

# Super Coil - S<sub>2</sub>C

150-180-210-250-300 l.

UK



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



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# OSO

HOT WATER

# CONTENTS

## 1. General information

1.1 Product identification.....	4
1.2 UKCA Marking.....	4
1.3 Erp Data.....	4
1.4 General information.....	4
1.5 Handling.....	5
1.6 Clearances.....	5

## 2. Installation.

2.1 Health and safety regulations.....	6
2.2 Siting the Super S <sub>2</sub> C.....	6
2.3 Component check list.....	6
2.4 Supply requirements.....	6
2.5 Expansion vessels.....	6
2.6 Wall mounting.....	6
2.7 Preliminary wiring.....	7
2.8 Pipework.....	7
2.9 Pipe connections.....	8
2.10 Vessel connections.....	8
2.11 Remove the template.....	8
2.12 Combination valve.....	8
2.13 Cold mains supply.....	8
2.14 Hot water outlet.....	8
2.15 Balanced cold water supply.....	8
2.16 Flexible Y. Hose.....	8
2.17 Tundish.....	8
2.18 Secondary return.....	8
2.19 Discharge pipe.....	9
2.20 Shut-off valve.....	9
2.21 Removing junction box & valve cover..	9

## 3. Commissioning

3.1 Commissioning and filling.....	9
3.2 Draining.....	9
3.3 System flushing.....	9

## 4 Electrical installation

4.1 Immersion heaters.....	10
4.2 Wiring of immersion heaters.....	10
4.3 Electrical connections.....	10
4.4 System wiring.....	10
4.5 S plan wiring layout.....	12
4.6 Y plan wiring layout.....	13

## 5. Safety and servicing

5.1 Safety cut out.....	14
5.2 Intermittent discharge from tundish.....	14
5.3 Continuous hot discharge from tundish.....	14
5.4 Expansion vessel maintenance.....	14
5.5 Guarantee.....	14
5.6 Service procedure.....	14
5.7 Combination valve.....	15
5.8 Drain cock.....	15
5.9 Alternative discharge.....	15

## 6. OSO fault finding guide

Fault finding guide.....	16
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## 7. Technical specification

7.1 Technical and performance specifications.....	17
7.2 Spare parts.....	18
Commissioning and service logbook.....	19
Service interval record.....	23

## 8. Guarantee conditions

Guarantee.....	22
8.1 Customer service.....	22

## 9. Removing the product

9.1 Removal.....	22
9.2 Returns scheme.....	22

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	

**This OSO product is manufactured in accordance with building and water regulations.**

## 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 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.

## Safety instructions for users

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

⚠ CAUTION	
⊘	The product must 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.

## Safety instructions for installers

⚠ WARNING	
⊘	The overflow from the safety valve must NOT be sealed or plugged.
❗	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	
❗	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.
❗	The product must have a clearance for servicing of 400 mm in front of the immersion cover / 150 mm above cylinder.
⊘	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](http://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

OSO Hotwater AS is certified according to

- Quality ISO 9001
- Environment ISO 14001
- Working Environment ISO 45001

## 1.2 UKCA marking



The UKCA mark shows that the product complies with the relevant Directives. See Declaration of Conformity at [www.osohotwater.co.uk](http://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

## 1.3 ErP data - Technical Data Sheet

TDS - Technical Data Sheet - Indirect water heater - ErP data							
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							
Trade mark	M T. item no.	Model/identifier			ErP Rating	Heat loss W	Storage volume L
OSO Hotwater AS	11011671	S <sub>2</sub> C 150 - 2.8kW @ 230V/3.0kW @ 240V + coil 0.8m <sup>2</sup>			B	49	147
OSO Hotwater AS	11011672	S <sub>2</sub> C 180 - 2.8kW @ 230V/3.0kW @ 240V + coil 1.0m <sup>2</sup>			B	55	170
OSO Hotwater AS	11011673	S <sub>2</sub> C 210 - 2.8kW @ 230V/3.0kW @ 240V + coil 1.0m <sup>2</sup>			B	58	197
OSO Hotwater AS	11011674	S <sub>2</sub> C 250 - 2.8kW @ 230V/3.0kW @ 240V + coil 1.0m <sup>2</sup>			C	69	249
OSO Hotwater AS	11011676	S <sub>2</sub> C 300 - 2.8kW @ 230V/3.0kW @ 240V + coil 1.1m <sup>2</sup>			C	74	274

The products are classified as IP21.

## 1.4 General information

Thank-you for purchasing the OSO Super S<sub>2</sub>C indirect hot water cylinder. Designed to be simple and neat to install, the Super S<sub>2</sub>C 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 S<sub>2</sub>C 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.

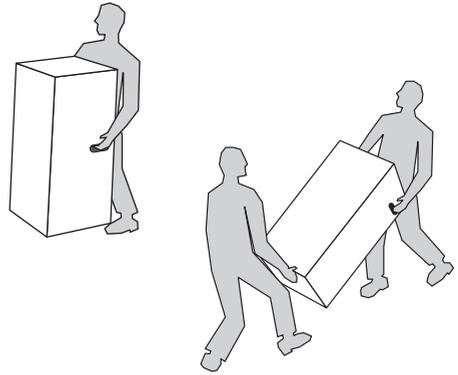
This OSO cylinder must be installed by a competent person and be installed in compliance with the OSO Installation and Maintenance Instructions, all current legislation, codes of practice and regulations governing the installation of unvented hot water cylinders in force at the date of installation.

