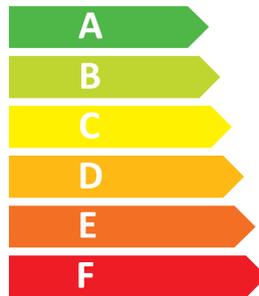


# SUNSYSTEM BUFFER TANK for heating systems



Accumulates the heat generated by boiler.  
Recommended for each space-heating system.  
Ensures optimum operating mode of biomass boiler, permitting its functioning at nominal power output even when the heating system does not need all heat energy produced thereby. Produced heat is accumulated and stored inside the buffer tank and can be used even when the boiler itself has cooled down.



**Energy efficiency**  
Directive 2010/30/EU,  
Regulation 812/2013: Class B

<b>Insulation</b>	High efficiency insulation (DIN 4753-8): removable insulation of fleece, with thickness of 100 mm. or removable insulation of rigid PU, with thickness of 100 mm. Outer lining of PVC with RAL 9006 color.
<b>Water tank</b>	Water tank of low-carbon steel S235JR. Primer coated on the outside of the tank. Operating pressure: 3 bar Maximum temperature: 95°C
<b>Inlets / Outlets</b>	Up to 5 pcs. Rp½" sensor sleeves. Up to 13 pcs. Rp1" or Rp1½" inlet/outlet sleeves -connections to heating boilers, indirect heating of domestic hot water (DHW) and solar system. All threads are internal. Inlet/Outlet arrangement on 90 angle degrees for easy and convenient installation. Possible installation in the corner of boiler room.
<b>One or two heat-exchanger coils (models PBM R/H* PBM R2 /H*)</b>	Enables the tank to utilize an external sources of renewable energy. Operating pressure: 16 bar Test pressure: 25 bar Maximum temperature: 110°C
<b>Optional equipment</b>	Kit for electric heating (Electric heating element and Thermostat with integrated thermal protection) with an optional power (See p. 72).



## PBM without coil

### Vertical models. Insulation: fleece.

	Model	Code
300	PBM 300 FL	09060015202723
500	PBM 500 FL	09060015202724
800	PBM 800 FL	09060015202725
1000	PBM 1000 FL	09060015202726
1500	PBM 1500 FL	09060015202727
2000	PBM 2000 FL	09060015202728
3000	PBM 3000 FL	09060015202730
4000	PBM 4000 FL	09060015202731
5000	PBM 5000 FL	09060015202732

## PBM H without coil

### Vertical models. Insulation: rigid PU.

	Model	Code
800	PBM 800 H	09060015201825
1000	PBM 1000 H	09060015201826



## PBM R with one coil

### Vertical models. Insulation: fleece.

	Model	Code
300	PBM-R 300 FL	09060015202723
500	PBM-R 500 FL	09060015202724
800	PBM-R 800 FL	09060015202725
1000	PBM-R 1000 FL	09060015202726
1500	PBM-R 1500 FL	09060015202727
2000	PBM-R 2000 FL	09060015202728
3000	PBM-R 3000 FL	09060015202730
4000	PBM-R 4000 FL	09060015202731
5000	PBM-R 5000 FL	09060015202732

## PBM R H with one coil

### Vertical models. Insulation: rigid PU.

	Model	Code
800	PBM-R 800 H	09060015202825
1000	PBM-R 1000 H	09060015202826



## PBM R2 with two coils

### Vertical models. Insulation: fleece.

	Model	Code
300	PBM-R2 300 FL	09060015203723
500	PBM-R2 500 FL	09060015203724
800	PBM-R2 800 FL	09060015203725
1000	PBM-R2 1000 FL	09060015203726
1500	PBM-R2 1500 FL	09060015203727
2000	PBM-R2 2000 FL	09060015203728
3000	PBM-R2 3000 FL	09060015203730
4000	PBM-R2 4000 FL	09060015203731
5000	PBM-R2 5000 FL	09060015203732

