

BUFFERS, NON-ENAMELLED VESSELS WITHOUT SPIRAL COILS - TYPE SG(B)

Technical specification of the SG(B)

specification	unit	SG(B) 200	SG(B) 300	SG(B) 400	SG(B) 500	SG(B) 800	SG(B) 1000	SG(B) 1500	SG(B) 2000	SG(B) 3000	SG(B) 4000	SG(B) 5000
storage capacity ¹	l	223	305	396	467	728	883	1479	2023	2935	3985	4981
ErP	polyurethane foam Neodul®	-	B	C	C	-	C	C	C	-	-	-
tank's maximum working pressure	MPa	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3
tank's maximum working temperature	°C	100	100	100	100	100	100	100	100	100	100	100
h1 - CH boiler water inflow - Ø 6/4"	mm	220	220	250	250	250	250	375	385	410	445	445
h2 - CH boiler water inflow - Ø 6/4"	mm	220	220	250	250	250	250	375	385	410	445	445
h3 - CH boiler water inflow - Ø 6/4"	mm	-	390	445	485	435	500	700	660	725	675	760
h4 - sensor cover/thermometer - Ø 1/2"	mm	315	500	565	565	570	570	915	800	825	790	920
h5 - CH boiler water inflow - Ø 6/4"	mm	485	560	635	715	620	740	1015	930	1040	910	1075
h6 - CH boiler water inflow - Ø 6/4"	mm	555	730	825	945	820	980	1325	1205	1360	1140	1390
h7 ³	mm	605	900	1015	1180	1020	1240	1640	1480	1680	1365	1705
h8 - sensor cover/thermometer - Ø 1/2"	mm	785	900	1015	1180	1020	1240	1640	1480	1680	1365	1705
h9 - CH boiler water inflow - Ø 6/4"	mm	785	1070	1210	1410	1215	1485	1950	1755	1995	1605	2020
h10 - CH boiler water inflow - Ø 6/4"	mm	885	1235	1400	1640	1410	1730	2260	2025	2310	1840	2335
h11 - sensor cover/thermometer - Ø 1/2"	mm	885	1235	1400	1640	1410	1730	2260	2025	2310	1840	2335
L - height	mm	1140	1480	1685	1925	1730	2050	2700	2500	2750	2355	2855
d - internal diameter	mm	550	550	600	600	790	790	900	1100	1250	1600	1600
D - external diameter	mm	670	670	700	700	950	950	1100	1300	1450	1800	1800
height while tilted	mm	-	-	-	-	1995	2270	2920	2820	3120	2970	3380
weight (without insulation and spiral coils)	kg	60	75	90	105	125	150	210	235	300	380	440

Connections are offset by an angle of 45° to the right and to the left from the front of the buffer tank. Buffers between 200 and 500 are equipped with adjustable feet, all buffers above 500 are placed on a ring.

