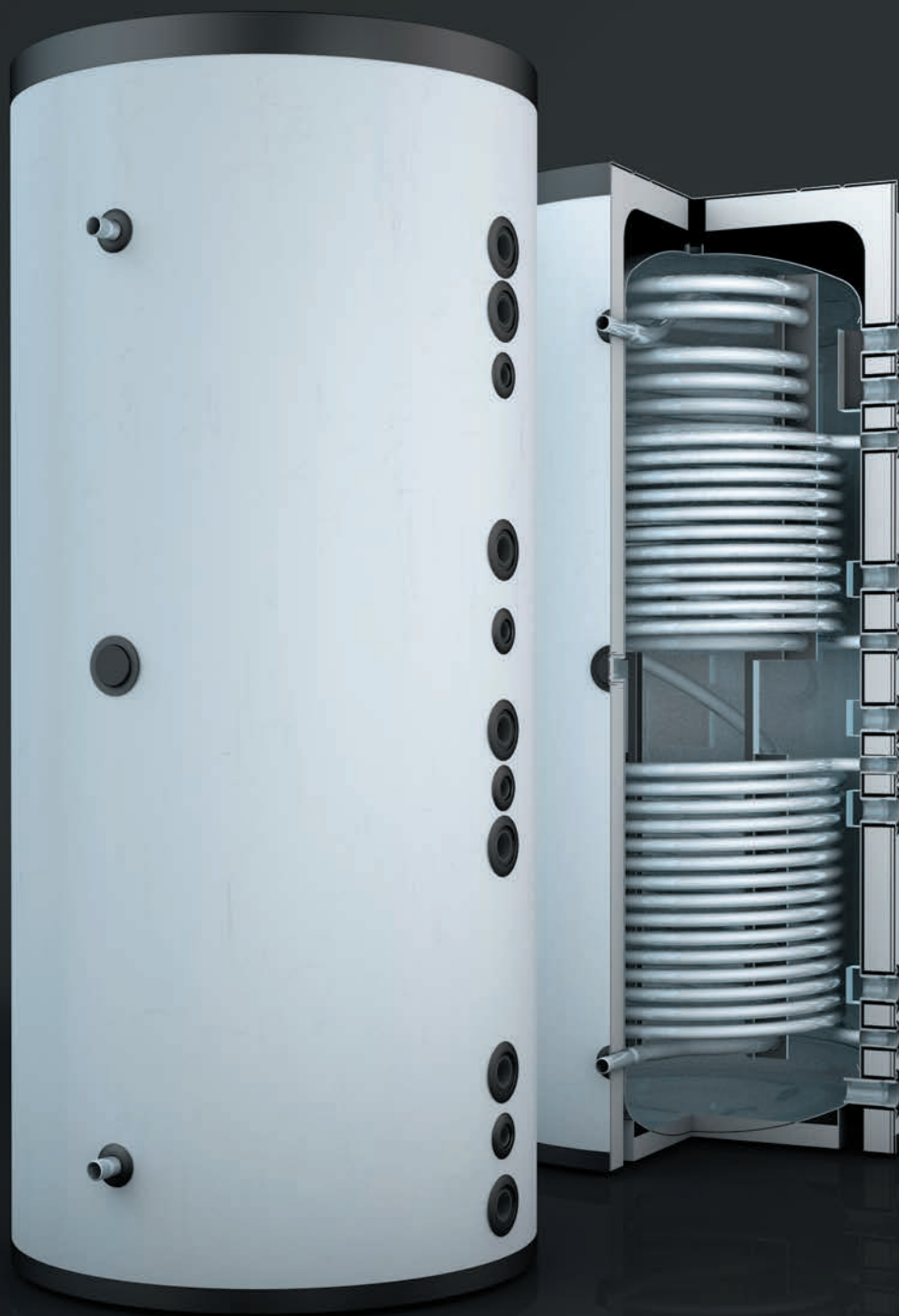


HRR 500 - 2000



Hygienic storage tank, solar HRR 500 - 2000

Application

This buffer tank with its integrated stainless steel pipe and two solar heat exchangers 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

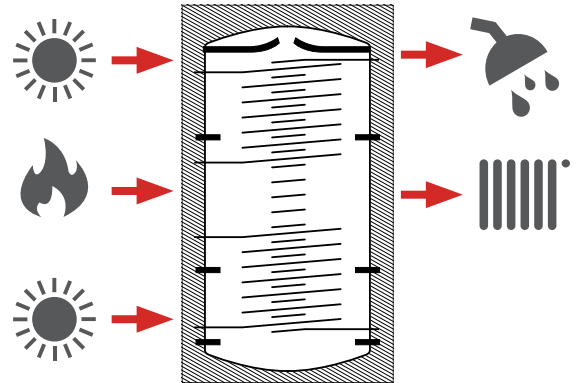
External corrosion protection

Powder-coated

Heat insulation

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

Type 1500-2000: 110 mm PU rigid foam half-shell with soft sleeve



Model overview HRR 500 - 2000

Type	Article no.	Volume	Height with insulation	Tilt height	Installation diameter	Weight (empty)	Surface corrugated pipe top/HE bottom/top	Output figure	Energy efficiency class
Unit	[-]	[l]	[mm]	[mm]	[mm]	[kg]	[m²]	[-]	[-]
HRR 500	STD0500HRR	497	1750	1740	650	198	5,5 / 1,8 / 1,2	3,0	C
HRR 800	STD0800HRR	772	1970	1950	750	221	6,0 / 2,4 / 2,0	3,8	C
HRR 1000	STD1000HRR	902	2120	2100	790	254	6,0 / 3,1 / 2,3	4,0	C
HRR 1500	STD1500HRR	1526	2240	2240	1000	308	9,8 / 3,5 / 3,2	9,3	C
HRR 2000	STD2000HRR	1998	2420	2430	1100	369	9,8 / 3,8 / 3,5	10,4	C