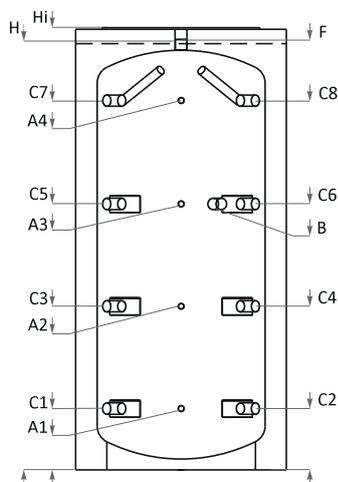
## PBM R2 H with two coils

### Vertical models. Insulation: rigid PU.

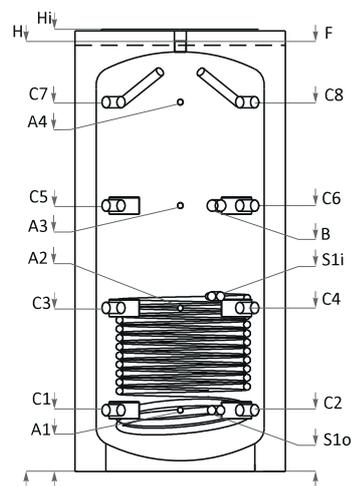
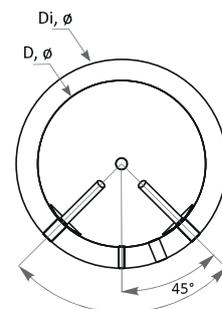
	Model	Code
800	PBM-R2 800 H	09060015203835
1000	PBM-R2 1000 H	09060015203836

# SERIES PBM

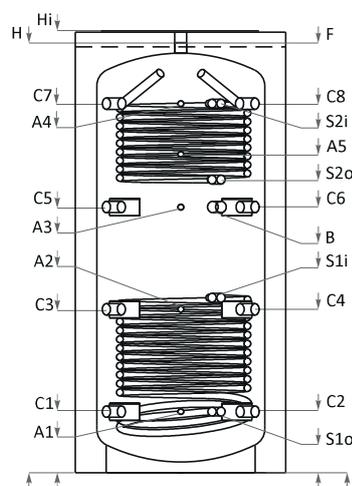
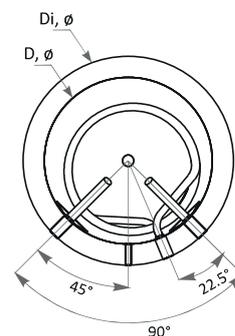
## TECHNICAL PARAMETERS



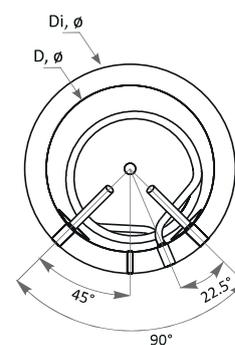
PBM / PBM H  
300 - 5000



PBM R / PBM R H  
300 - 5000



PBM R 2 / PBM R 2 H  
300 - 5000



# PBM / PBM H - without coil PBMR / PBMR H - with one coil PBMR 2 / PBMR 2H - with two coils

## General parameters

						S1/S2 m <sup>2</sup>	S1/S2 L	S1i/S1o mm Rp1"	S2i/S2o mm Rp1"
300	1410/1460	1410/1460	ø550/750	6-10		0.9/0.4	5.6/2.6	640/240	1170/ 970
500	1700/1750	1700/1750	ø650/850	10-17		1.6/1.1	9.8/6.6	689/239	1451/1121
800	1838/1888	1838/1888	ø790/990	15-27		2.3/1.71	14/10.5	785/290	1550/1190
1000	2039/2089	2039/2089	ø790/990	18-33		2.48/1.71	15.2/10.5	830/290	1750/1390
1500	2140/2290	2140/2290	ø1000/1200	27-50		3.4/1.93	20.65/11.85	939/339	1821/1506
2000	2131/2181	2131/2181	ø1200/1400	36-67		4.9/2.0	30/12.4	1158/388	1768/1503
3000	2713/2763	2713/2763	ø1250/1450	46-84		4.6/3.05	27.95/18.7	1146/396	2178/1778
4000	2746/2796	2746/2796	ø1400/1600	73-133		5.2/3.5	32/21.4	1118/438	2230/1790
5000	2841/2891	2841/2891	ø1600/1800	82-151		6.1/4.2	37.2/25.6	1152/ 502	2304/1854

## Inlets / Outlets

## PBM / PBM H - without coil

				A1 mm Rp½"	A2 mm Rp½"	A3 mm Rp½"	A4 mm Rp½"	B mm Rp1½"	C1 mm Rp1½"	C2 mm Rp1½"	C3 mm Rp1½"	C4 mm Rp1½"	C5 mm Rp1½"	C6 mm Rp1½"	C7 mm Rp1½"	C8 mm Rp1½"	F mm Rp1½"
300	60	10	240	550	860	1170	860	240	240	550	550	860	860	1170	1170	1410	
500	81	12	239	643	997	1451	997	239	239	643	643	997	997	1451	1451	1700	
800	108	17	290	710	1090	1750	1090	290	290	710	710	1090	1090	1750	1750	2039	
1000	126	18	290	775	1260	1750	1260	290	290	775	775	1260	1260	1750	1750	2039	
1500	205	23	339	833	1327	1821	1260	339	339	833	833	1327	1327	1821	1821	2140	
2000	254	27	388	848	1308	1768	1308	388	388	848	848	1308	1308	1768	1768	2131	
3000	337	35	396	1037	1678	2319	1678	396	396	1037	1037	1678	1678	2319	2319	2713	
4000	474	40	438	1064	1690	2316	1690	438	438	1064	1064	1690	1690	2316	2316	2746	
5000	571	42	502	1128	1754	2380	1754	502	502	1128	1128	1754	1754	2380	2380	2841	

