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Installation and Operating Instructions
Enamelled domestic water storage tanks

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**Product no. of the installation and operating instructions: 10159 –
Revision status 01/2022**

All previous installation and operating instructions
lose their validity with the release of this version.
Subject to alterations.



Hot water storage tank
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Heat pump storage tank
300 – 500 litres, page 31



Solar storage tank
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**Built-under domestic water
storage tank (vertical)**
80 – 200 litres, page 32

This installation and operation manual is absolutely necessary to read before commissioning / use of the storage tank!

In addition, it is part of the scope of delivery, has to be handed over to the user and should always be kept near the place where the storage tank is located.

IMPORTANT: We accept no liability for any damage caused by failure to observe these instructions.

The relevant provisions of DIN, DIN EN, DVGW, VDI, TRF and VDE as well as all local and country-specific regulations, directives and standards for heating and water heating systems as well as for drinking water installations must absolutely be adhered to.

If any specifications in this manual are in contradiction to the country-specific provisions, the latter are preferable.



Installation and commissioning as well as maintenance and repairs must be carried out by authorised specialists (heating contractor / contract installation company). The high-efficiency insulation of storage tanks of up to 1,500 litres is made of vacuum panels embedded in a PU foam jacket.

By e.g. pricking, sawing or cutting into the PU foam jacket, the vacuum panels can be damaged. This must be avoided!

Vacuum panels have a core that is wrapped in foil and made of grey silicate. The silicate is harmless to health, not ecotoxic and can be disposed of in your household waste. If, due to external force, silicate may leak, we recommend the use of gloves and a dust mask despite the silicate being harmless.

The storage tanks may only be installed in frost-protected areas. If there is the risk of frost, the tank as well as all water-bearing fittings and connection pipes have to be drained.

The location for installation must be accessible for maintenance and repairs, and it must be ensured that the ground is level with a sufficient load capacity.

Refer to the manufacturers' documents for distances to firing installation systems.

According to the Firing Installation Order, the minimum distance to e.g. solid fuel boilers has to be 1 m as sparks might occur.

The enamelled domestic water storage tanks are used for indirect heating, storage and the supply of drinking water to or respectively in the desired temperature in closed systems.

The heat is transferred by internal heat exchangers, which are flowed through by hot water (in accordance with VDI 2035) and / or solar liquid (water / glycol mixtures in a ratio of up to 1:1).

Optionally, the storage tanks can be equipped with screw-in immersion heaters of different makes and performances. They have to fulfill the following requirements:

- suitability for use in drinking water systems
- a length assigned to the respective storage tank diameter
- German TÜV- or respectively VDE-tested version

The installation and the electrical connection of the immersion heaters must only be carried out by qualified personnel and in accordance with the manufacturer's installation instructions. The screw-in immersion heaters are subject to the warranty conditions of the manufacturer.

The cold water connection of the storage tank is attached to the drinking water network, the hot water connection is attached to the tapping points. If hot water is taken from a tapping point, cold water flows into the storage tank and is heated to the set temperature.

