

Application:

Oventrop offers a variety of cylinders for the storage of potable or heating water. Heat can, for instance, be supplied to the storage cylinder by a thermal solar plant with Oventrop collectors OKF/OKP or a classic boiler.

The buffer storage cylinders feature sufficient connections for further heat generators (e.g. solid fuel) and therefore allow for the realization of even complex hydronic schemes.

“Hydrocor HP” Two-zone buffer storage cylinder for the storage of heating water:

This type of storage cylinder is suitable for stations with integrated plate heat exchanger “Regusol X” and “Regumaq”. Heat is transmitted from the solar collectors to the buffer storage cylinder and from the buffer storage cylinder to the potable water via the two above stations.

Nominal content: 475 l, 739 l, 895 l and 1331 l

“Hydrocor HS” Two-zone solar buffer storage cylinder for the storage of heating water with internal solar tube heat exchanger:

The heat is transmitted from the solar collector to the solar buffer storage cylinder via a tube heat exchanger located inside the storage cylinder. The potable water is heated according to the continuous flow principle via the plate heat exchanger integrated in the station for hot potable water preparation “Regumaq”.

Nominal content: 475 l, 739 l and 895 l

“Hydrocor WB” Bivalent potable water storage cylinder for hot potable water preparation via two internal tube heat exchangers:

Enamelled solar potable water storage cylinder with two internal tube heat exchangers. The heat is transmitted from the solar collectors to the storage cylinder via a tube heat exchanger located inside the storage cylinder. A classic boiler can, for instance, be connected to the upper heat exchanger.

Nominal content: 301 l

Advantages:

- Separation sheet in the upper third of the storage cylinder for an improved separation of the part in stand-by-motion and the heating water. During draw off operation, the separation sheet prevents mixing of the upper part in stand-by-motion. Moreover, mixing during re-loading at high volume flows (e.g. heat pump) is avoided.
- Connections equipped with baffles. Utilization of the storage cylinder content to full advantage is guaranteed by the elevated upper connections.
- Buffer storage cylinder with 160 mm fibre fleece insulation. To provide optimum thermal insulation, unused connections can be closed with an insulation cap (item no 1389001).
- Bivalent solar storage cylinder with 75 mm polyurethane rigid foam, integrated thermometer and enamel foil according to DIN 4753.
- The potable water storage cylinder features a cleaning flange.
- Large collector circuit heat exchangers (see table)
- The storage cylinders can be upgraded with an electrical immersion heater (item no. 1383594).
- Fixing points for the direct connection of a “Regumaq” station to the storage cylinder with the help of the storage cylinder connection set (item no. 1381185) and the retaining and fixing set (item no. 1389090).



“Hydrocor HP” Two-zone buffer storage cylinder



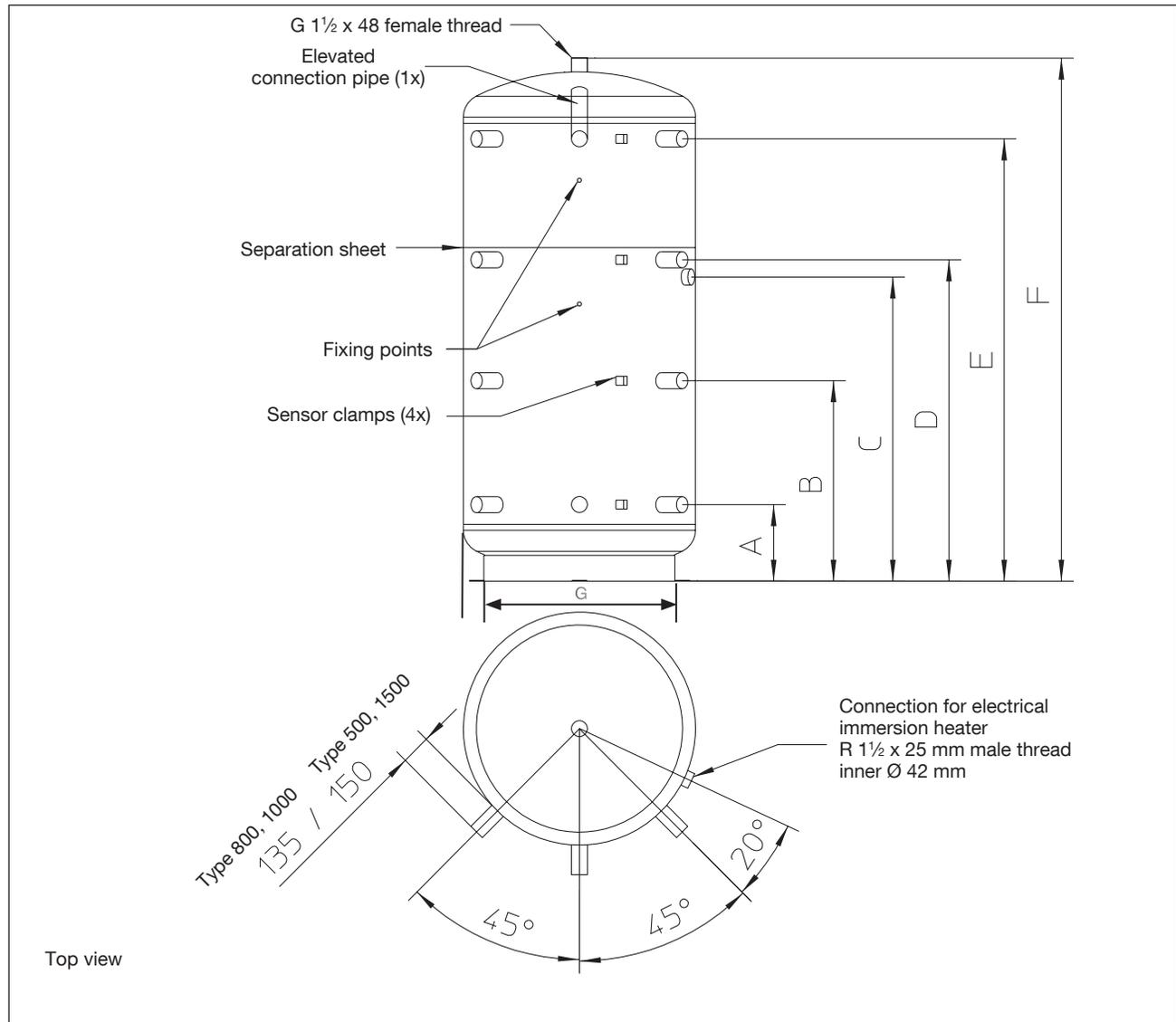
“Hydrocor HS” Two-zone solar buffer storage cylinder



