

## Series Flowmax

### Stratified Combined Tank

The stratified combined tank of series "Flowmax" is designed for DHW production and accumulation of heating water. To the big storage tank various heating system can be connected such as gas or fuel boiler, woodchips and pellet boilers. Outside the tanks are protected by rustproof paint. The domestic hot water (DHW) is produced instantaneously through a stainless steel (AISI 316 L) corrugated tube exchanger. The big diameter of the tube creates a small tank inside and the large surface allows the instantaneous production of high quantities of DHW. The stratification plate inside the tank, the stratifying device and flow deflectors on every inlet and outlet provide optimum conditions for stratifying the temperature. This highly developed construction allows

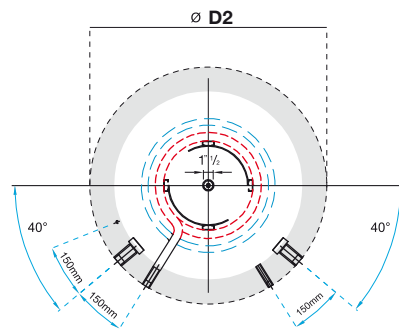
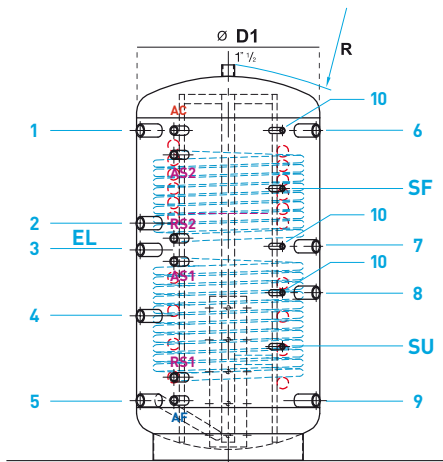
to collect the water at the most appropriate temperature in the different points. The versions "Flowmax R1 and Flowmax R2" with high efficient coils are especially designed for solar systems. The insulation of soft polyurethane with a PVC cover is delivered separately and available in various colours.

**Warranty: 5 years**



**LEGEND**

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



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	AF	AC	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 pressure [Bar]	Weight [kg]
R2	600	1384	999	884	609	224	899	709	466	1141	224	1384	324	834	934	1284	700	900	1642	1700	1670	95°	3	1,8	11,90	1,2	7,90	10	3,83	23,91	10	158
R2	800	1421	1021	906	621	256	921	721	488	1171	256	1416	356	856	956	1316	790	990	1685	1760	1740	95°	3	2,4	15,90	1,6	10,50	10	4,34	27,10	10	194
R2	1000	1710	1250	1090	745	309	1150	845	577	1430	300	1720	390	1040	1140	1640	790	990	2040	2090	2090	95°	3	3,0	19,80	2,4	15,90	10	6,12	38,26	10	240
R2	1250	1700	1240	1080	730	295	1140	830	562	1420	290	1710	380	1030	1130	1630	950	1150	2015	2060	2090	95°	3	3,0	19,80	2,4	15,90	10	6,12	38,26	10	273
R2	1500	1750	1340	1140	815	345	1240	915	630	1495	340	1760	440	1090	1190	1660	1000	1200	2151	2200	2210	95°	3	3,6	23,70	2,4	15,90	10	7,40	46,23	10	308
R2	2000	2025	1480	1265	890	315	1380	990	655	1705	315	2025	415	1215	1315	1925	1100	1300	2376	2420	2450	95°	3	4,2	27,70	2,8	18,50	10	9,95	62,16	10	401
R1	600	1384	999	884	609	224	899	709	466	1141	224	1384	324	834	-	-	700	900	1642	1700	1670	95°	3	1,8	11,90	-	-	10	3,83	23,91	10	142
R1	800	1421	1021	906	621	256	921	721	488	1171	256	1416	356	856	-	-	790	990	1685	1760	1740	95°	3	2,4	15,90	-	-	10	4,34	27,10	10	170
R1	1000	1710	1250	1090	745	309	1150	845	577	1430	300	1720	390	1040	-	-	790	990	2040	2090	2090	95°	3	3,0	19,80	-	-	10	6,12	38,26	10	205
R1	1250	1700	1240	1080	730	295	1140	830	562	1420	290	1710	380	1030	-	-	950	1150	2015	2060	2090	95°	3	3,0	19,80	-	-	10	6,12	38,26	10	238
R1	1500	1750	1340	1140	815	345	1240	915	630	1495	340	1760	440	1090	-	-	1000	1200	2151	2200	2210	95°	3	3,6	23,70	-	-	10	7,40	46,23	10	276
R1	2000	2025	1480	1265	890	315	1380	990	655	1705	315	2025	415	1215	-	-	1100	1300	2376	2420	2450	95°	3	4,2	27,70	-	-	10	9,95	62,16	10	364
M	600	1384	999	884	609	224	899	709	466	1141	224	1384	-	-	-	-	700	900	1642	1700	1670	95°	3	-	-	-	-	-	3,83	23,91	10	121
M	800	1421	1021	906	621	256	921	721	488	1171	256	1416	-	-	-	-	790	990	1685	1760	1740	95°	3	-	-	-	-	-	4,34	27,10	10	138
M	1000	1710	1250	1090	745	309	1150	845	577	1430	300	1720	-	-	-	-	790	990	2040	2090	2090	95°	3	-	-	-	-	-	6,12	38,26	10	165
M	1250	1700	1240	1080	730	295	1140	830	562	1420	290	1710	-	-	-	-	950	1150	2015	2060	2090	95°	3	-	-	-	-	-	6,12	38,26	10	198
M	1500	1750	1340	1140	815	345	1240	915	630	1495	340	1760	-	-	-	-	1000	1200	2151	2200	2210	95°	3	-	-	-	-	-	7,40	46,23	10	236
M	2000	2025	1480	1265	890	315	1380	990	655	1705	315	2025	-	-	-	-	1100	1300	2376	2420	2450	95°	3	-	-	-	-	-	9,95	62,16	10	308