Intended use

2.5

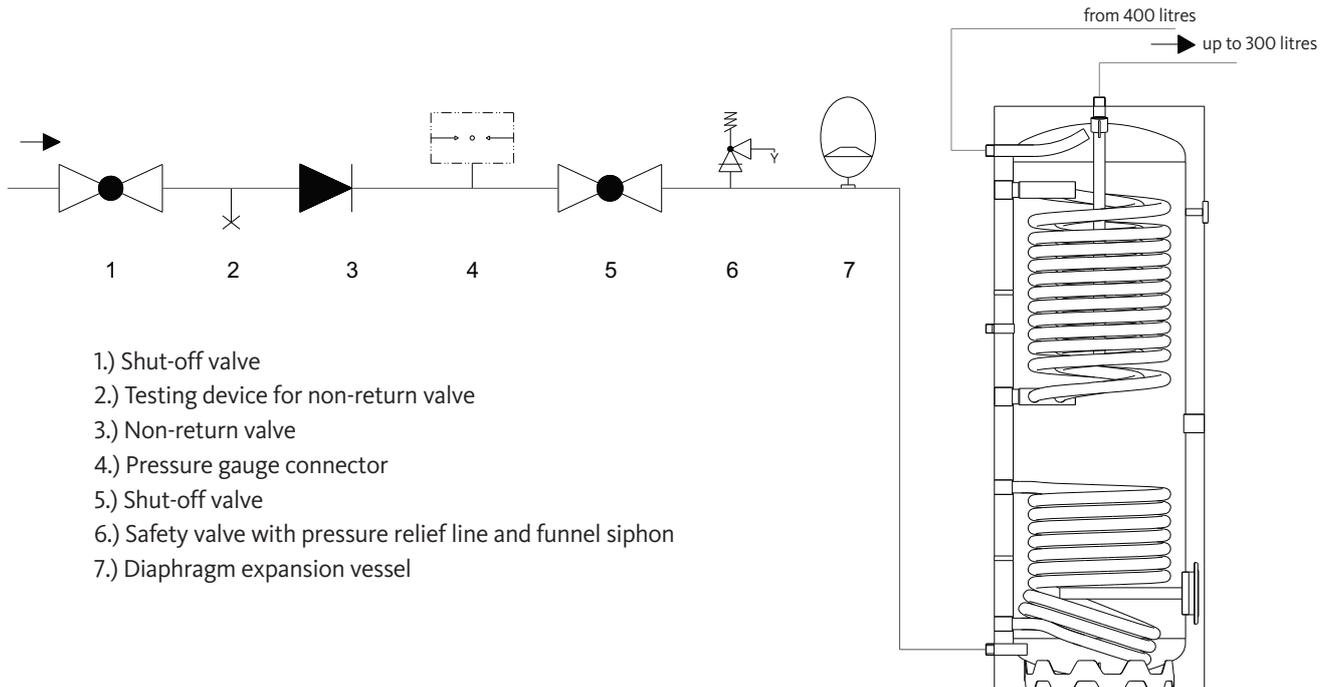
Installation /
Commissioning

3

The valid standards and regulations have to be complied with. The cold water connection has to comply with DIN 1988 / DIN EN 1717 and DIN 4753, Part 1.

Connection

3.1



All storage tanks may only be used in closed systems. All connections are to be made pressurised. Connections that are not required must be sealed. In order to minimise heat losses, all lines should be insulated.

The storage tank is to be installed in such a way that it can be drained without dismantling.

IMPORTANT: If a smooth-pipe heat exchanger is not required, it has to be sealed to prevent the ingress of oxygen. Otherwise, due to the formation of condensing water in conjunction with oxygen, this might lead to corrosion.

IMPORTANT: The smooth-pipe heat exchangers must not be locked on both ends if filled, because an overpressure might otherwise occur.

IMPORTANT: Before commissioning / heating the storage tank via smooth-pipe heat exchangers or screw-in immersion heaters, the tank must be completely filled with drinking water. Otherwise, damages at the enamel are possible.

According to technical rules, an appropriate electrical separation of the conductive connection between the different materials has to be provided for mixed installations. With the smooth-pipe heat exchangers flowed through by heating water, an electrical separation in the flow and return line has to be made additionally in order to prevent a short circuit via the mandatory grounding of the line.

When installing fast-closing shut-off and water-tapping valves (solenoid valves, ball valves, single-lever mixers), it might come to short-term pressure shocks in drinking water installations becoming noticeable in the form of disturbing noises and eventually leading to wear and break of pipes and storage tanks. When using such components, appropriate water hammer dampers are to be provided. We assume no liability for damages caused by pressure shocks and water hammers.

Commissioning the storage tank is performed in the following steps:

- filling the storage tank
- opening the tapping points until the water streams out
- setting the safety valve
- heating up the storage tank after complete filling

IMPORTANT: All pre-assembled connections (e.g magnesium protective anodes and service hatch) have to be checked for tightness before commissioning. After the first heating up, all connections must be checked for correct seat or have to be retightened if necessary. We assume no liability for damages caused by water.

IMPORTANT: For an optimal insulating effect, there must not be any condensing humidity within the insulation. A damp insulation can be dried by lifting the top storage tank cover temporarily during active operation.

When commissioning – as well as at least once a year – the correct function of the safety valve has to be tested. If the safety valve is constantly dripping, this is probably caused by contamination, the pressure in the water pipe exceeds the permitted value or the safety valve is defect. If the pressure in the water pipe exceeds the permitted value, a pressure reducer has to be installed.

IMPORTANT: During the heating, expansion water visibly leaks from the safety valve.
Do not close!

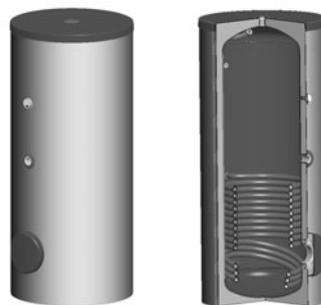
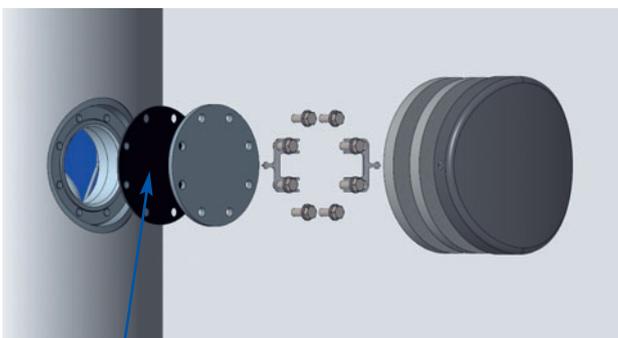
The storage tanks are enamelled on the drinking water side in accordance with DIN 4753 Part 3 and are supplied, depending on their size, including one or two pre-assembled magnesium protective anodes. According to DIN 4753, Part 6, magnesium protective anodes must be tested yearly and replaced every two years.

