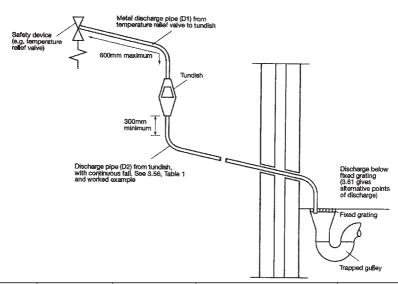
To remove drain cock, turn off power supply and drain cylinder fully. When cylinder has drained, unscrew rear locking ring behind drain cock (turn clockwise. Pull drain cock off. Reverse procedure to refit drain cock.

5.9 Alternative discharge

Discharge pipes must be metal, change to discharge pipes should be suitably temperature rated as defined by G3 building Regulations. The pipe should have a continuous fall and should terminate in a safe and visible place. Downward discharges at low

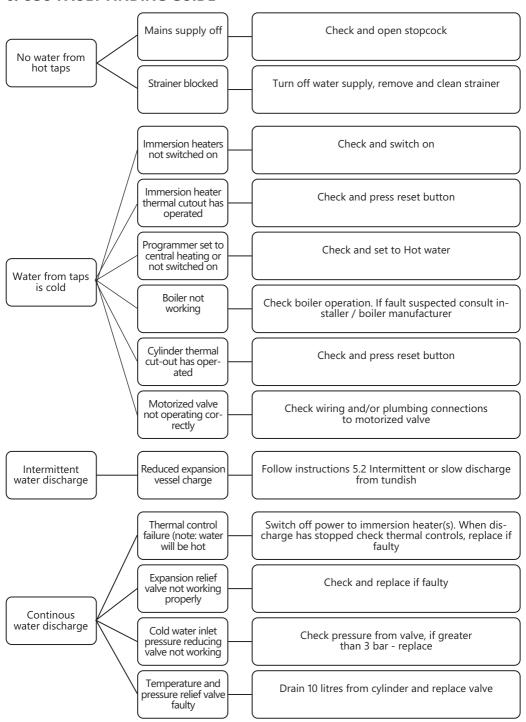
level, i.e. up to 100 mm above external surfaces such as car parks, hard standings, grassed areas etc. are acceptable providing that where children may play or otherwise come into contact with discharges, a wire cage or similar guard is positioned to prevent contact, whilst maintaining visibility. Discharge at high level, i.e. into a metal hopper and metal down pipe with the end of the discharge pipe clearly visible (tundish visible or not) or onto a roof capable of withstanding high temperature discharges of water and 3 m from any plastics guttering system that would collect such discharges (tundish visible). Where a single pipe serves a number of discharges, such as in blocks of flats, the number served should be limited to not more than 6 systems so that any installation discharging can be traced reasonably easily. The single common discharge pipe should be at least one pipe size larger than the largest individual discharge pipe to be connected.

For further information contact your Building Control Office.



Valve Outlet size	Minimum size of discharge pipe D1	Minimum size of discharge pipe D2 from tundish	Maximum resistance allowed expressed as a length of straight pipe (i.e. no elbown or bends)	Resistance created by each elbow or bend
		22 mm	up to 9 m	0.8 m
G 1/2	15 mm	28 mm	up to 18 m	1.0 m
		35 mm	up to 27 m	1.4 m
		28 mm	up to 9 m	1.0 m
G 3/4	22 mm	35 mm	up to 18 m	1.4 m
		42 mm	up to 27 m	1.7 m
		35 mm	up to 9 m	1.4 m
G1	28 mm	42 mm	up to 18 m	1.7 m
		54 mm	up to 27 m	2.3 m