## Inlets / Outlets

## PBM R / PBM R H -with one coil

				A1 mm Rp½"	A2 mm Rp½"	A3 mm Rp½"	A4 mm Rp½"	B mm Rp1½"	C1 mm Rp1½"	C2 mm Rp1½"	C3 mm Rp1½"	C4 mm Rp1½"	C5 mm Rp1½"	C6 mm Rp1½"	C7 mm Rp1½"	C8 mm Rp1½"	F mm Rp1½"
300	75	10	240	550	860	1170	860	240	240	550	550	860	860	1170	1170	1410	
500	106	12	239	643	997	1451	997	239	239	643	643	997	997	1451	1451	1700	
800	144	17	290	710	1090	1750	1090	290	290	710	710	1090	1090	1750	1750	2039	
1000	164	18	290	775	1260	1750	1260	290	290	775	775	1260	1260	1750	1750	2039	
1500	257	23	339	833	1327	1821	1260	339	339	833	833	1327	1327	1821	1821	2140	
2000	329	27	388	848	1308	1768	1308	388	388	848	848	1308	1308	1768	1768	2131	
3000	406	35	396	1037	1678	2319	1678	396	396	1037	1037	1678	1678	2319	2319	2713	
4000	555	40	438	1064	1690	2316	1690	438	438	1064	1064	1690	1690	2316	2316	2746	
5000	665	42	502	1128	1754	2380	1754	502	502	1128	1128	1754	1754	2380	2380	2841	

## Inlets / Outlets

## PBM R 2 / PBM R 2 H - with two coils

				A1 mm Rp½"	A2 mm Rp½"	A3 mm Rp½"	A4 mm Rp½"	A5 mm Rp½"	B mm Rp1½"	C1 mm Rp1½"	C2 mm Rp1½"	C3 mm Rp1½"	C4 mm Rp1½"	C5 mm Rp1½"	C6 mm Rp1½"	C7 mm Rp1½"	C8 mm Rp1½"	F mm Rp1½"
300	82	10	240	550	860	1170	1037	860	240	240	550	550	860	860	1170	1170	1410	
500	124	12	239	643	997	1451	1231	997	239	239	643	643	997	997	1451	1451	1700	
800	171	17	290	710	1090	1750	1310	1090	290	290	710	710	1090	1090	1750	1750	2039	
1000	191	18	290	775	1260	1750	1510	1260	290	290	775	775	1260	1260	1750	1750	2039	
1500	287	23	339	833	1327	1821	1611	1260	339	339	833	833	1327	1327	1821	1821	2140	
2000	360	27	388	848	1308	1768	1591	1308	388	388	848	848	1308	1308	1768	1768	2131	
3000	453	35	396	1037	1678	2319	1893	1678	396	396	1037	1037	1678	1678	2319	2319	2713	
4000	609	40	438	1064	1690	2316	1939	1690	438	438	1064	1064	1690	1690	2316	2316	2746	
5000	729	42	502	1128	1754	2380	2002	1754	502	502	1128	1128	1754	1754	2380	2380	2841	

### General parameters

**L** Capacity  
**H / Hi, mm** Height without insulation / with insulation  
**øD / Di, mm** Diameter without insulation / with insulation  
**kg / kg, i** Weight without insulation / with insulation  
**kW** Recommended boiler size, connected to buffer tank

### Inlets / Outlets

**A, mm** Sensor sleeve  
**B, mm** Sleeve for Electric heating element  
**C, mm** Heat carrier  
**F, mm** Air vent sleeve

### Heat-exchanger coils

**S1** Lower coil  
**S2** Upper coil  
**S1/S2 m<sup>2</sup>** Heat exchange surface S1/S2  
**S1/S2 L** Coil capacity S1/S2  
**S1i/S1o mm Rp1"** Inlet/Outlet Lower coil S1  
**S2i/S2o mm Rp1"** Inlet/Outlet Upper coil S2