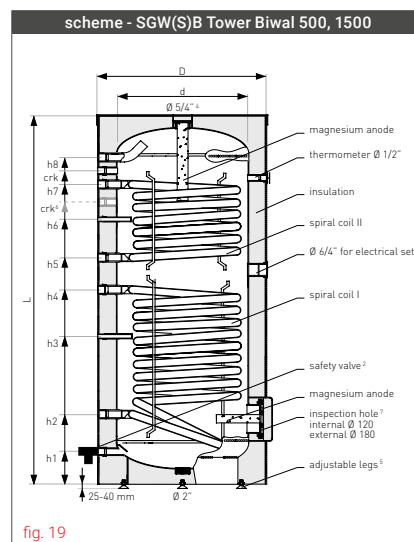
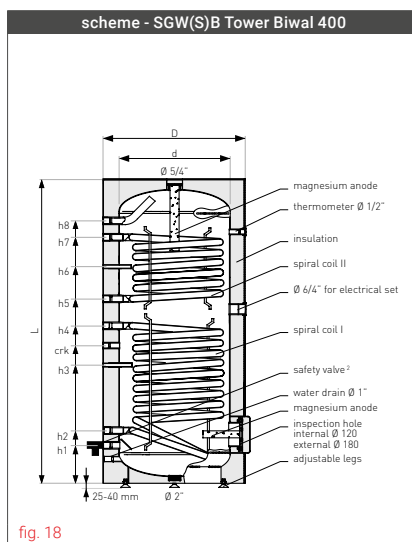
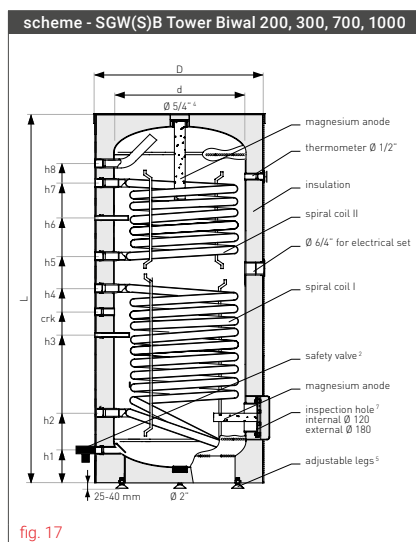


INDIRECT WATER HEATERS WITH TWO SPIRAL COILS

- TYPE SGW(S)B TOWER BIWAL

Technical specification - SGW(S)B Tower Biwal

specification	unit	SGW(S)B Tower Biwal						
		200	300	400	500	700	1000	1500
storage capacity ¹	l	197	299	395	496	683	992	1420
ErP	polyurethane foam Neodul®	B	B	C	B	C	C	C
tank's maximum working temperature	°C	95	95	95	95	95	95	95
coil's maximum working temperature	°C	110	110	110	110	110	110	110
tank's maximum working pressure	MPa	1,0	1,0	1,0	1,0	1,0	1,0	1,0
coil's maximum working pressure	MPa	1,6	1,6	1,6	1,6	1,6	1,6	1,6
coil's surface I	m ²	1,0	1,4	1,8	2,0	2,4	2,7	2,7
coil's capacity I	l	7,0	9,8	12,6	14,0	16,8	18,9	18,9
coil's power I (70/10/45°C)	kW	24	33,6	43	48	57,6	64,8	64,8
coil's efficiency I (70/10/45°C)	l/h	570	800	1030	1150	1380	1580	1580
coil's power I (80/10/45°C)	kW	32	44,8	57,6	64	76,8	86,4	86,4
coil's efficiency I (80/10/45°C)	l/h	760	1070	1380	1530	1840	2110	2110
coil's surface II	m ²	0,7	1,1	1,1	1,1	1,2	1,5	1,5
coil's capacity II	l	4,9	7,7	7,7	7,7	8,4	10,5	10,5
coil's power II (70/10/45°C)	kW	17	26,4	26,4	26,4	28,8	36	36
coil's efficiency II (70/10/45°C)	l/h	410	630	630	630	690	880	880
coil's power II (80/10/45°C)	kW	22	35,2	35,2	35,2	38,4	48	48
coil's efficiency II (80/10/45°C)	l/h	540	840	840	840	920	1150	1150
magnesium anode	top cover (5/4" plug)	mm	38x400	38x400	38x600	38x600	-	-
	top cover (2" plug)	mm	-	-	-	38x600	38x600	38x600
	insp. hole (M8 screw)	mm	38x200	38x200	38x200	38x200	38x400	38x400
h1 - cold water inflow (int. thread)	" / mm	1 / 130	1 / 130	1 / 240	1 / 180	6/4 / 215	6/4 / 250	6/4 / 250
h2 - CH water outflow I (int. thread)	" / mm	1 / 210	1 / 280	1 / 320	1 / 320	1 / 375	1 / 450	1 / 450
h3 - sensor cover I (Ø)	" / mm	3/8 / 355	3/8 / 435	3/8 / 570	3/8 / 530	3/8 / 525	3/8 / 600	3/8 / 600
crk - circulation (int. thread)	" / mm	3/4 / 450	3/4 / 650	3/4 / 770	3/4 / 1320	5/4 / 925	5/4 / 880	5/4 / 1630
h4 - CH hot water inflow I (int. thread)	" / mm	1 / 550	1 / 750	1 / 870	1 / 970	1 / 1045	1 / 1000	1 / 1000
h5 - CH water outflow II (int. thread)	" / mm	1 / 635	1 / 860	1 / 980	1 / 1090	1 / 1175	1 / 1100	1 / 1100
h6 - sensor cover II (Ø)	" / mm	3/8 / 765	3/8 / 1030	3/8 / 1150	3/8 / 1200	3/8 / 1365	3/8 / 1270	3/8 / 1270
h7 - CH hot water inflow II (int. thread)	" / mm	1 / 895	1 / 1200	1 / 1330	1 / 1440	1 / 1555	1 / 1440	1 / 1440
h8 - DHW outflow (int. thread)	" / mm	1 / 975	1 / 1355	1 / 1470	1 / 1650	6/4 / 1715	6/4 / 1570	6/4 / 2250
d - internal diameter	mm	550	550	600	630	700	900	900
D - external diameter	mm	670	670	700	755	855/860 ³	1060 ³	1100 ³
L - height	mm	1140	1615	1750	1950	2050/2080 ³	1990 ³	2680 ³
net weight	kg	88	122	157	178	267	374	492



