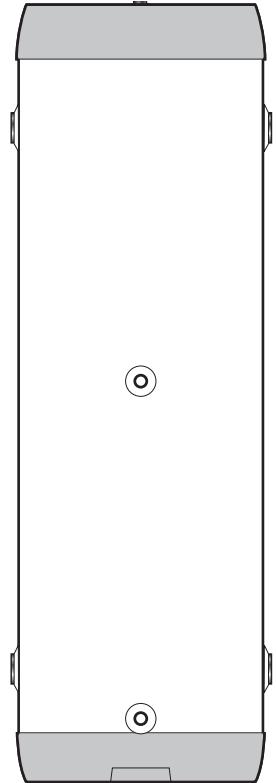


Maxi Accu - MA

400 l.

EN



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

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OSO HOTWATER

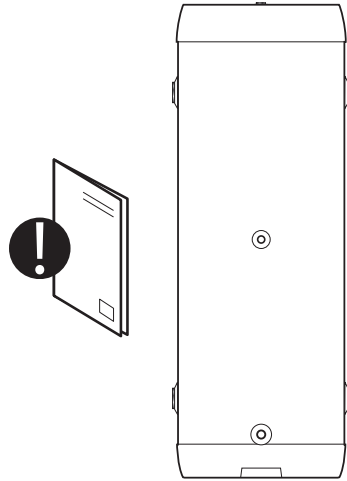
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1. SAFETY INSTRUCTIONS

1.1 General information






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






Symbols used in this manual:





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





1.2 Safety instructions for users

 WARNING	
	If a safety valve is fitted, the valve overflow should NOT be sealed or plugged.
	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.
	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 should not be carried out by persons of diminished physical or mental capacity, unless they have been instructed in the correct use by someone responsible for their safety.

1.3 Safety instructions for installers

 WARNING	
	If a safety valve is fitted (included), the valve overflow should NOT be sealed or plugged.
	Any overflow pipe from the safety valve MUST be ≥ 18 mm inside, clear, undamaged and frost-free with a fall to the drain.
	The relevant regulations and standards, and this installation manual, must be followed.

 CAUTION	
	The product should be placed in a room with a drain, in accordance with the wetroom standard / latest TEK. Alternatively, fit an automatic stop valve with sensor and overflow from safety valve to drain. Liability for consequential damage will only apply if this is followed.
	The product should be properly aligned vertically and horizontally, on a level floor suitable for the total weight of the product when in operation. See type plate.
	The product must have a clearance for servicing of 40 cm in front of front / 10 cm over the top connection.

2. PRODUCT DESCRIPTION

2.1 Product identification

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

OSO products are designed and manufactured in accordance with:

- Pressure vessel standard EN 12897:2016
- Safety standard EN 60335-2-21
- Welding standard EN ISO 3834-2

OSO Hotwater AS is certified for

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

2.2 Intended use

The Maxi is designed for use as a buffer tank for heat-pumps/solar collectors, or as a cooler tank in cooling systems etc.

2.3 CE marking



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

The product complies with EU Directives for:

- Low voltage LVD 2014/35/EU
- Electromagnetic compatibility EMC2014/30/EU
- Pressurised equipment PED 2014/68/EU

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

2.4 Technical data

NRF no.	Product code:	Capacity, persons	Weight, kg.	Packaging dimensions LxWxH mm.	Freight vol. m ³	Heating time, hours Δt 65°C	Actual vol. l.
800 1352	MA 400	-	77	585x585x2225	0.79	-	376

2.5 ErP data - Technical Data Sheet

Brand	Model-no.	Model name	ErP profile	ErP rating	AEC - kWh/a	Thermostat setting °C	Volume 40°C water	Heat loss W
OSO Hotwater AS	800 1352	MA 400	-	C	-	-	-	87
Directive: 2010/30/EU Regulation: EU 812/2013			Directive: 2009/125/EC Regulation: EU 814/2013					
Heat loss tested acc. to standard: EN 12897: 2015								