6. OSO FAULT FINDING GUIDE



7. TECHNICAL AND PERFORMANCE SPECIFICATIONS

Technical data - SC

Technical data - SC							
Description	Unit	SC 120	SC 150	SC 180	SC 210	SC 250	SC 300
Part number	No.	10802951	10802952	10802953	10802954	10802955	10802956
EAN number	- 110.	7070644005955		7070644005979	7070644005986	7070644005993	7070644006006
Actual capacity of the water tank at 20°C		109	142	163	190	239	277
Outer diameter of the tank	mm	580	580	580	580	580	580
Height of the appliance	mm	850	950	1160	1260	1470	1710
Gross weight of the appliance	kg	42	47	52	57	64	70
Net weight of appliance once filled with sanitary water	kg	151	189	215	247	303	347
Material of tank and integrated heat exchanger	- 10	1.4521	1.4521	1.4521	1.4521	1.4521	1.4521
Material of element	-					incoloy 825	
Thermal insulation material	-	PUR	PUR	PUR	PUR	PUR	PUR
Thermal insulation of the tank, average thickness	mm	35	35	35	35	35	35
IP classification	-	24	24	24	24	24	24
Standby heat losses / 24 hour	kWh/24h	1.06	1.25	1.46	1.61	1.92	2.02
Standby heat losses	Watts	44	52	61	67	80	84
Hot water capacity(1) >40°C	L.	162	226	257	312	397	475
Heating time (coil)	min.	28	29	34	39	48	54
Reheat time (1) (70%) (coil)	min.	19	21	24	27	34	38
Primary Heating Power (1) (coil)	kW	13	16	16	17	17	17
Primary flowrate for Reheat time & Primary heating power	l/h	900	900	900	900	900	900
Primary Heat exchanger pressure drop (1)	mBar	44	44	47	47	47	47
Heat up 1 element	min.	98	136	154	186	235	279
Reheat time (1) (70%) 1 element	min.	69	35	108	130	165	195
ErP class	-	В	В	С	С	С	С
Pressure information							
Maximum design pressure of cylinder (rated pressure)	MPa/Bar		1/10	1/10	1/10	1/10	1/10
Maximum design pressure of heating coil	MPa/Bar		1/10	1/10	1/10	1/10	1/10
Operating pressure of cylinder	MPa/Bar	3	3	3	3	3	3
Operating pressure of heating coil	MPa/Bar	2	2	2	2	2	2
Max. operating temperature of cylinder	°C _	70	70	70	70	70	70
Max. operating temperature of heating coil	°C	99	99	99	99	99	99
Expansion solution	-			GWS 3.5bar			3 bar
Expansion vessel capacity	<u>L.</u>	5.3	2 x 5.3	2 x 5.3	2 x 5.3	2 x 5.3	24
Heat Exchanger information	. 2	0.5			0.0	0.0	
Primary heat exchanger surface area	m ²	0.5	0.8	0.8	0.8	0.8	0.8
Øint. et Ø ext.						ø20.4 / ø22	
Ø int. et Ø ext. Hydraulic connections	mm/mm	N/A	N/A	N/A	N/A	N/A	N/A
Secondary return	mm	N/A	N/A	N/A	N/A	N/A	N/A
	mm Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Primary heat exchanger flow Primary heat exchanger return	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Cold water	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Hot water	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Immersion heater	Inch	5/4"	5/4"	5/4"	5/4"	5/4"	5/4"
Safety valve (factory fitted)	Inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
T&P valve (factory fitted)	Inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Pressure reducing valve	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Electrical characteristics	IIICII					J/ T	
Supply voltage and frequency	V/Hz	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
Current	A	13	13	13	13	13	130
Power of the electrical resistance	Ŵ	3000	3000	3000	3000	3000	3000
Electrical installation	-	IEEE regs		IEEE regs	IEEE regs	IEEE regs	IEEE regs