¹ According to the (EU) 812/2013, 814/2013.
² Included with the device for self-assembly.
³ Neodul® (detachable).
⁴ For type 700, 1000 and 1500 I magnesium anode plug 2".
⁵ Applies to SGW(S)B Tower Biwal 200-500.
⁶ Applies to SGW(S)B Tower Biwal 500.
⁷ For type 700-1500 insp. hole (int. Ø 205 mm / ext. Ø 280 mm).

SGW(S)B Tower Biwal

cat. no.	type	description	EAN code
26-209000	200	two spiral coils, polyurethane foam, artificial leather, EXTRA GLASS® ceramic enamel, magnesium anode	5901224500404
26-309000N	300		5901224550805
26-409000N	400		5901224557194
26-509000N	500		5901224557248

SGW(S)B Big Tower Biwal

cat. no.	type	description	EAN code
26-709000N	700	two spiral coils, polyurethane foam, artificial leather, EXTRA GLASS® ceramic enamel, magnesium anode	5901224557422
26-709600N	700	two spiral coils, detachable Neodul® insulation, artificial leather, EXTRA GLASS® ceramic enamel, magnesium anode	5901224558627
36-109600N	1000		5901224557620
36-159600N	1500		5901224557644

Water heaters for central heating systems and solar collectors.

Advantages of the SGW(S)B Tower Biwal and Big Tower Biwal

- ▶ Bivalent water heater that can heat domestic hot water both through the CH boiler and solar collectors.
- ▶ Works with all types of boilers: pellet (f.ex. Genesis Plus KPP), oil, gas, coal, etc.
- ▶ Ability to install an electrical set - option.
- ▶ Thermometer in standard.
- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ Additional protection with magnesium anode.

For SGW(S)B water heaters we recommend using a maintenance-free active titanium anode connected to the power outlet:

- for types up to 300 (small titanium anode).
- for types 400-500 (large single titanium anode).
- for types 700-1000 (large dual titanium anode).
- for type 1500 (large dual titanium anode Maxi).

It is possible to order enamelled tanks up to 3000 (custom-made).



pic. 14
SGW(S)B
Tower Biwal



pic. 15
SGW(S)B Big Tower Biwal
in Neodul® insulation



We recommend using Galmet's **insulated electrical sets** for our water heaters - more information on page 56.



To maintain proper efficiency we recommend periodic replacement of the **magnesium anodes** - more information on page 59.



Extended life of the 100-500 water tanks (for both without and with a spiral coil, as well as for those with 2 or 3 spiral coils) thanks to the use of an anti-corrosion **DIELECTRIC PROTECTION®** in cold water, hot water and circulation connections.

* Details in the warranty card.

