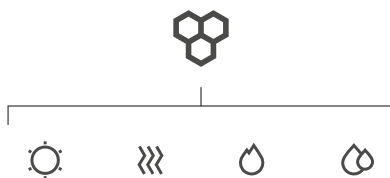




WATER HEATERS CATALOGUE FOR BUSINESS

01/2018



Leader in water heaters production in Poland



Galmet is one of the largest manufacturers of heating systems in Poland and exports its products to over 25 countries worldwide. The company is dynamically developing and consistently building its position since 1982 – from a small one-person workshop founded by the current CEO Stanislaw Galara, to a large company – one of the largest in the industry, employing over 700 people. Galmet is always at the forefront of the most modern and innovative companies, creating Polish, technologically advanced, and eco-friendly heating systems for private households, public buildings, and industrial facilities. Available in multiple configurations, the heating sets are composed exclusively of the company-produced parts, which guarantees their maximum reliability, functionality, and efficiency. Buyers of the Galmet heating systems appreciate the comfort of this solution, attractive prices, and sets' extended warranties.


**hybrid heating
systems**




**solar
systems**


**heat
pumps**


**CH
boilers**


**water
heaters**

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ELECTRIC WATER HEATERS - TYPE SG

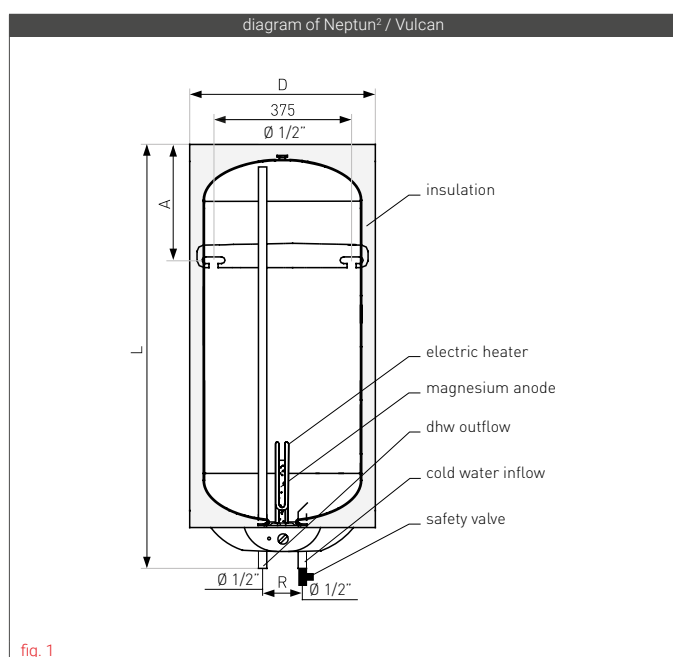
NEPTUN², VULCAN

Technical specification of the SG Neptun²

specification	unit	SG 40	SG 60	SG 80	SG 100	SG 120	SG 140
storage capacity ¹	l	40	63,2	75,5	106,2	118,2	136,3
load profile ¹	-	M	M	M	M	L	L
ErP  Neptun ² , Neptun ² Elektronik	-	C	C	C	C	C	C
Neptun ² Smart	-	B	B	B	B	B	B
voltage	V~	230	230	230	230	230	230
electric heater power	kW	1,5	1,5	1,5	1,5	2,0	2,0
tank's maximum working pressure	MPa	0,6	0,6	0,6	0,6	0,6	0,6
range of working temperatures	°C	Elektronik 5-75 (8-77 manual)					
est. time to warm up the water to 40°C	h	0,8	1,2	1,6	2,0	1,9	2,2
est. time to warm up the water to 65°C	h	1,7	2,5	3,3	4,2	3,8	4,5
magnesium anode - M8 screw	mm	25x200	25x200	25x310	25x310	25x390	25x390
L - height	mm	540	740	920	1080	1200	1340
D - diameter	mm	480	480	480	480	480	480
R - spacing	mm	100	100	100	100	100	100
dimension A	mm	185	185	185	185	185	185
net weight	kg	25,5	31,5	38	44	49	56

Technical specification of the SG Vulcan

specification	unit	SG 40	SG 60	SG 80	SG 100
storage capacity ¹	l	40	63,2	75,5	106,2
load profile ¹	-	M	M	M	M
ErP  Vulcan	-	C	C	C	C
Vulcan Elektronik Pro	-	C	C	C	C
voltage	V~	230	230	230	230
electric heater power	kW	1,5	1,5	1,5	1,5
tank's maximum working pressure	MPa	0,6	0,6	0,6	0,6
range of working temperatures	°C	Elektronik 5-75 (8-77 manual)			
est. time to warm up the water to 40°C	h	0,8	1,2	1,6	2,0
est. time to warm up the water to 65°C	h	1,7	2,5	3,3	4,2
magnesium anode - M8 screw	mm	25x200	25x200	25x310	25x310
L - height	mm	540	740	920	1080
width x depth	mm	455x455	455x455	455x455	455x455
R - spacing	mm	100	100	100	100
dimension A	mm	165	165	165	165
net weight	kg	25,5	31,5	38	44



Longer service life of the tank thanks to the **PLASTIC-SLEEVE®** technology. Special plastic element isolates the electric heater from the tank's body, which ensures the cathodic protection of the tank.

¹ According to the (EU) 812/2013, 814/2013.



pic. 1
Neptun²



pic. 2
Neptun² Elektronik
controller



pic. 3
Neptun² SMART
controller



pic. 4
Vulcan



pic. 5
Vulcan Elektronik Pro
programmer

SG Neptun²

cat. no.	type	enamelled model
01-048070	40	
01-068070	60	
01-088070	80	
01-108070	100	Neptun²
01-128070	120	
01-148070	140	

Ability to order the water heater with a Neptun² Elektronik LED display (pic. 2)
- cat. no. ends in 770, f.ex. 01-048770 (surcharge).

Ability to order the water heater with a Neptun² Smart controller with an LCD display (pic. 3) - cat. no. ends in 800, f.ex. 01-048800 (surcharge).

Advantages of the Neptun²

- ▶ Up to 50% longer service time thanks to the RESIST-TECH® protection.
- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ Magnesium anode protection.
- ▶ Precise temperature regulation.
- ▶ Also available with a self-learning SMART controller, which can save up to 16% on energy costs per year.
- ▶ Also available with an electronic LED display.

SG Vulcan

cat. no.	type	enamelled model
01-046900	40	
01-066900	60	
01-086900	80	Vulcan
01-106900	100	

Ability to order the water heater with a Vulcan Elektronik Pro programmer with an LCD display (pic. 5) - cat. no. ends in 800, f.ex. 01-046800 (surcharge).

Ability to order the SG Neptun and SG Vulcan water heaters with a universal mounting (vertical-horizontal) (surcharge) - cat. no. ends in 2, f.ex. 01-046902.¹

Advantages of the Vulcan

- ▶ SQUARE Jacket Design®.
- ▶ Up to 50% longer service time thanks to the RESIST-TECH® protection.
- ▶ Highest quality EXTRA GLASS® ceramic enamel + Mg anode.
- ▶ Weekly work scheduler.²
- ▶ Large 2,6" LCD display with the ability to adjust the backlight.²
- ▶ Ability to use the off-peak rates.²
- ▶ Digital temperature control.²
- ▶ Functions: ECO (maintaining 60°C temp.), antilegionella, antifreeze protection.²
- ▶ Service menu.²

▶ Thanks to the **RESIST-TECH®** technology, the service life of the electric water heaters is increased by up to 50%. How? By compensating electromagnetic potentials between the magnesium anode and an electric heater.¹

* Details in the warranty card.

¹ Does not apply to type 40 water heaters.

² Applies to Vulcan water heaters with Vulcan Elektronik Pro programmer.

White rows in tables indicate basic product range, constantly available.

Gray rows in tables indicate product range with longer production time.



ELECTRIC WATER HEATERS - TYPE SG VULCAN SMART

Technical specification


specification	unit	SG 40	SG 60	SG 80	SG 100	SG 120	SG 140
storage capacity ¹	l	40	63,2	75,5	106,2	118,2	136,3
load profile ¹	-	S	M	M	M	M	L
ErP  energy efficiency class	-	B	B	C	C	C	C
voltage	V~	230	230	230	230	230	230
electric heater power	kW	1,5	1,5	1,5	1,5	2,0	2,0
tank's maximum working pressure	MPa	0,6	0,6	0,6	0,6	0,6	0,6
range of working temperatures	°C	6-75					
est. time to warm up the water to 40°C	h	0,8	1,2	1,6	2,0	1,9	2,2
est. time to warm up the water to 65°C	h	1,7	2,5	3,3	4,2	3,8	4,5
magnesium anode	mm	25x200	25x200	25x310	25x310	25x390	25x390
L - height	mm	540	740	920	1080	1200	1340
width x depth	mm	455x455	455x455	455x455	455x455	455x455	455x455
R - spacing	mm	100	100	100	100	100	100
dimension A	mm	165	165	165	165	165	165
net weight	kg	25	31	35	40	49	55

diagram of Vulcan Smart

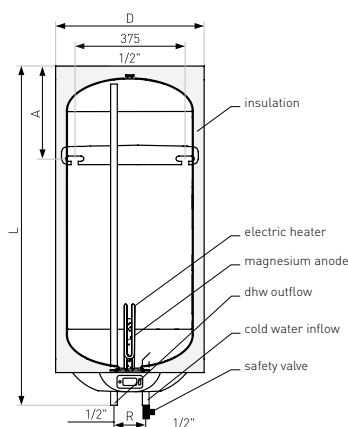


fig. 2

The Vulcan Smart water heater is equipped with a **self-learning SMART controller**, which optimizes energy and water consumption by automatically adjusting to the daily routines of its users.

BELOW-BASIN AND ABOVE-BASIN - TYPE SG CUBUS

Technical specification


specification	unit	SG Cubus
nominal capacity	l	10
load profile ¹	-	XXS
ErP  energy efficiency class	-	B
tank's maximum working pressure	MPa	0-0,6
voltage	V~	230
electric heater power	kW	1,5
range of working temperatures	°C	8-77
estimated time to warm up the water [Δt=35°C]	min	18
magnesium anode 160 mm M6 rod	mm	22x40
85 mm M6 rod	mm	-
L - height	mm	420
D - width / diameter	mm	240
W - depth	mm	250
R - spacing	mm	100
net weight	kg	8,5

diagram of SG Cubus

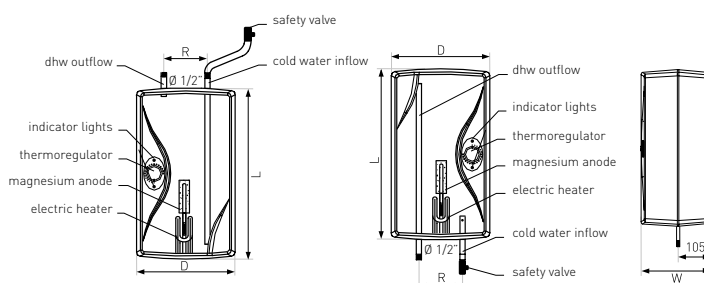


fig. 3

¹ According to the (EU) 812/2013, 814/2013.

² Not included.



pic. 6
Vulcan Smart



pic. 7
Vulcan SMART
controller

SG Vulcan Smart

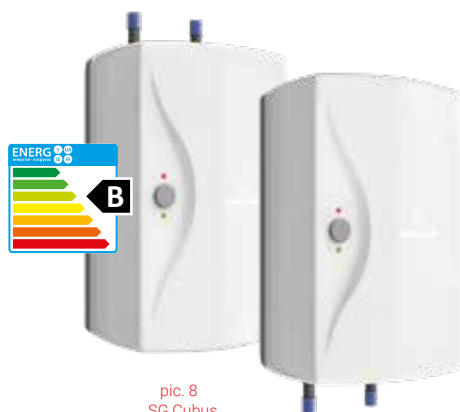
cat. no.	type	enamelled model
01-046700	40	
01-066700	60	
01-086700	80	
01-106700	100	Vulcan Smart
01-126700	120	
01-146700	140	

Ability to order the SG Vulcan Smart water heater with an universal mounting (vertical-horizontal (surcharge) - cat. no. ends in 2, f.ex. 01-066702.¹

Advantages of the Vulcan Smart

- ▶ Self-learning SMART controller (which allows you to save up to 16% on energy costs per year).
- ▶ SQUARE Jacket Design® - modern, square shaped outer casing.
- ▶ Up to 50% longer service time thanks to the RESIST-TECH® protection.
- ▶ Highest quality EXTRA GLASS® ceramic enamel + Mg anode.

Lower energy bills thanks to the self-learning SMART controller.



pic. 8
SG Cubus
below-basin

pic. 9
SG Cubus
above-basin

SG Cubus

cat. no.	type	enamelled model
01-010270	10	SG Cubus below-basin, non-pressure type
01-010470	10	SG Cubus above-basin, non-pressure type

Advantages of the SG Cubus

- ▶ Small dimensions and the possibility of mounting both above and below the sink.
- ▶ Can work as a pressure type heater (after purchasing a safety valve) or non-pressure type (to work with a three-way pressure-less battery).
- ▶ The heater is of non-pressure type by default (to work with a three-way pressure-less battery).
- ▶ Highest quality EXTRA GLASS® ceramic enamel + Mg anode.

Accessories

cat. no.	model
M-004042	hose to above-basin tap (250 mm in length) 1/2": 14x1
M-000008	above-basin tap - metal (no hoses)
M-000010	below-basin three-way tap (with hoses)
M-000413	safety valve 6 bar 1/2" ZB-4 Slim

The SG Cubus can work as a pressure type heater, just equip it with a safety valve and a complete pressure tap.


* Details in the warranty card.

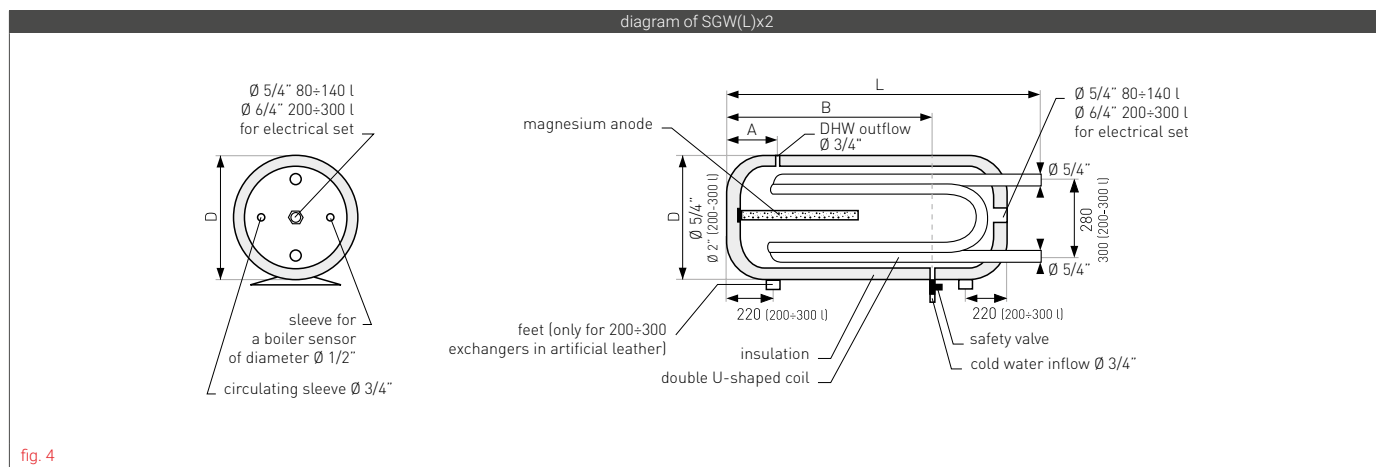
¹ Does not apply to type 40 water heaters.

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

HORIZONTAL WATER HEATERS - TYPE SGW(L)X2

Technical specification of the SGW(L)x2 with a double U-shaped coil

specification	unit	SGW(L)x2 80	SGW(L)x2 100	SGW(L)x2 120	SGW(L)x2 140	SGW(L)x2 200	SGW(L)x2 300
storage capacity ¹	l	85	103,5	114	132	204	254
ErP  polystyrene foam	-	C	C	C	C	C	C
polyurethane foam	-	C	C	C	C	-	-
tank's maximum working pressure	MPa	0,6	0,6	0,6	0,6	0,6	0,6
coil's maximum working pressure	MPa	0,6	0,6	0,6	0,6	0,6	0,6
tank's maximum working temperature	°C	100	100	100	100	100	100
coil's maximum working temperature	°C	110	110	110	110	110	110
coil's surface	m ²	0,38	0,38	0,52	0,52	0,58	0,64
coil's capacity	l	3,0	3,0	4,0	4,0	4,5	6,0
coil's power (70/10/45°C)	kW	9,15	9,15	12,5	12,5	14	15,3
efficiency	l/h	220	220	300	300	340	370
coil's power (80/10/45°C)	kW	10,4	10,4	14,2	14,2	16,0	17,4
efficiency	l/h	148/257	148/257	186/351	186/351	390	431
magnesium anode	mm	33x200	33x200	33x250	33x250	-	-
5/4" plug	mm	-	-	-	-	38x400	38x400
2" plug	mm	-	-	-	-	-	-
L - length	mm	930	1090	1200	1340	1180	1460
D - external diameter	mm	470	470	470	470	660	660
dimension A	mm	250	250	250	250	280	280
dimension B	mm	620	760	860	1015	795	1060
weight (SGW(L)x2 in polyurethane foam)	kg	30	36	41	47	78	100



¹ According to the (EU) 812/2013, 814/2013.

² Not included.



pic. 10
SGW(L)x2
in yellow polyurethane foam



pic. 11
SGW(L)x2
in black polystyrene foam



pic. 12
SGW(L)x2 200-300
in black polystyrene foam



pic. 13
electrical sets

SGW(L)x2

cat. no.	type	enamelled model
21-084800	80	with a double U-shaped coil, yellow polyurethane foam
21-104800	100	
21-124800	120	
21-144800	140	
21-088000	80	with a double U-shaped coil, black polystyrene foam
21-108000	100	
21-128000	120	
21-148000	140	

Ability to order the SGW(L)x2 water heater with all connections located at one tank bottom and an outlet to the kitchen range - cat. no. ends in 2, f.ex. 21-085402.

Advantages of the SGW(L)x2

- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ The double U-shaped coil is made from one piece of a 5/4" pipe.
- ▶ Circulation coupling as standard.
- ▶ Coupling for CH boiler sensor as standard.
- ▶ Ability to install an electrical set (list of available sets on page 11).

Mounting brackets for SGW(L)x2 80-140

cat. no.	model
40-000102	mounting brackets for SGW(L)x2 80-140 in polyurethane foam (2 pcs. in set)



Patented insulation technology makes polystyrene foam to conform to the shape of the surface of the tank, creating a uniform coating without any joints, breaks and thermal bridges.

SGW(L)x2 200-300

cat. no.	type	enamelled model
21-208000	200	with a double U-shaped coil, black polystyrene foam
21-308000	300	

Mounting brackets for SGW(L)x2 200-300

cat. no.	model
40-000400	mounting brackets for SGW(L)x2 200-300 in polyurethane foam (2 pcs. in set)

Electrical sets for self-assembly

cat. no.	model
41-020001	electrical set GE with heater 2 kW 230 V - K5/4" (I)
41-030001	electrical set GE with heater 3 kW 230 V - K5/4" (I)
41-020011	electrical set GE with heater 2 kW 230 V - K6/4" (I)
41-030011	electrical set GE with heater 3 kW 230 V - K6/4" (I)
41-045010	electrical set GE with heater 4,5 kW 400 V - K6/4"
41-060010	electrical set GE with heater 6 kW 400 V - K6/4"

We recommend using Galmet's electrical sets for our water heaters.

* Details in the warranty card.