Optionally, maintenance-free impressed-current anodes of different makes can be retrofitted. It is of utmost importance that all magnesium protective anodes integrated in the storage tank are removed to prevent a disruption or malfunction of the impressed-current anode. The impressed-current anodes may only be connected by qualified personnel and according to the installation instructions of the manufacturer. The impressed-current anodes are subject to the warranty conditions of the manufacturer.

If storage tanks are fitted with service hatches, the flange seal has to be checked in regular intervals. A yearly interval is recommended.

 After opening the flange, a new seal must be installed.

 The nuts have to be tightened by hand first and then fastened diagonally with a torque between 18 and 22 Nm.



Art. 516 005 211
Storage tank flange seal EPDM
for service hatch

The domestic water is drained after closing the shut-off valve in the cold water supply line via the drain valve of the safety valve combination while simultaneously opening all hot water valves of the connected functional fittings.

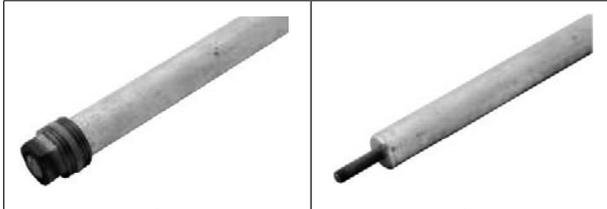
Required cleaning intervals are different depending on the water quality and the temperature of the storage tank. A yearly interval is recommended.

IMPORTANT: With a drinking water hardness of over 20° dH, a yearly cleaning interval is a prerequisite for preserving any warranty claims.

The cleaning is done through the flange aperture. The enamelled internal surface prevents limestone formation as far as possible and allows for a quick cleaning of lime deposits by means of a sharp water jet. Incrustations may only be crushed with a wooden stick before the flushing. Sharp and/or metal objects may not be used for cleaning as there is the risk of damaging the tank or the enamel.

IMPORTANT: After the cleaning, the connections have to be checked for tightness again before and after the reheating and they have to be retightened if necessary. We assume no liability for damages caused by water.

Magnesium protective anodes



	517807400 R1¼" x 500, Ø 33	517807402 R1¼" x 700, Ø 33	517807340 *) M8 x 500, Ø 33	517807355 *) M8 x 500, Ø 40
Hot water storage tank				
150	x			
200		x		
300		x		
400		x	x *)	
500		x	x *)	
800		x		x *)
1000		x		x *)
1500		x		x *)
2250		x		x *)
2600		x		x *)
Solar storage tank				
200		x		
300		x		
400		x	x *)	
500		x	x *)	
800		x		x *)
1000		x		x *)
1500		x		x *)
2250		x		x *)
Heat pump storage tank				
300		x		
400		x	x *)	
500		x		x *)
Built-under storage tank (vertical)				
80	x shorten			
120	x			
150	x			
200	x			

*) For replacement, new accessories 517807380 and sealing 516005209 have to be used.

517807380 accessories for insulated hole mounting



516005209 seal for service hatch



OEG GmbH grants a warranty on all supplied parts / products based on OEG's general terms and conditions.

Prerequisite for any warranty claims on the storage tanks is the compliance with the following conditions:

- control of the scope of delivery and its delivery condition. In case of doubt, immediate contact / consultation with the delivery company and /or OEG.
- frostproof installation
- operation only in closed systems
- proper installation (see type plate)
- regular tightness control of the storage tank and all its connections
- yearly control of the magnesium anode and its replacement every two years
- cleaning every two years incl. replacement of the flange seal
- yearly cleaning with a drinking water hardness of over 20° dH

The warranty claims expire in case of a breach against § 6 Defects / Warranty in the GT&C of OEG GmbH.

Disposal of packaging

Transport and packaging material are reintroduced to the recycling cycles by the installation company via local waste disposal and recycling facilities.

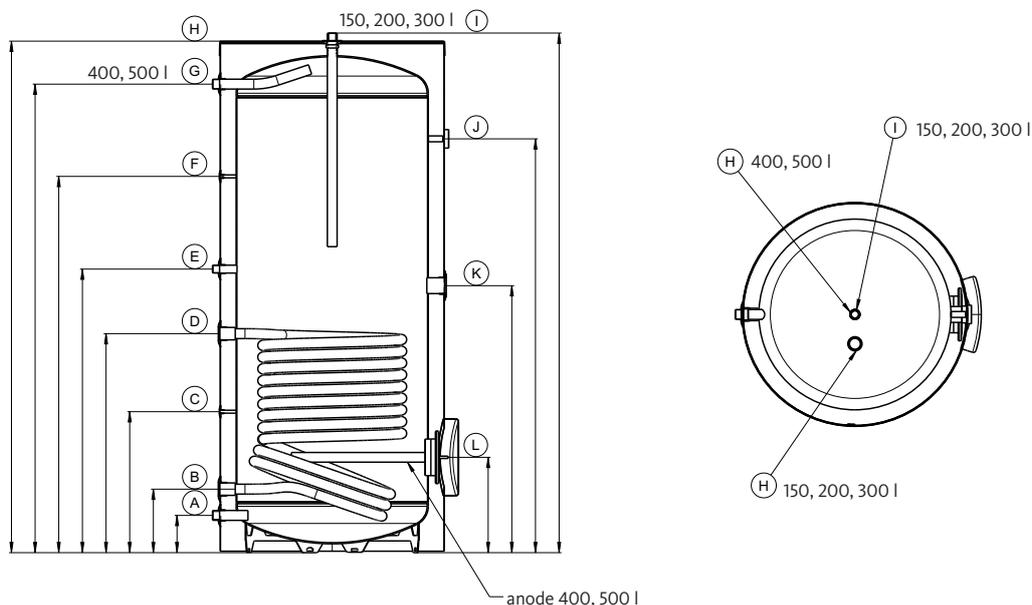
Disposal and recycling of products after final decommissioning