3. INSTALLATION INSTRUCTIONS

3.1 Products covered by these instructions

800 1352 MA 400

3.2 Included in delivery

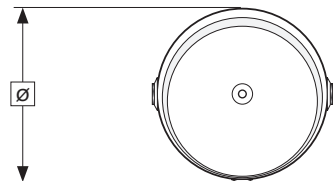
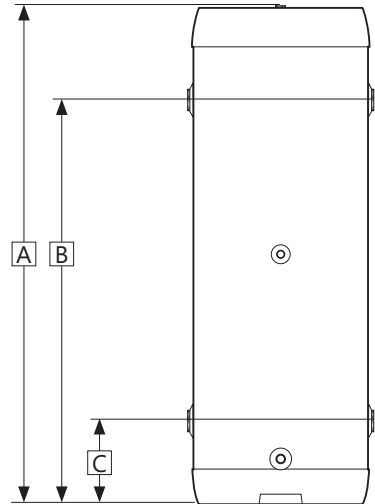
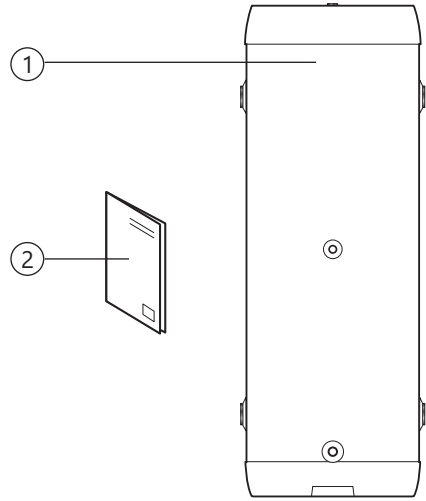
Ref no.	Number of	Description
1	1	Buffer tank without electric
2	1	Installation manual (this document)

3.3 Product dimensions

All dimensions in mm.

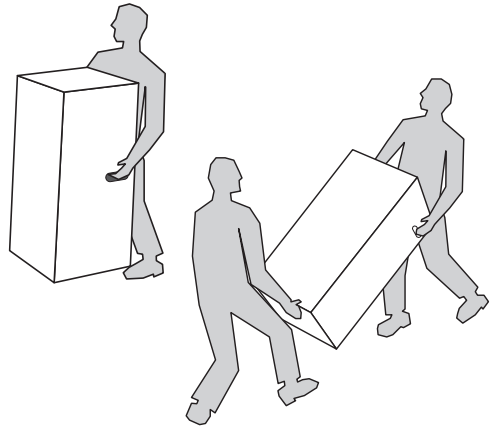
Product.	A	B	C	∅
MA 400	2225	1911	291	595

Tolerance +/- 5 mm



3.3.1 Delivery

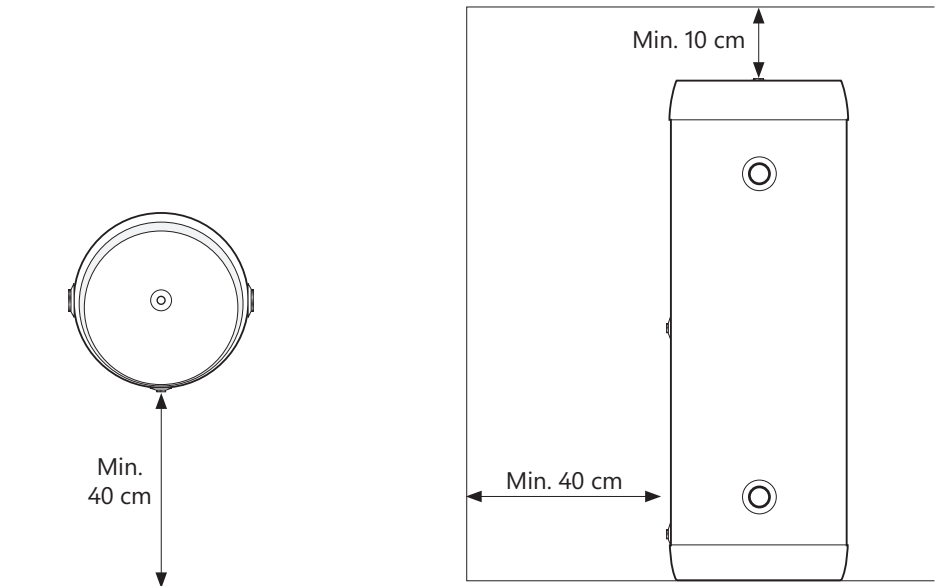
The product should be transported carefully as shown, with packaging. Use the handles in the box.



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

3.4 Requirements for installation location and positioning

⚠ CAUTION	
❗	The product should be placed in a room with a drain, in accordance with the wetroom standard / latest TEK. Alternatively, fit an automatic stop valve with sensor and overflow from safety valve to drain.
❗	The product should be placed in a dry and permanently frost-free position.
❗	The product should be placed on a flat surface suitable for the total weight of the product when in operation. See type plate.
❗	The product must have a clearance for servicing of 40 cm in front of front / 10 cm over the top connection.
❗	The product should be easily accessible for servicing and maintenance.



3.5 Pipe installation

Approved pipes of the correct size should be used for installation. The relevant standards and regulations must be followed.