### 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.

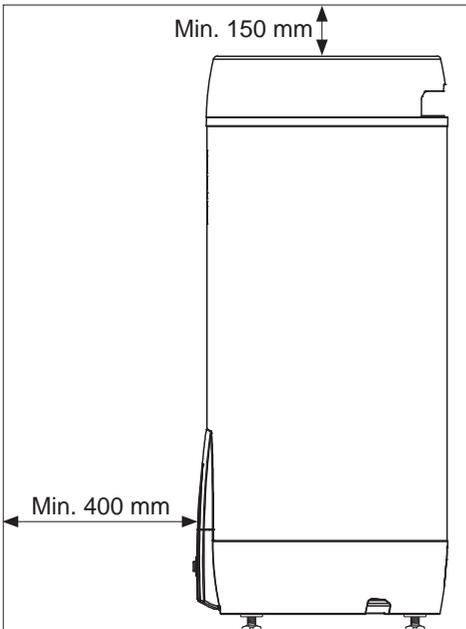


#### ⚠ CAUTION

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

### 1.6 Clearances

The product must have clearances as shown in illustration. instructions in table 1.6.1 must also be followed.



#### 1.6.1 Installation instructions

#### ⚠ CAUTION

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

## 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 S<sub>2</sub>C should be transported and stored in a vertical position.

### 2.2 Siting the Super S<sub>2</sub>C

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 S<sub>2</sub>C, 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:

- Tundish (incl. screws)
- Plastic cable clamp

*Components factory fitted:*

- Expansion vessels 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 - 3 kW

- Thermostats / 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

Twin expansion vessels are factory fitted (S<sub>2</sub>C 300 is supplied with an external expansion vessel) and connected to the multifunction valve by the supplied flexible hose. The vessels 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 S<sub>2</sub>C from 150-180 l., see below.



## 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 S<sub>2</sub>C 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 S<sub>2</sub>C 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.

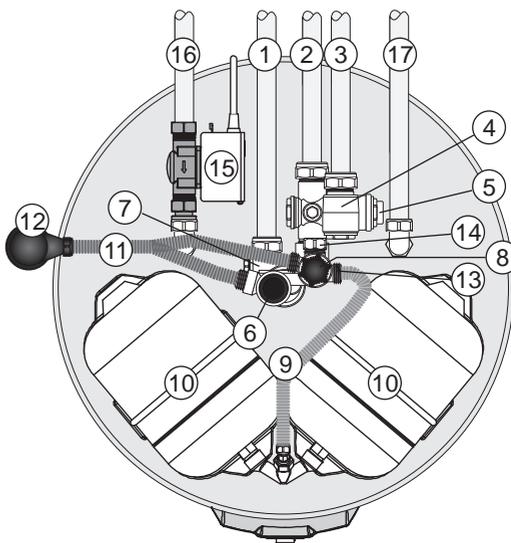
Wind the cylinder feet out to protrude 10 mm to match template instructions. Please note that if the cylinder is raised on its feet or on a plinth higher than floor level, the height of the template above the floor will need to be raised accordingly.

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 'With rear pipes' in the table. If the pipes approach the template points from above/side, use the lengths marked 'Without rear pipes'.

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

*Ensure all pipe tails are horizontal, perpendicular to the wall and parallel.*

Tail lengths from wall	Without rear pipes (mm.)	With rear pipes (mm.)
Cold feed in (3)	225	265
Hot water out (1)	289	329
Balanced cold water out (2)	211	251
Primary flow (16)	133	173
Primary return (17)	251	291



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
15	Honeywell shut-off valve	-

## 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 that the expansion vessels and hose connections are tight.

## 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 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.

## 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.

### ⚠ 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.

## 2.15 Hot water outlet

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

## 2.16 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).

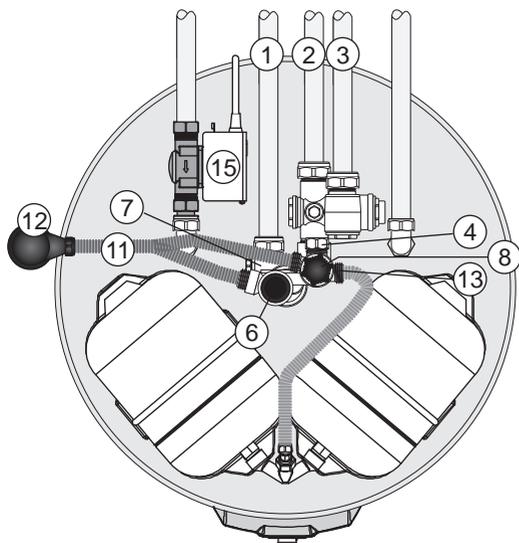
## 2.17 Tundish

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.

## 2.18 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.



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

### 2.19 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 continuous 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.

### 2.20 Shut-off valve

A Honeywell shut-off valve (15) is factory fitted on the coil inlet connection to control the flow of water to the coil. The valve will normally be closed.

### 2.21 Removing junction box & drain valve covers

Grab the bottom of the drain valve cover (D) and give a sharp tug outwards and upwards. This will reveal the fastening screw for the junction box cover (J). See images below.