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



DOUBLE-JACKET HORIZONTAL WATER HEATERS

TYPE SGW(L)P

Technical specification of the SGW(L)P double-jacket water heaters

specification	unit	SGW(L)P 80	SGW(L)P 100	SGW(L)P 120	SGW(L)P 140
storage capacity ¹	l	88	107	119	137
ErP  polystyrene foam	-	B	B	B	B
polyurethane foam	-	C	C	C	C
tank's maximum working pressure	MPa	0,6	0,6	0,6	0,6
maximum working pressure of the CH jacket exchanger	MPa	0,2	0,2	0,2	0,2
tank's maximum working temperature	°C	100	100	100	100
maximum working temperature of the CH jacket exchanger	°C	110	110	110	110
CH jacket exchanger's surface	m ²	0,50	0,70	0,83	1,02
CH jacket exchanger's capacity	l	5,8	8,1	9,6	11,8
coil's power (70/10/45°C)	kW	12,0	16,7	19,8	24,4
efficiency	l/h	294	408	486	600
coil's power (80/10/45°C)	kW	13,7	19,0	22,6	27,8
efficiency	l/h	339	470	559	688
demand for heating water from CH boiler	m ³ /h	1,4	1,4	1,6	1,6
magnesium anode (5/4" plug)	mm	33x200	33x200	33x250	33x250
L - length	mm	850	1000	1090	1290
D - in polyurethane foam	mm	470	470	470	470
D - in polystyrene foam	mm	505	505	505	540
dimension A	mm	170	170	170	170
dimension B	mm	265	265	265	265
dimension C	mm	560	710	810	965
dimension E	mm	665	815	915	1070
net weight (in polyurethane foam)	kg	41	47	56	65

Maximum pressure in the CH system (that is, the heating jacket) 0,2 MPa.

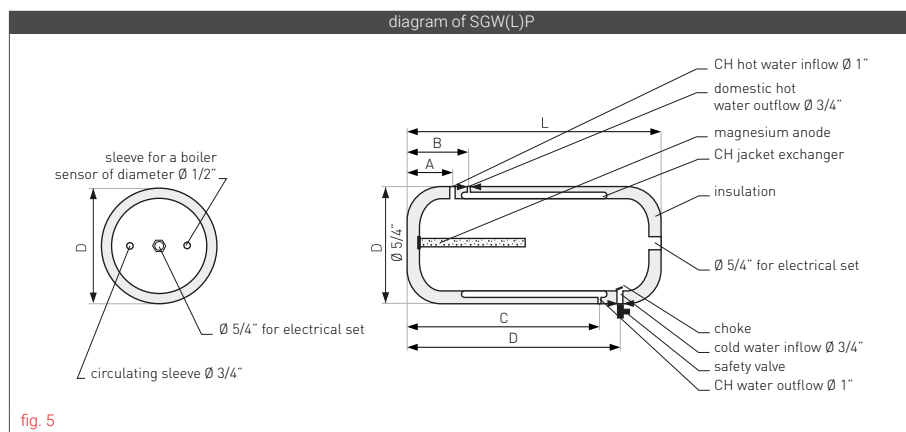


fig. 5

Advantages of the SGWL(P)

- ▶ HIGH EFFICIENCY – water is heated using a steel jacket placed on almost the entire surface of the tank.
- ▶ Highest quality EXTRA GLASS® ceramic enamel + Mg anode.
- ▶ Patented insulation technology makes polystyrene foam to conform to the shape of the surface of the tank, creating a uniform coating without any joints, breaks and thermal bridges.
- ▶ Circulation coupling as standard.
- ▶ Coupling for CH boiler sensor as standard.
- ▶ Ability to install an electrical set.

Electric heaters

specification	unit	GT					
heater power	kW	2	3	4,5	6	9	12
voltage	V	230	230	400	400	400	400
range of working temperatures	°C	20-70					
submerging length	mm	370	360	410	480	600	600
dead zone	mm	55					
		90					

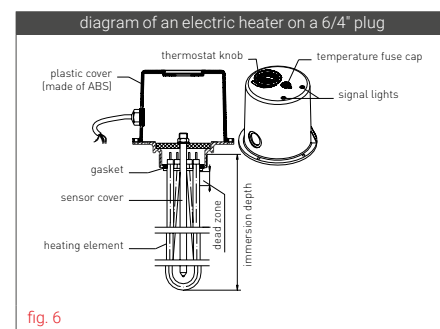


fig. 6

¹ According to the (EU) 812/2013, 814/2013.

² Not included.



pic. 14
SGW(L)P
in yellow polyurethane foam



pic. 15
SGW(L)P up to 120
in black polystyrene foam



pic. 16
mounting brackets for SGW(L)P



pic. 17
electrical sets

SGW(L)P

cat. no.	type	enamelled model
20-084700	80	yellow polyurethane foam
20-104700	100	
20-124700	120	
20-144700	140	
20-087000	80	black polystyrene foam
20-107000	100	
20-127000	120	
20-147000	140	

Longer service life of the tank thanks to the **PLASTIC-SLEEVE®** technology. Special plastic element isolates the electric heater from the tank's body, which ensures the cathodic protection of the tank.

Thanks to the **RESIST-TECH®** technology, the service life of the electric water heaters is increased by up to 50%. How? By compensating electromagnetic potentials between the magnesium anode and an electric heater. ¹

Mounting brackets and sensor covers for SGW(L)P

cat. no.	model
40-000102	mounting brackets for SGW(L)P 80-140 in polyurethane foam (2 pcs. in set)
40-000103	mounting brackets for SGW(L)P 80-120 in polystyrene foam (2 pcs. in set)
40-000104	mounting brackets for SGW(L)P 140 in polystyrene foam (2 pcs. in set)
M-006497	sensor cover (probe) L - 200 mm 1/2" - copper
M-006559	sensor cover (probe) L - 100 mm 1/2" - copper

Electrical sets for self-assembly

cat. no.	model
41-020001	electrical set GE with heater 2 kW 230 V - K5/4" (I)
41-030001	electrical set GE with heater 3 kW 230 V - K5/4" (I)
41-020011	electrical set GE with heater 2 kW 230 V - K6/4" (I)
41-030011	electrical set GE with heater 3 kW 230 V - K6/4" (I)
41-045010	electrical set GE with heater 4,5 kW 400 V - K6/4"
41-060010	electrical set GE with heater 6 kW 400 V - K6/4"

We recommend using Galmet's electrical sets for our water heaters.

* Details in the warranty card.


¹ Does not apply to heaters and electrical sets on a 5/4" plug.

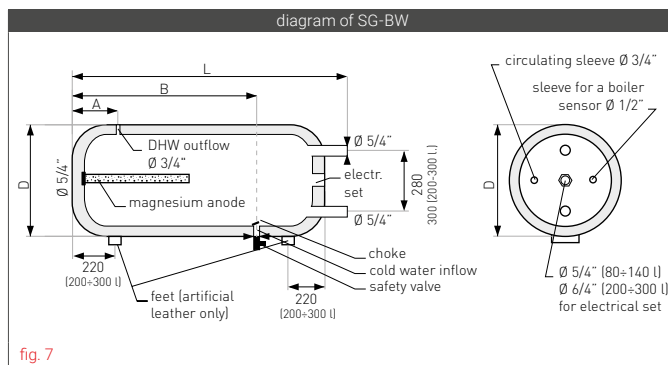
White rows in tables indicate basic product range, constantly available.
Gray rows in tables indicate product range with longer production time.



HORIZONTAL DHW TANKS WITHOUT A COIL - TYPE SG-BW


Technical specification of the SG-BW 80-140 horizontal DHW tanks without a coil

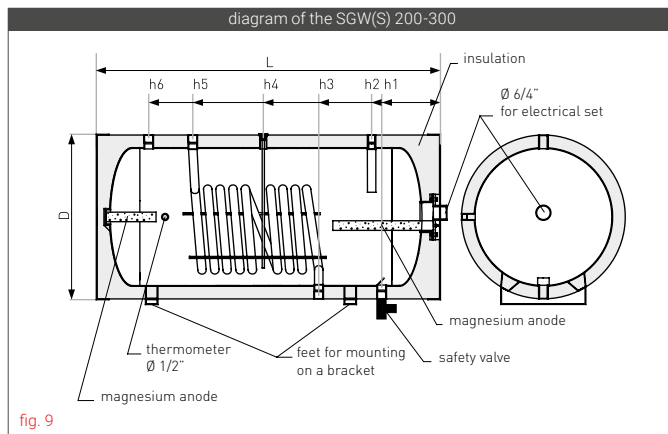
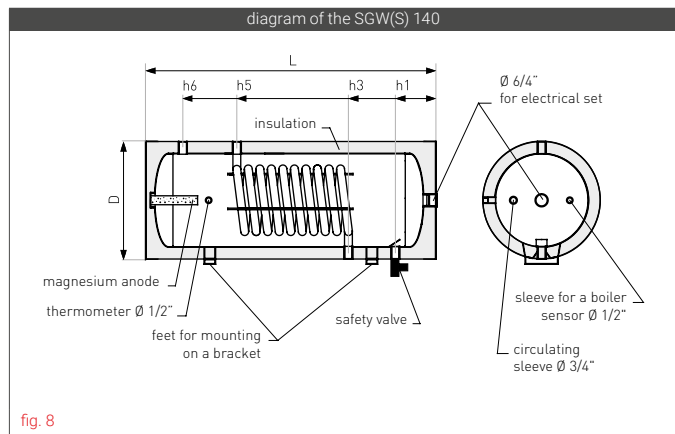
specification	unit	SG-BW 80	SG-BW 100	SG-BW 120	SG-BW 140
storage capacity ¹	l	88	107	119	137
ErP  polyurethane foam	mm	C	C	C	C
tank's maximum working pressure	MPa	0,6	0,6	0,6	0,6
tank's maximum working temperature	°C	100	100	100	100
magnesium anode	5/4" plug	33	33	33	33
	2" plug	mm	mm	mm	mm
L - length	mm	930	1090	1210	1350
D - external diameter	Ø	470	470	470	470
dimension A	mm	250	250	250	250
dimension B	mm	620	760	860	1015
net weight (in polyurethane foam)	kg	23	27	29	36



HORIZONTAL INDIRECT WATER HEATERS - TYPE SGW(S)

Technical specification of the SGW(S) 140-300 horizontal indirect waters with a spiral coil

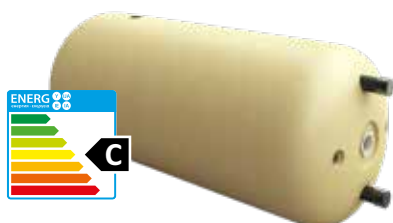
specification	unit	SGW(S) horizontal 140	SGW(S) horizontal 200	SGW(S) horizontal 300
storage capacity ¹	l	130	200	261
ErP  polyurethane foam	-	B	B	B
tank's maximum working pressure	MPa	1,0	1,0	1,0
coil's maximum working pressure	MPa	1,6	1,6	1,6
tank's maximum working temperature	°C	100	100	100
coil's maximum working temperature	°C	110	110	110
CH coil's surface	m ²	0,95	1,0	1,0
CH coil's capacity	l	6,7	7,0	7,0
CH coil's power (70/10/45°C)	kW	23	24	24
efficiency	l/h	560	570	570
CH coil's power (80/10/45°C)	kW	30,4	32	32
efficiency	l/h	740	760	760
demand for heating water from CH boiler	m ³ /h	2,6	2,9	2,9
magnesium anode	bottom 5/4" plug ³	25x390	38x200	38x200
	insp. hole M8 screw	-	38x400	38x400
h1 - cold water inflow - Ø 1"	mm	175	235	235
h2 - circulation - Ø 3/4"	mm	-	275	275
h3 - CH water outflow - Ø 1"	mm	375	315	485
h4 - sensor cover - tube Ø 10	mm	-	535	700
h5 - CH hot water inflow - Ø 1"	mm	850	815	985
h6 - DHW outflow - Ø 1"	mm	1080	895	1160
L - length	mm	1240	1130	1390
D - external diameter	mm	518	670	670
net weight (in hard polyurethane foam)	kg	70	80	115



¹ According to the (EU) 812/2013, 814/2013.

² Not included.

³ Since 01.08.2013 magnesium anode plug 5/4".



pic. 18
SG-BW in yellow polyurethane foam



fol. 19
mounting brackets for SG-BW

SG-BW without a coil

cat. no.	type	enamelled model
22-084700	80	
22-104700	100	
22-124700	120	
22-144700	140	in hard polyurethane foam

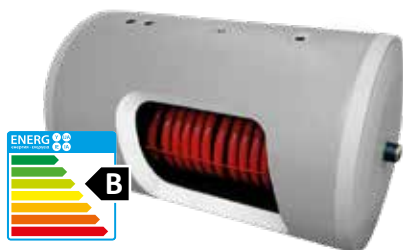
Advantages of the SG-BW

- ▶ Highest quality EXTRA GLASS® ceramic enamel + magnesium anode.
- ▶ Insulation: thick layer of hard polyurethane foam.
- ▶ Ability to install an electrical set.
- ▶ Circulation and CH boiler sensor couplings as standard.
- ▶ Ability to install an electrical set (list of available sets on page 11).

Mounting brackets for SG-BW

cat. no.	model
40-000102	mounting brackets for SG-BW 80-140 in polyurethane foam (2 pcs. in set)

EXTRA GLASS® ceramic enamel is applied by using a "wet" method - which creates a uniform coating without any joints, breaks and thermal bridges (min. 150µm), all in accordance with the DIN 4753-3 norm.



fol. 20
SGW(S) in artificial leather housing

SGW(S) with a spiral coil in hard polyurethane foam

cat. no.	type	enamelled model
27-148000	140	
27-208000	200	
27-308000	300	with a spiral coil, artificial leather / PVC film

Standard colour of the artificial leather / PVC film - grey.

We recommend using Galmet's electrical sets for our water heaters - page 11.

Advantages of the SGW(S)

- ▶ Highest quality EXTRA GLASS® ceramic enamel + magnesium anode.
- ▶ Insulation: thick layer of hard polyurethane foam.
- ▶ Ability to install an electrical set.
- ▶ Spiral coil with large surface area.
- ▶ Circulation and CH boiler sensor couplings as standard.

Mounting brackets for SGW(S)

cat. no.	model
40-000400	mounting brackets for SG-BW 200-300 in polyurethane foam (2 pcs. in set)



fol. 21
mounting brackets for SGW(S)


* SGW(S) indirect water heaters - 60 months warranty; SG-BW DHW tanks 80-140 - 72 months warranty; SG-BW 200-300 DHW tanks - 60 months warranty. Details in the warranty card.

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

INDIRECT WATER HEATERS WITH A SPIRAL COIL

TYPE SGW(S) - NEPTUN² KOMBI, MINI TOWER, VULCAN KOMBI


Technical specification of the SGW(S) Neptun² Kombi (wall-mounted)

specification	unit	SGW(S) 80	SGW(S) 100	SGW(S) 120	SGW(S) 140
storage capacity ¹	l	71,5	102,2	112	130
load profile ¹	-	M	M	L	L
ErP  energy efficiency class	-	C	C	C	C
tank's maximum working pressure	MPa	0,6	0,6	0,6	0,6
coil's maximum working pressure	MPa	0,6	0,6	0,6	0,6
tank's maximum working temperature	°C	100	100	100	100
coil's maximum working temperature	°C	110	110	110	110
coil's surface	m ²	0,6	0,6	0,95	0,95
coil's capacity	l	2,6	2,6	4,1	4,1
coil's power (70/10/45°C)	kW	16	16	23	23
efficiency	l/h	390	390	560	560
coil's power (80/10/45°C)	kW	21,1	21,1	30,4	30,4
efficiency	l/h	510	510	740	740
electric heater power	kW	1,5	1,5	2,0	2,0
range of working temperatures	°C	Elektronik 5-75 (8-77 manual)			
est. time to warm up the water to 40°C	h	1,6	2,0	1,9	2,2
demand for heating water from CH boiler	m ³ /h	2,5	2,5	2,5	2,6
magnesium anode - M8 screw	mm	25x390	25x390	25x390	25x390
h1 - CH water outflow - Ø 3/4"	mm	250	250	250	250
h2 - sensor cover - tube Ø 3/8"	mm	375	375	375	375
h3 - circulation - Ø 3/4"	mm	480	480	480	480
h4 - CH hot water inflow - Ø 3/4"	mm	650	650	750	750
L - height	mm	920	1080	1200	1340
D - external diameter	mm	480	480	480	480
R - spacing	mm	100	100	100	100
dimension A	mm	185	185	185	185
net weight	kg	51	57	64	71

Technical specification of the SGW(S) Mini Tower (free-standing)

specification	unit	SGW(S) Mini Tower 100	SGW(S) Mini Tower 120	SGW(S) Mini Tower 140
storage capacity ¹	l	102	114	129
ErP  polystyrene foam	-	C	C	C
polystyrene foam	-	B	B	B
tank's maximum working pressure	MPa	0,6	0,6	0,6
coil's maximum working pressure	MPa	0,6	0,6	0,6
tank's maximum working temperature	°C	100	100	100
coil's maximum working temperature	°C	110	110	110
coil's surface	m ²	0,6	0,95	0,95
coil's capacity	l	2,6	4,1	4,1
coil's power (70/10/45°C)	kW	16	23	23
efficiency	l/h	390	560	560
coil's power (80/10/45°C)	kW	21,1	30,4	30,4
efficiency	l/h	510	740	740
demand for heating water from CH boiler	m ³ /h	2,5	2,5	2,6
magnesium anode - 5/4" plug	mm	25x390	25x390	25x390
h1 - cold water inflow - Ø 3/4"	mm	210	165	165
h2 - CH water outflow - Ø 3/4"	mm	310	250	250
h3 - sensor cover - tube Ø 3/8"	mm	400	375	375
h4 - circulation - Ø 3/4"	mm	500	450	450
h5 - CH hot water inflow - Ø 3/4"	mm	710	750	750
h6 - DHW outflow - Ø 3/4"	mm	790	920	1070
L - height	mm	1040	1150	1290
D - external diameter	mm	518	518	518
net weight	kg	55	60	65

Technical specification of the SGW(S) Vulcan Kombi (wall-mounted and free-standing)

specification	unit	SGW(S) Vulcan Kombi 100	SGW(S) Vulcan Kombi 120	SGW(S) Vulcan Kombi 140	SGW(S) Vulcan Kombi 200
storage capacity ¹	l	101	113	140	194
ErP  energy efficiency class	-	C	C	C	C
tank's maximum working pressure	MPa	0,6	0,6	0,6	0,6
coil's maximum working pressure	MPa	0,6	0,6	0,6	0,6
tank's maximum working temperature	°C	100	100	100	100
coil's maximum working temperature	°C	110	110	110	110
coil's surface	m ²	1,2	1,2	1,2	1,6
coil's capacity	l	5,2	5,2	5,2	11,2
coil's power (70/10/45°C)	kW	29	29	29	39
efficiency	l/h	700	700	700	950
demand for heating water from CH boiler	m ³ /h	2,5	2,5	2,5	2,6
magnesium anode - 5/4" plug ⁴	mm	26x550	26x550	26x550	38x400
L - height	mm	1050	1150	1300	1190
D - width x depth	mm	455x455	455x455	455x455	650x650
A - system water	Gz	3/4"	3/4"	3/4"	1"
B - coil connections	Gz	3/4"	3/4"	3/4"	1"
R - spacing	mm	280	280	280	380
net weight	kg	57	62	67	85

¹ According to the (EU) 812/2013, 814/2013.

² Not included.

³ In 200 water heaters the thermometer is located on the heater's housing.

