

BRR 200 - 2000



Hot water storage tank solar BRR 200 - 2000

Application

This hot water storage tank features two smooth pipe heat exchangers and is thus suitable for combining with solar heating systems.

Potential conventional heat sources include various heating boilers such as oil, gas, solid fuel and similar.

Corrosion protection for parts with drinking water contact

Enamelled as per DIN 4753.

A magnesium anode offers additional corrosion protection.

External corrosion protection

Up to 500 l protective enamelled layers and foam encased

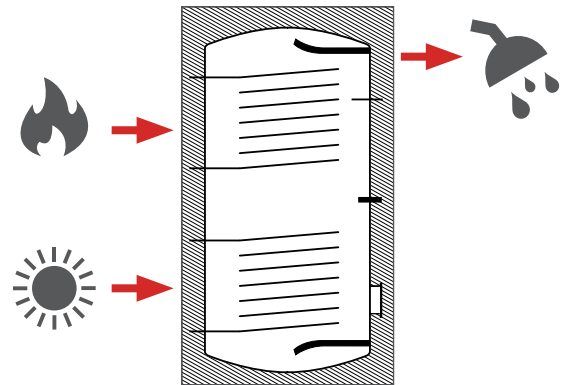
800 to 2,000 l powder-coated

Heat insulation

Type 200-600: 50 mm PU rigid foam insulation with soft sleeve

Type 800-1000: 95 mm PU rigid foam half-shell with soft sleeve

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



Model overview BRR 200 - 2000

Type	Article no.	Volume	Height with insulation	Tilt height	Installation diameter	Weight (empty)	Surface HE top / bottom	Output figure	Efficiency class
Unit	[-]	[l]	[mm]	[mm]	[mm]	[kg]	[l]	[-]	[-]
BRR 200	STD0200BRR	224	1350	1485	610	94	0.8 / 1	1.2	C
BRR 300	STD0300BRR	285	1670	1780	610	124	1 / 1.5	2.2	C
BRR 400	STD0400BRR	415	1500	1685	760	164	1.1 / 1.7	3	C
BRR 500	STD0500BRR	496	1740	1900	760	190	1.4 / 2.1	4.8	C
BRR 600	STD0600BRR	559	1940	2090	760	216	1.7 / 2.4	6	C
BRR 800	STD0800BRR	805	1990	2020	790	286	1.7 / 2.9	8	C
BRR 1000	STD1000BRR	910	2190	2220	790	330	2.2 / 3.6	11	C
BRR 1500	STD1500BRR	1508	2290	2355	1000	381	2.3 / 3.9	17	C
BRR 2000	STD2000BRR	1936	2420	2490	1100	417	3.6 / 4.1	26	C

Hot water storage tank

Technical specifications BRR 200 - 2000

Type	Unit	BRR 200	BRR 300	BRR 400	BRR 500	BRR 600	BRR 800	BRR 1000	BRR 1500	BRR 2000	
Article no.	[-]	STD0200BRR	STD0300BRR	STD0400BRR	STD0500BRR	STD0600BRR	STD0800BRR	STD1000BRR	STD1500BRR	STD2000BRR	
Volume	[l]	224	285	415	496	559	805	910	1508	1936	
Drinking water content	[l]	213	270	398	474	534	765	860	1454	1869	
Content HE top	[l]	5	6	7	9	10	15	19	20	32	
Content HE bottom	[l]	6	9	10	13	15	25	31	34	35	
Height with insulation	[mm]	1350	1670	1500	1740	1940	1990	2190	2290	2420	
Diameter with insulation	[mm]	610	610	760	760	760	990	990	1200	1300	
Diameter without insulation	[mm]	-	-	-	-	-	790	790	1000	1100	
Tilt height	[mm]	1485	1780	1685	1900	2090	2020	2220	2355	2490	
Installation diameter	[mm]	610	610	760	760	760	790	790	1000	1100	
Weight (empty)	[kg]	94	124	164	190	216	286	330	381	417	
Max. operating pressure heating side	[bar]	10	10	10	10	10	10	10	10	10	
Test pressure heating side	[bar]	15	15	15	15	15	15	15	15	15	
Max. operating pressure hot drinking water side	[bar]	10	10	10	10	10	10	10	6	6	
Test pressure hot drinking water side	[bar]	15	15	15	15	15	15	15	9	9	
Max. operating pressure solar side	[bar]	10	10	10	10	10	10	10	10	10	
Test pressure solar side	[bar]	15	15	15	15	15	15	15	15	15	
Max. operating temperature heating side	[°C]	95	95	95	95	95	95	95	95	95	
Max. operating temperature hot drinking water side	[°C]	95	95	95	95	95	95	95	95	95	
Max. operating temperature solar side	[°C]	95	95	95	95	95	95	95	95	95	
Surface HE top	[m ²]	0.8	1	1.1	1.4	1.7	1.7	2.2	2.3	3.6	
Surface HE bottom	[m ²]	1	1.5	1.7	2.1	2.4	2.9	3.6	3.9	4.1	
Insulation thickness	[mm]	50	50	50	50	50	95	95	85	85	
Max. installation length EHP	[mm]	500	500	650	650	650	800	800	1000	1100	
Max. output EHP	[kW]	2	2.5	4	4	6	7.5	7.5	12	15	
Output figure	[-]	1.2	2.2	3	4.8	0	8	11	17	26	
On-demand heat overhead	[kWh/d]	1.74	2.02	2.53	2.66	2.60	3.10	3.40	4.10	4.50	
Holding losses	[W]	73	84	105	111	110	129	141	171	185	
Efficiency class	[-]	C	C	C	C	C	C	C	C	C	
Insulation material	[-]	PU rigid foam ($\lambda=0.024$ W/mK)					PU rigid foam shell ($\lambda=0.024$ W/mK)				
Corrosion protection	[-]	Enamelled as per DIN 4753, magnesium anode									