The components and operating materials of OEG storage tanks may not be disposed of with domestic waste. They have to be reintroduced to the recycling cycles in compliance with the local waste disposal and recycling facilities. If you have any questions regarding the individual tank components, contact info@oeg.net or the OEG hotline with the telephone number 00800 63436624.

Hot water storage tanks
150 – 500

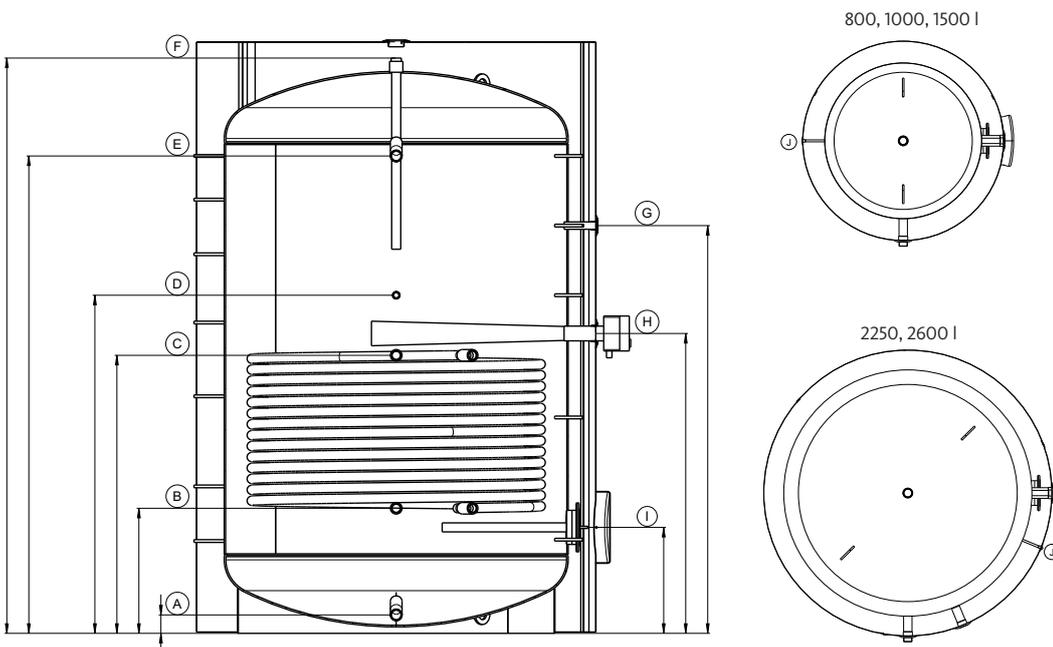
7.1

Hot water storage tanks		150	200	300	400	500
Real volume according to EN 12897	[l]	154	201	294	411	507
Fire protection class of insulation according to DIN 4102-1	[-]	B2	B2	B2	B2	B2
Total height including insulation	[mm]	1,020	1,265	1,750	1,725	1,770
Diameter without insulation	[mm]	500	500	500	600	650
Diameter with insulation	[mm]	610	610	610	710	760
Tilt height	[mm]	1,170	1,375	1,830	1,865	1,925
Weight	[kg]	70	80	98	119	150
Energy efficiency class according to EU regulation no. 812/2013	[-]	A+	A+	A+	A+	A+
Heat retaining loss according to EN 12897	[W]	28	31	36	40	43
Output capacity 45 °C (storage tanks 65 °C, cold water 10 °C, no reheating)	[l]	236	315	471	628	785
Performance factor NL following DIN 4708	[-]	3	5	10	13	19
Storage tank pmax / tmax	[bar] / [°C]	10 / 95	10 / 95	10 / 95	10 / 95	10 / 95
Smooth-pipe heat exchanger surface /volume	[m ²] / [l]	1.15 / 7.5	1.15 / 7.5	1.15 / 7.5	1.88 / 12.3	1.88 / 12.3
Smooth-pipe heat exchanger pmax / tmax	[bar] / [°C]	10 / 130	10 / 130	10 / 130	10 / 130	10 / 130
Cold water connection (R 1")	A [mm]	132	132	132	120	127
Return smooth-pipe heat exchanger (Rp 1")	B [mm]	207	227	227	218	217
Sensor sleeve (Ø 6 mm)	C [mm]	262	405	400	474	481
Flow smooth-pipe heat exchanger (Rp 1")	D [mm]	607	627	627	748	747
Circulation connection (R ¾")	E [mm]	705	725	987	930	967
Sensor sleeve (Ø 6 mm)	F [mm]	807	927	1,347	1,265	1,283
Hot water connection (R 1")	G [mm]	-	-	-	1,575	1,597
Anode connection (Rp 1¼")	H [mm]	963	1209	1,694	1,695	1,731
Hot water connection (R 1")	I [mm]	1,019	1,264	1,749	-	-
Thermometer (Ø 9 mm)	J [mm]	762	910	1,405	1,370	1,411
Heating element connection (Rp 1½")	K [mm]	-	689	1,145	895	910
Service hatch (bolt circle Ø 150, 8 x M12)	L [mm]	292	292	304	300	325



