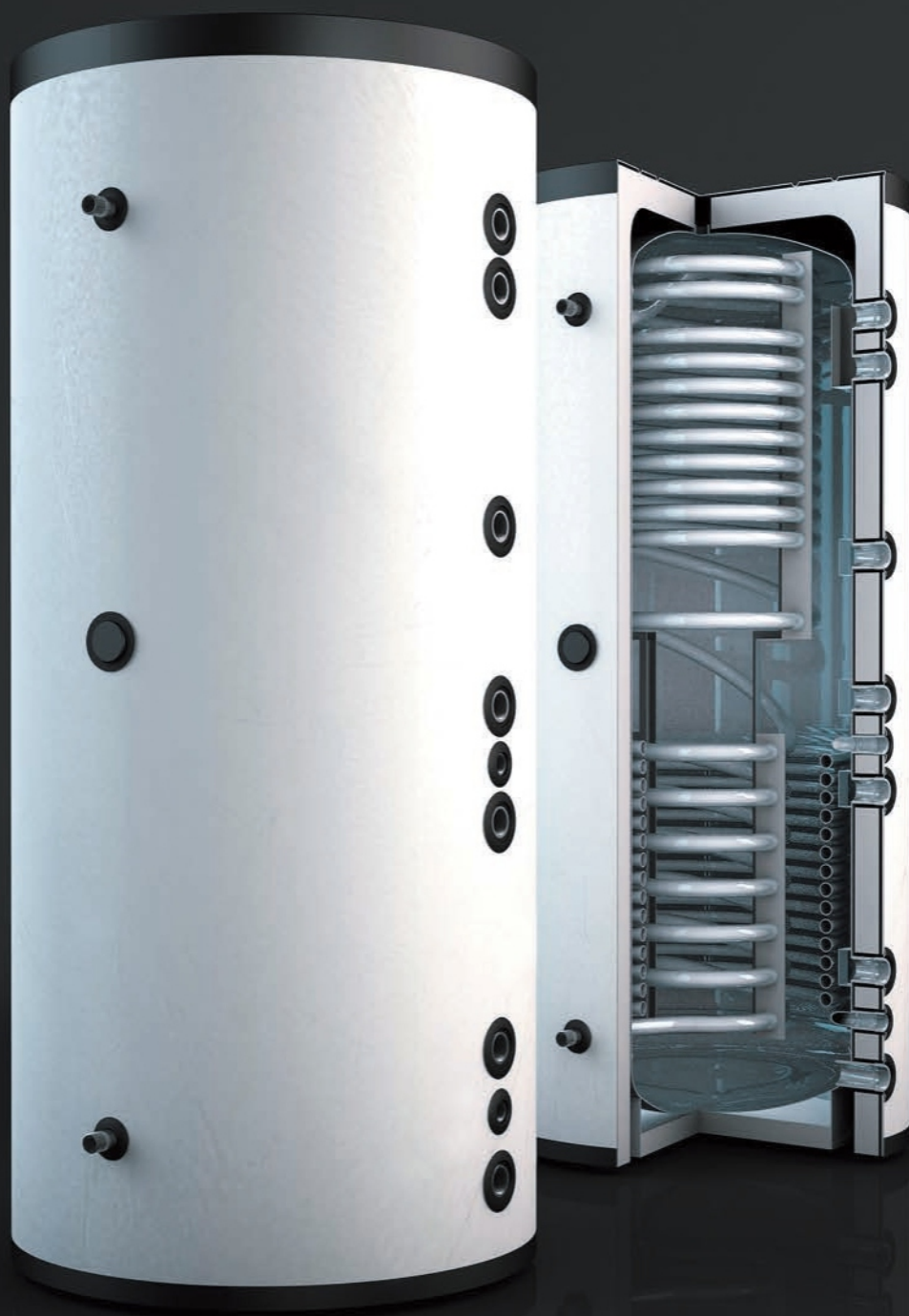


HR 500 - 2000



Hygienic storage tank, solar HR 500 - 2000

Application

This buffer tank with its integrated stainless steel pipe and solar heat exchanger can be used with various heating sources, such as boilers for gas, oil and solid fuels, or with heat pumps.

