

PR 500 - 5000



Buffer storage tank solar PR 500 - 5000

Application

Buffer tanks for heating applications with smooth tube heat exchanger for an additional heating source, e.g., a solar heating system

External corrosion protection

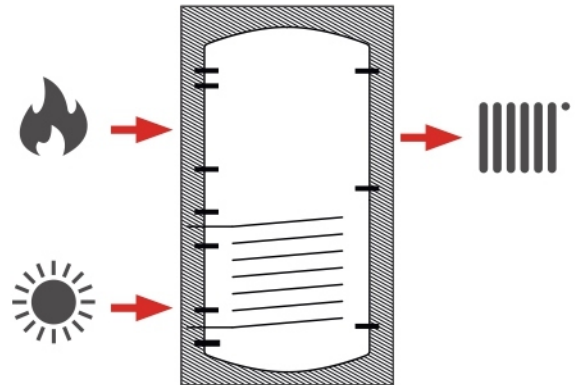
Powder coating up to 2000 l, primed >2,500 l

Heat insulation

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

Type 1250-2000: 85 mm PU rigid foam half-shell with soft sleeve

Type 2500-3000: 100 mm soft foam insulation with soft sleeve



Model overview PR 500 - 5000

Type	Article no.	Volume	Height with insulation	Tilt height	Installation diameter	Weight (empty)	Surface HE bottom	Efficiency class
Unit	[-]	[l]	[mm]	[mm]	[mm]	[kg]	[m ²]	[-]
PR 500	STD0500PR	497	1750	1740	650	128	1.8	C
PR 800	STD0800PR	772	1970	1950	750	180	2.4	C
PR 1000	STD01000PR	902	2120	2100	790	208	3.1	C
PR 1250	STD01250PR	1283	2080	2080	950	237	3.2	C
PR 1500	STD01500PR	1526	2220	2200	1000	283	3.5	C
PR 2000	STD02000PR	1998	2420	2410	1100	234	3.8	C
PR 2500	STD02500PR	2347	2280	2366	1250	352	4.2	-
PR 3000	STD03000PR	2899	2717	2768	1250	400	4.2	-
PR 4000	STD04000PR	3821	2835	2893	1400	506	4.9	-
PR 5000	STD05000PR	5057	2870	2870	1600	594	6	-

Buffer storage tank

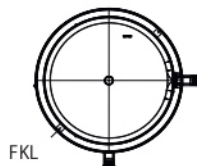
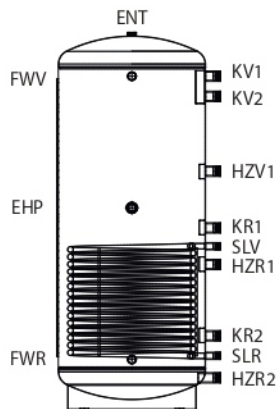
Technical specifications PR 500 - 5000

Type	Unit	PR 500	PR 800	PR 1000	PR 1250	PR 1500	PR 2000	PR 2500	PR 3000	PR 4000	PR 5000	
Article no.	[-]	STD0500PR	STD0800PR	STD01000PR	STD01250PR	STD01500PR	STD02000PR	STD02500PR	STD03000PR	STD04000PR	STD05000PR	
Volume	[l]	497	772	902	1283	1526	1998	2347	2899	3821	5057	
Content heating side	[l]	482.5	755.8	883.4	1264.4	1502.5	1971.6	2320.6	2872.6	3790.1	5019	
Content HE bottom	[l]	14.5	16.2	18.6	18.6	23.5	26.4	26.4	26.4	30.9	38	
Height with insulation	[mm]	1750	1970	2120	2080	2220	2420	2280	2717	2835	2870	
Diameter with insulation	[mm]	810	910	950	1150	1200	1300	1450	1450	1600	1800	
Diameter without insulation	[mm]	650	750	790	950	1000	1100	1250	1250	1400	1600	
Tilt height	[mm]	1740	1950	2100	2080	2200	2410	2366	2768	2893	2957	
Installation diameter	[mm]	650	750	790	950	1000	1100	1250	1250	1400	1600	
Weight (empty)	[kg]	128	180	208	237	283	234	352	400	506	594	
Max. operating pressure heating side	[bar]	3	3	3	3	3	3	3	3	3	3	
Test pressure heating side	[bar]	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
Max. operating pressure solar side	[bar]	10	10	10	10	10	10	10	10	10	10	
Test pressure solar side	[bar]	15	15	15	15	15	15	15	15	15	15	
Max. operating temperature heating side	[°C]	95	95	95	95	95	95	95	95	95	95	
Max. operating temperature solar side	[°C]	95	95	95	95	95	95	95	95	95	95	
Surface HE bottom	[m ²]	1.8	2.4	3.1	3.2	3.5	3.8	4.2	4.2	4.9	6	
Insulation thickness	[mm]	70	70	70	85	85	85	100	100	100	100	
Max. installation length EHP	[mm]	650	750	800	800	1000	1100	1250	1250	1400	1600	
Max. output EHP	[kW]	6	7.5	9	9	9	9	9	9	9	9	
On-demand heat overhead	[kWh/d]	2.50	3.10	3.40	3.90	4.10	4.50	-	-	-	-	
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)						Soft foam ($\lambda=0.041$ W/mK)				