## 3. COMMISSIONING

### 3.1 Commissioning and filling

1. Check all connections for tightness. Open hot water tap furthest away from the OSO water heater.
2. 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.
3. 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  $\varnothing 18$  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 2.8kW@230V / 3.0kW@240V 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 minimum 20 Amp miniature circuit breaker 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 50°C - 75°C.

A safety cut-out is also incorporated within the thermostat and will operate at 85°C ± 3°C. Should this happen, check reasons for thermal cut-out button being released and when satisfied 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 junction box cover 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

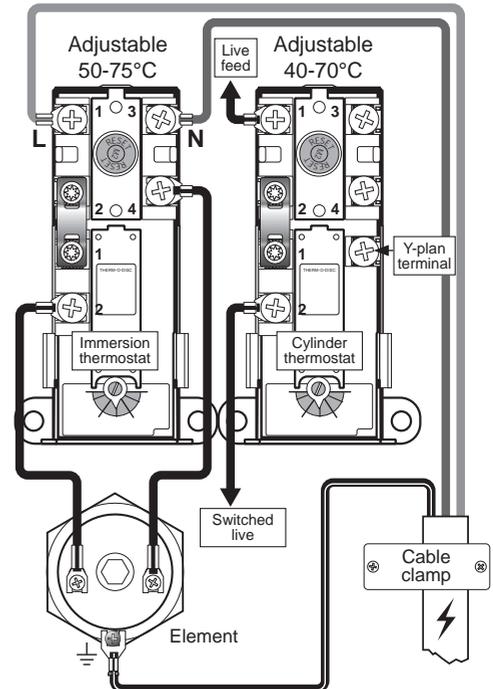
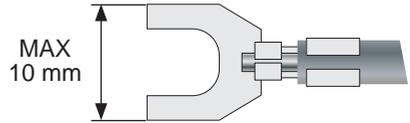
to a 20 amp DP Switch (BS3455) with minimum 3 mm separation and 2.5 mm Flexible Cable HR to 85c (HOFR to BS 6141 Table 8), installation shall comply with current IEE Regulations. Immersion Heater rating is 2.8kW@230V / 3.0kW@240V.

### 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

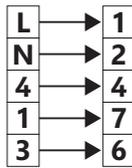


motorised valve, which will act as a positive energy cut-out should the safety cut-out operate. The motorised valve will also control the temperature of the domestic stored water via the cylinder thermostat, which is located in the junction box. The unit should be installed on an "S" or "Y" plan system. Please follow the wiring instructions carefully. The working thermostat which controls the temperature of the domestic hot water is adjustable

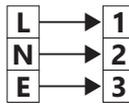
between 40°C - 70°C. A safety cut out is also incorporated within the thermostat and will operate at 85°C ± 3°C. Should the safety cut out be brought into operation, the motorised valve will operate and close down the primary flow to the cylinder. To reset the safety cut-out and the motorised valve the 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

