

# Enamelled drinking water storage tank

## TWS-2W

**Material:** S235JR steel, enamelled in accordance with DIN 4753 (TÜV-tested)

**Insulation:** 75 mm up to type 500 = firmly foamed PU or HVI insulation and removable foil jacket in RAL 9006 silver (pre-assembled); from type 800 with removable 120 mm GREEN LINE insulation with foil jacket in RAL 9006 silver (applied to 100 mm) and 100 mm cover insulation

**Operating temperature:** Heat exchanger max. 130 °C, drinking water max. 95°C

**Operating pressure:** Heat exchanger max. 16 bar, drinking water max. 10 bar

**Equipment:** two 1" smooth tube heat exchangers, one 1¼" magnesium anode, height-adjustable adjustable feet up to type 500, analogue thermometer, inspection opening with flange or 1½" IT depending on model version

TWS-2W		200	300		400		500		800	1000
Nominal volume	Litres	199	291	291	391	391	493	493	780	901
Useful volume	Litres	186	273	273	370	370	469	469	745	866
Energy efficiency class*		A	A	B	A	B	A	B	C	C
Heat retention loss * <sup>1</sup>	W	44	49	69	55	76	58	83	135	143
	kWh/d	1,05	1,18	1,65	1,31	1,82	1,4	1,99	3,24	143
Heat exchanger area, below	m <sup>2</sup>	1	1,4	1,4	1,8	1,8	2	2	2,8	2,8
Heat exchanger content, below	Litres	5,8	8,1	8,1	10,5	10,5	11,6	11,6	16,3	16,3
Heat exchanger below, tapping capacity* <sup>2</sup>	l/h	710	970	970	1180	1180	1400	1400	2470	2690
	Key performance indicator NL* <sup>3</sup> , below	3,9	8,4	8,4	15,2	15,2	18,9	18,9	35	41
Heat exchanger area, top	m <sup>2</sup>	0,7	1	1	1	1	1,2	1,2	1,9	1,9
Heat exchanger content, top	Litres	4,1	5,8	5,8	5,8	5,8	7,0	7,0	11,0	11,0
Heat exchanger top, tapping capacity* <sup>2</sup>	l/h	580	605	605	720	720	830	830	1220	1220
	Key performance indicator NL* <sup>3</sup> , top	1,4	1,9	1,9	2,1	2,1	2,5	2,5	14	14
Diameter without insulation	mm	-	-	-	-	-	-	-	790	790
Diameter with insulation	mm	660	660	660	760	760	810	810	990	990
Height without insulation	mm	-	-	-	-	-	-	-	1677	2027
Height with insulation	mm	1280	1730	1730	1600	1600	1680	1680	1752	2102
Tilt dimension	mm	1440	1852	1852	1771	1771	1865	1865	1730	2065

Item no.	380226	380229	380228	380232	380231	380235	380234	380238	380239
----------	--------	--------	--------	--------	--------	--------	--------	--------	--------



\* Classification according to Regulation (EU) 812/2013; Regulation (EU) 811/2013 in efficiency classes

\*<sup>1</sup> in accordance with DIN EN 12897: 2016 (partial test based on)

\*<sup>2</sup> 10°C Cold water/80°C flow/45°C tap temperature

\*<sup>3</sup> 10°C Cold water/60°C cylinder temperature/45°C tap temperature; To achieve the specified NL figure, the boiler output must be greater than the Specified continuous power