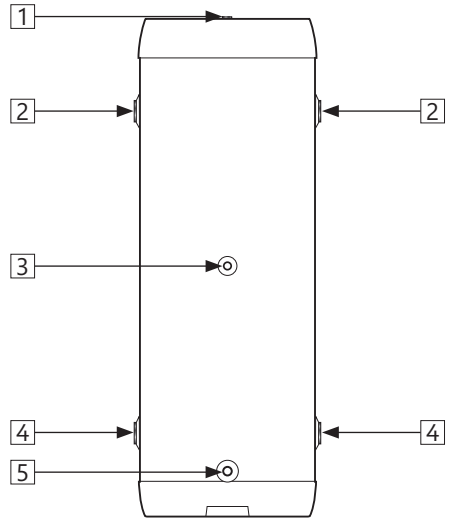
No.	Dimension	Connection description
1	3/4" internal thread.	Venting
2	2" int. thread	Return
3	1/2" int. thread	Thermometer
4	2" int. thread	Return
5	3/4" internal thread.	Draining

3.5.1 Incoming water pressure





The product is designed for a max. operating pressure of 10 bar.

3.5.2 Fitting pipes

- A) Run a pipe of suitable size to the connections shown, and fix with suitable sealant. Unused connections must be plugged securely.



3.5.4 Fitting instructions

 CAUTION	
	The product should be placed in a room with a drain, in accordance with the wetroom standard / latest TEK. Alternatively, fit an automatic stop valve with sensor and overflow from safety valve to drain.
	The product should be properly aligned vertically and horizontally, on a floor suitable for the total weight of the product when in operation. See type plate.
	The product must have a clearance for servicing of 40 cm in front of front / 10 cm over the top connection.

3.5.5 Fitting recommendation

RECOMMENDATION	
-	If the maximum water pressure exceeds 6 bar in a 24-hour period, a reduction valve and expansion vessel should be fitted.
-	For installation in a rooms which does not conform to the wetroom standard, a watertight drip tray with overflow pipe \geq 18 mm. inside diameter should be fitted under the product, in addition to an automatic stop cock with sensor. This will prevent possible material damage.

4. INITIAL COMMISSIONING

4.1 Filling with water

First check that all pipes are connected correctly. Then proceed as follows:

- A) Open for venting at a point in the system higher than the top of the tank; use e.g. the 3/4" top connection on the product.
- B) Open the water supply to the product. When water flows out of the venting point, the tank is full and the vent can be sealed.

4.2 Control points

- A) Check that all pipe connections to/from the product are tight and not leaking.
- B) Check that the product is standing firmly vertically and horizontally.

4.3 Emptying of water

 WARNING

The water temperature in the product may exceed 75°C and could cause scalding. So take great care when emptying the product.

- A) Shut off/disconnect from the heat source.
- B) Close the incoming water supply.
- C) Open fully for venting – leave open (prevents vacuum).
- D) Open the product's drain connection (1). The product will empty. After emptying, the drain connection should be plugged again before the product is refilled with water.

4.4 Handover to end-user

THE INSTALLER MUST:

- | |
|--|
| Brief the end-user on safety and maintenance instructions. |
| Brief the end-user on settings and emptying the product. |
| Hand this installation manual over to the end-user. |
| Enter contact details on the type plate on the product. |

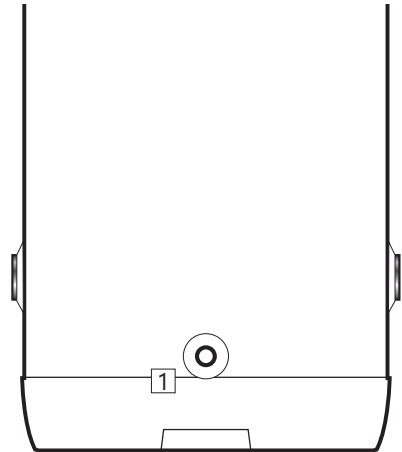
5. TROUBLESHOOTING

5.1 Faults and fixes

If problems arise when the product is in use, check for these possible faults:

1. Water leaking from pipe connection. Possible cause: Pipe connection is loose or sealant is insufficient. Possible solution: Tighten pipe connection, replace sealant if necessary.
2. Water leaking from the tank, not the pipe connection. Possible cause: Leakage from the steel tank. Possible solution: Check if it is possible to see the leak point. Contact installer.

If you are unsure what is wrong, contact the installer (see product type plate) or OSO Hot-water AS - see section 6.1.



6. WARRANTY CONDITIONS

1.Scope

OSO Hotwater AS ("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 5 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 will 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.

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 must comply with the following:

- Chloride < 250 mg / L
- Electric Conductivity (EC) @ 25°C < 750 uS / cm
- Saturation Index (LSI) @ 80°C > -1.0 / < 0.8
- pH level > 6.0 / < 9.5

- 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. 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.
- 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.
- 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.
- 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.

6.1 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 AS: Tel.: +47 32 25 00 00
oso@oso.no / www.oso.no

7. REMOVING THE PRODUCT

7.1 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.

7.2 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.





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