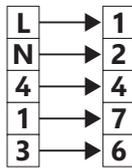
Honeywell  
ST 6400  
Programmer 7 day



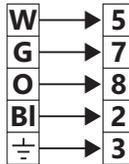
Mains



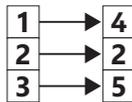
Honeywell  
CT 6300  
Programmer 24 Hr



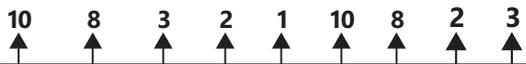
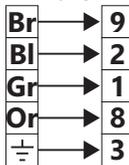
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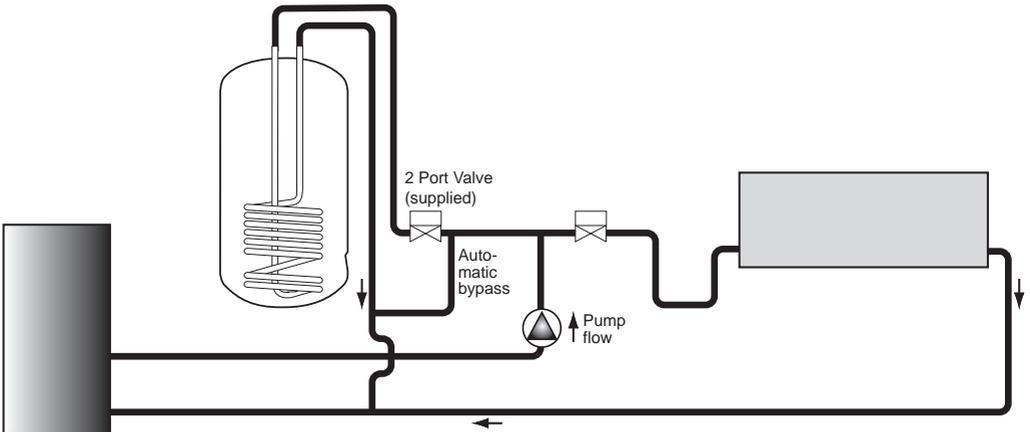
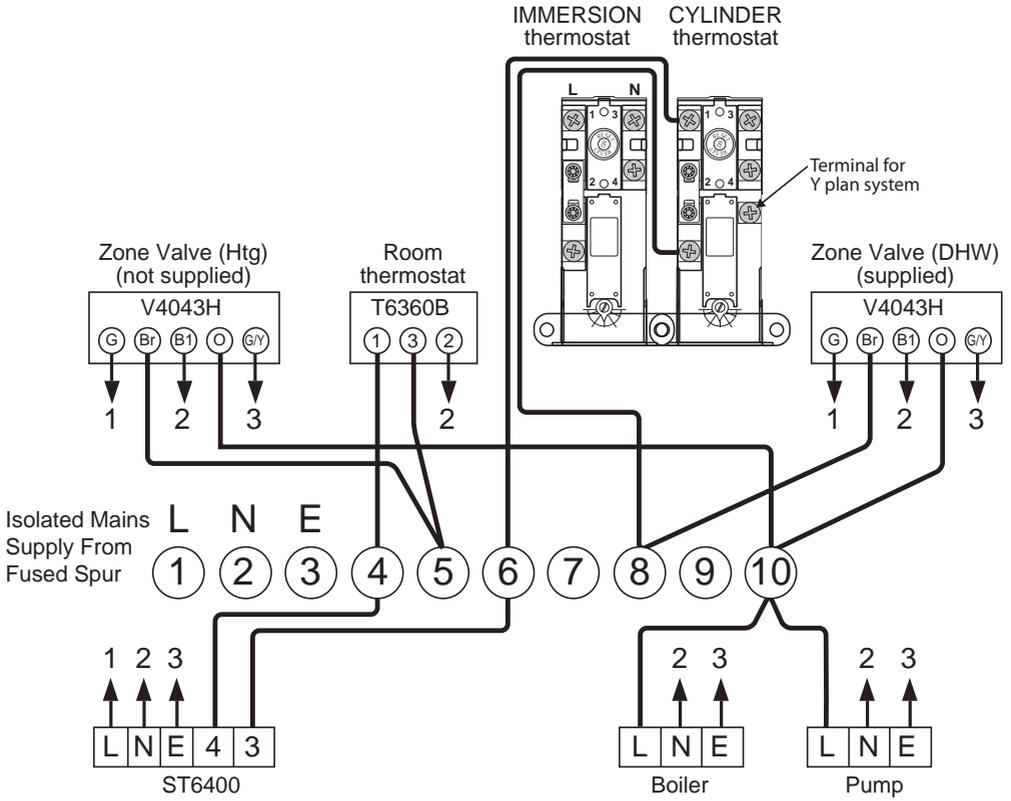
ST 6300  
Room stat



DHW valve  
V4043H

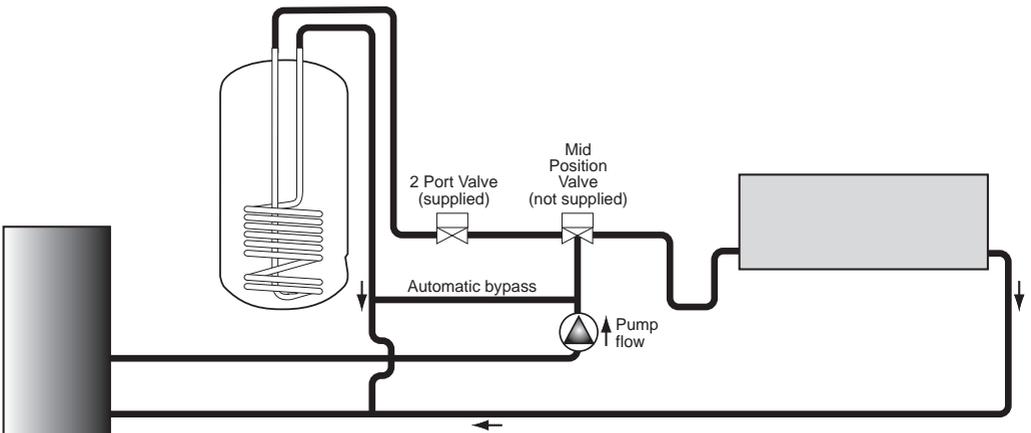
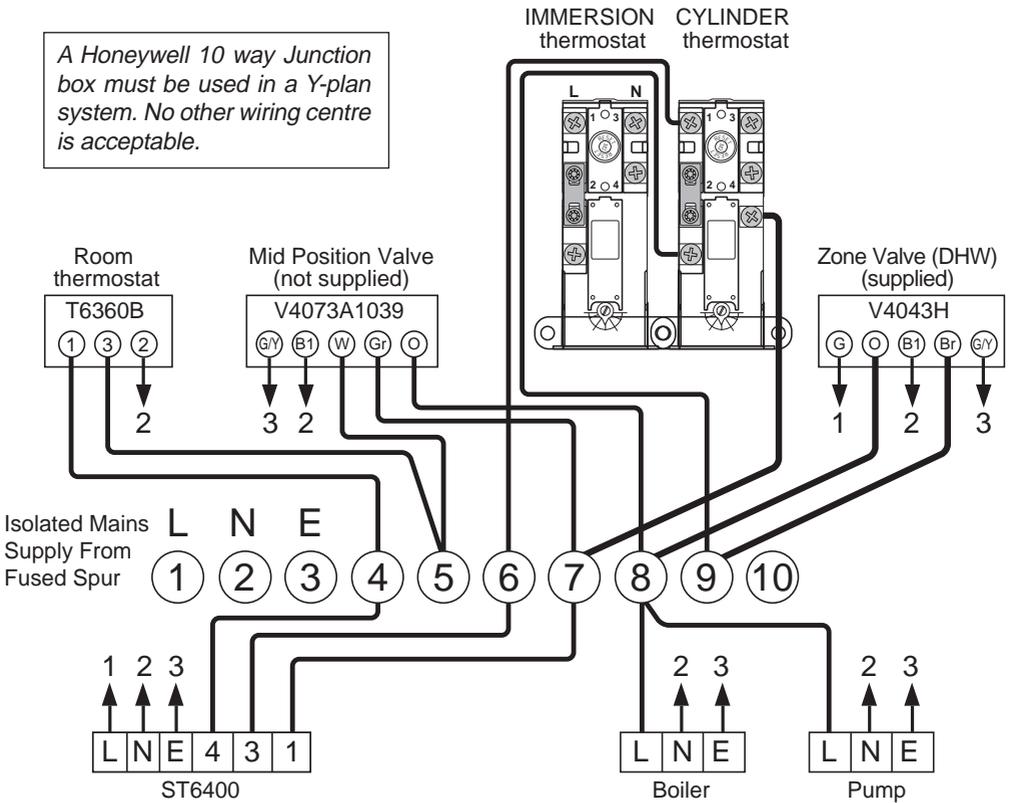