	Type	600	800	1000	1250	1500	2000
<b>Real tank's capacity</b>	Litres	495	643	800	1156	1342	1874
<b>Capacity of sanitary hot water exchanger</b>	Litres	20	30	38	38	50	50

Withdrawal of hot domestic water 15°C - 40°C - water heater's off - input KW=0							
Withdrawal of hot domestic water	Water heater's temperature input 63°C	Flow - l/m	15,4	-	-	-	-
Duration of flow		Time/Min.	26,9	-	-	-	-
Immediate Withdrawal		Quantity/ litres	415	-	-	-	-
Withdrawal of hot domestic water		Flow - l/m	29,8	34	29,2	33,3	-
Duration of flow		Time/Min.	9,8	13	21,17	26,6	-
Immediate Withdrawal		Quantity/ litres	293	444	618	886	-
Withdrawal of hot domestic water		Flow - l/m	-	-	50,7	50	-
Duration of flow		Time/Min.	-	-	9,92	12,32	-
Immediate Withdrawal		Quantity/ litres	-	-	503	616	-
Withdrawal of hot domestic water	Water heater's temperature input 63°C	Flow - l/m	-	-	-	62,3	62,7
Duration of flow		Time/Min.	-	-	-	13,58	19
Immediate Withdrawal		Quantity/ litres	-	-	-	846	1193

Continuous withdrawal of hot domestic water 15°C - 45°C							
Water heater's power	Input temperature 80°C	kW	88	104	122	126	121
Withdrawal of hot domestic water		Quantity l/h	2535	2988	3505	3613	3480
Flow of primary circuit		m³/h	2	2	2	2	2
Water heater's power	Input temperature 70°C	kW	61	79	89	84	89
Withdrawal of hot domestic water		Quantity l/h	1761	2270	2495	2414	2556
Flow of primary circuit		m³/h	2	2	2	2	2
Water heater's power	Input temperature 60°C	kW	42	57	61	62	63
Withdrawal of hot domestic water		Quantity l/h	1215	1628	1752	1766	1807
Flow of primary circuit		m³/h	2	2	2	2	2
Water heater's power	Input temperature 50°C	kW	15	24	31	28	31
Withdrawal of hot domestic water		Quantity l/h	424	690	896	815	897
Flow of primary circuit		m³/h	2	2	2	2	1,9

Load loss							
Upper inside fixed coil	m²	1,2	1,6	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	3,978	6	7,514	7,514	9,945	9,945