⁴ In the SGW(S) Vulcan Kombi (wall-mounted) the magnesium anode is mounted on a M8 screw in the lower part of the tank.

diagram of SGW(S) Neptun² Kombi 80-140 (right version)

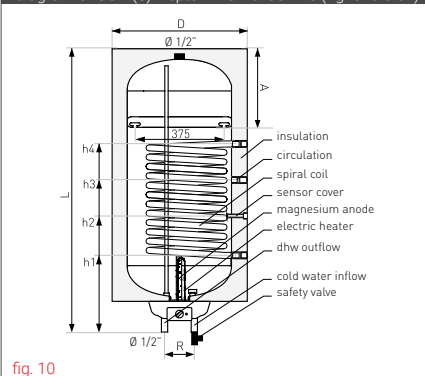


fig. 10

diagram of SGW(S) Mini Tower 100-140 (free-standing)

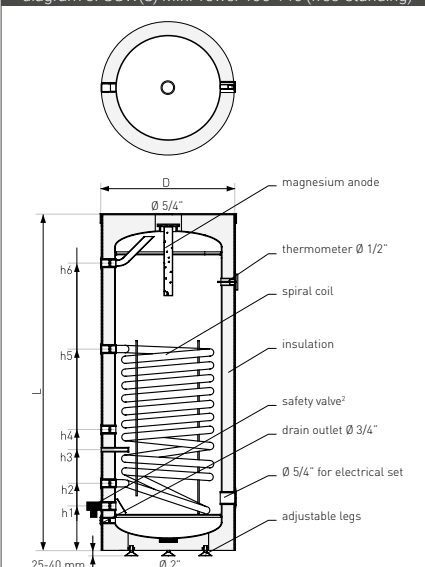


fig. 11

diagram of SGW(S) Vulcan Kombi 100-200 (free-standing)³

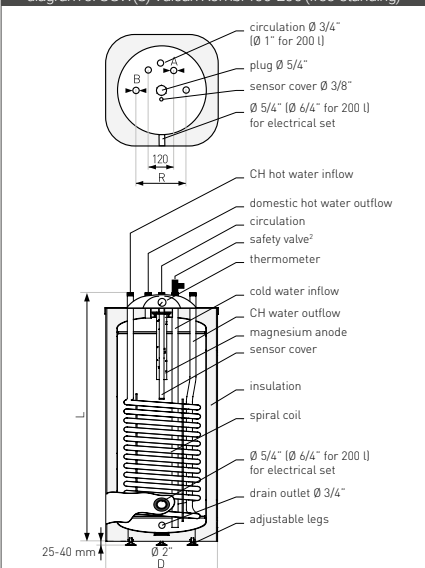


fig. 12



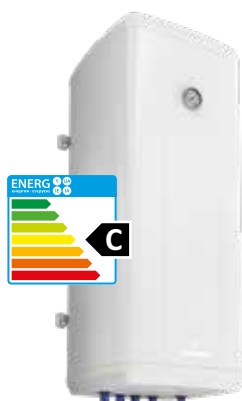
pic. 22
Neptun² Kombi (left version)



pic. 23
Neptun² Elektronik
controller



pic. 24
SGW(S) Mini Tower



pic. 25
SGW(S) Vulcan Kombi
wall-mounted 100-140



pic. 26
SGW(S) Vulcan Kombi
free-standing 100-140

SGW(S) Neptun² Kombi (wall-mounted) in polyurethane foam

cat. no.	type	enamelled model
06-084670	80	
06-104670	100	
06-124670	120	with a spiral coil, metal jacket + electric heater - right version
06-144670	140	
06-084671	80	
06-104671	100	
06-124671	120	with a spiral coil, metal jacket + electric heater - left version
06-144671	140	

Standard colour of the metal jacket - white.

Ability to order the water heater with a LED display (pic. 21) - cat. no. ends in 770 (for the right version) or 771 (for the left version), f.ex. 06-084770 (surcharge).

SGW(S) Mini Tower (free-standing) in polystyrene foam

cat. no.	type	enamelled model
26-104000	100	
26-124000	120	with a spiral coil, artificial leather / PVC film
26-144000	140	

Standard colour of the artificial leather / PVC film - grey.

SGW(S) Mini Tower (free-standing) in polyurethane foam

cat. no.	type	enamelled model
26-108000	100	
26-128000	120	with a spiral coil, artificial leather / PVC film
26-148000	140	

Standard colour of the artificial leather / PVC film - grey.

SGW(S) Vulcan Kombi (free-standing) in polyurethane foam

cat. no.	type	enamelled model
26-105500	100	
26-125500	120	
26-145500	140	with a spiral coil, metal jacket
26-205500	200	

SGW(S) Vulcan Kombi (wall-mounted) in polyurethane foam

cat. no.	type	enamelled model
26-105600	100	
26-125600	120	with a spiral coil, metal jacket
26-145600	140	

Custom-made. Available housing colours and special equipment - page 40.

Electric heater for the SGW(S) Vulcan Kombi (wall-mounted)

cat. no.	model
40-130607	electric heater 2 kW, 230V for enamelled water heater on the Ø 125 mm flange / with 5 screws (steel cover)
40-140432	heater control module SGW(S) Vulcan Kombi Elektronik 230V

We recommend using Galmet's electrical sets for our water heaters - page 11.


* Details in the warranty card.

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


WATER HEATERS FOR GAS BOILERS

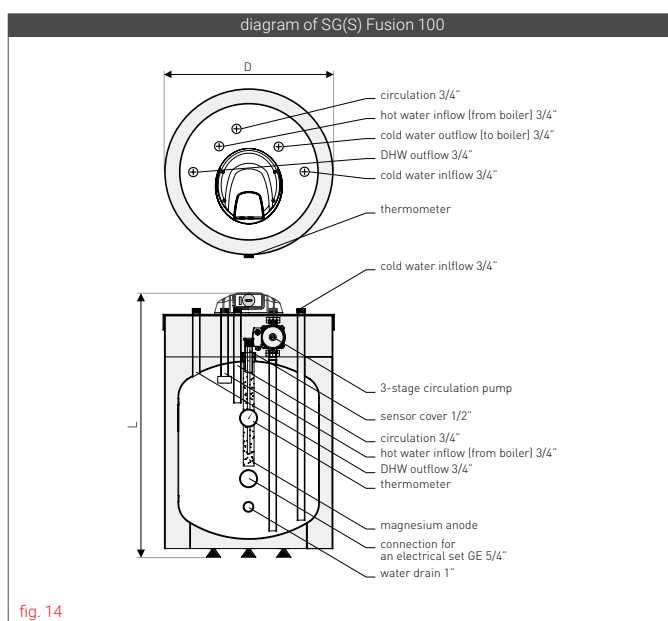
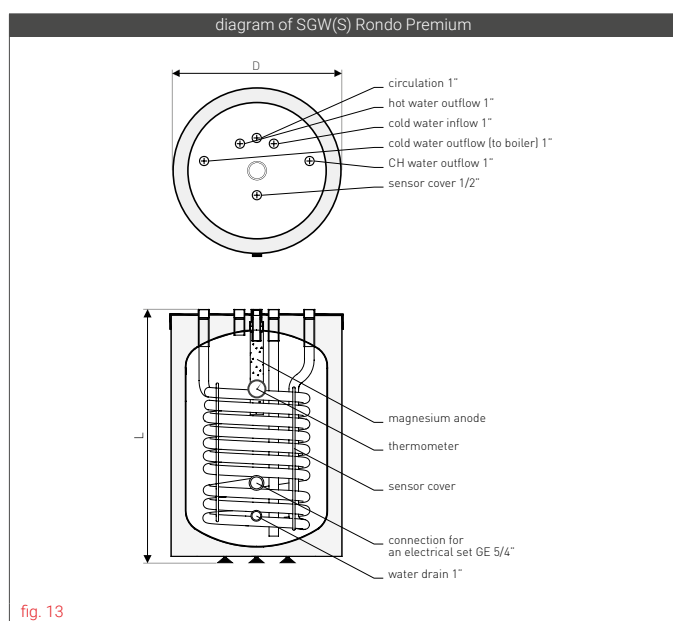
TYPE SGW(S) RONDO PREMIUM, SG(S) FUSION

Technical specification of the SGW(S) Rondo Premium

specification	unit	Rondo Premium 120	Rondo Premium 140
storage capacity ¹	l	123	139
ErP  energy efficiency class	-	A	A
tank's maximum working pressure	MPa	1,0	1,0
coil's maximum working pressure	MPa	1,6	1,6
tank's maximum working temperature	°C	100	100
coil's maximum working temperature	°C	110	110
coil's surface	m ²	1,2	1,2
coil's capacity	l	8	8
coil's power (70/10/45°C)	kW	29	29
efficiency	l/h	700	700
magnesium anode top cover 5/4" plug	mm	38x400	38x400
cold water inflow / hot water outflow	Ø	1"	1"
circulation	Ø	1"	1"
CH circuit	Ø	1"	1"
connection for an electrical set GE	Ø	5/4"	5/4"
sensor cover	Ø	1/2"	1/2"
thermometer	Ø	1/2"	1/2"
water drain	Ø	1"	1"
L - height	mm	915	1050
D - external diameter	mm	625	625
net weight	kg	75	81

Technical specification of the SG(S) Fusion

specification	unit	SG(S) Fusion 100
storage capacity ¹	l	104
ErP  energy efficiency class	-	C
tank's maximum working pressure	MPa	1,0
tank's maximum working temperature	°C	100
constant delivery of DHW $\Delta t=30K$	l/h (kW)	660 (24)
estimated time to warm up the water $\Delta t=45K$ ²	min (kW)	20 (24)
magnesium anode top cover 5/4" plug	mm	25x390
L - height	mm	900
D - external diameter	mm	600
net weight	kg	54



* Details in the warranty card.

¹ According to the (EU) 812/2013, 814/2013.

² Nominal power for DHW output of the boiler.



SGW(S) Rondo Premium

cat. no.	type	enamelled model
26-127500	120	
26-147500	140	with a spiral coil, metal jacket

Standard colour of the metal jacket - white.

Advantages of the SGW(S) Rondo Premium

- ▶ Energy efficiency class - A.
- ▶ All connections in the top cover.
- ▶ Faster heating of water thanks to the large surface area of the spiral coil.
- ▶ Works with every type of boiler: oil, gas, coal etc.
- ▶ Ability to install an electrical set GE - option.
- ▶ Thermometer in standard.
- ▶ Up to 50% longer service time thanks to the RESIST-TECH® protection.
- ▶ Highest quality EXTRA GLASS® ceramic enamel + Mg anode.



pic. 27
SGW(S) Rondo

▶ The SGW(S) Rondo Premium is designed to work with all type of boilers, in particular with a single function gas boilers. In addition, **all of its external threaded connections** are located in the **top cover**, which allows for easy and quick installation.

SG(S) Fusion

cat. no.	type	enamelled model
22-107500	100	SG(S) Fusion

Custom-made. Available housing colours and special equipment - page 40.

Advantages of the SG(S) Fusion

- ▶ Perfect fusion with your dual function gas boiler.
- ▶ Maximum utilization of the water that is stored in layers.
- ▶ Savings on gas with small water consumption.
- ▶ Short heating time.
- ▶ 3-stage circulation pump of adjustable output.
- ▶ Insulation: thick layer of polyurethane foam.
- ▶ Small dimensions.



pic. 28
SG(S) Fusion

▶ The SG(S) Fusion is designed for operation with a dual function gas boiler and storage of domestic hot water. Thanks to its **layered water distribution**, small water consumption does not start the boiler too often. This prolongs its life and allows the user to save gas.



* Details in the warranty card.

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

INDIRECT WATER HEATERS WITH A SPIRAL COIL

TYPE SGW(S) TOWER, BIG TOWER

Technical specification of the SGW(S) Tower 200-500



specification	unit	SGW(S) Tower 200	SGW(S) Tower 250	SGW(S) Tower 300	SGW(S) Tower 400	SGW(S) Tower 500
storage capacity ¹	l	197	247	265	381	446
ErP  polyurethane foam	-	B	B	B	C	C
ErP  Neodul®	-	A	A	A	B	B
tank's maximum working pressure	MPa	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
tank's maximum working temperature	°C	100	100	100	100	100
coil's maximum working temperature	°C	110	110	110	110	110
coil's surface	m ²	1,4	1,4	1,4	1,8	2,0
coil's capacity	l	9,8	9,8	9,8	12,6	14,0
coil's power (70/10/45°C)	kW	33,6	33,6	33,6	43	48
efficiency	l/h	800	800	800	1030	1150
coil's power (80/10/45°C)	kW	44,8	44,8	44,8	57,6	64
efficiency	l/h	1070	1070	1070	1380	1530
demand for heating water from CH boiler	m ³ /h	2,7	3,0	3,0	3,0	3,0
magnesium top cover 5/4" plug ³	mm	38x400	38x400	38x400	38x400	38x600
anode insp. hole M8 screw	mm	38x200	38x200	38x200	38x200	38x200
h1 - cold water inflow - Ø 1"	mm	210	210	210	240	240
h2 - CH water outflow - Ø 1"	mm	290	285	290	320	320
h3 - sensor cover - tube Ø 3/8"	mm	435	440	435	570	530
h4 - circulation - Ø 3/4"	mm	680	600	650	770	850
h5 - CH hot water inflow - Ø 1"	mm	790	755	750	870	970
h6 - DHW outflow - Ø 1"	mm	860	1085	1135	1420	1650
L - height	mm	1100/1170 ⁴	1300/1370 ⁴	1360/1430 ⁴	1660/1700 ⁴	1890/1940 ⁴
D - external diameter	mm	670/810 ⁴	670/810 ⁴	670/850 ⁴	700/800 ⁴	700/800 ⁴
net weight	kg	84	108	122	147	195

In all free-standing water heaters (from 200 to 1500) the thermometer output, 6/4" connection and an insp. hole are situated on the front of the tank, 180° away from the other connections.

Advantages of the SGW(S) Tower

- ▶ Highest quality EXTRA GLASS® ceramic enamel + magnesium anode.
- ▶ Insulation: thick layer of polyurethane foam or Neodul®.
- ▶ Ability to install an electrical set.
- ▶ Spiral coil with large surface area.

Technical specification of the SGW(S) Big Tower 700-1500

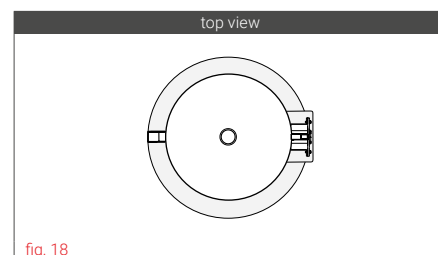
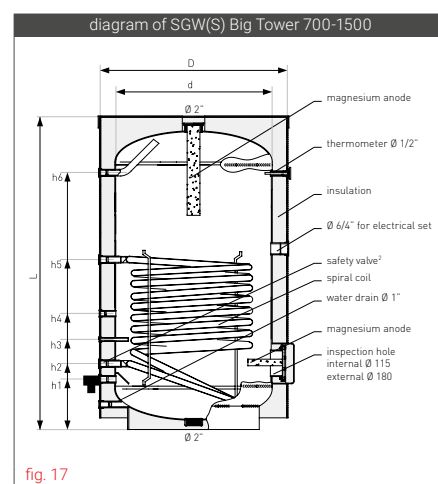
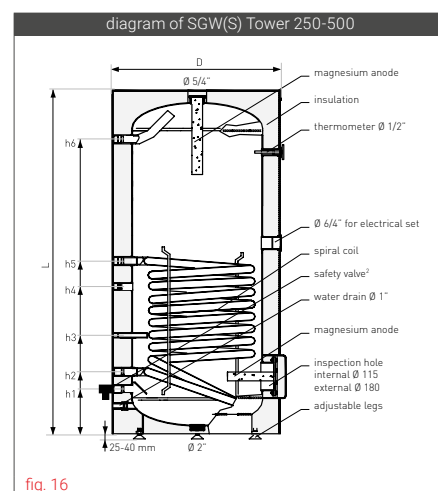
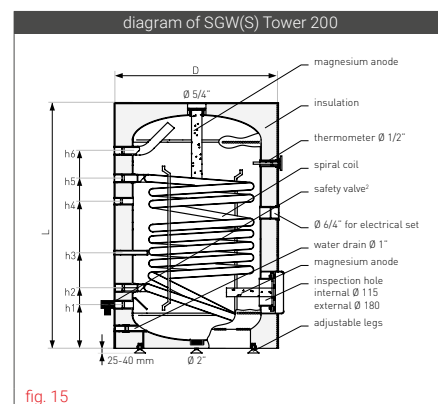
specification	unit	SGW(S) Big Tower 700	SGW(S) Big Tower 1000	SGW(S) Big Tower 1500
storage capacity ¹	l	694	1005	1433
ErP  polyurethane foam	-	C	C	-
ErP  Neodul®	-	C	C	C
tank's maximum working pressure	MPa	1,0	1,0	1,0
coil's maximum working pressure	MPa	1,6	1,6	1,6
tank's maximum working temperature	°C	100	100	100
coil's maximum working temperature	°C	110	110	110
coil's surface	m ²	2,4	2,7	2,7
coil's capacity	l	16,8	18,9	18,9
coil's power (70/10/45°C)	kW	57,6	64,8	64,8
efficiency	l/h	1380	1580	1580
coil's power (80/10/45°C)	kW	76,8	86,4	86,4
efficiency	l/h	1840	2110	2110
demand for heating water from CH boiler	m ³ /h	4,0	4,5	4,5
magnesium top cover 2" plug	mm	38x600	38x600	38x600
anode insp. hole M8 screw	mm	38x200	38x400	38x400
h1 - cold water inflow - Ø 1"	mm	305	370	370
h2 - CH water outflow - Ø 1"	mm	385	450	450
h3 - sensor cover - tube Ø 3/8"	mm	605	600	600
h4 - circulation - Ø 3/4"	mm	865	750	750
h5 - CH hot water inflow - Ø 1"	mm	985	1000	1000
h6 - DHW outflow - Ø 1"	mm	1725	1590	2270
L - height	mm	2050/2080 ⁴	1960/1990 ⁴	2680 ⁴
d - internal diameter	mm	700	900	900
D - external diameter	mm	855/860 ⁴	1055/1060 ⁴	1100
height while tilted	mm	2220	2230	2860
net weight	kg	260	415	540

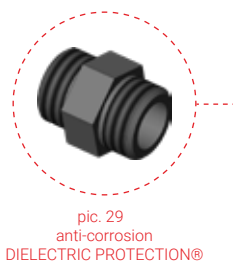
¹ According to the (EU) 812/2013, 814/2013.

² Not included.

³ Since 01.08.2013 magnesium anode plug 5/4".

⁴ Neodul® (detachable).





pic. 31
SGW(S) Tower
back view



SGW(S) Tower

cat. no.	type	enamelled model
26-208000	200	
26-258000	250	
26-308000	300	
26-408000	400	
26-504000	500	

in hard polyurethane foam, with a spiral coil, artificial leather / PVC film

Standard colour of the artificial leather / PVC film - grey.
Available housing colours and special equipment - page 40.

SGW(S) Tower in detachable Neodul® insulation (ErP A)

cat. no.	type	enamelled model
26-204600	200	
26-254600	250	
26-304600	300	

with a spiral coil, artificial leather / PVC film

SGW(S) Tower in detachable Neodul® insulation (ErP B)

cat. no.	type	enamelled model
26-408600	400	
26-504600	500	

with a spiral coil, artificial leather / PVC film

SGW(S) Big Tower in hard polyurethane foam 70 mm

cat. no.	type	enamelled model
26-704000	700	
36-104000	1000	

with a spiral coil, artificial leather / PVC film

SGW(S) Big Tower in detachable Neodul® insulation

cat. no.	type	enamelled model
26-704600	700	
36-104600	1000	
36-154600	1500	

with a spiral coil, artificial leather / PVC film

Custom-made.

For SGW(S) Tower and SGW(S) Big Tower 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 between 400 and 500 (large single titanium anode).
- for types between 700 and 1500 (large dual titanium anode).

Standard colour of the artificial leather / PVC film - grey.

Available housing colours and special equipment - page 40.

We recommend using Galmet's electrical sets for our water heaters - page 37.

For the highest DHW efficiency we recommend installing an electrical set consisting of two elements (heater + control module) in the inspection hole Ø 180 mm. The only exception are water heaters types between 700 and 1500 and of the SG(S), SGW(S) SLIM, SGW(S)B SLIM type.



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 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.