## 4.5 S-plan wiring layout



## 4.6 Y-plan wiring layout

A Honeywell 10 way Junction box must be used in a Y-plan system. No other wiring centre is acceptable.



## 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.
2. Remember before resetting the safety cut-out or altering the thermostat setting, isolate electrical supply to the unit prior to removal of the electrical box lid
3. 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

1. Turn off the electrical supply to the immersion heaters.
2. Turn off cold water supply valve.
3. Open a hot tap.
4. 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 expansion vessel and adjust pressure if necessary.
6. Open cold water supply valve.
7. When water flows through open tap, close tap. Turn on electrical supply to the immersion heaters.

### 5.3 Continuous 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:*

1. Inspection of pressure/temperature relief valve and expansion relief valve.
2. 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.
5. Turn off mains water supply and open nearest hot water tap to depressurise the DHW system.
6. Visually check the expansion vessel.
7. If the pressure is below 3.0 bar, top up with suitable air pressure pump to pressure on vessel label.
8. Complete the service section of 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.
11. 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

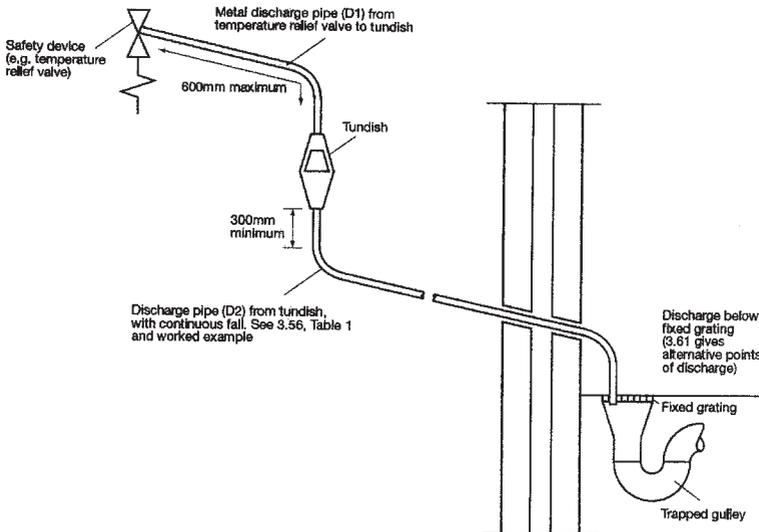
To remove drain cock, turn off power supply and drain cylinder fully. When cylinder has drained, unscrew rear locking ring behind drain cock (turn clockwise). Pull drain cock off. Reverse procedure to refit drain cock.

