

Series Flowmax Top

Stratified Combined Tank

The stratified combined tank of series "Flowmax Top" is designed for DHW production and accumulation of heating water. On the outside storage tank various heating system can be connected such as gas or fuel boiler, woodchips and pellet boilers. Outside the tanks are protected by rust-proofing paint. The basic advantage of this product is the very efficient instantaneous production of domestic hot water. This unique characteristic is due to a stainless steel (AISI 316 L) exchanger made of 4 parallel tubes situated in the upper part of the boiler. The enormous heat exchange surface allows very big quantities of hygienic DHW production. The stratification plate inside the tank, the stratifying device and flow deflectors on every inlet and outlet provide optimum conditions for stratifying

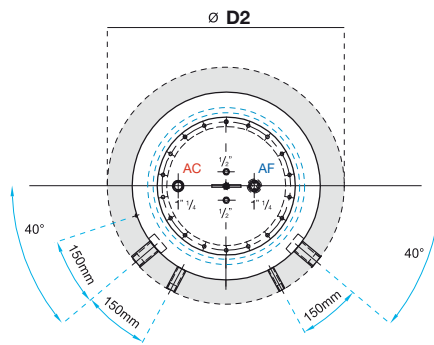
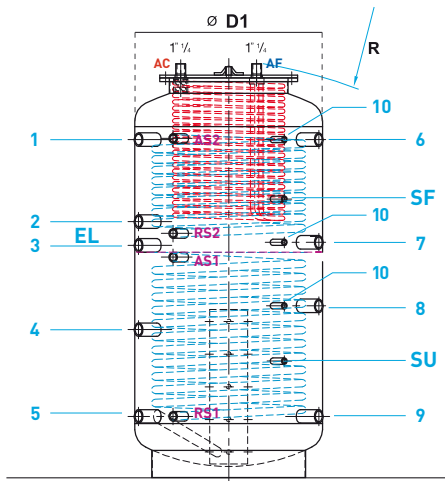
temperature. This highly developed construction allows to collect the water at the most appropriate temperature in the different points. The versions "Flowmax Top R1 and Flowmax Top R2" with high efficient coils are especially designed for solar systems. The insulation of soft polyurethane with a PVCver is delivered separately and available in various colours.

Warranty: 5 years



LEGEND

1 Biomass boiler inlet	1"½	10 Sensor for heating and solar systems	½"
2 Inlet for other heating sources	1"½	AS Solar system inlet	1"
3 Electrical resistance	1"½	RS Solar system return	1"
4 Wood boiler return	1"½	D1 Diameter without insulation	
5 Return of the room heating system	1"½	D2 Diameter with insulation	
6 Gas or fuel boiler inlet	1"½	SF Upper connection for solar sensor	½"
7 Inlet to the room heating system	1"½	SU Under connection for solar sensor	½"
8 Gas or fuel boiler return	1"½	AF Inlet cold water	1"¼
9 Return other heating sources	1"½	AC Outlet hot water	1"¼



M - without coil
R1 - with 1 coil
R2 - with 2 coils

Tank																	Solar coils					Stainless steel sanitary coil									
Type	1-6	2	3	4	5-9	7	8	Su	Sf	RS1	AS1	RS2	AS2	Ø D1	ØD2 with insulation 100 mm.	Tank height	Height with insulation 100 mm	R	Topple height without insulation	Maximum operating temperature [C°]	Maximum operating pressure [Bar]	Under coil m²	Under coil capacity (L)	Upper coil m²	Upper coil capacity (L)	Maximum operating pressure [Bar]	Coil m²	Capacity (L)	Maximum operating temperature [C°]	Maximum operating pressure [Bar]	Weight (Kg)
R2 600	1384	999	884	609	224	899	709	466	1141	224	734	1034	1384	700	900	1660	1670	1750	95°	3	1,8	11,9	1,2	7,9	10	3,74	15,18	95°	10	189	
R2 800	1421	1076	976	621	256	998	721	488	1171	256	926	1026	1426	790	990	1710	1720	1810	95°	3	2,4	15,9	1,8	11,9	10	3,74	15,18	95°	10	229	
R2 1000	1710	1250	1095	745	309	1150	845	577	1430	309	1029	1160	1700	790	990	2065	2070	2160	95°	3	3,0	19,8	2,4	15,9	10	4,28	17,26	95°	10	274	
R2 1250	1700	1240	1085	735	299	1140	835	567	1420	299	1019	1150	1690	950	1150	2045	2070	2160	95°	3	3,0	19,8	2,4	15,9	10	4,28	17,26	95°	10	299	
R2 1500	1755	1345	1215	820	375	1245	920	647	1500	375	1175	1255	1755	1000	1200	2175	2180	2280	95°	3	3,6	23,7	2,4	15,9	10	5,48	21,82	95°	10	332	
R2 2000	2024	1479	1274	889	314	1379	989	652	1704	314	1114	1414	2024	1100	1300	2413	2420	2530	95°	3	4,2	27,7	2,8	18,5	10	5,48	21,82	95°	10	406	
R1 600	1384	999	884	609	224	899	709	466	1141	224	734	-	-	700	900	1660	1670	1750	95°	3	1,8	11,9	-	-	10	3,74	15,18	95°	10	172	
R1 800	1421	1076	976	621	256	998	721	488	1171	256	926	-	-	790	990	1710	1720	1810	95°	3	2,4	15,9	-	-	10	3,74	15,18	95°	10	203	
R1 1000	1710	1250	1095	745	309	1150	845	577	1430	309	1029	-	-	790	990	2065	2070	2160	95°	3	3,0	19,8	-	-	10	4,28	17,26	95°	10	236	
R1 1250	1700	1240	1085	735	299	1140	835	567	1420	299	1019	-	-	950	1150	2045	2070	2160	95°	3	3,0	19,8	-	-	10	4,28	17,26	95°	10	261	
R1 1500	1755	1345	1215	820	375	1245	920	647	1500	375	1175	-	-	1000	1200	2175	2180	2280	95°	3	3,6	23,7	-	-	10	5,48	21,82	95°	10	291	
R1 2000	2024	1479	1274	889	314	1379	989	652	1704	314	1114	-	-	1100	1300	2413	2420	2530	95°	3	4,2	27,7	-	-	10	5,48	21,82	95°	10	370	
M 600	1384	999	884	609	224	899	709	466	1141	-	-	-	-	700	900	1660	1670	1750	95°	3	-	-	-	-	-	3,74	15,18	95°	10	148	
M 800	1421	1076	976	621	256	998	721	488	1171	-	-	-	-	790	990	1710	1720	1810	95°	3	-	-	-	-	-	3,74	15,18	95°	10	171	
M 1000	1710	1250	1095	745	309	1150	845	577	1430	-	-	-	-	790	990	2065	2070	2160	95°	3	-	-	-	-	-	4,28	17,26	95°	10	196	
M 1250	1700	1240	1085	735	299	1140	835	567	1420	-	-	-	-	950	1150	2045	2070	2160	95°	3	-	-	-	-	-	4,28	17,26	95°	10	221	
M 1500	1755	1345	1215	820	375	1245	920	647	1500	-	-	-	-	1000	1200	2175	2180	2280	95°	3	-	-	-	-	-	5,48	21,82	95°	10	243	
M 2000	2024	1479	1274	889	314	1379	989	652	1704	-	-	-	-	1100	1300	2413	2420	2530	95°	3	-	-	-	-	-	5,48	21,82	95°	10	314	