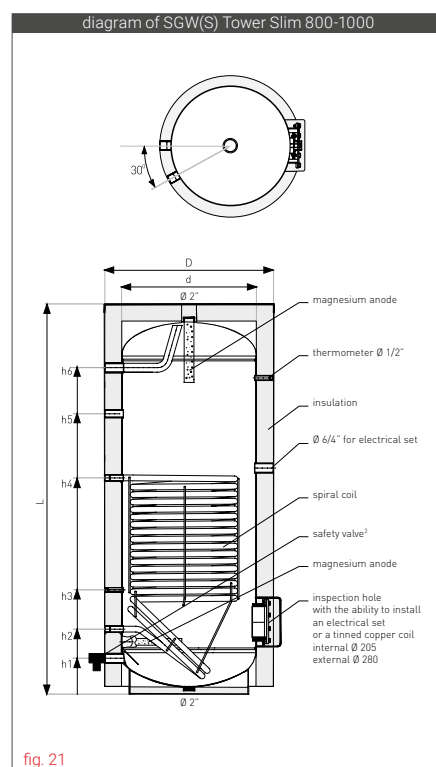
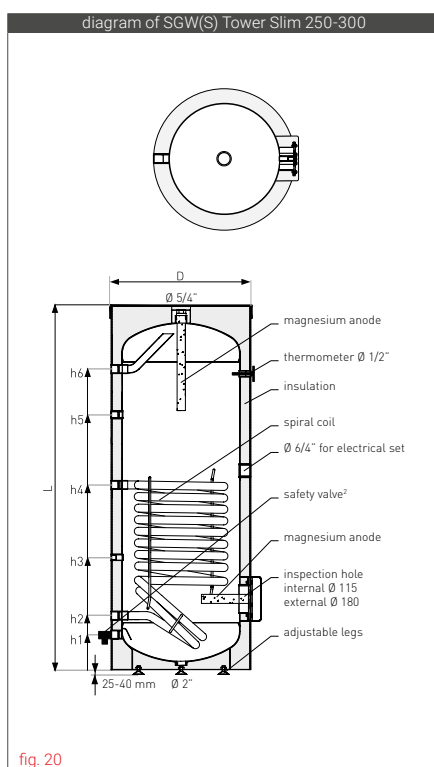
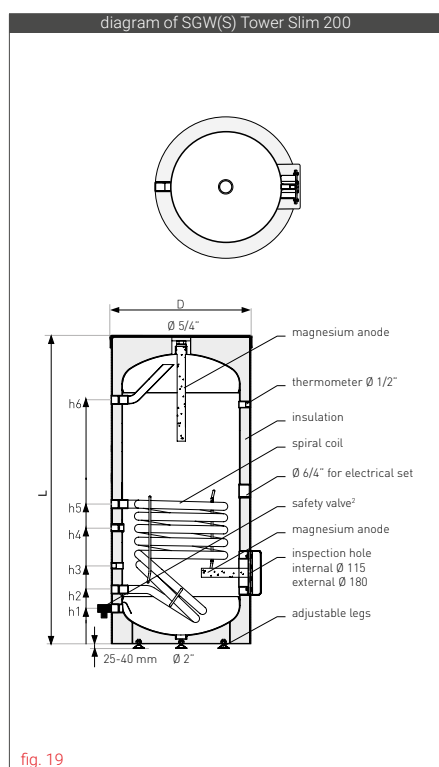
INDIRECT WATER HEATERS WITH A SPIRAL COIL

TYPE SGW(S) TOWER SLIM

Technical specification of the SGW(S) Tower Slim

specification	unit	SGW(S) Tower Slim 200	SGW(S) Tower Slim 250	SGW(S) Tower Slim 300	SGW(S) Tower Slim 800	SGW(S) Tower Slim 1000
storage capacity ¹	l	205	247	292	790	925
ErP  polyurethane foam	-	C	C	C	-	-
ErP  Neodul®	-	-	-	-	C	C
tank's maximum working pressure	MPa	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
tank's maximum working temperature	°C	100	100	100	100	100
coil's maximum working temperature	°C	110	110	110	110	110
coil's surface	m²	0,8	1,0	1,4	2,4	3,7
coil's capacity	l	5,6	7,0	9,8	16,9	25,8
coil's power (70/10/45°C)	kW	21,4	23,6	33,6	44,5	60
efficiency	l/h	526	585	814	1099	1468
coil's power (80/10/45°C)	kW	29	31,5	44,8	57	78
efficiency	l/h	714	774	1096	1393	1936
magnesium anode						
top cover 5/4" plug ³	mm	38x400	38x400	38x400	38x600	38x600
insp. hole M8 screw	mm	38x200	38x200	38x200	-	-
lower part of the tank 5/4" plug	mm	-	-	-	38x400	38x400
h1 - cold water inflow - Ø 1"	mm	150	150	150	210	210
h2 - CH water outflow - Ø 1"	mm	230	230	230	380	380
h3 - sleeve for sensor cover - Ø 1/2" ²	mm	330	415	475	610	610
h4 - circulation - Ø 3/4"	mm	490	700	900	1030	1265
h5 - CH hot water inflow Ø 1"	mm	590	1145	1145	1352	1640
h6 - DHW outflow - Ø 1"	mm	1030	1250	1500	1610	1910
L - height	mm	1300	1515	1765	1990	2300
D - external diameter	mm	600	600	600	950 ⁴	950 ⁴
net weight	kg	84	102	122	290	355

In all free-standing water heaters (from 200 to 1000) the thermometer output, 6/4" connection and an insp. hole are situated on the front of the tank, 180° away from the other connections.



¹ According to the (EU) 812/2013, 814/2013.

² Not included.

³ Since 01.08.2013 magnesium anode plug 5/4".

⁴ Detachable insulation 80 mm, internal diameter 790 mm.



pic. 33
SGW(S) Tower Slim



pic. 34
SGW(S) Tower Slim
in detachable Neodul® insulation

SGW(S) Tower Slim in hard polyurethane foam

cat. no.	type	enamelled model
26-201000	200	
26-251000	250	
26-301000	300	with a spiral coil, artificial leather / PVC film

Standard colour of the artificial leather / PVC film - grey.

Available housing colours and special equipment - page 40.

We recommend using Galmet's electrical sets for our water heaters - page 37.

SGW(S) Tower Slim in detachable Neodul® insulation

cat. no.	type	enamelled model
26-801600	800	
36-101600	1000	with a spiral coil, artificial leather / PVC film

Tinned copper coils for SGW(S) Tower Slim 800-1000 for self-assembly

cat. no.	model
40-501210	1,0 m ² (with enamelled flange Ø 280 + gasket)
40-501218	1,8 m ² (with enamelled flange Ø 280 + gasket)
40-501223	2,3 m ² (with enamelled flange Ø 280 + gasket)

Technical specifications and diagrams of tinned copper coils - page 32.

For SGW(S) Tower Slim 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 between 700 and 1000 (large dual titanium anode).

Standard colour of the artificial leather / PVC film - grey.

Available housing colours and special equipment - page 40.

Sensor cover

cat. no.	model
M-006559	sensor cover (probe) L - 100 mm 1/2" - copper



Neodul® is the new standard for the thermal insulation of hot water tanks. It is based on **polystyrene foam with admixture of graphite nano particles**. This combination reduces the heat losses compared to other types of insulation and significantly lowers the energy costs.



The first Galmet tanks were produced over 35 years ago, in a 12 m² garage. Currently, the production halls cover over **12,000 m²** and house over **500** employees.



* 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.

INDIRECT WATER HEATERS WITH TWO SPIRAL COILS (BIVALENT) - TYPE SGW(S)B TOWER BIWAL

Technical specification of the SGW(S)B Tower Biwal

specification	unit	SGW(S)B Tower Biwal				
storage capacity ¹	l	200	250	300	400	500
ErP  polyurethane foam	-	B	B	B	C	C
ErP  Neodul®	-	A	A	A	B	B
tank's maximum working pressure	MPa	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
tank's maximum working temperature	°C	100	100	100	100	100
coil's maximum working temperature	°C	110	110	110	110	110
solar collector coil's surface	m ²	1,0	1,2	1,4	1,8	2,0
solar collector coil's capacity	l	7,0	8,4	9,8	12,6	14,0
solar collector coil's power (70/10/45°C)	kW	24	29	33,6	43	48
efficiency	l/h	570	635	800	1030	1150
solar collector coil's power (80/10/45°C)	kW	32	38,4	44,8	57,6	64
efficiency	l/h	760	920	1070	1380	1530
CH coil's surface	m ²	0,7	0,7	1,1	1,1	1,1
CH coil's capacity	l	4,9	4,9	7,7	7,7	7,7
CH coil's power (70/10/45°C)	kW	17	17	26,4	26,4	26,4
efficiency	l/h	410	410	630	630	630
CH coil's power (80/10/45°C)	kW	22	22	35,2	35,2	35,2
efficiency	l/h	540	540	840	840	840
demand for heating water from CH boiler	m ³ /h	2,7	2,85	3,0	3,0	3,0
magnesium top cover plug 5/4"	mm	38x400	38x400	38x400	38x400	38x600
anode insp. hole M8 screw	mm	38x200	38x200	38x200	38x400	38x200
h1 - cold water inflow - Ø 1"	mm	130	210	210	240	240
h2 - water outflow to solar coil - Ø 1"	mm	210	290	290	320	320
h3 - sensor cover and - tube Ø 3/8"	mm	345	400	440	570	530
h4 - circulation - Ø 3/4"	mm	450	595	650	770	850
h5 - hot water inflow from solar collector - Ø 1"	mm	580	695	760	870	970
h6 - CH water outflow - Ø 1"	mm	685	795	845	980	1090
h7 - sensor cover II - tube Ø 3/8"	mm	780	900	1015	1150	1260
h8 - CH hot water inflow - Ø 1"	mm	895	1005	1190	1330	1440
h9 - DHW outflow - Ø 1"	mm	975	1085	1260	1410	1650
L - height	mm	1140/1210 ³	1300/1370 ³	1480/1550 ³	1660 / 1700 ³	1890 / 1940 ³
D - external diameter	mm	670/810 ³	670/810 ³	670/850 ³	700 / 800 ³	700 / 800 ³
net weight	kg	98	115	133	162	215

specification	unit	SGW(S)B Big Tower Biwal		
storage capacity ¹	l	700	1000	1500
ErP  polyurethane foam	-	C	C	-
ErP  Neodul®	-	C	C	C
tank's maximum working pressure	MPa	1,0	1,0	1,0
coil's maximum working pressure	MPa	1,6	1,6	1,6
tank's maximum working temperature	°C	100	100	100
coil's maximum working temperature	°C	110	110	110
solar collector coil's surface	m ²	2,4	2,7	2,7
solar collector coil's capacity	l	16,8	18,9	18,9
solar collector coil's power (70/10/45°C)	kW	57,6	64,8	64,8
efficiency	l/h	1380	1580	1580
solar collector coil's power (80/10/45°C)	kW	76,8	86,4	86,4
efficiency	l/h	1840	2110	2110
CH coil's surface	m ²	1,2	1,5	1,5
CH coil's capacity	l	8,4	10,5	10,5
CH coil's power (70/10/45°C)	kW	28,8	36	36
efficiency	l/h	690	880	880
CH coil's power (80/10/45°C)	kW	38,4	48	48
efficiency	l/h	920	1150	1150
demand for heating water from CH boiler	m ³ /h	4,0	4,5	4,5
magnesium top cover 2" plug	mm	38x600	38x600	38x600
anode insp. hole M8 screw	mm	38x400	38x400	38x400
h1 - cold water inflow - Ø 1"	mm	305	370	370
h2 - water outflow to solar coil - Ø 1"	mm	385	450	450
h3 - sensor cover I - Ø 3/8"	mm	605	600	600
h4 - circulation - Ø 3/4"	mm	865	750	750
h5 - hot water inflow from solar collector - Ø 1"	mm	985	1000	1000
h6 - CH water outflow - Ø 1"	mm	1135	1100	1100
h7 - sensor cover II - Ø 3/8"	mm	1285	1250	1250
h8 - CH hot water inflow - Ø 1"	mm	1435	1400	1400
h9 - DHW outflow - Ø 1"	mm	1725	1590	2270
L - height	mm	2050/2080 ³	1960/1990 ³	2680 ³
d - internal diameter	mm	700	900	900
D - external diameter	mm	855/860 ³	1055/1060 ³	1100 ³
height while tilted	mm	2220	2230	2860
net weight	kg	296	475	580

¹ According to the (EU) 812/2013, 814/2013.

² Not included.

³ Neodul® (detachable).

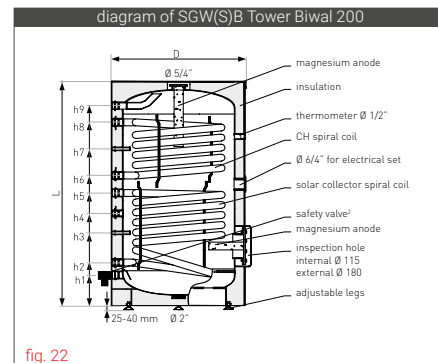


fig. 22

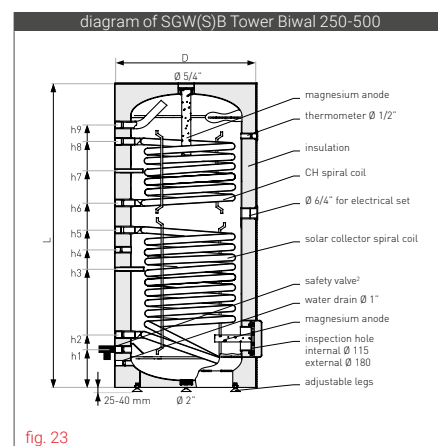


fig. 23

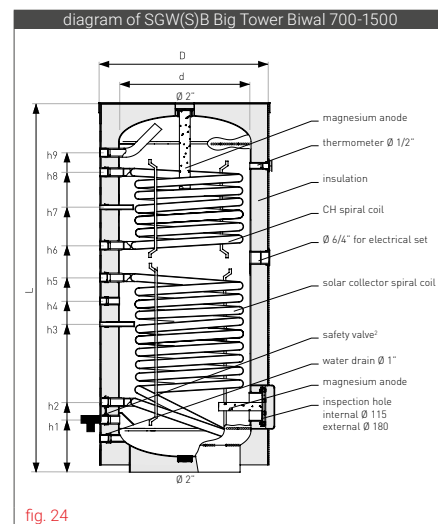


fig. 24

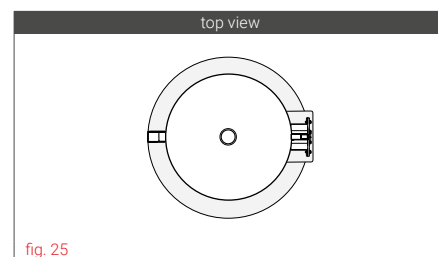


fig. 25



pic. 35
SGW(S)B
Tower Biwal



pic. 36
SGW(S)B Big Tower Biwal
in detachable Neodul® insulation

SGW(S)B Tower Biwal

cat. no.	type	enamelled model
26-209000	200	
26-259000	250	
26-309000	300	
26-409000	400	in hard polyurethane foam, with two spiral coils, artificial leather / PVC film
26-509000	500	

Standard colour of the artificial leather / PVC film - grey.

SGW(S)B Tower Biwal in detachable Neodul® insulation (ErP A)

cat. no.	type	enamelled model
26-209800	200	
26-259800	250	
26-309800	300	with two spiral coils, artificial leather / PVC film

SGW(S)B Tower Biwal in detachable Neodul® insulation (ErP B)

cat. no.	type	enamelled model
26-409600	400	
26-509600	500	with two spiral coils, artificial leather / PVC film

SGW(S)B Big Tower Biwal in hard polyurethane foam

cat. no.	type	enamelled model
26-709000	700	
36-109000	1000	with two spiral coils, artificial leather / PVC film

SGW(S)B Big Tower Biwal in detachable Neodul® insulation

cat. no.	type	enamelled model
26-709600	700	
36-109600	1000	
36-159600	1500	with two spiral coils, artificial leather / PVC film

Water heaters for central heating networks and solar collectors.

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 between 400 and 500 (large single titanium anode).
- for types between 700 and 1000 (large dual titanium anode).
- for types up to 1500 (Maxi dual titanium anode).

Standard colour of the artificial leather / PVC film - grey.

Available housing colours and special equipment - page 40.

We recommend using Galmet's electrical sets for our water heaters - page 37.

For the highest DHW efficiency we recommend installing an electrical set consisting of two elements (heater + control module) in the inspection hole Ø 180 mm. The only exception are water heaters types between 700 and 1500 and of the SG(S), SGW(S) SLIM, SGW(S)B SLIM type.

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


* 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.

INDIRECT WATER HEATERS WITH TWO SPIRAL COILS (BIVALENT) - TYPE SGW(S)B TOWER BIWAL SLIM

Technical specification of the SGW(S)B Tower Biwal Slim

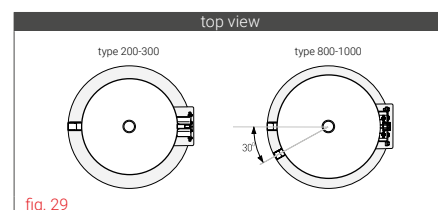
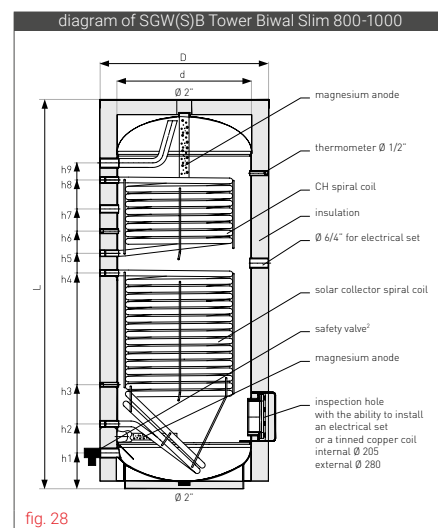
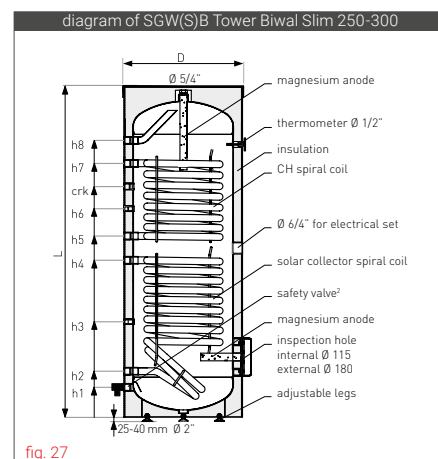
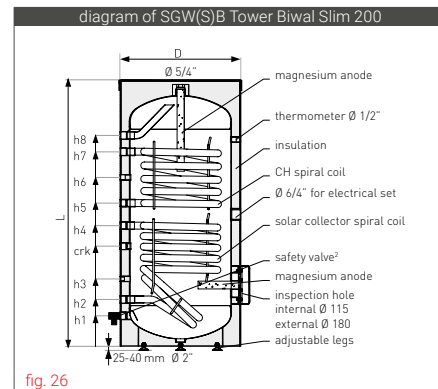
specification	unit	SGW(S)B Tower Biwal Slim		
storage capacity ¹	l	200	250	300
		199	240	286
ErP  polyurethane foam	-	C	C	C
tank's maximum working pressure	MPa	1,0	1,0	1,0
coil's maximum working pressure	MPa	1,6	1,6	1,6
tank's maximum working temperature	°C	100	100	100
coil's maximum working temperature	°C	110	110	110
solar collector coil's surface	m ²	0,8	1,0	1,4
solar collector coil's capacity	l	5,6	7,0	9,8
solar collector coil's power (70/10/45°C)	kW	21,4	23,6	33,6
efficiency	l/h	526	585	814
solar collector coil's power (80/10/45°C)	kW	29	31,5	44,8
efficiency	l/h	714	774	1096
CH coil's surface	m ²	0,6	0,8	0,8
CH coil's capacity	l	4,2	5,6	5,6
coil's power (70/10/45°C)	kW	14,2	21,5	21,5
efficiency	l/h	351	533	533
coil's power (80/10/45°C)	kW	18,8	26	26
efficiency	l/h	465	632	632
magnesium anode	top cover 5/4" plug	mm	38x400	38x400
	insp. hole M8 screw	mm	38x200	38x200
h1 - cold water inflow - Ø 1"	mm	150	150	150
h2 - water outflow to solar coil - Ø 1"	mm	190	230	230
h3 - sleeve for sensor cover - Ø 1/2" ²⁾	mm	230	415	475
crk - circulation - Ø 3/4"	mm	490	700	780
h4 - hot water inflow from solar collector - Ø 1"	mm	590	810	900
h5 - CH water outflow - Ø 1"	mm	700	1035	1035
h6 - sleeve for sensor cover - Ø 1/2" ²⁾	mm	825	1145	1145
h7 - CH hot water inflow - Ø 1"	mm	950	1170	1260
h8 - DHW outflow - Ø 1"	mm	1030	1250	1500
L - height	mm	1300	1515	1765
D - external diameter	mm	600	600	600
net weight	kg	98	115	133

specification	unit	SGW(S)B Tower Biwal Slim 800	SGW(S)B Tower Biwal Slim 1000
storage capacity ¹	l	780	910
ErP  Neodul®	-	C	C
tank's maximum working pressure	MPa	1,0	1,0
coil's maximum working pressure	MPa	1,6	1,6
tank's maximum working temperature	°C	100	100
coil's maximum working temperature	°C	110	110
solar collector coil's surface	m ²	2,4	3,7
solar collector coil's capacity	l	16,8	25,8
solar collector coil's power (70/10/45°C)	kW	44,5	60
efficiency	l/h	1099	1468
solar collector coil's power (80/10/45°C)	kW	57	78
efficiency	l/h	1393	1936
pressure loss	mbar	320	270
CH coil's surface	m ²	1,2	1,8
CH coil's capacity	l	8,4	12,6
CH coil's power (70/10/45°C)	kW	24,5	39
efficiency	l/h	600	958
CH coil's power (80/10/45°C)	kW	32	51,8
efficiency	l/h	788	1282
pressure loss	mbar	125	130
magnesium anode	top cover 2" plug	mm	38x600
	lower part of the tank 5/4" plug	mm	38x400
h1 - cold water inflow - Ø 6/4"	mm	210	210
h2 - water outflow to solar coil - Ø 1"	mm	380	380
h3 - sleeve for sensor cover I - Ø 1/2" ²⁾	mm	610	610
h4 - hot water inflow from solar collector - Ø 1"	mm	1030	1265
h5 - CH water outflow - Ø 1"	mm	1145	1380
h6 - sleeve for sensor cover II - Ø 1/2" ²⁾	mm	1245	1510
h7 - circulation - Ø 5/4"	mm	1352	1640
h8 - CH hot water inflow - Ø 1"	mm	1465	1810
h9 - DHW outflow - Ø 6/4"	mm	1610	1910
L - height	mm	1990	2300
d - internal diameter	mm	790	790
D - external diameter	mm	950 ³⁾	950 ³⁾
height while tilted	mm	2220	2500
net weight (w miękkiej pianie poliuretanowej)	kg	290	355

¹ According to the (EU) 812/2013, 814/2013.