Output data BRR 200 - 2000

	Continuous output at supply temperature ¹						Values as per DIN4708 (data relative to output figure) ²				Draw-off performance in 60 min ³		
	50 °C		60 °C		70 °C		NL	Max. draw-off performance in 10 min		Draw-off performance after 30 min		Supply temp. 70 °C	
	[kW]	[l/h]	[kW]	[l/h]	[kW]	[l/h]		[l]	[l/min]	[l]	[l/min]		
HE top	200	2.9	72	8.4	206	14.7	361	1.2	156	15.6	43	15.2	476
	300	4.2	103	12.0	295	21.0	516	2.2	204	20.4	80	18.5	660
	400	4.6	113	13.2	324	23.1	567	3.0	236	23.2	111	20.5	802
	500	5.5	134	15.6	383	27.3	671	4.8	291	29.1	177	24.6	931
	600	7.1	175	20.4	501	35.7	877	6	326	32.6	220	27.0	1176
	800	7.1	175	20.4	501	35.7	877	8.0	380	38.0	292	30.7	1308
	1000	9.2	227	26.4	649	46.2	1135	11.0	435	43.5	403	34.5	1616
	1500	9.7	237	27.6	678	48.3	1187	17.0	556	55.6	616	42.9	2012
2000	15.1	371	43.2	1061	75.6	1857	26.0	713	71.3	933	53.8	2903	
HE bottom	200	4.2	103	12.0	295	21.0	516	3.1	235	23.5	115	20.7	783
	300	6.3	154	18.0	442	31.5	774	6.0	325	32.5	220	27.0	1109
	400	7.1	175	20.4	501	35.7	877	10.4	423	42.4	381	33.7	1423
	500	8.8	216	25.2	619	44.1	1083	13.0	478	47.8	474	37.5	1678
	600	10.1	248	28.8	708	50.3	1238	16	536	53.6	580	41.5	1881
	800	12.2	299	34.8	855	60.9	1496	22.0	645	64.5	792	49.1	2818
	1000	15.1	371	43.2	1061	75.6	1857	34.0	839	83.9	1214	62.6	2953
	1500	16.4	402	46.8	1150	81.9	2012	46.0	1021	102.1	1631	75.2	3871
2000	17.2	423	49.2	1209	86.1	2115	60.0	1150	11.5	1837	84.5	4520	

1 - Heating from CW 10 °C to WW 45 °C

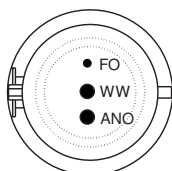
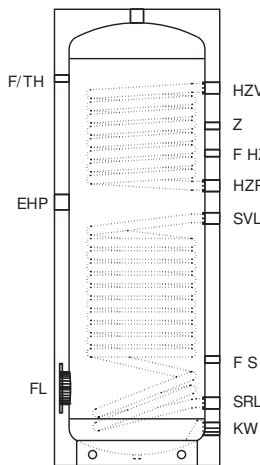
2 - Heating from CW 10 °C to WW 45 °C; supply 70 °C; storage tank temperature CW + 50 K

3 - Computed data at maximum output; CW 10 °C to WW 45 °C; storage tank temperature 60 °C