Thermostat type - cylinder	-	Surface	Surface	Surface	Surface	Surface	Surface
7.	1				3.0kW @240V	3.0kW @240V	3.0kW @240V
Immersion capacity	[AM	3.0K** @L 10*	3.0KTT @ L 10 T	J.UKVV @240V			0.01111.0000
Immersion Heater - Phase	kW	2.8kW @230V	2.8kW @230V	2.8kW @230V			
Immersion heater - Voltage / Hz	Phase	2.8kW @230V single	2.8kW @230V single	2.8kW @230V single	single	single	single
Ummoroion thormostat town range	Phase Volt	2.8kW @230V single 230 / 50	2.8kW @230V single 230 / 50	2.8kW @230V single 230 / 50	single 230 / 50	single 230 / 50	single 230 / 50
Immersion thermostat - temp range	Phase Volt °C	2.8kW @230V single 230 / 50 40-70	2.8kW @230V single 230 / 50 40-70	2.8kW @230V single 230 / 50 40-70	single 230 / 50 40-70	single 230 / 50 40-70	single 230 / 50 40-70
Immersion thermostat - set temp	Phase Volt °C °C	2.8kW @230V single 230 / 50 40-70 0	2.8kW @230V single 230 / 50 40-70 60	2.8kW @230V single 230 / 50 40-70 60	single 230 / 50 40-70 60	single 230 / 50 40-70 60	single 230 / 50 40-70 60
Immersion thermostat - set temp Indirect thermostat - temp range	Phase Volt °C °C	2.8kW @230V single 230 / 50 40-70 0 40-70	2.8kW @230V single 230 / 50 40-70 60 40-70	2.8kW @230V single 230 / 50 40-70 60 40-70	single 230 / 50 40-70 60 40-70	single 230 / 50 40-70 60 40-70	single 230 / 50 40-70 60 40-70
Immersion thermostat - set temp Indirect thermostat - temp range Indirect thermostat - set temp	Phase Volt °C °C	2.8kW @230V single 230 / 50 40-70 0	2.8kW @230V single 230 / 50 40-70 60	2.8kW @230V single 230 / 50 40-70 60	single 230 / 50 40-70 60	single 230 / 50 40-70 60	single 230 / 50 40-70 60
Immersion thermostat - set femp Indirect thermostat - temp range Indirect thermostat - set temp Safety	Phase Volt °C °C °C °C	2.8kW @230V single 230 / 50 40-70 0 40-70 60	2.8kW @230V single 230 / 50 40-70 60 40-70 60	2.8kW @230V single 230 / 50 40-70 60 40-70 60	single 230 / 50 40-70 60 40-70 60	single 230 / 50 40-70 60 40-70 60	single 230 / 50 40-70 60 40-70 60
Immersion thermostat - set temp Indirect thermostat - temp range Indirect thermostat - set temp Safety Safety valve opening pressure +/- 5%	Phase Volt °C °C °C °C	2.8kW @230V single 230 / 50 40-70 0 40-70 60	2.8kW @230V single 230 / 50 40-70 60 40-70 60	2.8kW @230V single 230 / 50 40-70 60 40-70 60	single 230 / 50 40-70 60 40-70 60	single 230 / 50 40-70 60 40-70 60	single 230/50 40-70 60 40-70 60
Immersion thermostat - set temp Indirect thermostat - temp range Indirect thermostat - set temp Safety Safety valve opening pressure +/- 5% T&P valve opening pressure/Temp.	Phase Volt °C °C °C °C Bar Bar/°C	2.8kw @230V single 230 / 50 40-70 0 40-70 60	2.8kw @230V single 230 / 50 40-70 60 40-70 60	2.8kW @230V single 230 / 50 40-70 60 40-70 60	single 230 / 50 40-70 60 40-70 60 8 10/90	single 230 / 50 40-70 60 40-70 60 8 10/90	single 230 / 50 40-70 60 40-70 60 8 10/90
Immersion thermostat - set femp Indirect thermostat - temp range Indirect thermostat - set temp Safety Safety valve opening pressure +/-5% T&P valve opening pressure/Temp. Safety thermostat cutout - cylinder	Phase Volt °C °C °C °C °C °C	2.8kW @230V single 230 / 50 40-70 0 40-70 60 8 10/90 85	2.8kW @230V single 230 / 50 40-70 60 40-70 60 8 10/90 85	2.8kW @230V single 230 / 50 40-70 60 40-70 60 8 10/90 85	single 230 / 50 40-70 60 40-70 60 8 10/90 85	single 230 / 50 40-70 60 40-70 60 8 10/90 85	single 230 / 50 40-70 60 40-70 60 8 10/90 85
