HEAT ACCUMULATION FOR HEATING SYSTEMS

TECHNICAL DESCRIPTION

The storage tank is designed to accumulate and store thermal energy from multiple heat sources for heating systems.

MATERIAL

The tank is constructed from S235JR (DIN 1.0038) carbon structural steel. The external coating provides enhanced resistance to mechanical impacts and aggressive environments.

WARRANTY

5 years

THERMAL INSULATION

PL/PVC – 100 mm polyester insulation encased in zippered PVC fabric

PU/PVC – 90 mm flexible polyurethane foam insulation encased in PVC fabric secured with straps.

PL/ABS – 100 mm polyester insulation encased in ABS plastic with plastic latches

PS/ABS – 100 mm high-efficiency rigid graphite-expanded polystyrene insulation encased in ABS plastic. Premium-class insulation, fully compliant with **ErP 2009/125/EC Directive** requirements

CUSTOM DRAW

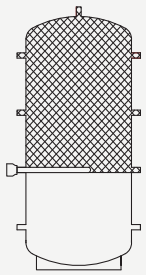
Design and production of storage tank tailored to customer specifications are available, including modifications to dimensions, connection configurations, and heat exchanger parameters.

Tank	
P	T
3 bar	95°C

Model	V tank, l	Energy efficiency class of insulation*
200	214	A
300	305	A
400	413	B
500	483	B
750	773	C
1000	1008	C
1500	1449	C
2000	2158	C

*Energy efficiency class specified for PS/ABS insulation

ACCESSORIES



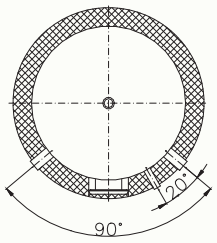
Electric heat elements

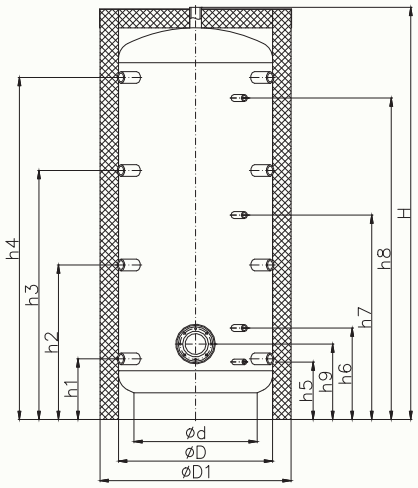
Model	Heating zone volume, liters	2 kW	3 kW	4,5 kW	6 kW	7,5 kW	9 kW	12 kW
		1~220		3~400				
		Heating time for ΔT=20°, minutes						
200	110	77	51	34	26	20	-	-
300	199	139	92	62	46	37	-	-
400	212	148	98	66	49	39	33	-
500	314	219	146	97	73	58	49	-
750	500	348	232	155	116	93	77	58
1000	650	453	302	201	151	121	101	75
1500	926	645	430	287	215	172	143	108
2000	1370	954	636	424	318	255	212	159
3000*	1944	1354	903	602	451	361	301	226
4000*	2552	1778	1185	780	593	474	395	296
5000*	3229	2250	1500	1000	750	600	500	375

For tanks with a capacity of 3000 liters and above, a transition piece is required for connecting the electric heat element