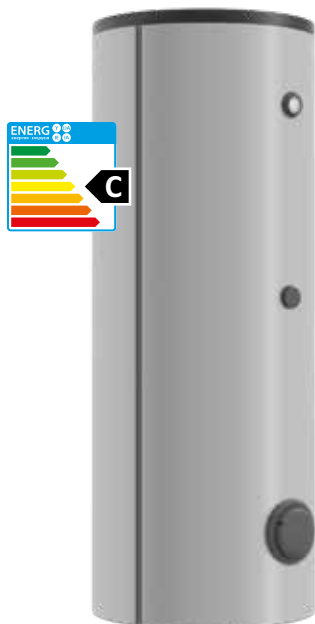
² Not included.

³ Detachable insulation 80 mm, internal diameter 790 mm.





pic. 37
SGW(S)B Tower
Biwal Slim



pic. 38
SGW(S)B Tower Biwal Slim
in detachable Neodul® insulation

SGW(S)B Tower Biwal Slim in hard polyurethane foam

cat. no.	type	enamelled model
26-202000	200	
26-252000	250	
26-302000	300	with two spiral coils, artificial leather / PVC film

SGW(S)B Tower Biwal Slim in detachable Neodul® insulation

cat. no.	type	enamelled model
26-802600	800	
36-102600	1000	with two spiral coils, artificial leather / PVC film

Water heaters for central heating networks and solar collectors.

Tinned copper coils for SGW(S)B Tower Biwal Slim 800-1000 for self-assembly

cat. no.	model
40-501210	1,0 m ² (with enamelled flange Ø 280 + gasket)
40-501218	1,8 m ² (with enamelled flange Ø 280 + gasket)
40-501223	2,3 m ² (with enamelled flange Ø 280 + gasket)

Technical specifications and diagrams of tinned copper coils - page 32.

For SGW(S)B Tower Biwal Slim 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 between 700 and 1000 (large dual titanium anode).

Standard colour of the artificial leather / PVC film - grey.

Available housing colours and special equipment - page 40.

We recommend using Galmet's electrical sets for our water heaters - page 37.

For the highest DHW efficiency we recommend installing an electrical set consisting of two elements (heater + control module) in the inspection hole Ø 180 mm. The only exception are water heaters types between 700 and 1500 and of the SG(S), SGW(S) SLIM, SGW(S)B SLIM type.

Sensor cover

cat. no.	model
M-006559	sensor cover (probe) L - 100 mm 1/2" - copper

▶ Galmet water tanks are subjected to random stress tests for **20,000** hydraulic impacts with a pressure of $1.5 \times$ their working pressure (in accordance with the EN 12897: 2007 norm).

▶ 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 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.

INDIRECT WATER HEATERS WITH THE BIGGEST POSSIBLE SPIRAL COIL FOR HEAT PUMPS

TYPE SGW(S) MAXI, SGW(S) MAXIMUS, SGW(S)B MAXI PLUS

Technical specification of the SGW(S) Maxi / SGW(S) Maximus

specification	unit	SGW(S) Maxi 250	SGW(S) Maxi / Maximus 300	SGW(S) Maxi 400	SGW(S) Maxi 500	SGW(S) Maxi 700	SGW(S) Maxi 1000
storage capacity ¹	l	236	257	351	412	657	973
ErP  polyurethane foam	-	B	B	C	C	C	C
tank's maximum working pressure	MPa	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
tank's maximum working temperature	°C	100	100	100	100	100	100
coil's maximum working temperature	°C	110	110	110	110	110	110
coil's surface	m ²	3,0	3,8	5,0	6,0	6,5	6,5
coil's capacity	l	20,9	26,5	34,9	41,9	45,4	45,4
coil's power (80/10/45°C)	kW	71,5	91	108	114	138	138
coil's power (80/10/60°C)	kW	61	77,5	89	99	108	108
efficiency (80/10/60°C)	l/h	1072	1363	1460	1724	1894	1886
heat pump coil's power (50/10/45°C)	kW	22	28	37	39	40	40
demand for heating water from CH boiler	m ³ /h	3,0	3,0	3,0	3,0	3,0	3,0
magnesium anode top cover plug ³	mm	38x600	38x600	38x600	38x600	38x600	38x600
anode insp. hole M8 screw	mm	38x200	38x200	38x200	38x400	38x400	38x400
h1 - cold water inflow ⁴	mm	130	130	150	150	225	210
h2 - CH water outflow - Ø 5/4"	mm	215	215	235	235	325	375
h3 - sensor cover - tube Ø 3/8"	mm	385	550	560	560	625	690
crk - circulation ⁵	mm	770	770	840	840	1390	1245
h4 - CH hot water inflow - Ø 5/4"	mm	895	1035	1285	1385	1270	1125
h5 - DHW outflow ⁴	mm	1080	1240	1400	1640	1705	1570
L - height	mm	1300	1480	1660	1890	2050	1960
D - external diameter	mm	670	670	700	700	855	1055
height while tilted	mm	-	-	-	-	2220	2230
dimensions of the Maximus	height	-	1550	-	-	-	-
	depth	mm	770	-	-	-	-
	width	-	670	-	-	-	-
net weight (in hard polyurethane foam)	kg	160	180	220	260	350	530

Technical specification of the SGW(S)B Maxi Plus (bivalent)


specification	unit	SGW(S)B Maxi Plus		
		300	400	500
storage capacity ¹	l	266	348	406
ErP  polyurethane foam	-	B	C	C
tank's maximum working pressure	MPa	1,0	1,0	1,0
coil's maximum working pressure	MPa	1,6	1,6	1,6
tank's maximum working temperature	°C	100	100	100
coil's maximum working temperature	°C	110	110	110
solar collector / heat pump coil's surface	m ²	1,0 / 2,2	1,5 / 3,8	1,8 / 4,8
solar collector / heat pump coil's capacity	l	7,0 / 15,4	10,5 / 26,5	12,6 / 33,5
solar collector coil's power (80/10/45°C)	kW	26	34	38
heat pump coil's power (50/10/45°C)	kW	22,5	28,5	35
demand for heating water from CH boiler	m ³ /h	1,6 / 1,6	1,9 / 1,9	1,9 / 1,9
pressure loss	mbar	40 / 60	70 / 80	90 / 90
magnesium anode top cover 5/4" plug	mm	38x600	38x600	38x600
anode insp. hole M8 screw	mm	38x200	38x200	38x400
h1 - cold water inflow - Ø 1"	mm	130	150	150
h2 - water outflow to solar coil - Ø 5/4"	mm	215	235	235
h3 - sensor cover and - tube Ø 3/8"	mm	335	385	390
h4 - hot water inflow from solar collector - Ø 5/4"	mm	495	555	635
h5 - CH water outflow - Ø 5/4"	mm	615	665	725
h6 - sensor cover II - tube Ø 3/8"	mm	835	700	945
h7 - circulation - Ø 3/4"	mm	935	820	1245
h8 - CH hot water inflow - Ø 5/4"	mm	1095	1395	1635
h9 - DHW outflow - Ø 1"	mm	1245	1480	1730
L - height	mm	1480	1660	1890
D - external diameter	mm	670	700	700
net weight	kg	160	210	285

diagram of SGW(S) Maxi 250-500 / SGW(S) Maximus 300

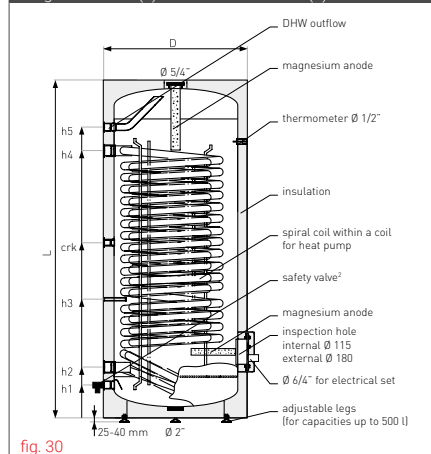


fig. 30

diagram of SGW(S) Maxi 700-1000

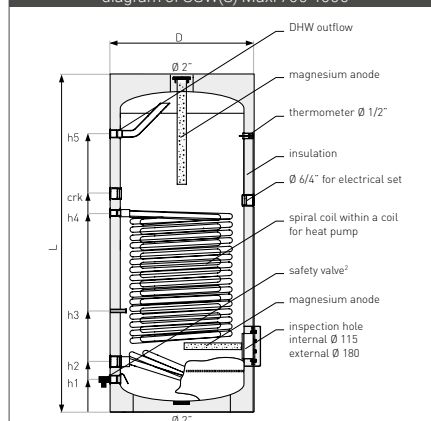


fig. 31

diagram of SGW(S)B Maxi Plus 300-500

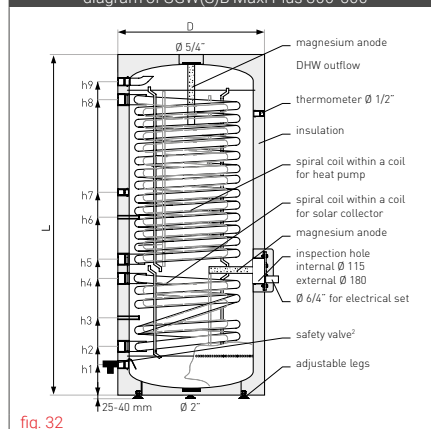


fig. 32

top view

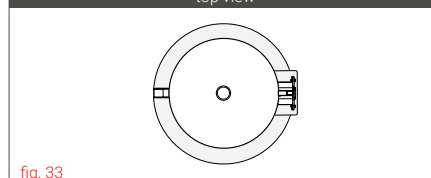


fig. 33

¹ According to the (EU) 812/2013, 814/2013.

² Not included.

³ For types up to 500 since 01.08.2013 - magnesium anode plug 5/4", for types above 500 - 2" plug.

⁴ For types between 300 and 500 - Ø 1", for types between 700 and 1000 - Ø 6/4".

⁵ For types between 300 and 500 - Ø 3/4", for types between 700 and 1000 - Ø 5/4".



SGW(S) Maxi the biggest possible spiral coil

cat. no.	type	enamelled model
26-258100	250	
26-308100	300	
26-408100	400	
26-504100	500	
26-704100	700	
36-104100	1000	

in hard polyurethane foam, with the biggest possible spiral coil, artificial leather / PVC film

Standard colour of the artificial leather / PVC film - grey.

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

- for types up to 250 (small titanium anode).
- for types between 300 and 500 (large single titanium anode).
- for types between 700 and 1000 (large dual titanium anode).

SGW(S) Maximus in metal housing (same design philosophy as the Maxima heat pump)

cat. no.	type	enamelled model
26-308870	300	with the biggest possible spiral coil, titanium anode and an electric heater 2 kW 230V

SGW(S)B Maxi Plus with two biggest possible spiral coils

cat. no.	type	enamelled model
26-309100	300	
26-409100	400	
26-509100	500	

in hard polyurethane foam, with two biggest possible spiral coils, artificial leather / PVC film

Water heaters for central heating networks and solar collectors.

Standard colour of the artificial leather / PVC film - grey.

For SGW(S)B Maxi Plus 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 between 400 and 500 (large single titanium anode).

Electrical sets for self-assembly

cat. no.	model
41-020011	electrical set GE with heater 2 kW 230 V - K6/4" (I)
41-030011	electrical set GE with heater 3 kW 230 V - K6/4" (I)
41-045010	electrical set GE with heater 4,5 kW 400 V - K6/4"
41-060010	electrical set GE with heater 6 kW 400 V - K6/4"
41-090010	electrical set GE with heater 9 kW 400 V - K6/4"
41-120010	electrical set GE with heater 12 kW 400 V - K6/4"
41-045015	electrical set GE with heater 4,5 kW 400 V - K6/4" Elektronik
41-060015	electrical set GE with heater 6 kW 400 V - K6/4" Elektronik

We recommend using Galmet's electrical sets for our water heaters.

Both Maxi and Maxi Plus water heaters are equipped with a **maximum size heat exchanger**, the so-called „coil within a coil” - a bent tube in two diameters, a larger one and a smaller one inside the first one.


* Details in the warranty card.

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

INDIRECT WATER HEATERS WITH 2 AND 3 SPIRAL COILS

TYPE SGW(S)B TOWER BIWAL MAX, SGW(S)M TOWER MULTI

Technical specification of the SGW(S)B Tower Biwal Max with both coils in the lower part of the tank

specification	unit	SGW(S)B Tower Biwal Max			
storage capacity ¹	l	200	300	400	500
ErP  polyurethane foam	-	B	B	C	C
tank's maximum working pressure	MPa	1,0	1,0	1,0	1,0
coil's maximum working pressure	MPa	1,6	1,6	1,6	1,6
tank's maximum working temperature	°C	100	100	100	100
coil's maximum working temperature	°C	110	110	110	110
solar collector coil's surface	m ²	1,0	1,0	1,8	2,0
solar collector coil's capacity	l	7,0	7,0	12,6	14,0
solar collector coil's power (70/10/45°C)	kW	24	24	43	48
efficiency	l/h	570	570	1030	1150
solar collector coil's power (80/10/45°C)	kW	32	32	57,6	64
efficiency	l/h	760	760	1380	1530
coil's surface for an additional source	m ²	1,0	1,0	1,0	1,0
coil's capacity for an additional source	l	7,0	7,0	7,0	7,0
coil's power for an add. source (70/10/45°C)	kW	24	24	24	24
efficiency	l/h	570	570	570	570
coil's power for an add. source (80/10/45°C)	kW	32	32	32	32
efficiency	l/h	760	760	760	760
demand for heating water from CH boiler	m ³ /h	2,7	2,7	3,0	3,0
magnesium top cover 5/4" plug ³	mm	38x400	38x400	38x400	38x600
anode insp. hole M8 screw	mm	38x200	38x200	38x400	38x200
h1 - cold water inflow - Ø 1"	mm	130	130	160	160
h2 - CH water outflow I - Ø 1"	mm	210	210	240	240
h3 - CH water outflow II - Ø 1"	mm	280	290	325	340
h4 - sensor cover and - tube Ø 3/8"	mm	380	390	475	510
h5 - sensor cover II - tube Ø 3/8"	mm	480	490	625	640
h6 - CH hot water inflow II - Ø 1"	mm	580 (circulation)	670	905	990
h7 - CH hot water inflow I - Ø 1"	mm	660 (CH HWI II)	750	990	1090
h8 - circulation - Ø 3/4"	mm	750 (CH HWI I)	1080	1290	1390
h9 - DHW outflow - Ø 1"	mm	895	1245	1450	1650
L - height	mm	1140	1460	1660	1890
D - external diameter	mm	670	670	700	700
net weight (in hard polyurethane foam)	kg	98	150	180	233

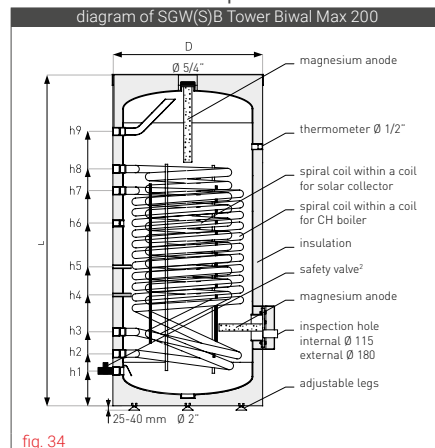


fig. 34

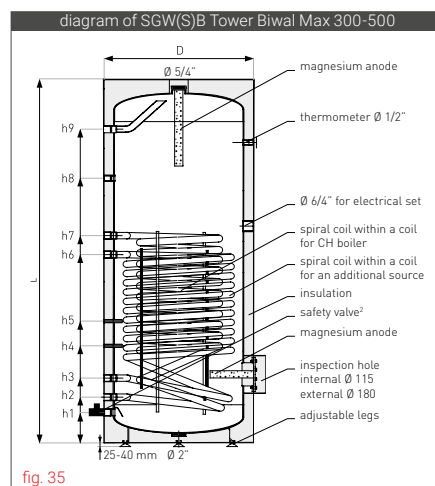



fig. 35

Technical specification of the SGW(S)M Tower Multi with 3 coils

specification	unit	SGW(S)M Tower Multi		
storage capacity ¹	l	300	400	500
ErP  polyurethane foam	-	B	C	C
tank's maximum working pressure	MPa	1,0	1,0	1,0
coil's maximum working pressure	MPa	1,6	1,6	1,6
tank's maximum working temperature	°C	100	100	100
coil's maximum working temperature	°C	110	110	110
solar collector coil's surface	m ²	1,0	1,8	2,0
solar collector coil's capacity	l	7,0	12,6	14,0
solar collector coil's power (70/10/45°C)	kW	24	43	48
efficiency	l/h	570	1030	1150
solar collector coil's power (80/10/45°C)	kW	32	57,6	64
efficiency	l/h	760	1380	1530
coil's surface for an additional source	m ²	1,0	1,0	1,0
coil's capacity for an additional source	l	7,0	7,0	7,0
coil's power for an add. source (70/10/45°C)	kW	24	24	24
efficiency	l/h	570	570	570
coil's power for an add. source (80/10/45°C)	kW	32	32	32
efficiency	l/h	760	760	760
CH coil's surface	m ²	0,7	1,1	1,1
CH coil's capacity	l	4,9	7,7	7,7
CH coil's power (70/10/45°C)	kW	17	26,4	26,4
efficiency	l/h	410	630	630
CH coil's power (80/10/45°C)	kW	22	35	35
efficiency	l/h	540	840	840
demand for heating water from CH boiler	m ³ /h	2,7	3,0	3,0
magnesium top cover 5/4" plug ³	mm	38x400	38x400	38x600
anode insp. hole M8 screw	mm	38x200	38x400	38x200
h1 - cold water inflow - Ø 1"	mm	130	160	160
h2 - CH water outflow I - Ø 1"	mm	210	240	240
h3 - CH water outflow II - Ø 1"	mm	290	325	340
h4 - sensor cover and - tube Ø 3/8"	mm	390	475	510
h5 - sensor cover II - tube Ø 3/8"	mm	490	625	640
h6 - CH hot water inflow II - Ø 1"	mm	670	905	990
h7 - CH hot water inflow I - Ø 1"	mm	750	990	1090
h8 - CH water outflow III - Ø 1"	mm	880	1090	1190
h9 - sensor cover III - tube Ø 3/8"	mm	980	1190	1290
h10 - circulation - Ø 3/4"	mm	1080	1290	1390
h11 - CH hot water inflow III - Ø 1"	mm	1160	1410	1530
h12 - DHW outflow - Ø 1"	mm	1245	1450	1650
L - height	mm	1460	1660	1890
D - external diameter	mm	670	700	700
net weight (in hard polyurethane foam)	kg	140	163	216

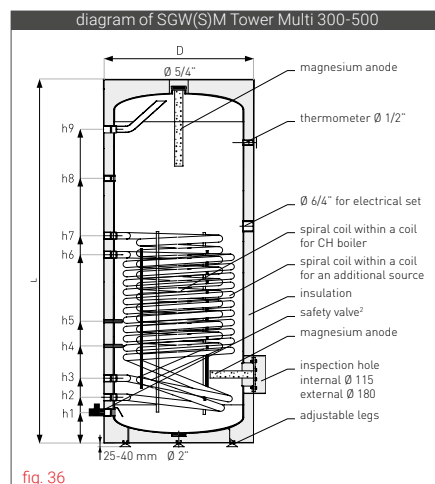


fig. 36

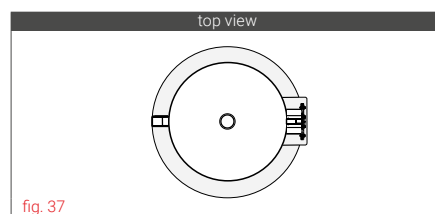


fig. 37

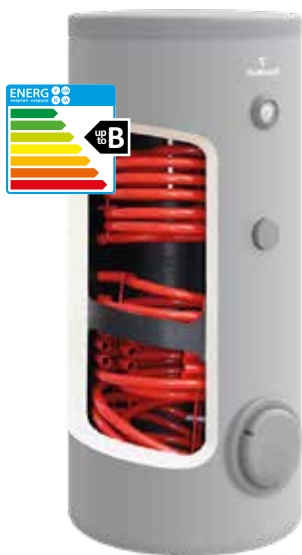
¹ According to the (EU) 812/2013, 814/2013.