Immersion thermostat - set femp Indirect thermostat - temp range Indirect thermostat - set temp Safety Safety valve opening pressure +/- 5% T&P valve opening pressure/Temp. Safety thermostat cutout - cylinder Safety thermostat cutout - immersion	Phase Volt °C °C °C °C Bar Bar/°C	2.8kw @230V single 230 / 50 40-70 0 40-70 60	2.8kw @230V single 230 / 50 40-70 60 40-70 60	2.8kW @230V single 230 / 50 40-70 60 40-70 60	single 230 / 50 40-70 60 40-70 60 8 10/90	single 230 / 50 40-70 60 40-70 60 8 10/90	single 230 / 50 40-70 60 40-70 60 8 10/90
Immersion thermostat - set temp Indirect thermostat - temp range Indirect thermostat - set temp Safety Safety valve opening pressure +/-5% T&P valve opening pressure/Temp. Safety thermostat cutout - cylinder Safety thermostat cutout - immersion Packaging	Phase Volt °C °C °C °C °C °C °C	2.8kW @230V single 230 / 50 40-70 0 40-70 60 8 10/90 85 85	2.8kW @230V single 230 / 50 40 - 70 60 40 - 70 60 8 10 / 90 85 85	2.8kW @230V single 230 / 50 40-70 60 40-70 60 8 10/90 85 85	single 230 / 50 40-70 60 40-70 60 8 10/90 85 85	single 230 / 50 40-70 60 40-70 60 8 10/90 85 85	single 230 / 50 40-70 60 40-70 60 8 10/90 85 85
Immersion thermostat - set temp Indirect thermostat - temp range Indirect thermostat - set temp Safety Safety valve opening pressure +/- 5% T&P valve opening pressure/Temp. Safety thermostat cutout - cylinder Safety thermostat cutout - immersion Packaging Width of box	Phase Volt °C °C °C °C Bar Bar/°C °C °C °C	2.8kW @230V single 230 / 50 40-70 0 40-70 60 8 10/90 85 85	2.8kW @230V single 230 / 50 40-70 60 40-70 60 8 10/90 85 85	2.8kW @230V single 230 / 50 40-70 60 40-70 60 8 10/90 85 85	single 230 / 50 40-70 60 40-70 60 8 10/90 85 85	single 230 / 50 40-70 60 40-70 60 8 10/90 85 85	single 230 / 50 40-70 60 40-70 60 8 10/90 85 85
Immersion thermostat - set femp Indirect thermostat - temp range Indirect thermostat - set temp Safety Safety valve opening pressure +/- 5% T&P valve opening pressure/Temp. Safety thermostat cutout - cylinder Safety thermostat cutout - immersion Packaging Width of box Depth of box	Phase Volt °C °C °C °C Bar Bar/°C °C °C mm mm	28kW @230V single 230 / 50 40-70 0 40-70 60 8 10/90 85 85	2.8kW @230V single 230 / 50 40-70 60 40-70 60 8 10/90 85 85	2.8kW @230V single 230 / 50 40-70 60 40-70 60 8 10/90 85 85 595	single 230 / 50 40-70 60 40-70 60 8 10/90 85 85 595 595	single 230 / 50 40-70 60 40-70 60 8 10/90 85 85 595	single 230 / 50 40-70 60 40-70 60 8 10/90 85 85 595
Immersion thermostat - set temp Indirect thermostat - temp range Indirect thermostat - set temp Safety Safety valve opening pressure +/- 5% T&P valve opening pressure/Temp. Safety thermostat cutout - cylinder Safety thermostat cutout - immersion Packaging Width of box	Phase Volt °C °C °C °C Bar Bar/°C °C °C °C	2.8kW @230V single 230 / 50 40-70 0 40-70 60 8 10/90 85 85	2.8kW @230V single 230 / 50 40-70 60 40-70 60 8 10/90 85 85	2.8kW @230V single 230 / 50 40-70 60 40-70 60 8 10/90 85 85	single 230 / 50 40-70 60 40-70 60 8 10/90 85 85	single 230 / 50 40-70 60 40-70 60 8 10/90 85 85	single 230 / 50 40-70 60 40-70 60 8 10/90 85 85