Connections and dimensions PR 500 - 5000

Connections		Unit	PR 500	PR 800	PR 1000	PR 1250	PR 1500	PR 2000	PR 2500	PR 3000	PR 4000	PR 5000	PSR 5000
BS1	Boiler supply 1	[mm]	"1410 1½" IT"	"1670 1½" IT"	"1820 1½" IT"	"1715 1½" IT"	"1835 1½" IT"	"2000 1½" IT"	"1855 1½" IT"	"2330 1½" IT"	"2410 1½" IT"	"2520 1½" IT"	2520 1½ IT
BS2	Boiler supply 2	[mm]	"1300 1½" IT"	"1560 1½" IT"	"1710 1½" IT"	"1605 1½" IT"	"1725 1½" IT"	"1890 1½" IT"	"1855 1½" IT"	"2330 1½" IT"	"2410 1½" IT"	"2520 1½" IT"	1810 1½ IT
HES 1	Heating supply 1	[mm]	"1020 1½" IT"	"1150 1½" IT"	"1300 1½" IT"	"1195 1½" IT"	"1285 1½" IT"	"1380 1½" IT"	"1415 1½" IT"	"1680 1½" IT"	"1860 1½" IT"	"1810 1½" IT"	1100 1½ IT
HES 2	Heating supply 2	[mm]	-	-	-	-	-	-	"1415 1½" IT"	"1680 1½" IT"	"1860 1½" IT"	"1810 1½" IT"	400 1½ IT
BR1	Boiler return 1	[mm]	820 1½" IT"	"870 1½" IT"	"990 1½" IT"	"915 1½" IT"	"975 1½" IT"	"1030 1½" IT"	"975 1½" IT"	"1020 1½" IT"	"1110 1½" IT"	"1100 1½" IT"	1580 1 IT
SLS	Solar supply	[mm]	"720 1" IT"	"770 1" IT"	"890 1" IT"	"815 1" IT"	"875 1" IT"	"930 1" IT"	"1250 1" IT"	"1430 1" IT"	"1555 1" IT"	"1580 1" IT"	2520 1½ IT
HER1	Heating return 1	[mm]	"620 1½" IT"	"670 1½" IT"	"790 1½" IT"	"715 1½" IT"	"775 1½" IT"	"830 1½" IT"	"975 1½" IT"	"1020 1½" IT"	"1110 1½" IT"	"1100 1½" IT"	1810 1½ IT
BR2	Boiler return 2	[mm]	"390 1½" IT"	"400 1½" IT"	"400 1½" IT"	"445 1½" IT"	"465 1½" IT"	"480 1½" IT"	"535 1½" IT"	"1680 1½" IT"	"505 1½" IT"	"400 1½" IT"	580 1 IT
SLR	Solar return	[mm]	"280 1" IT"	"290 1" IT"	"290 1" IT"	"335 1" IT"	"355 1" IT"	"370 1" IT"	"535 1" IT"	"480 1" IT"	"505 1" IT"	"580 1" IT"	1100 1½ IT
HER2	Heating return 2	[mm]	"150 1½" IT"	"170 1½" IT"	"170 1½" IT"	"215 1½" IT"	"235 1½" IT"	"250 1½" IT"	"535 1½" IT"	"380 1½" IT"	"505 1½" IT"	"400 1½" IT"	400 1½ IT
FWS	Fresh water supply	[mm]	"1410 1¼" IT"	"1670 1¼" IT"	"1820 1¼" IT"	"1715 1" OT"	"1835 1¼" OT"	"2000 1¼" IT"	-	-	-	-	2870 1¼ IT
EHC	Electric heating cartridge	[mm]	"900 1½" IT"	"950 1½" IT"	"1100 1½" IT"	"995 1½" IT"	"1065 1½" IT"	"1230 1½" IT"	-	-	-	-	-
FWR	Fresh water return	[mm]	"260 1¼" IT"	"270 1¼" IT"	"270 1¼" IT"	"315 1" OT"	"335 1¼" OT"	"350 1¼" IT"	-	-	-	-	-
VENT	Ventilation	[mm]	"1690 1¼" IT"	"1910 1¼" IT"	"2060 1¼" IT"	"2000 1¼" IT"	"2140 1¼" IT"	"2320 1¼" IT"	"2280 1¼" IT"	"2717 1¼" IT"	"2835 1¼" IT"	"2870 1¼" IT"	2520 ½ IT
STH 1	Sensor/Thermometer 1	[mm]	-	-	-	-	-	-	"1855 ½" IT"	"2330 ½" IT"	"2410 ½" IT"	"2520 ½" IT"	1810 ½ IT
STH 2	Sensor/Thermometer 2	[mm]	-	-	-	-	-	-	"1415 ½" IT"	"1680 ½" IT"	"1860 ½" IT"	"1810 ½" IT"	1100 ½ IT
STH 3	Sensor/Thermometer 3	[mm]	-	-	-	-	-	-	"975 ½" IT"	"1020 ½" IT"	"1110 ½" IT"	"1100 ½" IT"	400 ½ IT
STH 4	Sensor/Thermometer 4	[mm]	-	-	-	-	-	-	"535 ½" IT"	"380 ½" IT"	"505 ½" IT"	"400 ½" IT"	-
SR	Sensor rail	[mm]	x	x	x	x	x	x	x	x	x	x	x

PR 500 - 2000



PR 2500 - 5000