² Not included.

³ Since 01.08.2013 magnesium anode plug 5/4".



pic. 44
SGW(S)B Tower Biwal Max
with both coils in the lower part of the tank



pic. 45
SGW(S)M Tower Multi
with three spiral coils

SGW(S)B Tower Biwal Max with both coils in the lower part of the tank

cat. no.	type	enamelled model
26-205000	200	
26-305000	300	
26-405000	400	
26-505000	500	

in hard polyurethane foam, with two spiral coils, artificial leather / PVC film

Standard colour of the artificial leather / PVC film - grey.

For SGW(S)B Tower Biwal Max 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 between 400 and 500 (large single titanium anode).

SGW(S)M Tower Multi with three spiral coils

cat. no.	type	enamelled model
26-303000	300	
26-403000	400	
26-503000	500	

in hard polyurethane foam, with three spiral coils, artificial leather / PVC film

Standard colour of the artificial leather / PVC film - grey.

Electrical sets for self-assembly

cat. no.	model
41-020011	electrical set GE with heater 2 kW 230 V - K6/4" (I)
41-030011	electrical set GE with heater 3 kW 230 V - K6/4" (I)
41-045010	electrical set GE with heater 4,5 kW 400 V - K6/4"
41-060010	electrical set GE with heater 6 kW 400 V - K6/4"
41-090010	electrical set GE with heater 9 kW 400 V - K6/4"
41-120010	electrical set GE with heater 12 kW 400 V - K6/4"
41-045015	electrical set GE with heater 4,5 kW 400 V - K6/4" Elektronik
41-060015	electrical set GE with heater 6 kW 400 V - K6/4" Elektronik
40-300230	steel Ø 180 flange with 6/4" coupling

We recommend using Galmet's electrical sets for our water heaters.

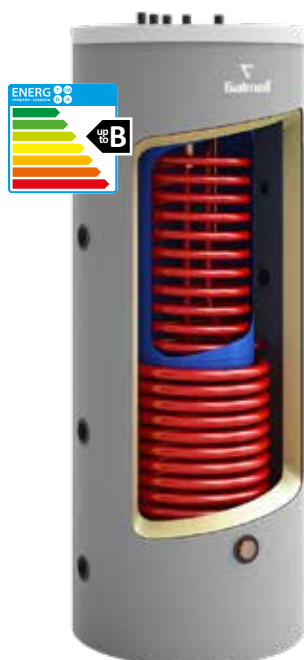
For the highest DHW efficiency we recommend installing an electrical set consisting of two elements (heater + control module) in the inspection hole Ø 180 mm. The only exception are water heaters types between 700 and 1500 and of the SG(S), SGW(S) SLIM, SGW(S)B SLIM type.

▶ Thanks to the **RESIST-TECH®** technology, the service life of the electric water heaters is increased by up to 50%. How? By compensating electromagnetic potentials between the magnesium anode and an electric heater.

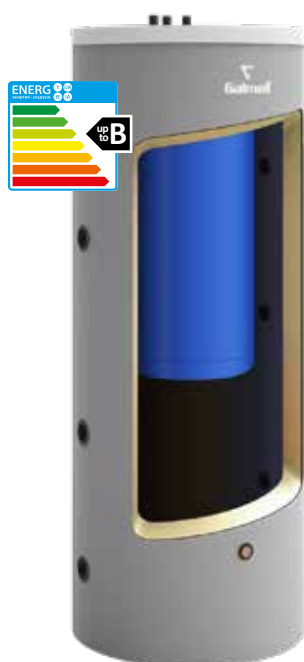
▶ By using the **SGW(S)M Tower Multi** multivalent water heater (with three spiral coils) the user has as much as **4,1 m²** of an exchanger's surface.

* Details in the warranty card.

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



pic. 46
SG(K) Kumulo
with two spiral coils



pic. 47
SG(K) Kumulo without spiral coils

SG(K) Kumulo z with one or two spiral coils

cat. no.	type	enamelled model
71-302000	300/80	
71-404000	380/120	
71-506000	500/160	
71-608000	600/200	
71-808000	800/200	
71-108000	1000/200	
71-312000	300/80	
71-414000	380/120	
71-516000	500/160	
71-618000	600/200	
71-818000	800/200	
71-118000	1000/200	
72-302000	300/80	
72-404000	380/120	
72-506000	500/160	
72-608000	600/200	
72-808000	800/200	
72-108000	1000/200	

By installing the SG(K) Kumulo heat accumulation vessel in your boiler room you can save up to **2700 cm²** of space.

SG(K) Kumulo without spiral coils

cat. no.	type	enamelled model
70-302000	300/80	
70-404000	380/120	
70-506000	500/160	
70-608000	600/200	
70-808000	800/200	
70-108000	1000/200	

For all SG(K) Kumulo combined heat accumulation vessels we recommend using a maintenance-free active titanium anode connected to the power outlet -.

Sensor cover

cat. no.	model
M-006499	sensor cover (probe) L - 110 mm, Ø 3/4" - copper

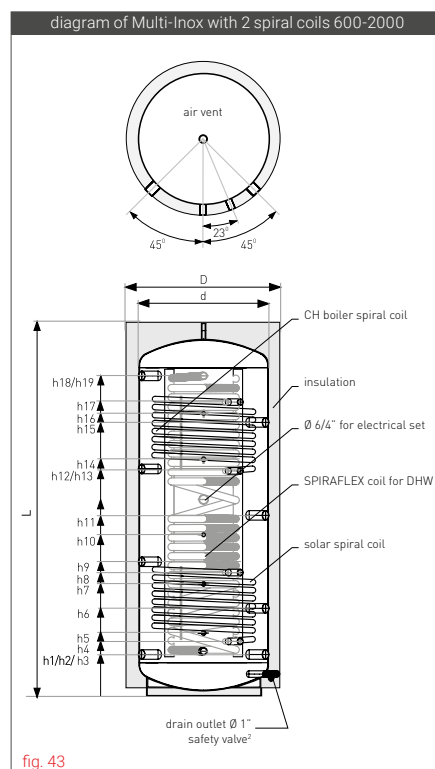
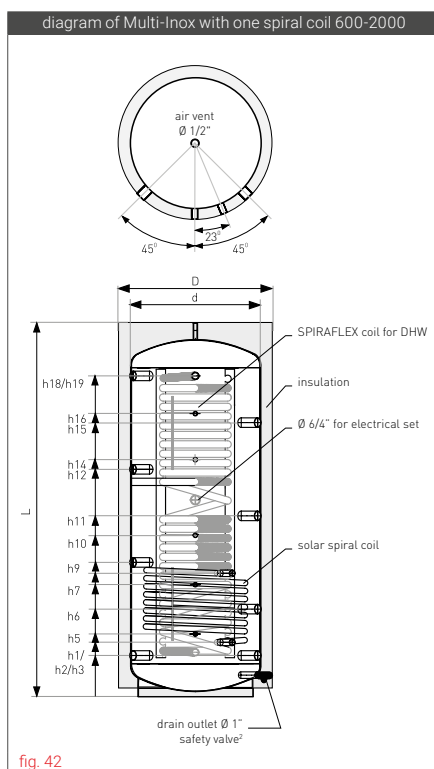
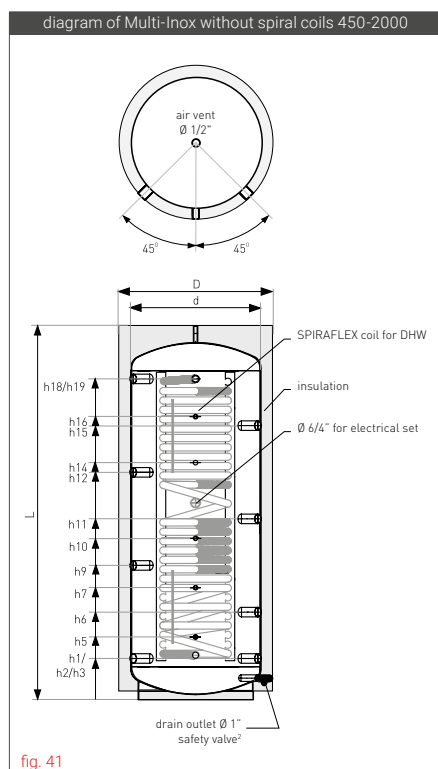
* Details in the warranty card.

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

HYGIENIC STRATIFICATION BUFFER TANKS - TYPE MULTI-INOX

Technical specification of the Multi-Inox

specification	unit	Multi-Inox 450	Multi-Inox 600	Multi-Inox 800	Multi-Inox 1000	Multi-Inox 1500	Multi-Inox 2000
storage capacity ¹	l	450	597	726	911	1390	1904
ErP polyurethane foam	-	C	-	-	-	-	-
ErP Neodul®	-	-	C	C	C	C	C
tank's maximum working pressure	MPa	0,3	0,3	0,3	0,3	0,3	0,3
maximum working temp. of the tank with a CH water	°C	90	90	90	90	90	90
maximum working temp. of the solar spiral coil / CH spiral coil	°C	110	110	110	110	110	110
coil surface (upper / lower)	m ²	-	1,4/1,4	1,8/1,8	1,8/1,8	3,0/2,4	4,5/3,0
coil capacity	l	-	9,8/9,8	12,6/12,6	12,6/12,6	20,9/16,8	33,5/20,9
maximum working pressure of the upper spiral coil	MPa	-	1,6	1,6	1,6	1,6	1,6
maximum working pressure of the solar spiral coil	MPa	-	1,6	1,6	1,6	1,6	1,6
maximum working pressure of domestic hot water – SPIRAFLEX	MPa	0,6	0,6	0,6	0,6	0,6	0,6
maximum working temp. of domestic hot water – SPIRAFLEX	°C	90	90	90	90	90	90
coil capacity of domestic hot water – SPIRAFLEX	m ²	4,7	5,65	5,65	6,95	6,95	8,00
coil surface for DHW – SPIRAFLEX	l	32,5	39	39	48	48	56
flow through the DHW exchanger at 45°C – SPIRAFLEX	l/min	25	25	30	36	45	53
flow efficiency at 65°C (constant temperature at constant tank volume) at water temperature 45°C	l	195	240	290	360	430	525
power of the SPIRAFLEX stainless steel water heater (feed temperature approx. 65°C)	kW	50	61,5	61,5	90	105	128
L - height	mm	1930	1900	1880	2270	2665	2500
d - diameter without insulation	mm	-	700	790	790	900	1100
D - diameter with insulation	mm	700	860	950	950	1100	1300
h1 - CH boiler water inflow - Ø 6/4"	mm	250	275	250	250	380	380
h2 - cold water inflow - Ø 5/4"	mm	245	270	270	270	400	380
h3 - CH boiler water inflow - Ø 6/4"	mm	250	275	250	250	380	380
h4 - CH water outflow - Ø 1"	mm	-	345	330	330	460	450
h5 - sensor cover or thermometer - Ø 1/2"	mm	460	420	380	380	510	610
h6 - CH boiler water inflow - Ø 6/4"	mm	480	490	455	530	705	655
h7 - sensor cover or thermometer - Ø 1/2"	mm	695	640	570	680	875	840
h8 - CH water inflow - Ø 1"	mm	-	745	750	750	1260	1250
h9 - CH boiler water inflow - Ø 6/4"	mm	715	700	685	815	1015	925
h10 - sensor cover or thermometer - Ø 1/2"	mm	-	865	750	980	1240	1070
h11 - CH boiler water inflow - Ø 6/4"	mm	945	915	900	1100	1325	1205
h12 - CH boiler water inflow - Ø 6/4"	mm	1175	1130	1115	1380	1640	1475
h13 - CH water outflow - Ø 1"	mm	-	1105	1060	1370	1590	1410
h14 - sensor cover or thermometer - Ø 1/2"	mm	1255	1215	1150	1440	1680	1530
h15 - CH boiler water inflow - Ø 6/4"	mm	1410	1340	1335	1665	1950	1750
h16 - sensor cover or thermometer - Ø 1/2"	mm	1485	1410	1450	1720	2020	1830
h17 - CH water inflow - Ø 1"	mm	-	1505	1480	1790	2190	1960
h18 - CH boiler water inflow - Ø 6/4"	mm	1640	1555	1550	1950	2260	2030
h19 - DHW outflow - Ø 5/4"	mm	1645	1560	1555	1950	2260	2030
height while tilted	mm	2090	2120	2130	2470	2890	2820
weight (without insulation)	kg	150	205	210	238	330	378



¹ According to the (EU) 812/2013, 814/2013.

² Not included.



Multi-Inox with corrugated, stainless steel heat exchanger

cat. no.	type	non enamelled model
70-451000	450	in hard polyurethane foam, artificial leather / PVC film
70-601600	600	
70-801600	800	
70-101600	1000	in detachable Neodul® insulation, artificial leather / PVC film
70-151600	1500	
80-201600	2000	

Multi-Inox with corrugated, stainless steel heat exchanger and one steel coil

cat. no.	type	non enamelled model
71-601600	600	in detachable Neodul® insulation, artificial leather / PVC film
71-801600	800	
71-101600	1000	
71-151600	1500	
81-201600	2000	

Multi-Inox with corrugated, stainless steel heat exchanger and two steel coils

cat. no.	type	non enamelled model
72-601600	600	in detachable Neodul® insulation, artificial leather / PVC film
72-801600	800	
72-101600	1000	
72-151600	1500	
82-201600	2000	

Application and advantages of the Multi-Inox

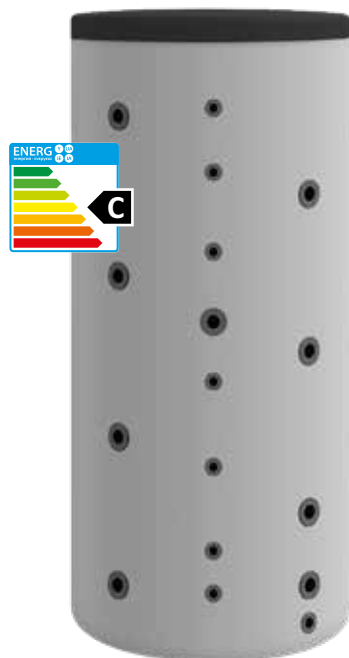
- ▶ Stratified accumulators cooperate perfectly with wood, pellet, gas and oil-fired boilers and in heat recuperation systems.
- ▶ Spirally corrugated, stainless steel heat exchanger SPIRAFLEX guarantees hygienic domestic hot water preparation.
- ▶ Low temperatures at the bottom part of the accumulator make it possible to obtain low water temperature on the solar collector return, thus efficiently use the solar energy. The low return temperature is especially advantageous for condensing boilers, as it allows for using optimally the fuel calorific value.
- ▶ High heating surface of the coil at higher boiler water temperatures provides high domestic hot water temperature, while the exchanger at low temperature range is used to initially heat water and cool down the accumulator.
- ▶ Spirally corrugated stainless steel water heater (material 1.4404 AISI 316L) cleans itself automatically under pressure. The turbulences inside the accumulator prevent the lime scale from depositing on the heater's inner surface.
- ▶ The accumulator can be fitted with one or two additional coils made of boiler steel P.235GH: lower one (solar) for using the solar potential; additional one to quickly heat domestic hot water by using the central heating boiler.
- ▶ The accumulator is thermally insulated with soft, detachable Neodul® insulation.

▶ Spirally corrugated, stainless steel heat exchanger **cleans itself** under pressure, as turbulences inside the coil prevent the deposition of calcium compounds on its surface.

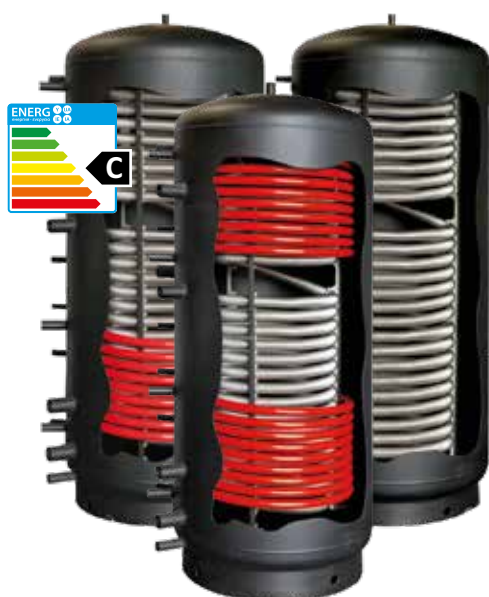
* Details in the warranty card.

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.



pic. 48
Multi-Inox in detachable Neodul® insulation



pic. 49
Multi-Inox
with one steel coil, two steel coils
or without any steel coils

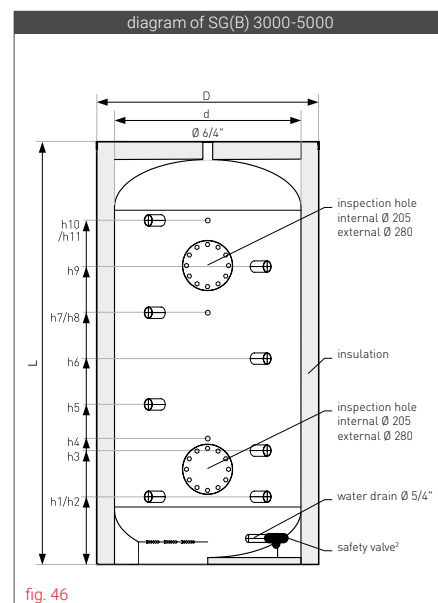
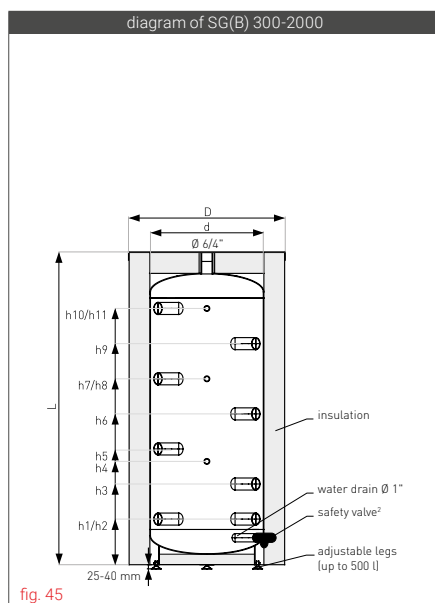
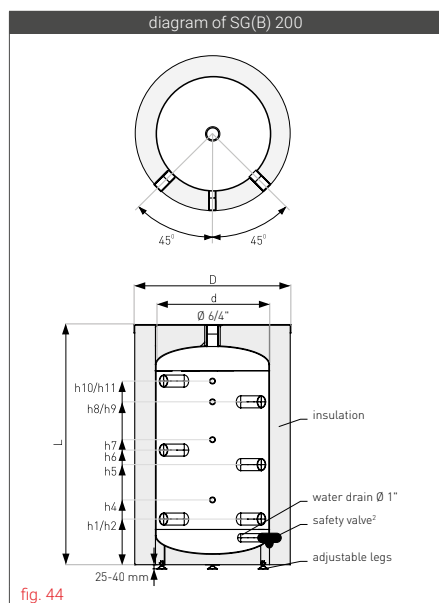
BUFFERS, NON-ENAMELLED VESSELS WITHOUT SPIRAL COILS - TYPE SG(B)

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	B	B	C	C	-	-	-	-	-	-	-
	Neodul®	-	-	-	-	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.