8. NOTES		

IT IS THE RESPONSIBILITY OF THE INSTALLER TO COMPLETE THIS LOG BOOK AND PASS IT ON TO THE CUSTOMER. FAILURE TO DO SO MAY INVALIDATE THE CYLINDER GUARANTEE



The code of practice for the installation, commissioning & servicing of mains pressure hot water storage

Installation, Commissioning and Service Record Log Book

NAME ADDRESS

IMPORTANT

TEL No.

- 1. Please, keep the Log Book in a safe place for future reference.
- 2. This Log Book is to be completed in full by the competent person(s) who commissioned the equipment and then handed to the customer. When this is done, the Log Book is a commissioning certificate that can be accepted as evidence of compliance with the appropriate Building Regulations.
- Failure to install and commission this appliance to the manufacturer's instructions may invalidate the guarantee.

The above does not affect your statutory rights.



© HEATING AND HOTWATER INFORMATION COUNCIL

HWA charter members agree to:

- To supply fit for purpose products clearly and honestly described
- To supply products that meet, or exceed appropriate standards and building and water regulations
- · To provide pre and post sales technical support
- To provide clear and concise warranty details to customers

For full details on the HWA charter please visit http://www.hotwater.org.uk/

INSTALLER & COMMISSIONING ENGINEER DETAILS

INSTALLER DETAILS

COMPANY NAME	DATE	
ADDRESS		
INSTALLER NAME	TEL No.	
REGISTRATION DETAILS		
REGISTERED OPERATIVE ID CARD No. (IF APPLICABLE)		

COMMISSIONING ENGINEER (IF DIFFERENT)

NAME	DATE	
ADDRESS		
TEL No. REGISTRATION DETAILS		
REGISTERED OPERATIVE ID CARD No. (IF APPLICABLE)		

APPLIANCE & TIME CONTROL DETAILS

MANUFACTURER OSC	HOTWATER (UK)	MODEL
CAPACITY	litres	SERIAL No.
TYPE	UNVENTED	
TIME CONTROL	PROGRAMMER or	TIME SWITCH

COMMISSIONING PROCEDURE INFORMATION

BOILER PRIMARY SETTINGS (INDIRECT	HEATING ONLY) ALL BOILERS
IS THE PRIMARY A SEALED OR OPEN VENT	TED SYSTEM? SEALED ☐ OPEN ☐
WHAT IS THE BOILER FLOW TEMPERATUR	E?°C
ALL MAINS PRESSURISED SYSTEMS	
WHAT IS INCOMING STATIC COLD WATER F PRESSURE REDUCING VALVE?	PRESSURE AT THE INLET TO THE bar
HAS STRAINER (IF FITTED) BEEN CLEANED	D OF INSTALLATION DEBRIS? YES \square NO \square
HAS A WATER SCALE REDUCER BEEN FITT	TED? YES 🗌 NO 🗌
WHAT TYPE OF SCALE REDUCER HAS BEE	EN FITTED?
UNVENTED SYSTEMS	
ARE COMBINED TEMPERATURE AND PRES AND EXPANSION VALVE FITTED AND DISCH	
IS PRIMARY ENERGY SOURCE CUT OUT FIT (NORMALLY 2 PORT VALVE)?	TTED YES \(\square\) NO \(\square\)
WHAT IS THE PRESSURE REDUCING VALVE	E SETTING (IF FITTED)? bar
WHERE IS OPERATING PRESSURE REDUCI	ING VALVE SITUATED? YES ☐ NO ☐
HAS THE EXPANSION VESSEL OR INTERNA	AL AIR SPACE BEEN CHECKED? YES 🗌 NO 🗌
WHAT IS THE HOT WATER TEMPERATURE	AT THE NEAREST OUTLET?
ALL PRODUCTS	
DOES THE HOT WATER SYSTEM COMPLY WITH APPROPRIATE BUILDING REGULATION	
HAS THE SYSTEM BEEN INSTALLED AND C IN ACCORDANCE WITH THE MANUFACTUR	_
HAVE YOU DEMONSTRATED THE OPERATION SYSTEM CONTROLS TO THE CUSTOMER?	ON OF THE
HAVE YOU LEFT ALL THE MANUFACTURER LITERATURE WITH THE CUSTOMER?	
COMPETENT PERSON'S SIGNATURE	CUSTOMER'S SIGNATURE
	(To confirm demonstrations of equipment and