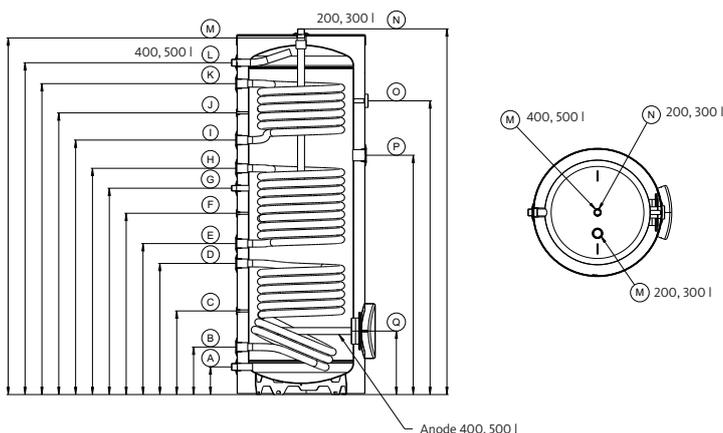
7.2 Hot water storage tanks 800 – 2,600

Hot water storage tanks		800	1,000	1,500	2,250	2,600
Real volume according to EN 12897	[l]	790	986	1,449	2,241	2,554
Fire protection class of insulation according to DIN 4102-1	[-]	B2	B2	B2	B2	B2
Total height including insulation	[mm]	1,930	2,350	2,210	2,165	2,450
Diameter without insulation	[mm]	790	790	1,000	1,250	1,250
Diameter with insulation	[mm]	1,015	1,015	1,315	1,450	1,450
Tilt height	[mm]	1,900	2,280	2,190	2,241	2,530
Weight	[kg]	273	326	462	513	570
Heat retaining loss according to EN 12897	[W]	51	55	63	-	-
Output capacity 45 °C (storage tanks 65 °C, cold water 10 °C, no reheating)	[l]	1,250	1,570	2,350	3,520	4,013
Performance factor NL following DIN 4708	[-]	35	41	46	56	62
Storage tank pmax / tmax	[bar] / [°C]	10 / 95	10 / 95	10 / 95	10 / 95	10 / 95
Smooth-pipe heat exchanger surface / volume	[m ²] / [l]	2.8 / 18	3.3 / 21.3	4.5 / 29.7	4.9 / 32	5.9 / 39
Smooth-pipe heat exchanger pmax / tmax	[bar] / [°C]	10 / 130	10 / 130	10 / 130	10 / 130	10 / 130
Cold water connection (R 1¼")	A [mm]	153	153	88	67	68
Return smooth-pipe heat exchanger (Rp 1")	B [mm]	258	255	306	458	469
Flow smooth-pipe heat exchanger (Rp 1")	C [mm]	878	955	1,021	1,018	1,189
Circulation connection (R ¾")	D [mm]	977	1,314	1,116	1,238	1,519
Hot water connection (R 1¼")	E [mm]	1,578	1,991	1,794	1,748	2,019
Anode connection (Rp 1¼")	F [mm]	1,833	2,246	2,106	2,095	2,371
Thermometer connection (Rp ½")	G [mm]	1,276	1,649	1,451	1,493	1,789
Heating element connection (Rp 1½")	H [mm]	977	1,314	1,116	1,098	1,289
Service hatch (bolt circle Ø 150, 8 x M12)	I [mm]	348	388	420	388	414
Sensor sleeve (Ø 6 mm)	J [mm]	various heights				