## 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

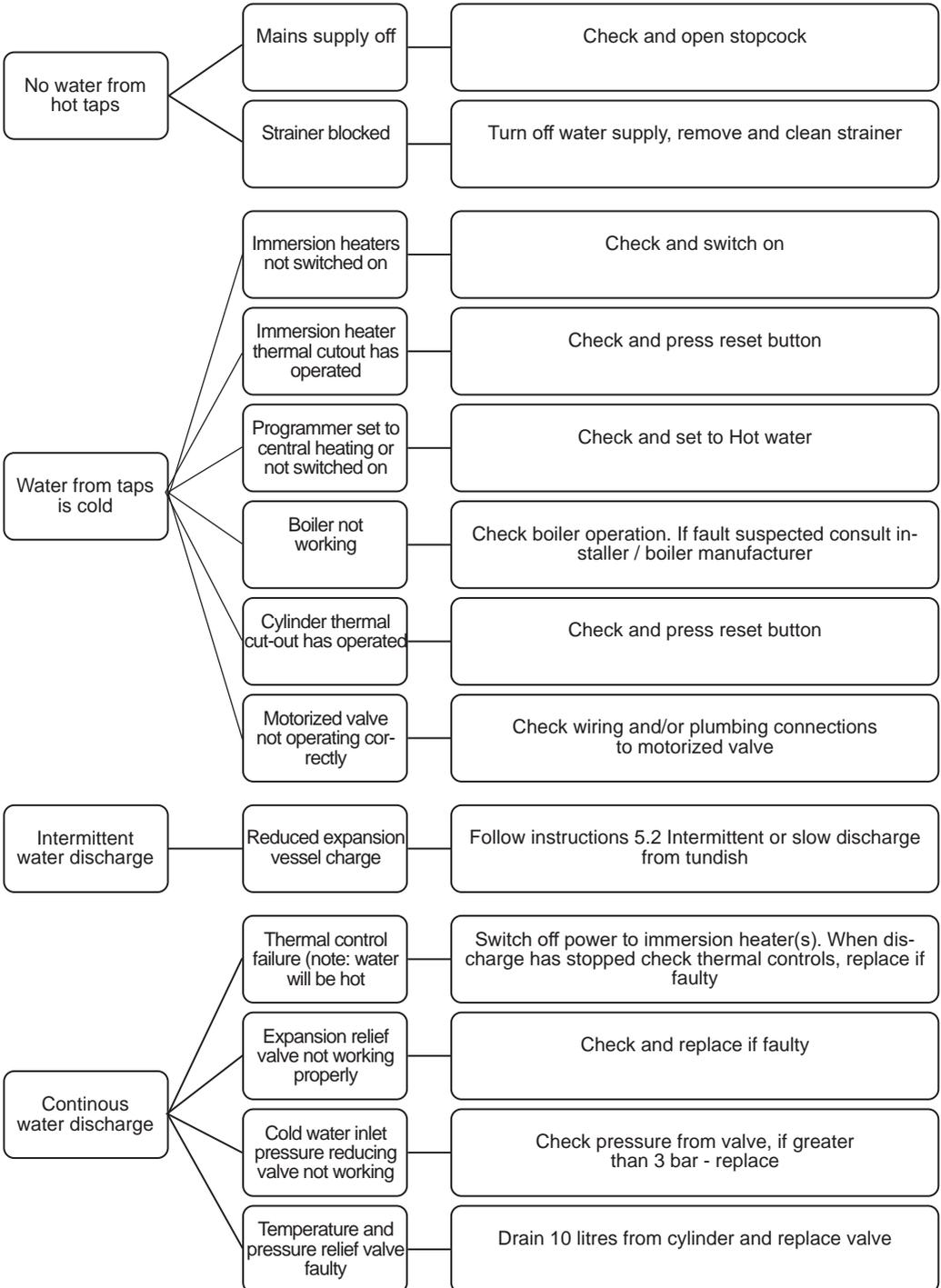
at low level, i.e. up to 100 mm above external surfaces such as car parks, hard standings, grassed areas etc. are acceptable providing that where children may play or otherwise come into contact with discharges, a wire cage or similar guard is positioned to prevent contact, whilst maintaining visibility. 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 elbow or bends)	Resistance created by each elbow or bend
G 1/2	15 mm	22 mm	up to 9 m	0.8 m
		28 mm	up to 18 m	1.0 m
		35 mm	up to 27 m	1.4 m
G 3/4	22 mm	28 mm	up to 9 m	1.0 m
		35 mm	up to 18 m	1.4 m
		42 mm	up to 27 m	1.7 m
G 1	28 mm	35 mm	up to 9 m	1.4 m
		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