Corrosion protection for parts with drinking water contact

Stainless steel 1.4404

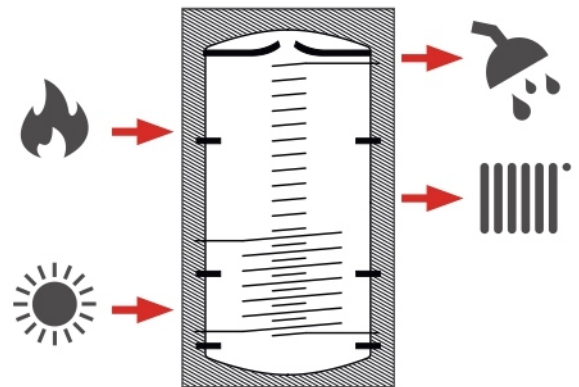
External corrosion protection

Powder coating

Heat insulation

Type 500-1000: 70 mm PU rigid foam half-shell with soft sleeve

Type 1500-2000: 85 mm PU rigid foam half-shell with soft sleeve



Model overview HR 500 - 2000

Type	Article no.	Volume	Height with insulation	Tilt height	Installation diameter	Weight (empty)	Surface corrugated pipe top/HE bottom	Output figure	Energy efficiency class
Unit	[-]	[l]	[mm]	[mm]	[mm]	[kg]	[m ²]	[-]	[-]
HR 500	STD0500HR	497	1750	1740	650	191	5.5 / 1.9	3	C
HR 800	STD0800HR	772	1970	1950	750	208	6 / 2.4	3.8	C
HR 1000	STD1000HR	902	2120	2100	790	244	6 / 3.1	4	C
HR 1250	STD1250HR	1277	2080	2080	950	318	9.8 / 3.2	6.5	C
HR 1500	STD1500HR	1526	2220	2220	1000	368	9.8 / 3.5	9.3	C
HR 2000	STD2000HR	1998	2420	2410	1100	400	9.8 / 3.8	10.4	C

Hygienic storage tank

Technical specifications HR 500 - 2000

Type	Unit	HR 500	HR 800	HR 1000	HR 1250	HR 1500	HR 2000
Article no.	[-]	STD0500HR	STD0800HR	STD1000HR	STD1250HR	STD1500HR	STD2000HR
Volume	[l]	497	772	902	1277	1526	1998
Content heating side	[l]	458	727	853	1207	1454.5	1924.5
Drinking water content	[l]	28	30	30	50	50	50
Content HE Solar	[l]	11	15	19	20	21.5	23.5
Height with insulation	[mm]	1750	1970	2120	2080	2220	2420
Diameter with insulation	[mm]	810	910	950	1150	1200	1300
Diameter without insulation	[mm]	650	750	790	950	1000	1100
Tilt height	[mm]	1740	1950	2100	2080	2220	2410
Installation diameter	[mm]	650	750	790	950	1000	1100
Weight (empty)	[kg]	191	208	244	318	368	400
Max. operating pressure heating side	[bar]	3	3	3	3	3	3
Test pressure heating side	[bar]	4.5	4.5	4.5	4.5	4.5	4.5
Max. operating pressure hot drinking water side	[bar]	6	6	6	6	6	6
Test pressure hot drinking water side	[bar]	9	9	9	9	9	9
Max. operating pressure solar side	[bar]	10	10	10	10	10	10
Test pressure solar side	[bar]	15	15	15	15	15	15
Max. operating temperature heating side	[°C]	95	95	95	95	95	95
Max. operating temperature hot drinking water side	[°C]	95	95	95	95	95	95
Max. operating temperature solar side	[°C]	110	110	110	110	110	110
Surface corrugated pipe top	[m²]	5.5	6	6	9.8	9.8	9.8
Surface HE bottom	[m²]	1.9	2.4	3.1	3.2	3.5	3.8
Insulation thickness	[mm]	70	70	70	85	85	85
Max. installation length EHP	[mm]	500	500	500	750	750	750
Output figure	[-]	3	3.8	4	6.5	9.3	10.4
On-demand heat overhead	[kWh/d]	2.50	3.10	3.38	3.90	4.10	4.44
Holding losses	[W]	104	129	141	163	171	185
Efficiency class	[-]	C	C	C	C	C	C
Insulation material	[-]	PU rigid foam shell ($\lambda=0.024$ W/mK)					
Corrosion protection	[-]	stainless steel					