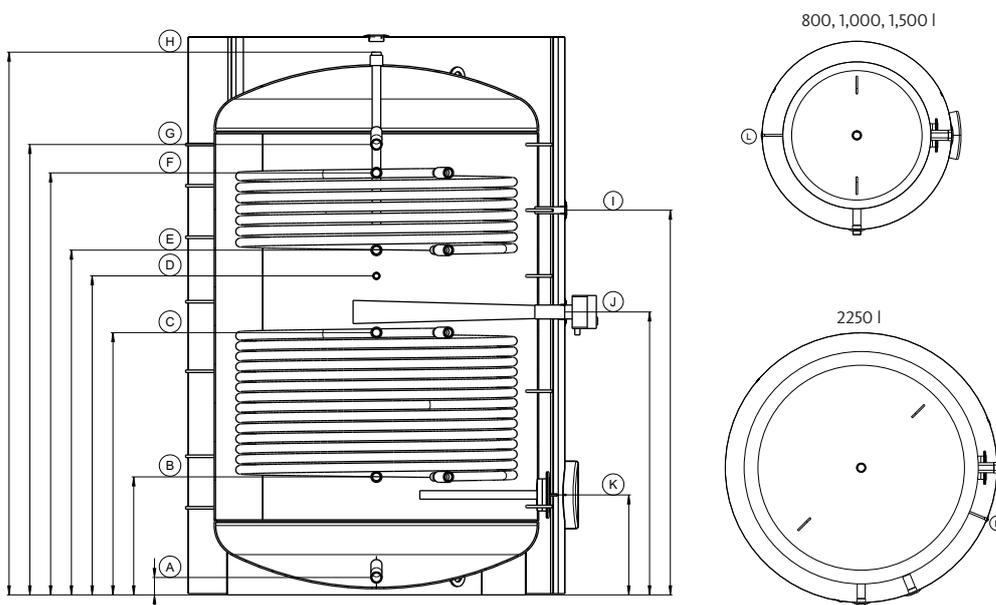
Solar storage tank with two (-2) or three (-3) smooth-pipe heat exchangers		200-2	300-2 / 300-3	400-2	500-2
Real volume according to EN 12897	[l]	200	292 / 290	406	502
Fire protection class of insulation according to DIN 4102-1	[-]	B2	B2	B2	B2
Total height including insulation	[mm]	1,265	1,750	1,725	1,770
Diameter without insulation	[mm]	500	500	600	650
Diameter with insulation	[mm]	610	610	710	760
Tilt height	[mm]	1,375	1,830	1,865	1,925
Weight	[kg]	90	110 / 134	145	168
Energy efficiency class according to EU regulation no. 812/2013	[-]	A+	A+	A+	A+
Heat retaining loss according to EN 12897	[W]	31	36	40	43
Output capacity 45 °C (storage tank 65 °C, cold water 10 °C, no reheating)	[l]	315	471	628	785
Performance factor NL following DIN 4708	[-]	5	10	13	19
Storage tank pmax / tmax	[bar] / [°C]	10 / 95	10 / 95	10 / 95	10 / 95
Smooth-pipe heat exchanger bottom surface / volume	[m ²] / [l]	1.15 / 7.5	1.15 / 7.5	1.88 / 12.3	1.88 / 12.4
Smooth-pipe heat exchanger* middle surface / volume	[m ²] / [l]	-	1.15 / 7.5	-	-
Smooth-pipe heat exchanger top surface / volume	[m ²] / [l]	0.63 / 4.2	0.77 / 5	1.73 / 11.3	1.74 / 11.4
Smooth-pipe heat exchanger pmax / tmax	[bar] / [°C]	10 / 130	10 / 130	10 / 130	10 / 130
Cold water connection (R 1")	A [mm]	132	132	120	127
Return smooth-pipe heat exchanger bottom (Rp 1")	B [mm]	227	227	218	217
Sensor sleeve (Ø 6 mm)	C [mm]	405	400	474	481
Flow smooth-pipe heat exchanger bottom (Rp 1")	D [mm]	627	627	748	747
Return smooth-pipe heat exchanger middle* (Rp 1")	E [mm]	-	- / 722	-	-
Sensor sleeve (Ø 6 mm)	F [mm]	-	- / 867	-	-
Circulation connection (R ¾")	G [mm]	725	987	930	967
Flow smooth-pipe heat exchanger middle* (Rp 1")	H [mm]	-	- / 1082	-	-
Return smooth-pipe heat exchanger top (Rp 1")	I [mm]	822	1,217	1,025	1,062
Sensor sleeve (Ø 6 mm)	J [mm]	927	1,347	1,265	1,283
Flow smooth-pipe heat exchanger top (Rp 1")	K [mm]	1,032	1,487	1,465	1,503
Hot water connection (R 1")	L [mm]	-	-	1,575	1,597
Anode connection (Rp 1 ¼")	M [mm]	1,209	1,694	1,695	1,731
Hot water connection (R 1")	N [mm]	1,264	1,749	-	-
Thermometer (Ø 9 mm)	O [mm]	910	1,405	1,370	1,411
Heating element connection (Rp 1½")	P [mm]	689	1,145	895	910
Service hatch (bolt circle Ø 150, 8 x M12)	Q [mm]	292	304	300	325