## 7.1 Technical data - Super Coil - S<sub>2</sub>C

Description	Unit	S <sub>2</sub> C 150	S <sub>2</sub> C 180	S <sub>2</sub> C 210	S <sub>2</sub> C 250	S <sub>2</sub> C 300
Part number	No.	11011671	11011672	11011673	11011674	11011676
GTIN number	EAN13	7070644010683	707064401090	7070644010706	7070644010713	7070644010720
Actual capacity of the water tank at 20°C	L.	151	170	197	249	274
Outer diameter of the tank	mm	595	595	595	595	595
Height of the appliance	mm	1110	1200	1375	1645	1780
Gross weight of the appliance	kg	41	45	55	57	61
Net weight of appliance once filled with sanitary water	kg	192	203	235	288	334
Material of tank and integrated heat exchanger	-	1.4521	1.4521	1.4521	1.4521	1.4521
Material of element	-	incoloy 825				
Thermal insulation material	-	PUR	PUR	PUR	PUR	PUR
Thermal insulation of the tank, average thickness	mm	48	48	48	48	48
IP classification	-	21	21	21	21	21
Standing heat losses / 24 hour	kWh/24h	1.174	1.322	1.397	1.651	1.766
Standing heat losses	Watts	49	55	58	69	74
Hot water capacity(1) >40°C	L.	240	272	333	412	454
Surface area coil	m <sup>2</sup>	0.8	1.0	1.0	1.0	1.1
Heating time (coil)	hrs.	0.46	0.49	0.51	0.61	0.67
Reheat time (1) (70%) (coil)	hrs.	0.32	0.28	0.35	0.42	0.47
Primary Heating Power (1) (coil)	kW	16.7	20.9	20.9	21.5	23.6
Primary flowrate for Reheat time & Primary heating power	l/h	900	900	900	900	900
Primary Heat exchanger pressure drop (1)	mBar	65	82	82	82	91
Heat up 1 element	hrs.	2.37	2.8	3.33	4.33	4.86
Reheat time (1) (70%) 1 element	hrs.	1.65	1.95	2.33	3.03	3.37
ErP class	-	B	B	B	C	C
<b>Pressure information</b>						
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
Operating pressure of heating coil	MPa/Bar	2	2	2	2	2
Max. operating temperature of cylinder	°C	85	85	85	85	85
Max. operating temperature of heating coil	°C	99	99	99	99	99
Expansion solution	-	GWS 3.5 bar				
Expansion vessel capacity	L.	2 x 6	2 x 6	2 x 6	2 x 6	1 x 24
<b>Heat Exchanger information</b>						
Primary heat exchanger surface area	m <sup>2</sup>	0.8	1.0	1.0	1.0	1.1
Ø int. et Ø ext.	mm/mm	ø20.4 / ø22				
Ø int. et Ø ext.	mm/mm	N/A	N/A	N/A	N/A	N/A
<b>Hydraulic connections</b>						
Secondary return	mm	N/A	N/A	N/A	N/A	N/A
Primary heat exchanger flow	Inch	3/4"	3/4"	3/4"	3/4"	3/4"
Primary heat exchanger return	Inch	3/4"	3/4"	3/4"	3/4"	3/4"
Cold water	Inch	3/4"	3/4"	3/4"	3/4"	3/4"
Hot water	Inch	3/4"	3/4"	3/4"	3/4"	3/4"
Immersion heater	Inch	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"
T&P valve (factory fitted)	Inch	1/2"	1/2"	1/2"	1/2"	1/2"
Pressure reducing valve	Inch	3/4"	3/4"	3/4"	3/4"	3/4"
<b>Electrical characteristics</b>						
Supply voltage and frequency	V/Hz	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
Current	A	13	13	13	13	130
Power of the electrical resistance	W	3000	3000	3000	3000	3000
Electrical installation	-	IEEE regs				
Thermostat type - cylinder	-	Surface	Surface	Surface	Surface	Surface
Immersion capacity	kW	3.0kW @240V 2.8kW @230V				
Immersion Heater - Phase	Phase	single	single	single	single	single
Immersion heater - Voltage / Hz	Volt	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
Immersion thermostat - temp range	°C	50-75	50-75	50-75	50-75	50-75
Immersion thermostat - set temp	°C	60	60	60	60	60
Indirect thermostat - temp range	°C	40-70	40-70	40-70	40-70	40-70
Indirect thermostat - set temp	°C	60	60	60	60	60
<b>Safety</b>						
Safety valve opening pressure +/- 5%	Bar	8	8	8	8	8
T&P valve opening pressure/Temp.	Bar/°C	10/90	10/90	10/90	10/90	10/90
Safety thermostat cutout - cylinder	°C	85	85	85	85	85
Safety thermostat cutout - immersion	°C	85	85	85	85	85
<b>Packaging</b>						
Width of box	mm	600	600	600	600	600
Depth of box	mm	600	600	600	600	600
Height of box	mm	1130	1320	1400	1660	1780
Weight of box	Kg.	43	46	58	60	63

## 7.2 Spare parts

Part No.	Product	Product description	Dimension
11010281	RG 1 ¼"	Electric heating element Titanium 2.8 kW - 230V 1 tube	Length 420 mm
11001067	TS2	Thermostat 59T/66T - 40-70°C - 1 x 230V	Cylinder thermostat
11001069	TS2	Thermostat 59T/66T - 50-75°C - 1 x 230V	Immersion thermostat
11011345	TS2 clip	Mounting clip for thermostat TS2 - single	
11001141	Wire	Internal wire 2.5# - 180°C - fork+fork conn.	Length 205 mm
11001329	Mixer valve	Valve for Super Series UK, ø38, complete	ø 38 mm
11001357	DV-360	Drain valve - hose drain connection	ø22 x 10 mm
11012161	AXI 16	Expansion vessel kit - 3.5 bar <sup>1)</sup>	
11012207	S <sub>2</sub> C acc. kit	Accessory kit for Super S <sub>2</sub> C series - UK <sup>2)</sup>	
11011349	Plastic cover	Junction box cover for Super S <sub>2</sub> series	
11011350	Plastic cover	Drain valve cover for Super S <sub>2</sub> series	

<sup>1)</sup>Expansion vessel kit contains:

- Expansion vessel, 8 ltrs. - 2 pcs.
- Flexible hose Y-type G1/2"F x 2xG3/4"F - L=540

<sup>2)</sup>Accessory kit contains:

- Tundish ø15 / 1/2" - ø22/M28, plastic
- Strain reliever double - 2.5#
- Screw ø3mm - L12mm for strain reliever, 4 pcs.
- Manifold 2xG1/2"M x G1/2"F
- Flexible hose G1/2"F x G1/2"F L=260 - 2 pcs.

Please direct technical questions and requests for spare parts to the suitable OSO contact point below:

Phone: (0191) 482 0800 Fax: (0191) 491 3655

E-mail [technical.uk@oso-hotwater.co.uk](mailto:technical.uk@oso-hotwater.co.uk)

E-mail [spareparts.uk@oso-hotwater.co.uk](mailto:spareparts.uk@oso-hotwater.co.uk)

**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**

## **CUSTOMER DETAILS**

<b>NAME</b>	_____
<b>ADDRESS</b>	_____
	<b>TEL No.</b> _____

## **IMPORTANT**

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.
3. 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 OSO HOTWATER (UK)	MODEL		
CAPACITY	litres	SERIAL No.	
TYPE	UNVENTED		
TIME CONTROL	PROGRAMMER <input type="checkbox"/>	or	TIME SWITCH <input type="checkbox"/>