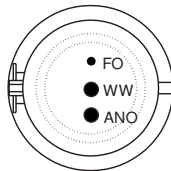
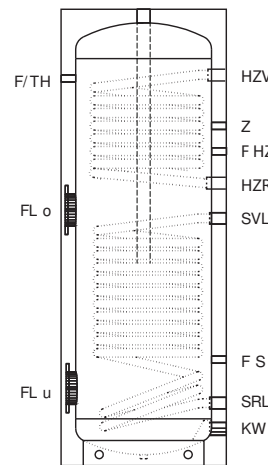
Connections and dimensions BRR 200 - 2000

Connections		Unit	BRR 200	BRR 300	BRR 400	BRR 500	BRR 600	BRR 800	BRR 1000	BRR 1500	BRR 2000
TS	Top sensor	[mm]	1350 ½" IT	1670 ½" IT	1500 ½" IT	1740 ½" IT	1940 ½" IT	1940 ½" IT	2140 ½" IT	2290 ½" IT	2420 ½" IT
VENT	Ventilation	[mm]	-	-	-	-	-	1940 1¼" IT	2140 1¼" IT	2290 1¼" IT	2420 1¼" IT
AN	Anode	[mm]	1350 1¼" IT	1670 1¼" IT	1500 1¼" IT	1740 1½" IT	1940 1¼" IT	1940 1¼" IT	2140 1¼" IT	2290 1¼" IT	2420 1¼" IT
S/TH	Sensor/Thermometer	[mm]	1140 ½" IT	1425 ½" IT	1250 ½" IT	1490 ½" IT	1690 ½" IT	1650 ½" IT	1850 ½" IT	1895 ½" IT	2000 ½" IT
EHC	Electric heating cartridge	[mm]	730 1½" IT	970 1½" IT	855 1½" IT	990 1½" IT	-	-	-	-	-
FLT	Flange top	[mm]	-	-	-	-	1080 Ø 180/120 mm	1120 Ø 180/120 mm	1275 Ø 180/120 mm	1385 Ø 180/120 mm	1330 Ø 180/120 mm
ANS	Anode side	[mm]	-	-	-	-	-	690 1¼" IT	690 1¼" IT	900 1¼" IT	1050 1¼" IT
FLB	Flange bottom	[mm]	285 Ø 180/120 mm	285 Ø 180/120 mm	310 Ø 180/120 mm	310 Ø 180/120 mm	310 Ø 180/120 mm	350 Ø 290/220 mm	350 Ø 290/220 mm	515 Ø 290/220 mm	530 Ø 290/220 mm
HW	Hot water	[mm]	1350 1¼" IT	1670 1¼" IT	1500 1¼" IT	1740 1¼" IT	1940 1¼" IT	1765 2" IT	1965 2" IT	1995 2" IT	2110 2" IT
HES	Heating supply	[mm]	1105 1" IT	1390 1" IT	1230 1" IT	1455 1" IT	1635 1" IT	1580 1¼" IT	1845 1¼" IT	1885 1¼" IT	2000 1¼" IT
C	Circulation	[mm]	1000 ½" IT	1250 ½" IT	1115 ½" IT	1270 ½" IT	1400 ½" IT	1400 1" IT	1600 1" IT	1630 1" IT	1710 1" IT
HS	Heating sensor	[mm]	900 ½" IT	1150 ½" IT	1015 ½" IT	1170 ½" IT	1300 ½" IT	-	-	1630 ½" IT	1600 ½" IT
HER	Heating return	[mm]	790 1" IT	1030 1" IT	915 1" IT	1050 1" IT	1140 1" IT	1195 1¼" IT	1350 1¼" IT	1465 1¼" IT	1400 1¼" IT
SLS	Solar supply	[mm]	670 1" IT	910 1¼" IT	795 1¼" IT	930 1¼" IT	1020 1¼" IT	1045 1¼" IT	1195 1¼" IT	1295 1¼" IT	1260 1¼" IT
SS	Solar sensor	[mm]	390 ½" IT	390 ½" IT	450 ½" IT	450 ½" IT	450 ½" IT	660 ½" IT	660 ½" IT	645 ½" IT	670 ½" IT
SLR	Solar return	[mm]	230 1" IT	230 1" IT	255 1" IT	255 1" IT	255 1" IT	275 1¼" IT	275 1¼" IT	395 1¼" IT	420 1¼" IT
CW	Cold water	[mm]	135 1¼" IT*	135 1¼" IT*	145 1¼" IT*	145 1¼" IT*	145 1¼" IT*	175 2" IT*	175 2" IT*	295 2" IT*	310 2" IT*

BRR 200 - 500



BRR 600



BRR 800 - 2000