Hot water



Solar thermal systems



Gas calorific value



Oil calorific value



Wood / pellets / solid fuels



District heat



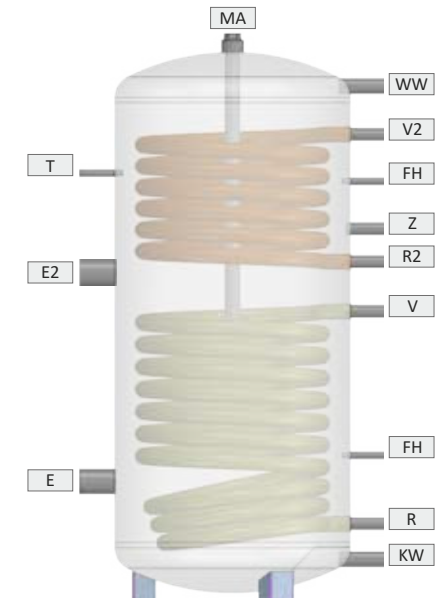
Heating inserts

**Connections:**

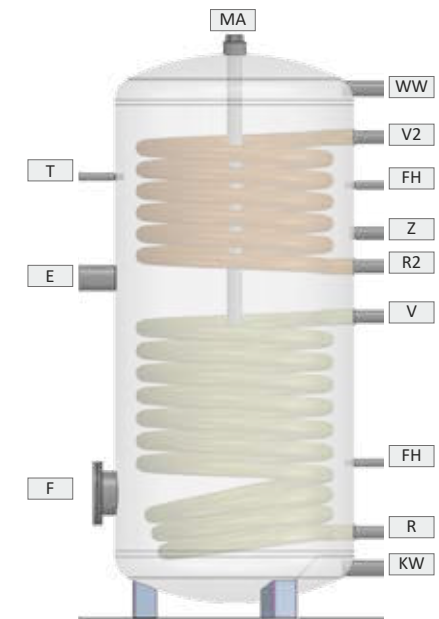
TWS-2W	200	300 EEK A	300 EEK B	400	500	800	1000
Connection sizes							
KW	1" IT	1" IT	1" IT	1" IT	1" IT	1¼" IT	1¼" IT
WW	1" IT	1" IT	1" IT	1" IT	1" IT	1¼" IT	1¼" IT
Z	1" IT	1" IT	1" IT	1" IT	1" IT	1" IT	1" IT
R	1" IT	1" IT	1" IT	1" IT	1" IT	1" IT	1" IT
R2	1" IT	1" IT	1" IT	1" IT	1" IT	1" IT	1" IT
V	1" IT	1" IT	1" IT	1" IT	1" IT	1" IT	1" IT
V2	1" IT	1" IT	1" IT	1" IT	1" IT	1" IT	1" IT
F	-	-	TK 180	TK 180	TK 180	TK 260	TK 260
E	1½" IT	1½" IT	1½" IT	1½" IT	1½" IT	1½" IT	1½" IT
E1	-	1½" IT	-	-	-	-	-
Connection height in mm							
KW	105	105	105	120	125	180	180
WW	1126	1588	1588	1446	1546	1526	1876
Z	831	1091	1091	1067	1148	1130	1427
R	230	230	230	243	261	327	327
R2	751	991	991	943	1048	990	1297
V	590	745	745	803	821	867	867
V2	991	1351	1351	1263	1368	1350	1657
F	-	-	250	263	271	412	412
E	250	250	835	863	926	927	927
E2	-	835	-	-	-	-	-
max. installation depth of heating insert in mm							
F	-	-	360	450	450	710	710
E	420	420	420	550	650	750	750
E2	-	450	-	-	-	-	-

- one thermometer connection: Ød 9 mm (basic sleeves Ød 13 mm)
- two sensor sleeves: Ød 9 mm (basic sleeves Ød 13 mm)

<b>KW</b> Cold water	<b>R</b> Return flow Heat exchanger below	<b>E</b> Sleeve for electric heater
<b>WW</b> Hot water	<b>R2</b> Return flow Heat exchanger top	<b>E2</b> 2. Sleeve for electric heater
<b>Z</b> Circulation	<b>V</b> Forward flow Heat exchanger below	<b>T</b> Thermometer
<b>F</b> Blind flange	<b>V2</b> Forward flow Heat exchanger top	<b>FH</b> Sensor sleeve
		<b>MA</b> Magnesium anode



2 connection sleeves for electric heating only for TWS-2W 300 energy efficiency class A



Blind flange for TWS-2W type 300 energy efficiency class B