In case of 1000 (only Slim and SG(K) Multi-Inox versions), 1500 and 2000 tanks the Neodul® insulation is delivered in separate packaging together with the tank. In other cases, the insulation is mounted directly on the tank.

ELECTRICAL SETS

Technical specification - electrical sets with a plug

specification	unit	MB electrical sets				Selfa electrical sets		
heater power	kW	2	3	2	3	2	2	2
voltage	V	230				230		
range of working temp.	°C	20 ÷ 70				20 ÷ 70		
head thread	"	5/4				5/4	6/4	6/4
submerging length	mm	370	360	370	360	310	360	305
protection	A	16				16		
connection cable	mm ²	3 x 1				3 x 1		
cold zone	mm	55				55		
protection class	IP	44				44		
control	-	manual				manual	manual	Wi-Fi

specification	unit	Selfa Wi-Fi electrical sets	
heater power	kW	2	
voltage	V	230	
range of working temp.	°C	15 ¹ ÷ 75	
head thread	"	6/4	
submerging length	mm	305	
protection	A	16	
cold zone	mm	~65	

specification	unit	manual electrical sets			
heater power	kW	4,5	6	9	12
voltage	V	230 / 400			
range of working temp.	°C	7,5 (±6 ²) ÷ 75 (±3)			
overheating protection	°C	98 (0/-8)			
head thread	"	6/4			
submerging length	mm	400 (±10)	500 (±10)	680 (±15)	750 (±15)
protection	A	10	16	16	20
connection cable	mm ²	5 x 1,5	5 x 1,5	5 x 2,5	5 x 4
cold zone	mm	~95			
protection class	IP	44			

Technical specification - electrical sets with a Ø 180 flange

specification	unit	electrical sets with a Ø 180 flange					
heater power	kW	2	3	4,5	6	9	12
voltage	V	230~			230 / 400		
range of working temp.	°C	10 (±7) ÷ 73 (±4)			25 ÷ 70°C (±5)		
flange Ø	mm	180			180		
submerging length	mm	450	500	450	450	500	500
protection	A	16			10	16	20
connection cable	mm ²	3 x 1,5	3 x 1,5	5 x 2,5	5 x 2,5	5 x 2,5	5 x 2,5
cold zone	mm	80			80		
protection class	IP	24			24		

Technical specification - electrical sets with a Ø 280 flange

specification	unit	electrical sets with a Ø 280 flange			
heater power	kW	9	12	18	24
voltage	V	230 / 400		3/PE ~ 400V	
range of working temp.	°C	25 ÷ 77 (±5)			
flange Ø	mm	280			
submerging length	mm	500	500	650	650
protection	A	20	20	32	35
connection cable	mm²	5 x 2,5	5 x 2,5	5 x 4	5 x 6
cold zone	mm	80			
protection class	IP	24			

scheme - 2-3 kW electrical set with a plug

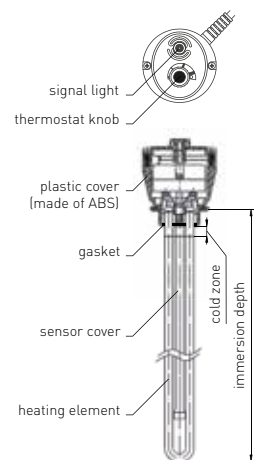


fig. 68

scheme - 4,5-9 kW electrical set with a plug

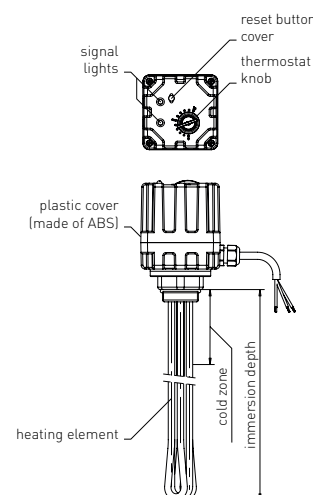


fig. 69

electrical sets with a flange

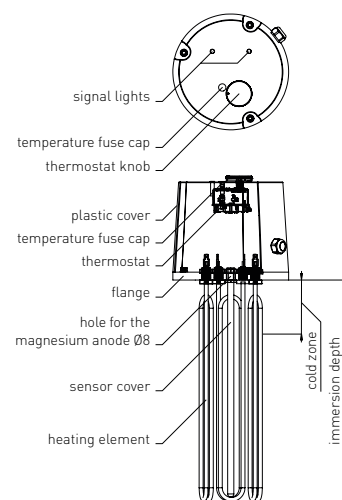


fig. 70

¹ Anti-freeze function to maintain the water temperature in the tank at +10°C.

² Anti-freeze function to maintain the water temperature in the tank at +7,5°C (±6°C).