For alternative mounting of the electric heat element, a flange adapter is used

DIMENSIONS AND CONNECTION





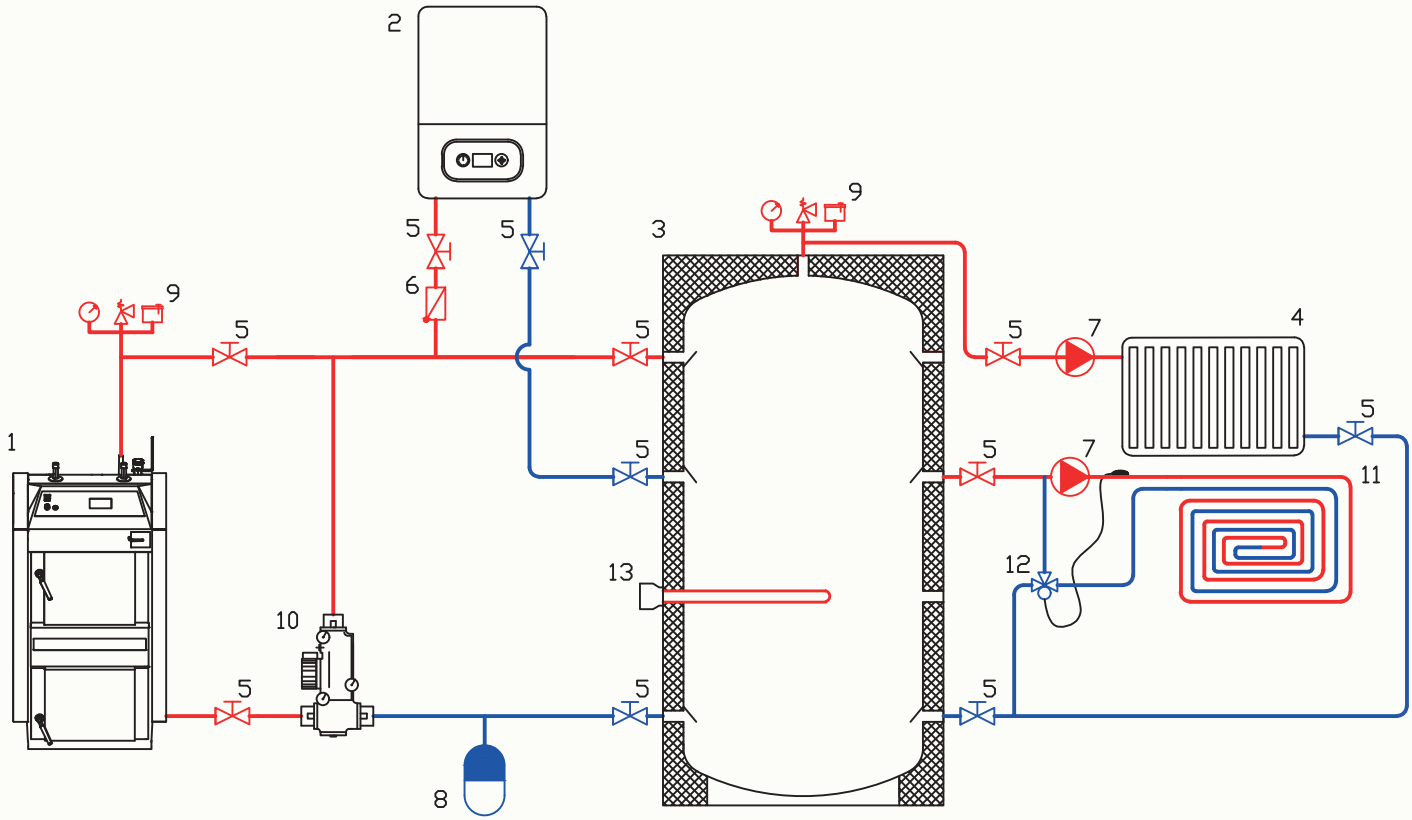
DESIGNATION

H, h1-h4	Connection of supply and return mains of heating circuits
h5	Process connection
h6-h8	Connections for temperature sensors
h9	Flange, Ø120 mm

Model	Dimensions, mm				Connection Dimensions, mm								
	∅ D1	∅ D	∅ d	H	h1	h2	h3	h4	h5	h6	h7	h8	h9
200	700	480	400	1410	244	690	-	1136	229	394	-	1014	316
					1 1/2"				1 1/2"			3/4"	
300	700	480	400	1910	244	701	1161	1614	229	394	944	1514	316
					1 1/2"					3/4"			
400	800	600	450	1700	264	834	-	1406	249	414	-	1256	336
					1 1/2"				1/2"	3/4"			
500	800	600	450	1950	264	721	1181	1634	249	414	964	1534	336
					1 1/2"				1/2"	3/4"			
750	950	750	600	2010	295	752	1212	1665	280	445	995	1565	367
					1 1/2"				1/2"	3/4"			
1000	1050	850	700	2060	323	780	1240	1693	308	473	1023	1593	395
					1 1/2"				1/2"	3/4"			
1500	1200	1000	850	2150	368	825	1285	1738	353	518	1068	1638	440
					1 1/2"				1/2"	3/4"			
2000	1400	1200	1000	2250	419	876	1336	1789	404	569	1119	1689	491
					1 1/2"				1/2"	3/4"			
3000	1600	1400	1150	2340	465	922	1382	1835	450	615	1165	1735	537
					2"				1/2"	3/4"			
4000	1800	1600	1300	2400	490	947	1407	1860	475	640	1190	1760	562
					2"				1/2"	3/4"			
5000	1800	1600	1300	2900	490	1110	1740	2360	475	640	1450	2260	562
					2"				1/2"	3/4"			
6300	2100	1900	-	2850	Configuration and Dimensions of Pipes According to Customer Request								
8000	2100	1900	-	3600									
10000	2100	1900	-	4350									

EXAMPLE OF A SCHEMATIC DIAGRAM

The schematic diagram does not replace qualified installation:
during design, relevant standards and regulations must be followed.



DESIGNATION

1	Solid fuel boiler	6	Check valve	11	"Warm floor" heating circuit
2	Gas or electric boiler	7	Circulation pump	12	Three-way valve with remote sensor for the "warm floor" system
3	VTA 4 storage tank	8	Expansion tank	13	Electric heat element
4	Radiator heating circuit	9	Safety group		
5	Ball valve	10	Thermomixing device Laddomat		