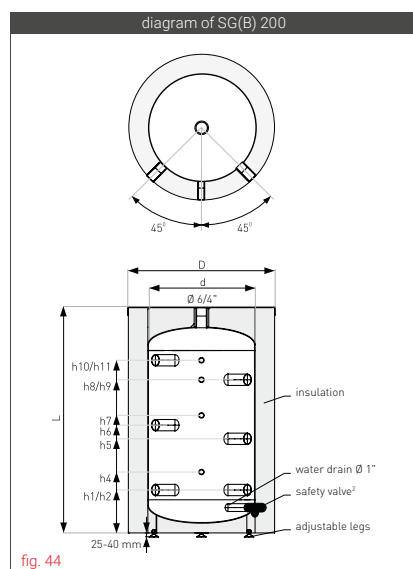


fig. 44

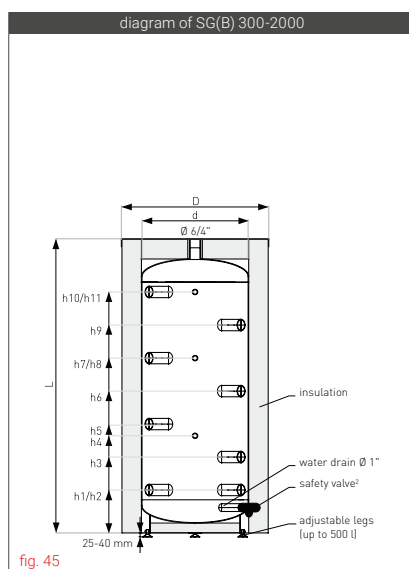


fig. 45

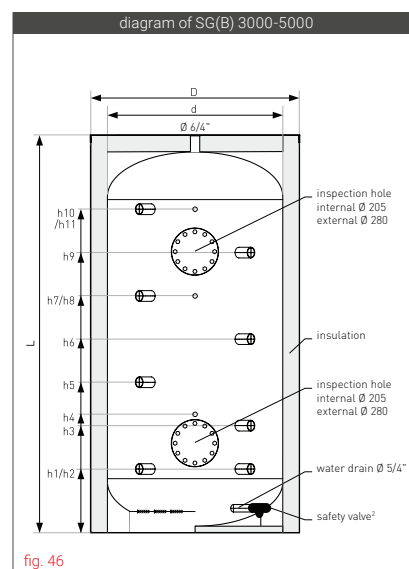


fig. 46

TINNED COPPER COILS FOR BUFFER TANKS TYPE 3000-5000

Technical specification of the tinned copper coils

coil's surface	unit	length L [mm]	external diameter d [mm]	connections diameter	connections spacing R [mm]	coil's power (90/10/45°C) [kW]	flow resistance [bar]
1,0	m ²	350	140	3/4"	70	5,4	0,25 (0,5 m ³ /h)
1,8	m ²	440	170	3/4"	70	33,6	0,23 (1,5 m ³ /h)
2,3	m ²	540	170	3/4"	70	34,2	0,30 (1,5 m ³ /h)
3,6	m ²	650	175	1"	130	100,5	0,30 (3,5 m ³ /h)
4,5	m ²	790	175	1"	130	103	0,53 (3,5 m ³ /h)

¹ For types 2000 water drain 5/4".
² According to the (EU) 812/2013, 814/2013.
³ Not included.
⁴ For type 200 sensor cover/thermometer Ø 1/2", for larger types CH boiler water inflow Ø 6/4".

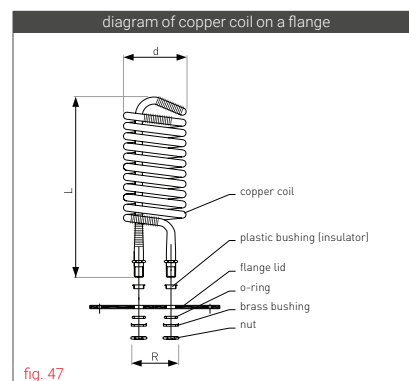


fig. 47



pic. 50
SG(B) 300 without insulation
or in detachable Neodul® insulation

SG(B) without spiral coils

cat. no.	type	non enamelled model
75-200000	200	
75-300000	300	
75-400000	400	
75-500000	500	
75-800000	800	
75-1000000	1000	without insulation
75-1500000	1500	
85-2000000	2000	
85-3000001	3000	
85-4000000	4000	
85-5000001	5000	
70-2000000	2000	
70-3000000	3000	
70-4000000	4000	in hard polyurethane foam, artificial leather / PVC film
70-5000000	5000	
70-800600	800	
70-100600	1000	
70-150600	1500	in detachable Neodul® insulation, artificial leather / PVC film
80-200600	2000	
80-300600	3000	
80-400600	4000	in detachable soft polyurethane foam, artificial leather / PVC film
80-500600	5000	

It is possible to order enamelled tanks up to 10 000 (custom-made).

Application and advantages of the SG(B)

- ▶ Water tank (buffer) for de-mineralised boiler water or glycol solution.
- ▶ Heat supply from several independent sources of heat (f.ex. CH boiler, heat pump, fireplace).
- ▶ Buffer tanks are insulated with:
 - hard polyurethane foam (type 200-500) or
 - detachable Neodul® insulation (type 800-2000) or
 - detachable soft polyurethane foam (type 3000-5000) or
 - without insulation secured only with corrosion protection paint (basic version).
- ▶ Tanks made to individual order - in case of a different configuration all the technical details (capacity, number, position and diameter of connections, etc.) are agreed upon with the technical department when a quote for the tank is being prepared.
- ▶ Maximum working pressure - 0,3 MPa (0,6 MPa on special order).
- ▶ All water connections are located on the front of the tank.

Tinned copper coils for buffer tanks SG(B) 3000-5000 for self-assembly



pic. 51
tinned copper coil

cat. no.	model
40-501110	1,0 m ² (painted flange lid Ø 280 + gasket)
40-501118	1,8 m ² (painted flange lid Ø 280 + gasket)
40-501123	2,3 m ² (painted flange lid Ø 280 + gasket)
40-501136	3,6 m ² (painted flange lid Ø 280 + gasket)
40-501145	4,5 m ² (painted flange lid Ø 280 + gasket)

* Details in the warranty card.

In case of 1000 (only Slim and 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.

White rows in tables indicate basic product range, constantly available.
Gray rows in tables indicate product range with longer production time.