



Kombi

# WIKORA

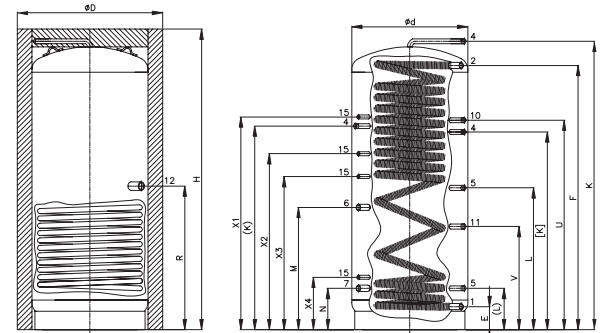
SolarSpeicherSysteme

## Stratified Solar Combi Buffer Tank WIKOSOL 803/1003/1503/2003

Design with one solar heat exchanger

**WIKORA Solar Combi Buffer Tank** with integrated stainless steel DHW heat exchanger and a high efficient solar heat exchanger in the lower range allows significant advantages. Free standing unit manufactured according to DIN 4753-1, buffer tank and solar heat exchanger are made of steel sheet (S235JRG2) in certified quality, the internal bare, the external is coated with corrosion proof lacquer. The DHW heat exchanger is made from stainless steel (1.4404) and is certified for quality.

**Heating** of the buffer water is either directly, using external heating sources such as gas/oil boilers, heat pump, wood pellet or log and District heating and indirectly by solar plant via lower solar heat exchanger. Hygienic legionella free DHW production is achieved through the high efficiency stainless steel heat exchanger.



WIKOSOL 803/1003/1503/2003

**Thermal insulation** 100 mm soft foam with stable PS-cover in white (RAL 9010). Supplied separate for onsite-assembly.

**Standard design** sockets for thermometers and sensor points, loading connections for heating water, solar system and DHW.

Type		WIKOSOL 803	WIKOSOL 1003	WIKOSOL 1503	WIKOSOL 2003
Item number		477930	479930	471503	472003
Capacity buffer	litre	790	900	1500	2000
Max working temperature tank	°C	95	95	95	95
Max working pressure DHW/solar heat exchanger	bar	10/10	10/10	10/10	10/10
Max working pressure buffer tank	bar	3	3	3	3
Capacity DHW-heat exchanger	litre	ca 45	ca 45	ca 55	ca 55
Surface of DHW-heat exchanger	m <sup>2</sup>	5,5	5,5	8,0	8,0
Surface of solar heat exchanger	m <sup>2</sup>	2,4	3,0	3,7	4,0
Capacity solar heat exchanger	litre	11,0	14,0	24,3	26,5
Insulation		100 mm PU soft foam with 1 mm PS-cover in white RAL 9010			

### Performance (tank fully loaded 65 °C/ 70 °C/hot water 45°C/cold supply 10°C)

#### Flow rate DHW

Flow rate 10 l/min buffer loaded	litre	560	595	780 (flow rate 25 l/min)	860 (flow rate 25 l/min)
Flow rate 20 l/min buffer loaded	litre	510	535	520 (flow rate 40 l/min)	572 (flow rate 40 l/min)
Flow rate 10 l/min buffer partially loaded	litre	360	375	345 (flow rate 25 l/min)	380 (flow rate 25 l/min)
Flow rate 20 l/min buffer partially loaded	litre	275	285	438 (flow rate 20 l/min)	485 (flow rate 20 l/min)
Max domestic throughput buffer loaded	litre/hr	1500	1950	2880	3180
Aux boiler output	kW	65	80	117	129
Flow rate	m <sup>3</sup> /hr	3,3	3,8	4,2	4,5
Buffer partially loaded	litre/hr	930	1200	1280	1410
Aux boiler output	kW	40	50	52	57
Flow rate	m <sup>3</sup> /hr	1,7	1,9	1,3	2,5
Nominal load NL (DIN 4708)		ca. 3,2	ca. 4,0	ca. 4,5	5,1

#### Dimensions

Diameter with insulation	D	mm	990	1050	1200	1400
Diameter without insulation	d	mm	790	850	1000	1200
Height cold water connection	E	mm	157	165	200	250
Height hot water connection	F	mm	1797	1775	1880	1770
Height with insulation	H	mm	2050	2020	2200	2150
Tilting dimension	W	mm	2050	2020	2220	2180
Height auxiliary boiler inlet	K	mm	1962 (1385)[1345]	1937 (1385)[1345]	2125 (1420)[1390]	2065 (1475)[1380]
Height auxiliary boiler return	L	mm	965 (282)	965 (280)	1030	1020
Height solar flow	M	mm	832	930	935	935(1560)
Height solar return	N	mm	282	280	350	395(1200)
Height plug electric heater	R	mm	977	980	990	990
Height heating circuit flow	U	mm	1425	1425	1510	1500
Height heating circuit return	V	mm	702	700	765	755
Height sensor socket 1	X1	mm	1447	1450	1530	1475
Height sensor socket 2	X2	mm	1197	1180	1285	1275
Height sensor socket 3	X3	mm	1042	1010	1105	1095
Height sensor socket 4	X4	mm	357	360	425	470

#### Connections

Cold/ hot water	1/2	Rp	1	1	1	1
Heating circuit flow/return	4/5	R	1	1	2	2
Aux boiler flow/return	10/11	R	1	1	2	2
Solar flow/return	6/7	Rp	1	1	1	1
Plug for electric heater	12	Rp	6/4	6/4	6/4	6/4
Sensor socket	15	Dia	12,5	12,5	12,5	12,5
Drain	(5)	R	1	1	2	2
<b>Weight (empty)</b>		kg	ca 250	270	380	470

R = male thread (inch), Rp = female thread (inch)