Hygienic storage tank

Technical specifications HRR 500 - 2000

Type	Unit	HRR 500	HRR 800	HRR 1000	HRR 1500	HRR 2000
Article no.	[-]	STD0500HRR	STD0800HRR	STD1000HRR	STD1500HRR.02	STD2000HRR.02
Volume	[l]	497	772	902	1526	1998
Content heating side	[l]	451	715	839	1433	1921,5
Content drinking water	[l]	28	30	30	50	50
Content heat exchanger bottom	[l]	11	15	19	22,5	24
Content heat exchanger top	[l]	7	12	14	20,5	22,5
Height with insulation	[mm]	1750	1970	2120	2240	2420
Diameter with insulation	[mm]	810	910	950	1250	1350
Diameter without insulation	[mm]	650	750	790	1000	1100
Tilt height	[mm]	1740	1950	2100	2240	2430
Installation diameter	[mm]	650	750	790	1000	1100
Weight (empty)	[kg]	198	221	254	308	369
Max. operating pressure heating side	[bar]	3	3	3	3	3
Test pressure heating side	[bar]	4,5	4,5	4,5	4,5	4,5
Max. operating pressure hot drinking water side	[bar]	6	6	6	6	6
Test pressure hot drinking water side	[bar]	9	9	9	9	9
Max. operating pressure solar side	[bar]	10	10	10	10	10
Test pressure solar side	[bar]	15	15	15	15	15
Max. operating temperature heating side	[°C]	95	95	95	95	95
Max. operating temperature hot drinking water side	[°C]	95	95	95	95	95
Max. operating temperature solar side	[°C]	110	110	110	110	110
Surface corrugated pipe top	[m²]	5,5	6,0	6,0	9,8	9,8
Surface heat exchanger bottom	[m²]	1,8	2,4	3,1	3,5	3,8
Surface heat exchanger top	[m²]	1,2	2,0	2,3	3,2	3,5
Insulation thickness	[mm]	70	70	70	110	110
Max. installation length EHP	[mm]	500	500	500	750	750
Output figure	[-]	3	3,8	4	9,3	10,4
On-demand heat overhead	[kWh/d]	2,5	3,1	3,4	4,1	4,5
Holding losses	[W]	104	129	141	171	185
Efficiency class	[-]	C	C	C	C	C
Insulation material	[-]	PU rigid foam shell				
Corrosion protection	[-]	Stainless steel				

Output data HRR 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			NL	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
	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 HRR 500 - 2000

Connections		Unit	HRR 500	HRR 800	HRR 1000	HRR 1500	HRR 2000
ENT	Ventilation	[mm]	1670 1¼" IT	1910 1¼" IT	2060 1¼" IT	2170 1¼" IT	2350 1¼" IT
WW	Hot water	[mm]	1410 1" OT	1670 1" OT	1820 1" OT	1835 1" OT	2000 1" OT
KV 1	Boiler supply 1	[mm]	1470 1½" IT	1670 1½" IT	1820 1½" IT	1835 1½" IT	2000 1½" IT
KV 2	Boiler supply 2	[mm]	1360 1½" IT	1560 1½" IT	1710 1½" IT	1725 1½" IT	1890 1½" IT
SVL 1	Solar supply 1	[mm]	1250 1" IT	1450 1" IT	1600 1" IT	1585 1" IT	1790 1" IT
HZV	Heating supply	[mm]	1050 1½" IT	1150 1½" IT	1300 1½" IT	1285 1½" IT	1380 1½" IT
SRL 1	Solar return 1	[mm]	950 1" IT	1050 1" IT	1160 1" IT	1105 1" IT	1270 1" IT
EHP	Electric heating cartridge	[mm]	900 1½" IT	950 1½" IT	1100 1½" IT	1065 1½" IT	1230 1½" IT
KR 1	Boiler return 1	[mm]	820 1½" IT	870 1½" IT	990 1½" IT	975 1½" IT	1030 1½" IT
SVL 2	Solar supply 2	[mm]	720 1" IT	770 1" IT	890 1" IT	875 1" IT	930 1" IT
HZR 1	Heating return 1	[mm]	620 1½" IT	670 1½" IT	790 1½" IT	775 1½" IT	830 1½" IT
KR 2	Boiler return 2	[mm]	390 1½" IT	400 1½" IT	400 1½" IT	465 1½" IT	480 1½" IT
SRL 2	Solar return 2	[mm]	280 1" IT	290 1" IT	290 1" IT	355 1" IT	370 1" IT
KW	Cold water	[mm]	260 1" OT	270 1" OT	270 1" OT	335 1" OT	350 1" OT
HZR 2	Heating return 2	[mm]	150 1½" IT	170 1½" IT	170 1½" IT	235 1½" IT	250 1½" IT

HRR 500 - 2000