“Hydrocor WB” Bivalent solar storage cylinder for hot potable water preparation

Technical data:

Two-zone buffer storage cylinder:

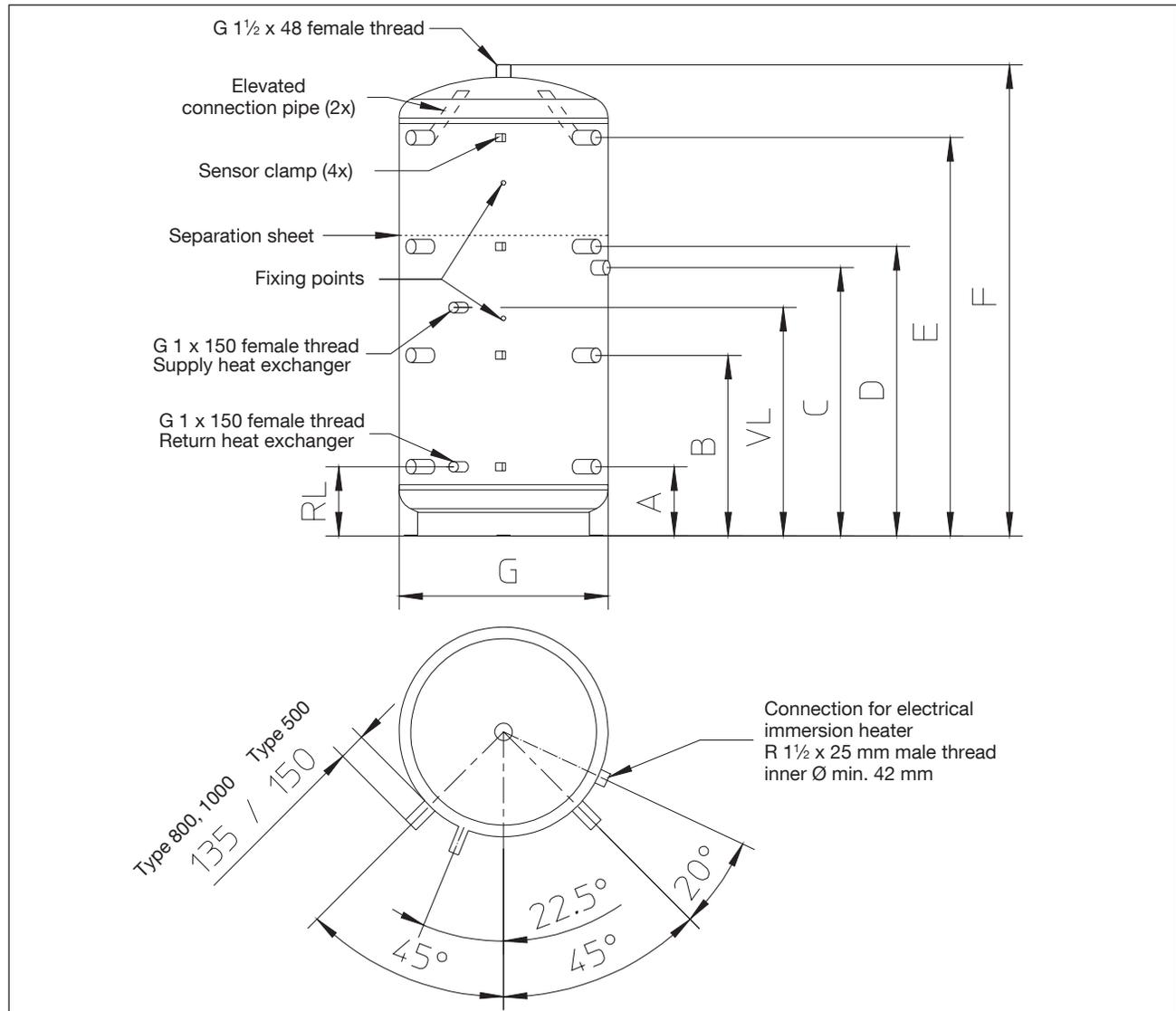


No.	Technical data	Unit	Type 500		Type 800	Type 1000	Type 1500	Connection size	
			1387505 + 1387506*	1387505 + 1387006	1385008 1386006**	1385010 1386010**	1385015 1386015**		
A	Connection 1, 2, 3	mm	220	220	260	260	380	DN 40	G 1½ F
B	Connection 4 & 5	mm	630	630	680	760	825	DN 40	G 1½ F
C	Electrical immersion heater	mm	975	975	1015	1185	1270	DN 40	G 1½ F
D	Connection 6 & 7	mm	1050	1050	1090	1260	1350	DN 40	G 1½ F
E	Connection 8, 9, 10	mm	1460	1460	1500	1770	1760	DN 40	G 1½ F
F	Total height (without insulation)	mm	1720	1720	1775	2058	2097		
	Total height (with insulation)	mm	2070	1820	1830	2110	2190		
G	Diameter (without insulation)	mm	650	650	790	790	1000		
	Max. pivot height (without insulation)	mm	1770	1770	1810	2100	2135		
	Thickness of storage cylinder insulation	mm	160	150	160	160	160		
	Permissible operating pressure	bar	3	3	3	3	3		
	Permissible operating temperature	°C	95	95	95	95	95		
	Weight (including insulation)	kg	about 110	about 110	about 122	about 134	about 206		

*A label **available with permissible operating pressure of 6 bar

Technical data:

Two-zone solar buffer storage cylinder:

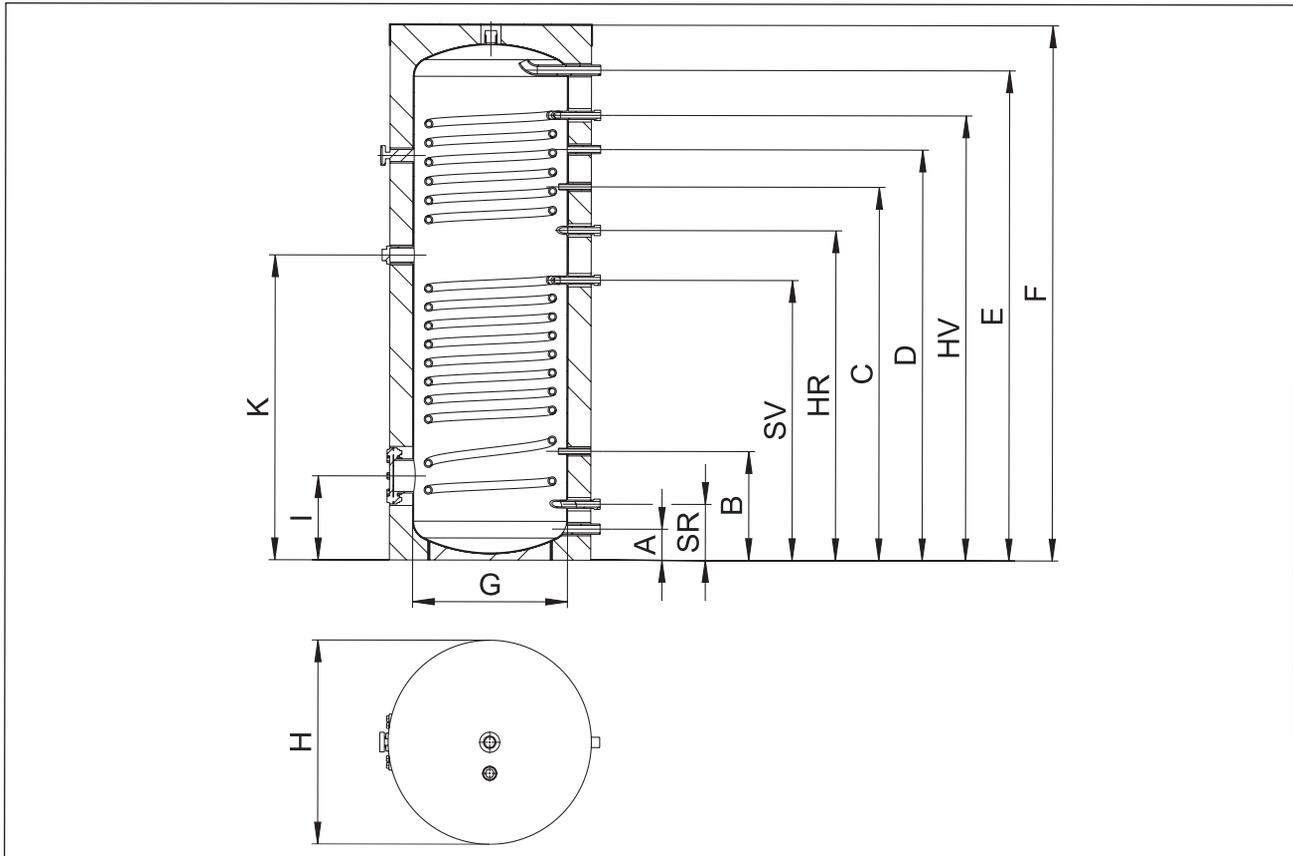


No.	Technical data	Unit	Type 500		Type 800	Type 1000	Connection size	
			1385105 + 1387606*	1385105 + 1387106	1385107	1385110		
A	Connection 1 & 2	mm	220	220	260	260	DN 40	G 1 1/2 F
B	Connection 3 & 4	mm	630	630	680	760	DN 40	G 1 1/2 F
C	Electrical immersion heater	mm	975	975	1015	1185	DN 40	G 1 1/2 F
D	Connection 5 & 6	mm	1050	1050	1090	1260	DN 40	G 1 1/2 F
E	Connection 7 & 8	mm	1460	1460	1500	1770	DN 40	G 1 1/2 F
F	Total height (without insulation)	mm	1720	1720	1775	2058		
	Total height (with insulation)	mm	2070	1820	1830	2110		
G	Diameter (without insulation)	mm	650	650	790	790		
RL	Return solar heating coil	mm	220	220	260	260	DN 25	G 1 F
VL	Supply solar heating coil	mm	820	820	860	950	DN 25	G 1 F
	Max. pivot height (without insulation)	mm	1770	1770	1810	2100		
	Thickness of storage cylinder insulation	mm	160	150	160	160		
	Permissible operating pressure	bar	3	3	3	3		
	Permissible operating pressure (coil)	bar	10	10	10	10		
	Permissible operating temperature	°C	95	95	95	95		
	Permissible operating temperature (coil)	°C	110	110	110	110		
	Solar heating coil	m ²	2.4	2.4	3.1	3.4		
	Weight (incl. insulation)	kg	about 128	about 130	about 166	about 186		