* If available

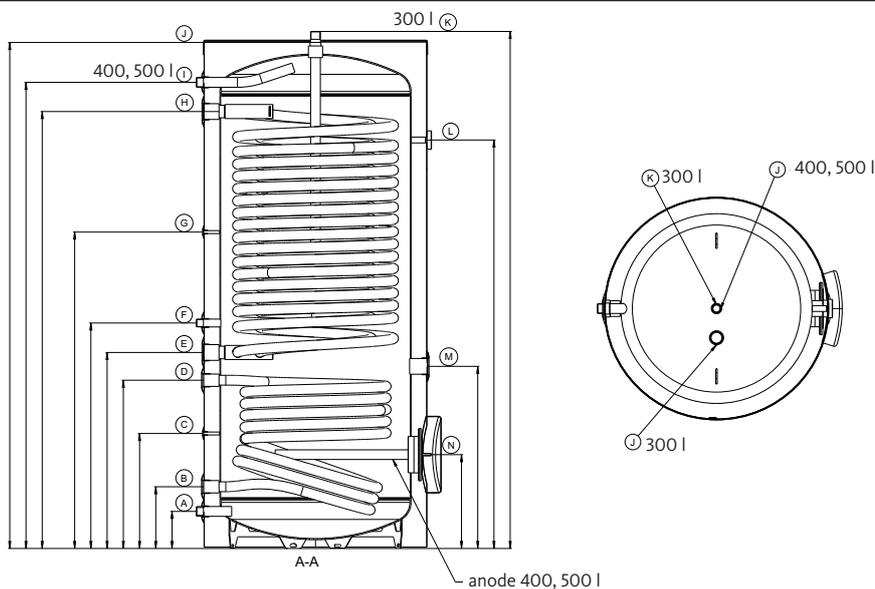


Solar storage tanks 800 – 2,250

Solar storage tanks		800	1,000	1,500	2,250
Real volume according to EN 12897	[l]	790	980	1,440	2,235
Fire protection class of insulation according to DIN 4102-1	[-]	B2	B2	B2	B2
Total height including insulation	[mm]	1,930	2,350	2,210	2,165
Diameter without insulation	[mm]	790	790	1,000	1,250
Diameter with insulation	[mm]	1,015	1,015	1,315	1,450
Tilt height	[mm]	1,900	2,280	2,190	2,240
Weight	[kg]	306	366	505	550
Heat retaining loss according to EN 12897	[W]	51	55	63	-
Output capacity 45 °C (storage tanks 65 °C, cold water 10 °C, no reheating)	[l]	1,250	1,570	2,350	3,520
Performance factor NL following DIN 4708	[-]	35	41	46	56
Storage tank p _{max} / t _{max}	[bar] / [°C]	10 / 95	10 / 95	10 / 95	10 / 95
Smooth-pipe heat exchanger bottom surface / volume	[m ²] / [l]	2.8 / 18	3.3 / 21.3	4.5 / 29.7	4.9 / 32
Smooth-pipe heat exchanger top surface / volume	[m ²] / [l]	2.18 / 14.20	2.6 / 17	2.8 / 18.6	2.5 / 16
Smooth-pipe heat exchanger p _{max} / t _{max}	[bar] / [°C]	10 / 130	10 / 130	10 / 130	10 / 130
Cold water connection (R 1¼")	A [mm]	153	153	88	67
Return smooth-pipe heat exchanger bottom (Rp 1")	B [mm]	258	255	306	458
Flow smooth-pipe heat exchanger bottom (Rp 1")	C [mm]	878	955	1,021	1,018
Circulation connection (R ¾")	D [mm]	977	1,314	1,116	1,238
Return smooth-pipe heat exchanger top (Rp 1")	E [mm]	1,076	1,409	1,292	1,408
Flow smooth-pipe heat exchanger top (Rp 1")	F [mm]	1,476	1,889	1,691	1,708
Hot water connection (R 1¼")	G [mm]	1,578	1,991	1,794	1,748
Anode connection (Rp 1¼")	H [mm]	1,833	2,246	2,106	2,095
Thermometer connection (Rp ½")	I [mm]	1,276	1,649	1,451	1,493
Heating element connection (Rp 1½")	J [mm]	977	1,314	1,116	1,098
Service hatch (bolt circle Ø 150, 8 x M12)	K [mm]	348	388	420	388
Sensor sleeve (Ø 6 mm)	L [mm]	various heights	various heights	various heights	various heights



