

HRR 500 - 1000



Hygienic storage tank, solar HRR 500 - 1000

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

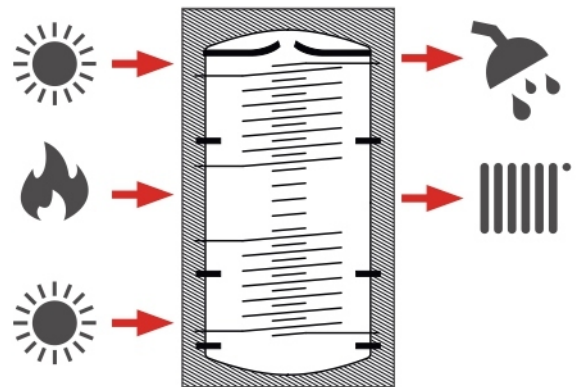
Stainless steel 1.4404

External corrosion protection

Powder coating

Heat insulation

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



Model overview HR 500 - 1000

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]	[m ²]	[-]	[-]
HRR 500	STD0500HRR	497	1750	1740	650	198	5.5 / 1.8 / 1.2	3	C
HRR 800	STD0800HRR	772	1970	1950	750	221	6.0 / 2.4 / 2	3.8	C
HRR 1000	STD1000HRR	902	2120	2100	790	254	6.0 / 3.1 / 2.3	4	C

Hygienic storage tank

Technical specifications HRR 500 - 1000

Type	Unit	HRR 500	HRR 800	HRR 1000
Article no.	[-]	STD0500HRR	STD0800HRR	STD1000HRR
Volume	[l]	497	772	902
Content heating side	[l]	451	715	839
Drinking water content	[l]	28	30	30
Content HE bottom	[l]	11	15	19
Content HE top	[l]	7	12	14
Height with insulation	[mm]	1750	1970	2120
Diameter with insulation	[mm]	810	910	950
Diameter without insulation	[mm]	650	750	790
Tilt height	[mm]	1740	1950	2100
Installation diameter	[mm]	650	750	790
Weight (empty)	[kg]	198	221	254
Max. operating pressure heating side	[bar]	3	3	3
Test pressure heating side	[bar]	4.5	4.5	4.5
Max. operating pressure hot drinking water side	[bar]	6	6	6
Test pressure hot drinking water side	[bar]	9	9	9
Max. operating pressure solar side	[bar]	10	10	10
Test pressure solar side	[bar]	15	15	15
Max. operating temperature heating side	[°C]	95	95	95
Max. operating temperature hot drinking water side	[°C]	95	95	95
Max. operating temperature solar side	[°C]	110	110	110
Surface corrugated pipe top	[m²]	5.5	6.0	6.0
Surface HE bottom	[m²]	1.8	2.4	3.1
Surface HE top	[m²]	1.2	2	2.3
Insulation thickness	[mm]	70	70	70
Max. installation length EHP	[mm]	500	500	500
Output figure	[-]	3	3.8	4
On-demand heat overhead	[kWh/d]	2.5	3.1	3.4
Holding losses	[W]	104	129	141
Efficiency class	[-]	C	C	C
Insulation material	[-]	PU rigid foam shell ($\lambda=0.024$ W/mK)		
Corrosion protection	[-]	stainless steel		

Output data HRR 500 - 1000

	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

	Maximum heat exchanger output		
	Dt = 5 °C		Dt = 15 °C
	[kW]		
HE bottom	500	76	216
	800	76	216
	1000	84	240

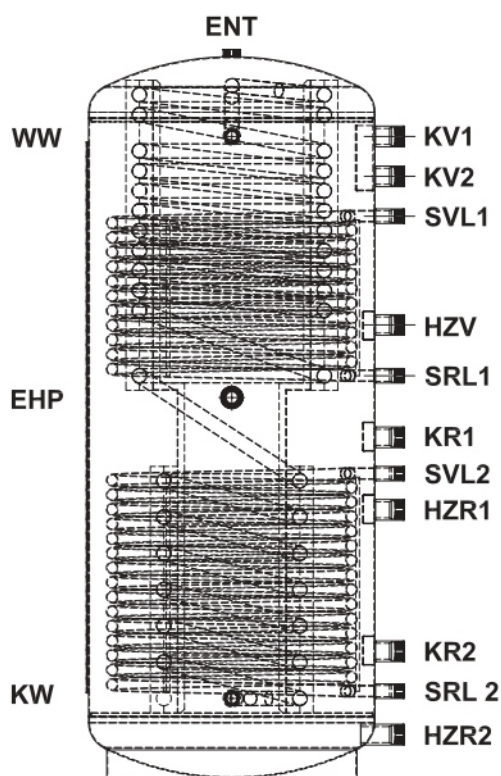
1 - Heating from CW 10 °C to WW 45 °C; storage tank temperature 65 °C

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 - 1000

Connections		Unit	HRR 500	HRR 800	HRR 1000
ENT	Ventilation	[mm]	1670 1½" IT	1910 1½" IT	2060 1½" IT
WW	Hot water	[mm]	1410 1" OT	1670 1" OT	1820 1" OT
KV 1	Boiler supply 1	[mm]	1470 1½" IT	1670 1½" IT	1820 1½" IT
KV 2	Boiler supply 2	[mm]	1360 1½" IT	1560 1½" IT	1710 1½" IT
SVL 1	Solar supply 1	[mm]	1250 1" IT	1450 1" IT	1600 1" IT
HZV	Heating supply	[mm]	1050 1½" IT	1150 1½" IT	1300 1½" IT
SRL 1	Solar return 1	[mm]	950 1" IT	1050 1" IT	1160 1" IT
EHP	Electric heating cartridge	[mm]	900 1½" IT	950 1½" IT	1100 1½" IT
KR 1	Boiler return 1	[mm]	820 1½" IT	870 1½" IT	990 1½" IT
SVL 2	Solar supply 2	[mm]	720 1" IT	770 1" IT	890 1" IT
HZR 1	Heating return 1	[mm]	620 1½" IT	670 1½" IT	790 1½" IT
KR 2	Boiler return 2	[mm]	390 1½" IT	400 1½" IT	400 1½" IT
SRL 2	Solar return 2	[mm]	280 1" IT	290 1" IT	290 1" IT
KW	Cold water	[mm]	260 1" OT	270 1" OT	270 1" OT
HZR 2	Heating return 2	[mm]	150 1½" IT	170 1½" IT	170 1½" IT
FKL	Sensor rail		-	-	-



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