*A label

Technical data:

Bivalent potable water storage cylinder:



No.	Technical data	Unit	1387303	Connection size	
A	Cold water connection	mm	100	DN 25	G1 M
SR	Solar return	mm	180	DN 25	G1 M
B	Sensor tube Ø 20 x 2 x 200	mm	350		
SV	Solar supply	mm	900	DN 25	G1 M
HR	Heating return	mm	1060	DN 25	G1 M
C	Sensor tube Ø 20 x 2 x 200	mm	1200		
D	Circulation	mm	1320	DN 20	G¾ M
HV	Heating supply	mm	1430	DN 25	G1 M
E	Hot water connection	mm	1575	DN 25	R1
F	Total height	mm	1900		
G	Diameter (without insulation)	mm	500		
H	Diameter (with insulation)	mm	650		
I	Flanged connection	mm	270	DN 150	
K	Electrical immersion heater	mm	980	DN 40	G1½ F
	Max. pivot height (incl. insulation)	mm	1800		
	Thickness of storage cylinder insulation	mm	75		
	Performance indicator	N _L	1.5		
	Heat output capacity	kW	25		
	Permissible operating temperature potable water	°C	95		
	Permissible operating temperature SR/SV/HR/HV	°C	110		
	Permissible operating pressure	bar	10		
	Solar heating coil	m ²	1.55		
	Heating coil	m ²	0.8		
	Weight (incl. insulation)	kg	about 120		

Subject to technical modifications without notice.

Product range 10
ti 249-EN/10/MW
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