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

# COMMISSIONING PROCEDURE INFORMATION

## BOILER PRIMARY SETTINGS (INDIRECT HEATING ONLY) ALL BOILERS

IS THE PRIMARY A SEALED OR OPEN VENTED SYSTEM?      SEALED       OPEN   
WHAT IS THE BOILER FLOW TEMPERATURE?       °C

## ALL MAINS PRESSURISED SYSTEMS

WHAT IS INCOMING STATIC COLD WATER PRESSURE AT THE INLET TO THE  
PRESSURE REDUCING VALVE?       bar  
HAS STRAINER (IF FITTED) BEEN CLEANED OF INSTALLATION DEBRIS?      YES  NO   
HAS A WATER SCALE REDUCER BEEN FITTED?      YES  NO   
WHAT TYPE OF SCALE REDUCER HAS BEEN FITTED?      \_\_\_\_\_

## UNVENTED SYSTEMS

ARE COMBINED TEMPERATURE AND PRESSURE RELIEF VALVE  
AND EXPANSION VALVE FITTED AND DISCHARGE TESTED?      YES  NO   
IS PRIMARY ENERGY SOURCE CUT OUT FITTED  
(NORMALLY 2 PORT VALVE)?      YES  NO   
WHAT IS THE PRESSURE REDUCING VALVE SETTING (IF FITTED)?       bar  
WHERE IS OPERATING PRESSURE REDUCING VALVE SITUATED?      YES  NO   
HAS THE EXPANSION VESSEL OR INTERNAL AIR SPACE BEEN CHECKED?      YES  NO   
WHAT IS THE HOT WATER TEMPERATURE AT THE NEAREST OUTLET?       °C

## ALL PRODUCTS

DOES THE HOT WATER SYSTEM COMPLY WITH  
THE APPROPRIATE BUILDING REGULATIONS?      YES   
HAS THE SYSTEM BEEN INSTALLED AND COMMISSIONED  
IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS?      YES   
HAVE YOU DEMONSTRATED THE OPERATION OF THE  
SYSTEM CONTROLS TO THE CUSTOMER?      YES   
HAVE YOU LEFT ALL THE MANUFACTURER'S  
LITERATURE WITH THE CUSTOMER?      YES

COMPETENT PERSON'S  
SIGNATURE

CUSTOMER'S  
SIGNATURE

*(To confirm demonstrations of equipment and  
receipt of appliance instructions)*

PLEASE FOLLOW THE INSTALLATION AND COMMISSIONING INSTRUCTIONS  
IN THE INSTALLATION MANUAL SUPPLIED WITH THE EQUIPMENT (this document)

## 8. 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 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	< 250 mg / L
- Electric Conductivity (EC) @25°C	< 750 uS / cm
- Saturation Index (LSI) @80°C	> -1,0 / < 0,8

### 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:

- pH level > 6,0 / < 9,5
- The immersion heater has not been exposed to hardness levels exceeding 5°dH (180 ppm CaCO<sub>3</sub>). 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

## 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.

<b>SERVICE 1</b>	<b>DATE:</b>
ENGINEER NAME	_____
COMPANY NAME	_____
TEL No.	_____
COMMENTS	_____
SIGNATURE	_____

<b>SERVICE 2</b>	<b>DATE:</b>
ENGINEER NAME	_____
COMPANY NAME	_____
TEL No.	_____
COMMENTS	_____
SIGNATURE	_____

<b>SERVICE 3</b>	<b>DATE:</b>
ENGINEER NAME	_____
COMPANY NAME	_____
TEL No.	_____
COMMENTS	_____
SIGNATURE	_____

<b>SERVICE 4</b>	<b>DATE:</b>
ENGINEER NAME	_____
COMPANY NAME	_____
TEL No.	_____
COMMENTS	_____
SIGNATURE	_____

<b>SERVICE 5</b>	<b>DATE:</b>
ENGINEER NAME	_____
COMPANY NAME	_____
TEL No.	_____
COMMENTS	_____
SIGNATURE	_____

<b>SERVICE 6</b>	<b>DATE:</b>
ENGINEER NAME	_____
COMPANY NAME	_____
TEL No.	_____
COMMENTS	_____
SIGNATURE	_____

<b>SERVICE 7</b>	<b>DATE:</b>
ENGINEER NAME	_____
COMPANY NAME	_____
TEL No.	_____
COMMENTS	_____
SIGNATURE	_____

<b>SERVICE 8</b>	<b>DATE:</b>
ENGINEER NAME	_____
COMPANY NAME	_____
TEL No.	_____
COMMENTS	_____
SIGNATURE	_____

<b>SERVICE 9</b>	<b>DATE:</b>
ENGINEER NAME	_____
COMPANY NAME	_____
TEL No.	_____
COMMENTS	_____
SIGNATURE	_____

<b>SERVICE 10</b>	<b>DATE:</b>
ENGINEER NAME	_____
COMPANY NAME	_____
TEL No.	_____
COMMENTS	_____
SIGNATURE	_____

When all the above services have been completed, please contact OSO Hotwater for an additional service interval record sheet.

# OSO

## HOTWATER

### **OSO Hotwater (UK) Limited**

Endeavor House, Seventh Avenue,  
Team Valley Trading Estate,  
Gateshead,  
Tyne & Wear,  
NE11 0EF

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