	Type	600	800	1000	1250	1500	2000
Real tank's capacity	Litres	504	670	830	1206	1398	1925
Capacity of sanitary hot water exchanger	Litres	14	14	16	16	20	20

Withdrawal of hot domestic water 15°C - 40°C - water heater's off - input KW=0

		Water heater's temperature input 63°C	600	800	1000	1250	1500	2000
Withdrawal of hot domestic water	Flow - l/m		16,7	22	15,8	-	-	-
Duration of flow	Time/Min.		21,5	15,9	26,25	-	-	-
Immediate Withdrawal	Quantity/ litres		360	350	415	-	-	-
Withdrawal of hot domestic water	Flow - l/m		31,3	34,5	42,7	37,6	31,6	-
Duration of flow	Time/Min.		7,67	7,58	7,25	14,33	22,92	-
Immediate Withdrawal	Quantity/ litres		240	262	310	540	725	-
Withdrawal of hot domestic water	Flow - l/m		-	-	-	49,7	46,7	50,2
Duration of flow	Time/Min.		-	-	-	5,67	8,67	11,75
Immediate Withdrawal	Quantity/ litres		-	-	-	282	405	590
Withdrawal of hot domestic water	Flow - l/m		-	-	-	-	55,8	68,6
Duration of flow	Time/Min.		-	-	-	-	7,67	5,83
Immediate Withdrawal	Quantity/ litres		-	-	-	-	400	400

Continuous withdrawal of hot domestic water 15°C - 45°C

		Input temperature 80°C	600	800	1000	1250	1500	2000
Water heater's power	kW		119	119	150	150	160	160
Withdrawal of hot domestic water	Quantity l/h		3420	3420	4320	4320	4608	4608
Flow of primary circuit	m³/h	3,4	3,4	4	4	4,1	4,1	
		Input temperature 70°C	600	800	1000	1250	1500	2000
Water heater's power	kW		91	91	111	111	122	122
Withdrawal of hot domestic water	Quantity l/h		2628	2628	3204	3204	3492	3492
Flow of primary circuit	m³/h	4,1	4,1	4,5	4,5	4,2	4,2	
		Input temperature 60°C	600	800	1000	1250	1500	2000
Water heater's power	kW		56	56	64	64	77	77
Withdrawal of hot domestic water	Quantity l/h		1620	1620	1836	1836	2196	2196
Flow of primary circuit	m³/h	3,3	3,3	4,3	4,3	4,5	4,5	
		Input temperature 50°C	600	800	1000	1250	1500	2000
Water heater's power	kW		15	15	21	21	28	28
Withdrawal of hot domestic water	Quantity l/h		432	432	612	612	816	816
Flow of primary circuit	m³/h	1,7	1,7	1,4	1,4	1,5	1,5	

Load loss

		600	800	1000	1250	1500	2000
Upper inside fixed coil	m²	1,2	1,8	2,4	2,4	2,4	2,8
Lower inside fixed coil	m²	1,8	2,4	3	3	3,6	4,2
Sanitary hot water exchanger	m²	3,74	3,74	4,28	4,28	5,48	5,48