TINNED COPPER COILS FOR BUFFER TANKS TYPE 3000-5000

Technical specification of the tinned copper coils

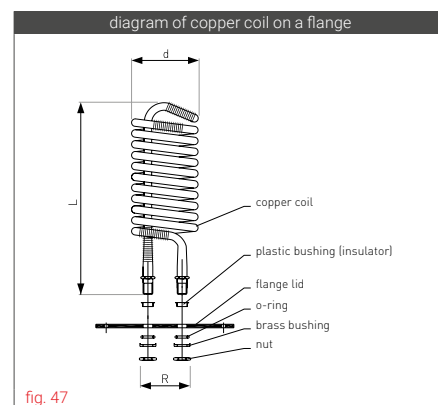
coil's surface	unit	length L [mm]	external diameter d [mm]	connections diameter	connections spacing R [mm]	coil's power (90/10/45°C) [kW]	flow resistance [bar]
1,0	m²	350	140	3/4"	70	5,4	0,25 (0,5 m³/h)
1,8	m²	440	170	3/4"	70	33,6	0,23 (1,5 m³/h)
2,3	m²	540	170	3/4"	70	34,2	0,30 (1,5 m³/h)
3,6	m²	650	175	1"	130	100,5	0,30 (3,5 m³/h)
4,5	m²	790	175	1"	130	103	0,53 (3,5 m³/h)

* For types 2000 water drain 5/4".

¹ According to the (EU) 812/2013, 814/2013.

² Not included.

³ For type 200 sensor cover/thermometer Ø 1/2", for larger types CH boiler water inflow Ø 6/4".





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



pic. 51
tinned copper coil

SG(B) without spiral coils

cat. no.	type	non enamelled model
75-200000	200	without insulation
75-300000	300	
75-400000	400	
75-500000	500	
75-800000	800	
75-100000	1000	
75-150000	1500	
85-200000	2000	
85-300001	3000	
85-400000	4000	
85-500001	5000	
70-200000	200	in hard polyurethane foam, artificial leather / PVC film
70-300000	300	
70-400000	400	
70-500000	500	
70-800600	800	
70-100600	1000	in detachable Neodul® insulation, artificial leather / PVC film
70-150600	1500	
80-200600	2000	in detachable soft polyurethane foam, artificial leather / PVC film
80-300600	3000	
80-400600	4000	
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

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.

BUFFERS, NON-ENAMELLED VESSELS WITH SPIRAL COILS - TYPE SG(B)

Technical specification of the SG(B) 200-2000 with one coil

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
storage capacity ¹	l	212	294	372	444	702	853	1444	1985
ErP  polyurethane foam	-	B	B	C	C	C	C	C	C
ErP  Neodul®	-	-	-	-	-	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
coil's maximum working pressure	MPa	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6
tank's maximum working temperature	°C	100	100	100	100	100	100	100	100
coil's maximum working temperature	°C	110	110	110	110	110	110	110	110
coil's surface	m ²	1,4	1,4	1,8	2,5	3	3,5	4	4,5
coil's capacity	l	9,8	9,8	12,6	17,5	20,9	24,4	28,0	31,5
h1 - CH boiler water inflow - Ø 6/4"	mm	220	220	250	250	250	250	330	385
h2 - CH boiler water outflow - Ø 1"	mm	220	220	250	250	250	250	330	385
h3 - CH boiler water inflow - Ø 6/4"	mm	220	220	250	250	250	250	330	385
h4 - CH boiler water inflow - Ø 6/4"	mm	-	390	445	485	435	500	705	660
h5 - sensor cover/thermometer - Ø 1/2"	mm	315	500	565	645	570	570	915	800
h6 - CH boiler water inflow - Ø 6/4"	mm	485	560	635	715	620	740	1015	930
h7 - CH boiler water inflow - Ø 6/4"	mm	555	730	825	945	820	980	1325	1205
h8 - CH hot water inflow - Ø 1"	mm	690	690	850	1050	900	1100	1230	1285
h9 ¹⁰	mm	605	900	1015	1180	1020	1240	1640	1480
h10 - sensor cover/thermometer - Ø 1/2"	mm	785	900	1015	1180	1020	1240	1640	1480
h11 - CH boiler water inflow - Ø 6/4"	mm	785	1070	1210	1410	1215	1485	1950	1755
h12 - CH boiler water inflow - Ø 6/4"	mm	885	1235	1400	1640	1410	1730	2260	2025
h13 - sensor cover/thermometer - Ø 1/2"	mm	885	1235	1400	1640	1410	1730	2260	2025
L - height	mm	1140	1450	1660	1925	1730	2050	2700	2500
d - internal diameter	mm	550	550	600	600	790	790	900	1100
D - external diameter	mm	670	670	700	700	950	950	1100	1300
height while tilted	mm	-	-	-	-	1995	2270	2920	2820
weight (without insulation, with spiral coil)	kg	82	97	120	145	173	205	275	310

Technical specification of the SG(B) 400-2000 with 2 coils

specification	unit	SG(B) 400	SG(B) 500	SG(B) 800	SG(B) 1000	SG(B) 1500	SG(B) 2000
storage capacity ¹	l	361	433	688	835	1421	1960
ErP  polyurethane foam	-	C	C	-	-	-	-
ErP  Neodul®	-	-	-	C	C	C	C
tank's maximum working pressure	MPa	0,3	0,3	0,3	0,3	0,3	0,3
coil's maximum working pressure	MPa	0,6	0,6	0,6	0,6	0,6	0,6
tank's maximum working temperature	°C	100	100	100	100	100	100
coil's maximum working temperature	°C	110	110	110	110	110	110
solar collector coil's surface	m ²	1,8	2,5	3,0	3,5	4,0	4,5
solar collector coil's capacity	l	12,6	17,5	20,9	24,4	28,0	31,5
upper coil's surface	m ²	1,4	1,4	1,8	2,1	2,5	2,7
upper coil's capacity	l	9,8	9,8	12,6	14,7	17,5	18,9
h1 - CH boiler water inflow - Ø 6/4"	mm	250	250	250	250	330	385
h2 - CH boiler water outflow - Ø 1"	mm	250	250	250	250	330	385
h3 - CH boiler water inflow - Ø 6/4"	mm	250	250	250	250	330	385
h4 - CH boiler water inflow - Ø 6/4"	mm	445	485	435	500	705	660
h5 - sensor cover/thermometer - Ø 1/2"	mm	565	645	570	570	915	800
h6 - CH boiler water inflow - Ø 6/4"	mm	635	715	620	740	1015	930
h7 - CH boiler water inflow - Ø 6/4"	mm	825	945	820	980	1325	1205
h8 - CH water inflow II - Ø 1"	mm	850	1050	900	1100	1230	1285
h9 - CH boiler water outflow I - Ø 1"	mm	1010	1150	1000	1200	1565	1415
h10 - CH boiler water inflow - Ø 6/4"	mm	1015	1180	1020	1240	1640	1480
h11 - sensor cover/thermometer - Ø 1/2"	mm	1150	1300	1150	1350	1715	1565
h12 - CH boiler water inflow - Ø 6/4"	mm	1210	1410	1215	1485	1950	1755
h13 - sensor cover/thermometer - Ø 1/2"	mm	1410	1550	1320	1640	2110	1885
h14 - CH boiler water inflow - Ø 6/4"	mm	1410	1640	1410	1730	2260	2025
h15 - CH water inflow for higher coil - Ø 1"	mm	1420	1650	1420	1740	2260	2035
L - height	mm	1685	1925	1730	2050	2700	2500
d - internal diameter	mm	600	600	790	790	900	1100
D - external diameter	mm	700	700	950	950	1100	1300
height while tilted	mm	-	-	1995	2270	2920	2820
weight (without insulation, with two spiral coils)	kg	145	170	205	240	320	370

Buffers between 200 and 500 are equipped with adjustable feet, all buffers above 500 are placed on a ring.

* For type 2000 water drain 5/4".

¹ According to the (EU) 812/2013, 814/2013.

² Not included.

³ For type 200 sensor cover/thermometer Ø 1/2", for all other types CH boiler water inflow Ø 6/4".

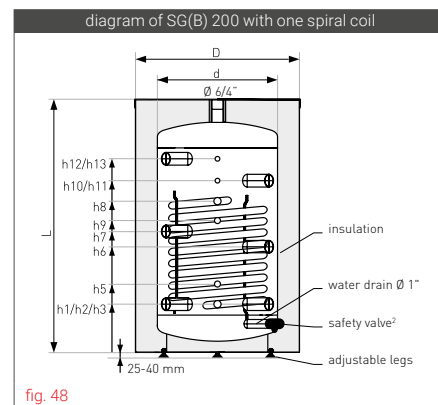


fig. 48

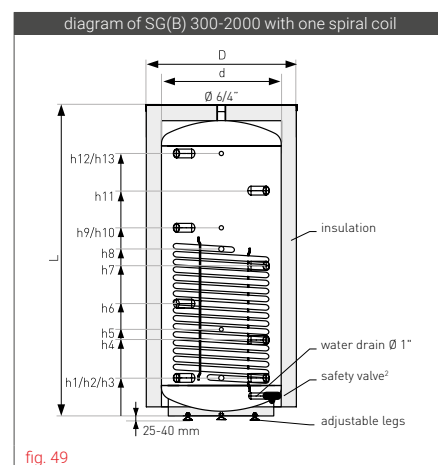


fig. 49

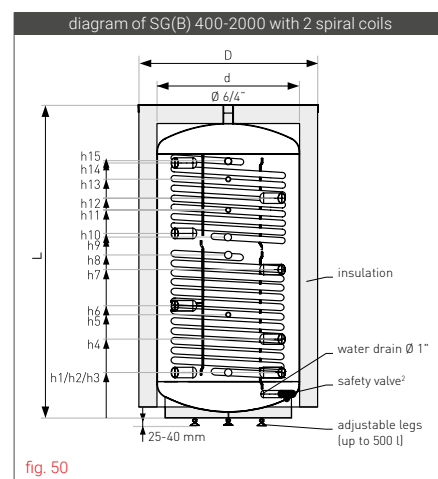


fig. 50

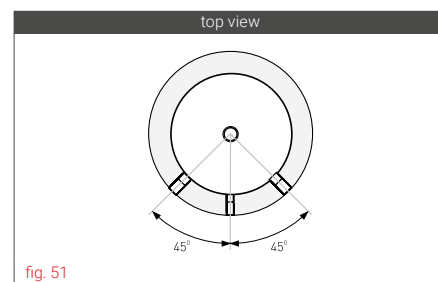
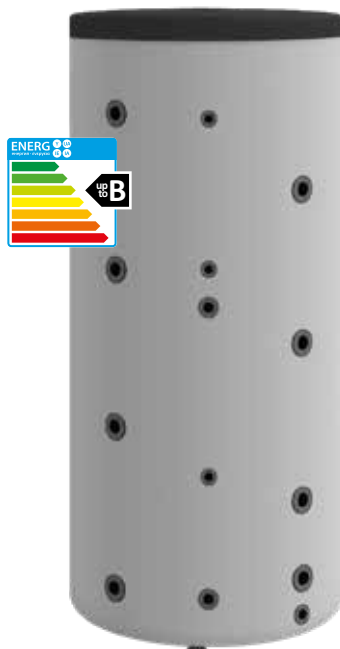


fig. 51



pic. 52
SG(B) with spiral coil
in detachable Neodul®
insulation



pic. 53
Installation of the
detachable Neodul®
insulation

SG(B) with spiral coil

cat. no.	type	non enamelled model
76-200000	200	without insulation
76-300000	300	
76-400000	400	
76-500000	500	
76-800000	800	
76-100000	1000	
76-150000	1500	in hard polyurethane foam, artificial leather / PVC film
86-200000	2000	
71-200000	200	
71-300000	300	
71-400000	400	in detachable Neodul® insulation, artificial leather / PVC film
71-500000	500	
71-800600	800	
71-100600	1000	
71-150600	1500	
81-200600	2000	

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
 - 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.
- ▶ Tank's maximum working pressure - 0,3 MPa (0,6 MPa on special order); 0,6 MPa for the spiral coil.
- ▶ All water connections are located on the front of the tank.


SG(B) with two spiral coils

cat. no.	type	non enamelled model
72-400000	400	hard polyurethane foam
72-500000	500	
72-800600	800	in detachable Neodul® insulation, artificial leather / PVC film
72-100600	1000	
72-150600	1500	
82-200600	2000	

Electrical sets for self-assembly

cat. no.	model
41-020011	electrical set GE with heater 2 kW 230 V - K6/4" (I)
41-030011	electrical set GE with heater 3 kW 230 V - K6/4" (I)
41-045010	electrical set GE with heater 4,5 kW 400 V - K6/4"
41-060010	electrical set GE with heater 6 kW 400 V - K6/4"
41-090010	electrical set GE with heater 9 kW 400 V - K6/4"
41-120010	electrical set GE with heater 12 kW 400 V - K6/4"
41-045015	electrical set GE with heater 4,5 kW 400 V - K6/4" Elektronik
41-060015	electrical set GE with heater 6 kW 400 V - K6/4" Elektronik
40-300230	steel Ø 180 flange with 6/4" coupling

We recommend using Galmet's electrical sets for our water heaters.



Neodul® does not only provide a better thermal insulation of the tank... but is also **quicker and more easy to assemble**. Built-in zipper in combination with low weight and high damage resistance provide unprecedented comfort during assembly.

* 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.

DHW TANKS WITHOUT A COIL - TYPE SG(S)

Technical specification of the SG(S) 100-140

specification	unit	SG(S) 100	SG(S) 120	SG(S) 140
storage capacity ¹	l	106	120	136
ErP  polyurethane foam	-	B	B	B
tank's maximum working pressure	MPa	0,6	0,6	0,6
tank's maximum working temperature	°C	100	100	100
magnesium anode	mm	25x310	25x310	25x310
h1 - water drain - Ø 3/4"	mm	90	90	90
h2 - cold water inflow - Ø 3/4"	mm	165	165	165
h3 - sensor cover I - Ø 1/2" ²	mm	300	300	300
h4 - circulation Ø 3/4"	mm	450	450	450
h5 - sensor cover II - Ø 1/2" ²	mm	570	570	570
h6 - DHW outflow - Ø 3/4"	mm	790	920	1070
L - height	mm	1040	1150	1290
D - external diameter	mm	518	518	518
net weight	kg	40	45	49

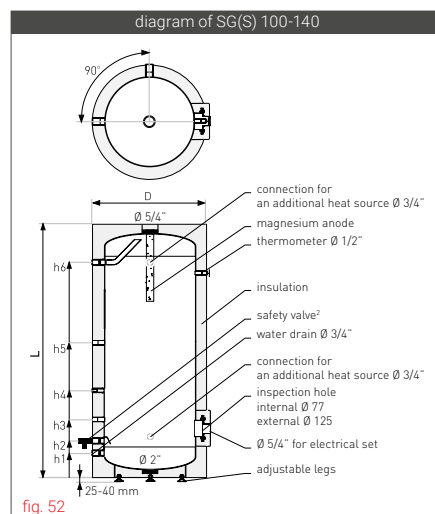



fig. 52

Technical specification of the SG(S) 200-500

specification	unit	SG(S) 200	SG(S) 300	SG(S) 400	SG(S) 500
storage capacity ¹	l	210	278	396	464
ErP  polyurethane foam	-	B	B	C	C
tank's maximum working pressure	MPa	1,0	1,0	1,0	1,0
tank's maximum working temperature	°C	100	100	100	100
magnesium anode	mm	38x400	38x400	38x400	38x400
top cover 5/4" plug ³	mm	-	-	38x200	38x200
insp. hole M8 screw	mm	-	-	38x200	38x200
h1 - water drain Ø 1"	mm	130	130	160	160
h2 - cold water inflow - Ø 1"	mm	210	210	240	240
h3 - sensor cover 1 - Ø 1/2" ²	mm	440	440	570	530
h4 - sensor cover 2 - Ø 1/2" ²	mm	-	820	1100	1210
h5 - circulation - Ø 3/4"	mm	680	920	1200	1310
h6 - DHW outflow - Ø 1"	mm	865	1135	1410	1650
L - height	mm	1100	1360	1660	1890
D - external diameter	mm	670	670	700	700
net weight	kg	75	95	120	168

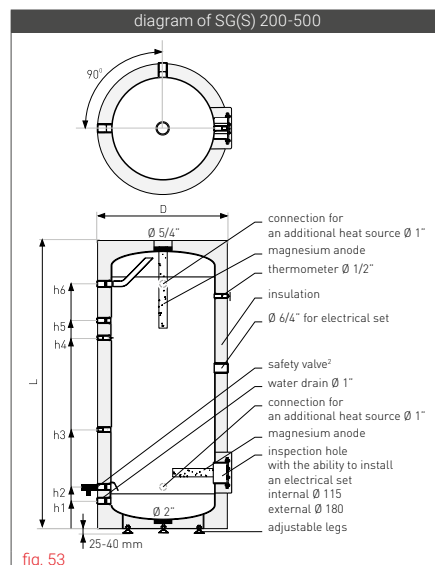


fig. 53

Technical specification of the SG(S) 700-1500

specification	unit	SG(S) 700	SG(S) 1000	SG(S) 1500
storage capacity ¹	l	705	1019	1442
ErP  polyurethane foam	-	C	C	-
Neodul®	-	C	C	C
tank's maximum working pressure	MPa	1,0	1,0	1,0
tank's maximum working temperature	°C	100	100	100
magnesium anode	mm	38x600	38x600	38x600
top cover 2" plug	mm	38x200	38x400	38x400
lower part of the tank 5/4" plug	mm	38x200	38x400	38x400
h1 - cold water inflow - Ø 6/4"	mm	225	270	270
h2 - additional source sleeve - Ø 6/4"	mm	315	380	380
h3 - sensor cover 1 - Ø 1/2" ²	mm	605	600	600
h4 - additional source sleeve - Ø 6/4"	mm	1225	1105	1750
h5 - sensor cover 2 - Ø 1/2" ²	mm	1285	1200	1630
h6 - circulation - Ø 5/4"	mm	1425	1290	1950
h7 - DHW outflow - Ø 6/4"	mm	1705	1570	2250
L - height	mm	2050/2080 ⁴	1960/1990 ⁴	2680
d - internal diameter	mm	700	900	900
D - external diameter	mm	855/860 ⁴	1055/1060 ⁴	1100
height while tilted	mm	2220	2230	2860
net weight	kg	238	320	420

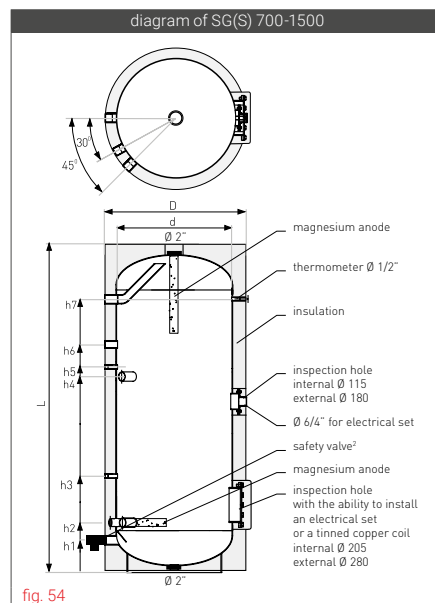


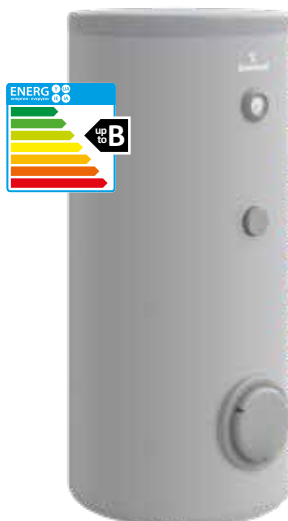
fig. 54

¹ According to the (EU) 812/2013, 814/2013.