receipt of appliance instructions)

GUARANTEE - OSO UNVENTED HOTWATER CYLINDER

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 25 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

Electric Conductivity (EC) @25°C

-Saturation Index (LSI) @80°C - pH level

< 250 mg / L < 750 uS / cm

> - 1,0 / < 0,8 > 6,0 / < 9,5

- The immersion heater has not been exposed to hardness levels exceeding 10°dH (180 ppm CaCO3). A water softener is recommended in such cases.
- Any disinfection has been carried out without affecting the Product in any way whatsoever. The Product shall be isolated from any system chlorination.
 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.

8.1 Customer service

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

- A) The installer who supplied the product.
- B) OSO Hotwater UK Limited:

Tel.: (0191) 482 0800 Fax: (0191) 491 3655 Email: technical.uk@oso-hotwater.co.uk

9. REMOVING THE PRODUCT

9.1 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.

9.2 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.

SERVICE INTERVAL RECORD

It is recommended that your hot water system is serviced regularly and that your service engineer completes the appropriate Service Interval Record below.

SERVICE PROVIDER

Before completing the appropriate Service Interval Record below, please ensure you have carried out the service as described in the manufacturer's instructions and in compliance with all relevant codes of practice.

SERVICE 1	DATE:	SERVICE 2 DATE:
ENGINEER NAME		ENGINEER NAME
COMPANY NAME		COMPANY NAME
TEL No.		TEL No.
COMMENTS		COMMENTS
SIGNATURE		SIGNATURE
SERVICE 3	DATE:	SERVICE 4 DATE:
ENGINEER NAME		ENGINEER NAME
COMPANY NAME		COMPANY NAME
TEL No.		TEL No.
COMMENTS		COMMENTS
SIGNATURE		SIGNATURE
SERVICE 5	DATE:	SERVICE 6 DATE:
ENGINEER NAME		ENGINEER NAME
COMPANY NAME		COMPANY NAME
TEL No.		TEL No.
COMMENTS		COMMENTS
SIGNATURE		SIGNATURE
SERVICE 7	DATE:	SERVICE 8 DATE:
ENGINEER NAME		ENGINEER NAME
COMPANY NAME		COMPANY NAME
TEL No.		TEL No.
COMMENTS		COMMENTS
SIGNATURE		SIGNATURE
SERVICE 9	DATE:	SERVICE 10 DATE:
ENGINEER NAME		ENGINEER NAME
COMPANY NAME		COMPANY NAME
TEL No.		TEL No.
COMMENTS		COMMENTS

SIGNATURE

SIGNATURE



OSO Hotwater (UK) Limited

Endeavor House, Seventh Avenue,
Team Valley Trading Estate,
Gateshead,
Tyne & Wear,
NE11 0EF
Phone: (0191) 482 0800 Fax: (0191) 491 3655
E-mail technical.uk@oso-hotwater.co.uk
E-mail spareparts.uk@oso-hotwater.co.uk
E-mail sales.uk@oso-hotwater.co.uk

Manufactured by OSO Hotwater AS Industriveien 1 3300 Hokksund - Norway Tel.: +47 32 25 00 00 oso@oso.no www.osohotwater.com

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