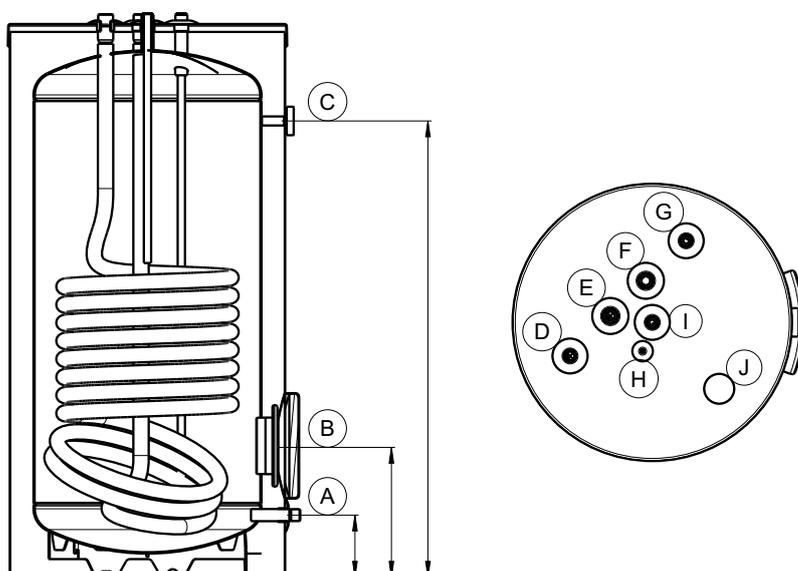
Heat pump storage tanks		300	400	500
Real volume according to EN 12897	[l]	291	412	495
Fire protection class of insulation according to DIN 4102-1	[-]	B2	B2	B2
Total height including insulation	[mm]	1,750	1,725	1,770
Diameter without insulation	[mm]	500	600	650
Diameter with insulation	[mm]	610	710	760
Tilt height	[mm]	1,830	1,865	1,925
Weight	[kg]	130	180	205
Energy efficiency class according to EU regulation no. 812/2013	[-]	A+	A+	A+
Heat retaining loss according to EN 12897	[W]	36	40	42
Output capacity 45 °C (storage tanks 65 °C, cold water 10 °C, no reheating)	[l]	471	628	785
Performance factor NL following DIN 4708	[-]	10	13	19
Storage tank p _{max} / t _{max}	[bar] / [°C]	10 / 95	10 / 95	10 / 95
Smooth-pipe heat exchanger bottom surface / volume	[m ²] / [l]	1.15 / 7.5	1.3 / 8.4	1.3 / 8.4
Smooth-pipe heat exchanger top surface / volume	[m ²] / [l]	2.44 / 16	4 / 26.4	5.1 / 33.6
Smooth-pipe heat exchanger p _{max} / t _{max}	[bar] / [°C]	10 / 130	10 / 130	10 / 130
Cold water connection (R 1")	A [mm]	132	120	127
Return smooth-pipe heat exchanger bottom (Rp 1")	B [mm]	222	230	211
Sensor sleeve (Ø 6 mm)	C [mm]	422	390	394
Flow smooth-pipe heat exchanger bottom (Rp 1")	D [mm]	622	555	577
Return smooth-pipe heat exchanger top (Rp 1 ½")	E [mm]	872	655	671
Circulation connection (R ¾")	F [mm]	976	760	773
Sensor sleeve (Ø 6 mm)	G [mm]	1,177	1,068	1,084
Flow smooth-pipe heat exchanger top (Rp 1 ½")	H [mm]	1477	1,480	1,497
Hot water connection (R 1")	I [mm]	-	1,575	1,597
Anode connection (Rp 1 ¼")	J [mm]	1,700	1,694	1,731
Hot water connection (R 1")	K [mm]	1,749	-	-
Thermometer (Ø 9 mm)	L [mm]	1,372	1,380	1,400
Heating element connection (Rp 1 ½")	M [mm]	794	617	624
Service hatch (hole circle Ø 150, 8 x M12)	N [mm]	297	300	322



Built-under storage tanks (vertical)

80 – 200

Built-under storage tanks (vertical)		80	120	150	200
Real volume according to EN 12897	[l]	79	117	146	196
Fire protection class of insulation according to DIN 4102-1	[-]	B2	B2	B2	B2
Total height including insulation	[mm]	620	830	985	1,245
Diameter without insulation	[mm]	500	500	500	500
Diameter with insulation	[mm]	610	610	610	610
Tilt height	[mm]	850	950	1,130	1,350
Weight	[kg]	45	65	75	92
Energy efficiency class according to Eu regulation no. 812/2013	[-]	A+	A+	A+	A+
Heat retaining loss according to EN 12897	[W]	23	26	28	31
Output capacity 45 °C (storage tanks 65 °C, cold water 10 °C, no reheating)	[l]	155	196	236	315
Performance factor NL following DIN 4708	[-]	1.3	1.9	2.5	5
Storage tank pmax / tmax	[bar] / [°C]	10 / 95	10 / 95	10 / 95	10 / 95
Smooth-pipe heat exchanger surface / volume	[m ²] / [l]	0.53 / 3.44	1 / 6.8	1.3 / 8.5	1.48 / 9.7
Smooth-pipe heat exchanger pmax / tmax	[bar] / [°C]	10 / 130	10 / 130	10 / 130	10 / 130
Draining (R ¾")	A [mm]	137	137	137	137
Service hatch, also used as heating element connection! (bolt circle Ø 150, 8 x M12)	B [mm]	290	290	290	290
Thermometer (Ø 9 mm)	C [mm]	455	663	748	1,008
Hot water connection (R ¾")	D [mm]	620	828	984	1,244
Flow smooth-pipe heat exchanger (R 1")	E [mm]	620	828	984	1,244
Return smooth-pipe heat exchanger (R 1")	F [mm]	620	828	984	1,244
Cold water connection (R ¾")	G [mm]	620	828	984	1,244
Sensor sleeve (Ø 6 mm)	H [mm]	589	797	954	1,214
Circulation connection (R ¾")	I [mm]	620	828	984	1,244
Anode connection (Rp 1¼")	J [mm]	520	730	880	1,140



The image shows a large, empty rectangular area with a light gray background and horizontal white lines, intended for taking notes. The lines are evenly spaced and run across the width of the page. The area is bounded by a thin blue line at the top and bottom, and a thin blue line on the left and right sides. The overall appearance is that of a clean, minimalist note-taking template.



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