Output data HR 500 - 2000

	Storage tank fully charged			Only top part of storage tank charged ¹						
	Initial output without heat generator [l]			Initial output without heat generator [l]			Values as per DIN4708 ²			
	Draw-off rate			Draw-off rate			Output figure	Maximum draw-off performance in 10 min ³		
	10 l/min	15 l/min	20 l/min	10 l/min	15 l/min	20 l/min		[l]	[l/min]	
HE TW	500	373	319	281	260	234	209	3.0 (29 kW)	232	23.2
	800	573	519	456	382	322	275	3.8 (30 kW)	260	26.0
	1000	637	600	536	402	331	281	4.0 (33 kW)	267	26.7
	1250	665	620	540	420	348	295	6.5 (50 kW)	307	30.7
	1500	700	650	547	430	358	301	9.3 (70 kW)	399	39.9
	2000	842	714	651	463	393	358	10.4 (80 kW)	423	42.3

	Maximum heat exchanger output		
	Dt = 5 °C		Dt = 25 °C
	[kW]		
HE bottom	500	76	378
	800	76	378
	1000	84	420
	1500	113	567
	2000	155	777

1 - Heating from CW 10 °C to WW 45 °C; storage tank temperature 65 °C

2 - Heating from CW 10 °C to WW 45 °C; supply 70 °C; storage tank temperature CW + 50 K

3 - Data relative to output figure

Connections and dimensions HR 500 - 2000

Connections		Unit	HR 500	HR 800	HR 1000	HR 1250	HR 1500	HR 2000
VENT	Ventilation	[mm]	1670 1½" IT	1910 1½" IT	2060 1½" IT	2000 1½" IT	2140 1½" IT	2320 1½" IT
HW	Hot water	[mm]	1410 1" OT	1670 1" OT	1820 1" OT	1715 1" OT	1835 1" OT	2000 1" OT
BS 1	Boiler supply 1	[mm]	1410 1½" IT	1670 1½" IT	1820 1½" IT	1715 1½" IT	1835 1½" IT	2000 1½" IT
BS 2	Boiler supply 2	[mm]	1300 1½" IT	1560 1½" IT	1710 1½" IT	1605 1½" IT	1725 1½" IT	1890 1½" IT
HES	Heating supply	[mm]	1020 1½" IT	1150 1½" IT	1300 1½" IT	1195 1½" IT	1285 1½" IT	1380 1½" IT
EHC	Electric heating cartridge	[mm]	900 1½" IT	950 1½" IT	1100 1½" IT	995 1½" IT	1065 1½" IT	1230 1½" IT
BR 1	Boiler return 1	[mm]	820 1½" IT	870 1½" IT	990 1½" IT	915 1½" IT	975 1½" IT	1030 1½" IT
SLS	Solar supply	[mm]	720 1" IT	770 1" IT	890 1" IT	815 1" IT	875 1" IT	930 1" IT
HER 1	Heating return 1	[mm]	620 1½" IT	670 1½" IT	790 1½" IT	715 1½" IT	775 1½" IT	830 1½" IT
BR 2	Boiler return 2	[mm]	390 1½" IT	400 1½" IT	400 1½" IT	445 1½" IT	465 1½" IT	480 1½" IT
SLR	Solar return	[mm]	280 1" IT	290 1" IT	290 1" IT	335 1" IT	355 1" IT	370 1" IT
CW	Cold water	[mm]	260 1" OT	270 1" OT	270 1" OT	315 1" OT	335 1" OT	350 1" OT
HER 2	Heating return 2	[mm]	150 1½" IT	170 1½" IT	170 1½" IT	215 1½" IT	235 1½" IT	250 1½" IT
SR	Sensor rail							

HR 500 - 2000