² Not included.

³ Since 01.08.2013 magnesium anode plug 5/4".

⁴ Neodul® (detachable).



pic. 54
SG(S) 200-500



pic. 55
SG(S) in detachable Neodul® insulation



pic. 56
accessories

SG(S) without spiral coils

cat. no.	type	enamelled model
22-108000	100	
22-128000	120	
22-148000	140	
22-208000	200	
22-308000	300	
22-408000	400	
22-504000	500	
22-704000	700	
34-104000	1000	

in hard polyurethane foam, artificial leather / PVC film

SG(S) without spiral coils in detachable Neodul® insulation

cat. no.	type	enamelled model
22-704600	700	
34-104600	1000	
34-154600	1500	

in detachable Neodul® insulation, artificial leather / PVC film

Standard colour of the artificial leather / PVC film - grey.

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

- for types up to 300 (small titanium anode).
- for types between 400 and 500 (large single titanium anode).
- for types between 700 and 1500 (large dual titanium anode).

Electrical sets, heaters, control modules for self-assembly

cat. no.	model
41-020001	electrical set GE with heater 2 kW 230 V - K5/4" (I)
41-030001	electrical set GE with heater 3 kW 230 V - K5/4" (I)
41-020011	electrical set GE with heater 2 kW 230 V - K6/4" (I)
41-030011	electrical set GE with heater 3 kW 230 V - K6/4" (I)
41-045010	electrical set GE with heater 4,5 kW 400 V - K6/4"
41-060010	electrical set GE with heater 6 kW 400 V - K6/4"
41-090010	electrical set GE with heater 9 kW 400 V - K6/4"
41-120010	electrical set GE with heater 12 kW 400 V - K6/4"
41-090020	electrical set GE with heater 9 kW flange Ø 280mm
41-120020	electrical set GE with heater 12 kW flange Ø 280mm
41-180020	electrical set GE with heater 18 kW flange Ø 280mm
41-240020	electrical set GE with heater 24 kW flange Ø 280mm
41-045015	electrical set GE with heater 4,5 kW 400 V - K6/4" Elektronik
41-060015	electrical set GE with heater 6 kW 400 V - K6/4" Elektronik
40-130610	heater for an electrical set 2 kW 230 V flange Ø 180
40-130620	heater for an electrical set 3 kW 230 V flange Ø 180
40-132400	heater for an electrical set 4,5 kW 400 V flange Ø 180
40-132300	heater for an electrical set 6 kW 400 V flange Ø 180
40-131710	heater for an electrical set 9 kW 400 V flange Ø 180
40-131810	heater for an electrical set 12 kW 400 V flange Ø 180
40-131910	heater for an electrical set 18 kW 400 V flange Ø 180
40-132010	heater for an electrical set 24 kW 400 V flange Ø 180
40-140201	heater control module up to 2 kW 230 V, big cover
40-140202	heater control module 3 kW 230 V, big cover
40-140501	heater control module 4,5 kW 400 V
40-140500	heater control module 6 kW 400 V
40-140700	heater control module 9 kW 400 V
40-140800	heater control module 12 kW 400 V
40-140900	heater control module 18 kW 400 V
40-141000	heater control module 24 kW 400 V
40-300230	steel Ø 180 flange with 6/4" coupling
M-006559	sensor cover (probe) L - 100 mm 1/2" - copper

We recommend using Galmet's electrical sets for our water heaters.

For the highest DHW efficiency we recommend installing an electrical set consisting of two elements (heater + control module) in the inspection hole Ø 180 mm. The only exception are water heaters types between 700 and 1500 and of the SG(S), SGW(S) SLIM, SGW(S)B SLIM type.

Selection table of the electrical sets

cat. no.	model	100	120	140	200	300	400	500	700	1000	1500
41-020001	electrical set GE with heater 2 kW 230 V - K5/4" (I)	•	•	•							
41-030001	electrical set GE with heater 3 kW 230 V - K5/4" (I)	•	•	•							
41-020011	electrical set GE with heater 2 kW 230 V - K6/4" (I)				•	•					
41-030011	electrical set GE with heater 3 kW 230 V - K6/4" (I)				•	•					
41-045010	electrical set GE with heater 4,5 kW 400 V - K6/4"				•	•	•	•	•		
41-060010	electrical set GE with heater 6 kW 400 V - K6/4"				•	•	•	•	•		
41-090010	electrical set GE with heater 9 kW 400 V - K6/4"					•	•	•	•	•	•
41-120010	electrical set GE with heater 12 kW 400 V - K6/4"						•	•	•	•	•
41-045015	electrical set GE with heater 4,5 kW 400 V - K6/4" Elektronik				•	•	•	•			
41-060015	electrical set GE with heater 6 kW 400 V - K6/4" Elektronik				•	•	•	•			

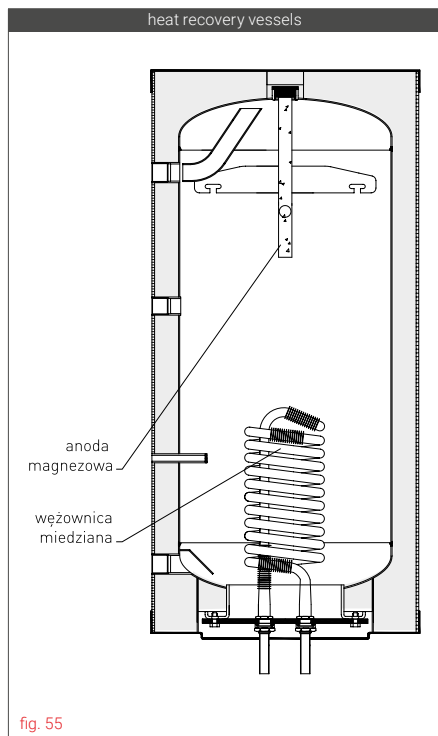
* Details in the warranty card.

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.

CUSTOM-MADE WATER HEATERS

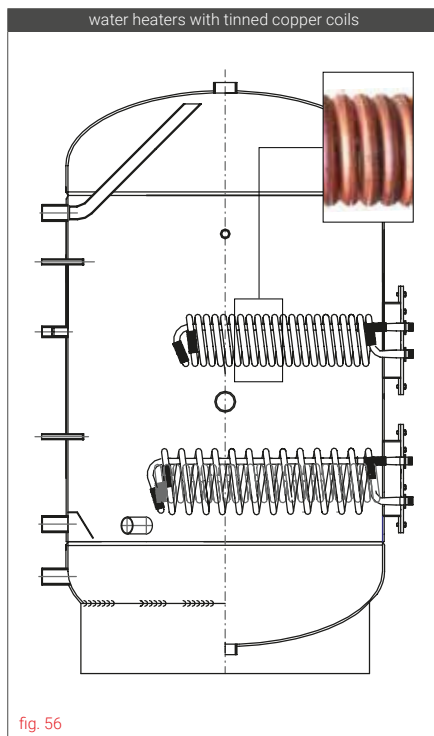
heat recovery vessels



Available types: 80, 100, 120, 140

- ▶ surface 0,9 m²
- ▶ refrigerant R134a
- ▶ tank's max. working pressure 25 bar

water heaters with tinned copper coils



It is possible to install additional corrugated, tinned copper coils on flanges in water heaters from 200 to 1500:
1,0 m² / 1,8 m² / 2,3 m² / 3,6 m² / 4,5 m²

buffers with flanged connections



Ability to connect the tanks through flanges, which minimizes pressure losses and facilitates the flow of water between the tanks in the heating system.

AVAILABLE COLOURS

All indirect water heaters in a metal jacket are also available in other (than white) housing colours (RAL number):



red 3020 - cat. no. ends in 30



green 6029 - cat. no. ends in 60



hammer 9105 - cat. no. ends in 40



blue 5015/5002 - cat. no. ends in 50



metallic 9006 - cat. no. ends in 90

The standard colour for a jacket made of artificial leather is grey; the following colours are also available:



red - cat. no. ends in 30



green - cat. no. ends in 60



blue - cat. no. ends in 50

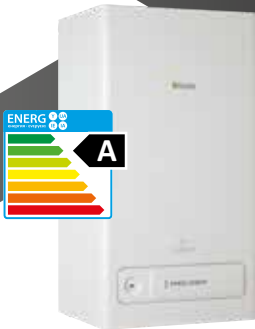



white - cat. no. ends in 70

Surcharge is applied for a different colour of the metal jacket. Changing the colour of the artificial leather is free of charge.

SETS WITH GAS BOILERS

Eco Blue 1 GT (gas boiler + SGW(S) Vulcan Kombi water heater)

+

PAROS GREEN 25 R.S.I.
single-function gas boiler

SGW(S) Vulcan Kombi 120
water heater

Advantages of the Eco Blue 1 GT set:

- ▶ Thanks to the SGW(S) Vulcan Kombi water heater it is possible to use the gas boiler for central heating (CH) as well as domestic hot water heating (DHW).
- ▶ Hot water comfort from several outlets at the same time.
- ▶ Gas boiler power modulation from 3 kW.
- ▶ High efficiency of the gas boiler - 109,4% (at 30% power and 30°C on return).
- ▶ Ability to use a circulation pump.
- ▶ Ability to install an electrical set.

cat. no.	Eco Blue 1 GT
SG-0001GZ	PAROS GREEN 25 R.S.I. single-function gas boiler (cat. no. M-010198) + SGW(S) Vulcan Kombi 120 water heater (cat. no. 26-125500)

Eco Blue 2 GT (gas boiler + SG(S) Fusion layer tank)




+

PAROS GREEN 25 C.S.I. MTN
dual-function gas boiler

SG(S) Fusion 100
layer tank

Advantages of the Eco Blue 2 GT set:

- ▶ Even greater savings and longer life of the gas boiler thanks to the SG(S) Fusion tank layer (the gas boiler does not switch on during low water usages).
- ▶ Hot water comfort from several outlets at the same time.
- ▶ Gas boiler power modulation from 3 kW.
- ▶ High efficiency of the gas boiler - 109,4% (at 30% power and 30°C on return).
- ▶ How water temperature even at small water stream.
- ▶ Ability to use a circulation pump.
- ▶ Ability to install an electrical set.

cat. no.	Eco Blue 2 GT
SG-0002GZ	PAROS GREEN 25 C.S.I. MTN dual-function gas boiler (cat. no. M-010197) + SG(S) Fusion 100 layer tank (cat. no. 22-107500)

ACCESSORIES AND SPARE PARTS

no.	cat. no.	item
1	M-000355	Active titanium anode (small) with a power adapter and screw M8 (without a plug)
2	M-000650	Active titanium anode (large) with a power adapter and screw M8 (without a plug)
3	M-004420	Active titanium anode (large double Maxi) with a power adapter and screw M8 (without a plug)
4	M-007342	Active titanium anode (large double Maxi) with a power adapter and screw M8 - only for SGW(S)B 1500 water heaters (without a plug)
5	M-003053	Magnesium anode Ø18x40 M6
6	M-007910	Magnesium anode Ø18x40 on a rod 85 M6, Mars
7	M-006333	Magnesium anode Ø22x40 on a rod 160 mm M6, 5-10
8	M-006317	Magnesium anode Ø25x80 on a rod 200 mm M6, Longer 30
9	M-006316	Magnesium anode Ø25x190 on a rod 200 mm M6, Longer 50-80
10	M-000003	Magnesium anode Ø25x200 M8
11	M-000004	Magnesium anode Ø25x310 M8
12	40-262200	Magnesium anode Ø25x310 5/4" brass plug
13	M-000005	Magnesium anode Ø25x390 M8
14	40-262300	Magnesium anode Ø25x390 5/4" brass plug
15	40-263300	Magnesium anode Ø25x390 2" brass plug
16	40-262302	Magnesium anode Ø26x550 5/4" brass plug, SGW(S) Vulcan Kombi 100-140
17	40-262400	Magnesium anode Ø33x200 5/4" brass plug
18	40-262500	Magnesium anode Ø33x250 5/4" brass plug
19	M-005148	Magnesium anode Ø38x200 M8
20	M-001803	Magnesium anode Ø38x400 M8
21	40-263800	Magnesium anode Ø38x400 5/4" brass plug
22	40-263500	Magnesium anode Ø38x400 2" brass plug
23	40-263901	Magnesium anode Ø38x600 5/4" brass plug
24	40-263900	Magnesium anode Ø38x600 2" brass plug
25	M-000008	Above-basin tap - metal (no hoses)
26	M-000010	Below-basin three-way tap (with hoses)
27	M-006132	Electronic temperature sensor
28	M-005552	Electronic controller Neptun ² Elektronik (knob - old type)
29	M-006383	Electronic controller Neptun ² Elektronik (trapeze - new type)
30	M-007138	Electronic controller Vulcan Elektronik Pro (ST-385)
31	M-003194	Heater 1,5 kW, 230V "Safety-pin" stainless element, without a plug
32	M-005722	Heater 2 kW, 230V "Safety-pin" stainless element, without a plug
33	40-130400	Heater 1,5 kW 230V 5/4" plug
34	40-130100	Heater 1,5 kW 230V 2" plug
35	M-006281	Heater 1,5 kW, 230V 5/4" plug + probe (5, 10, Mars)
36	40-130300	Heater 1,5 kW 230V for enamelled tank flange Ø ext. 125 mm/5 screws, without anode
37	40-130315	Heater 1,5 kW 230V for enamelled tank flange Ø ext. 125 mm/5 screws (since 09.2017)
38	40-130301	Heater 1,5 kW 230V for enamelled tank flange Ø ext. 125 mm/6 screws, without anode
39	40-130600	Heater 2 kW 230V for enamelled tank flange Ø ext. 125 mm/5 screws, without anode
40	40-130615	Heater 2 kW 230V for enamelled tank flange Ø ext. 125 mm/5 screws (since 09.2017)
41	40-130601	Heater 2 kW 230V for enamelled tank flange Ø ext. 125 mm/6 screws, without anode
42	40-130607	Heater 2 kW, 230V for enamelled tank flange Ø ext. 125 mm / 5 screws (sensor steel cover)
43	40-130610	Heater for an electrical set 2 kW 230V flange Ø180
44	40-130620	Heater for an electrical set 3 kW 230V flange Ø180
45	40-132400	Heater for an electrical set 4,5 kW (3*1,5kW) flange 180
46	40-132300	Heater for an electrical set 6 kW (3*2 kW) flange 180
47	40-131710	Heater for an electrical set 9 kW (3*3 kW) flange 180
48	40-131810	Heater for an electrical set 12 kW (3*4kW) flange 180
49	40-131910	Heater for an electrical set 18 kW (3*6 kW) flange 180
50	40-132010	Heater for an electrical set 24 kW (3*8kW) flange 180
51	41-020001	Electrical set GE with heater 2 kW 230V - K5/4" (I)
52	41-020011	Electrical set GE with heater 2 kW 230V - K6/4" (I)
53	41-030001	Electrical set GE with heater 3 kW 230V - K5/4" (I)
54	41-030011	Electrical set GE with heater 3 kW 230V - K6/4" (I)
55	41-045010	Electrical set GE with heater 4,5 kW 400V - K6/4"
56	41-060010	Electrical set GE with heater 6 kW 400V - K6/4"

no.	cat. no.	item
57	41-090010	Electrical set GE with heater 9 kW 400V - K6/4"
58	41-120010	Electrical set GE with heater 12 kW 400V - K6/4"
59	41-045015	Electrical set GE with heater 4,5 kW 400V - K6/4" Elektronik
60	41-060015	Electrical set GE with heater 6 kW 400V - K6/4" Elektronik
61	41-090020	Electrical set GE with heater 9 kW 400V flange Ø 280 mm
62	41-120020	Electrical set GE with heater 12 kW 400V flange Ø 280 mm
63	41-180020	Electrical set GE with heater 18 kW 400V flange Ø 280 mm
64	41-240020	Electrical set GE with heater 24 kW 400V flange Ø 280 mm
65	M-005046	Brass plug 1/2"
66	M-006329	Brass plug 5/4"
67	M-005550	Brass plug 6/4"
68	M-006330	Brass plug 2"
69	40-300107	Brass plug 5/4" with a Ø 10 hole mm for mounting the titanium anode
70	M-006728	Brass plug 2" with a Ø 10 hole mm for mounting the titanium anode
71	40-140100	Heater control module SGW(L) up to 2 kW, 230 V, foam
72	40-140200	Heater control module up to 2 kW 230 V, small cover
73	40-140201	Heater control module up to 2 kW 230 V, big cover
74	40-140202	Heater control module 3 kW, 230V, big cover
75	40-140501	Heater control module 4,5 kW 400 V
76	40-140500	Heater control module 6 kW 400 V
77	40-140600	Heater control module for horizontal heaters 4,5-6 kW 400 V
78	40-140700	Heater control module 9 kW 400 V
79	40-140800	Heater control module 12 kW 400 V
80	40-140900	Heater control module 18 kW 400 V
81	40-141000	Heater control module 24 kW 400 V
82	M-000016	Temperature limiter BOT 10A, up to 2 kW 230 V bimetallic
83	M-008880	Temperature limiter 16A, up to 3 kW 230 V capillary
84	M-008674	O-ring 6/4"
85	M-000075	O-ring 5/4"
86	M-008690	O-ring 2"
87	M-006559	Sensor cover (probe) - copper 1/2" L=100
88	M-006497	Sensor cover (probe) - copper 1/2" L=200
89	M-006499	Sensor cover (probe) - copper 3/4" L=110
90	40-300207	Metal flange lid Ø 125 mm with coupling 5/4" - 5 holes
91	40-300208	Metal flange lid Ø 125 mm with coupling 5/4" - 6 holes
92	40-300230	Flange lid Ø 180 mm with coupling 6/4" - steel
93	40-300239	Flange lid Ø 180 mm with a Ø 10 hole mm for mounting the titanium anode - steel
94	40-300283	Flange lid Ø 180 mm with a hole for mounting the magnesium anode - steel
95	40-300212	Metal flange lid 180 mm - full
96	M-000037	Bimetallic thermometer 66/G P/8 1/2"
97	M-005267	Thermoregulator EGO 4,5-12 kW 400V
98	M-000040	Thermoregulator 16A, 230V CZ
99	M-000041	Professional thermoregulator (for CH boiler's controller)
100	40-500110	Gasket Ø 96mm for a flange 125 mm
101	40-500111	Gasket Ø 96 for a flange with heater Ø ext. 125 mm
102	40-500106	Gasket for a flange Ø ext. 125 mm / 5 screws
103	40-500114	Gasket for a flange Ø ext. 125 mm / 6 screws
104	40-500121	Gasket Ø125/62 for a flange Ø 125 mm with coupling 5/4" - 5 screws
105	40-500122	Gasket Ø96/65 for a flange Ø 125 mm with coupling 5/4" - 6 screws
106	M-005893	Gasket for a flange with heater Ø ext. 125 mm / 5 screws
107	40-500120	Gasket for a flange with 3 heaters Ø180 mm
108	M-006536	Flange gasket Ø180 mm
109	40-500108	Flange gasket Ø180 mm with a hole for mounting the magnesium anode
110	M-005377	Gasket for a flange Ø 260 mm for combined heat accumulation vessels
111	M-004042	Hose to above-basin tap (250 mm in length) 1/2": 14x1
112	40-000300	Mounting brackets for central heating equalising tank
113	40-000100	Mounting brackets with regulation for horizontal water heaters GT 80-140, set
114	40-000400	Mounting brackets for horizontal water heaters 200-300
115	M-000413	Safety valve 6 bar 1/2" ZB-4 Slim
116	M-000043	Safety valve 6 bar 1/2" ZB-4
117	M-000044	Safety valve 6 bar 3/4" ZB-8
118	M-006881	Safety valve 9 bar 3/4" ZB-8
119	M-000303	Mixing valve unit
120	M-009814	Plastic sleeve Ø ext. 1"
121	M-009815	Plastic sleeve Ø ext. 3/4"

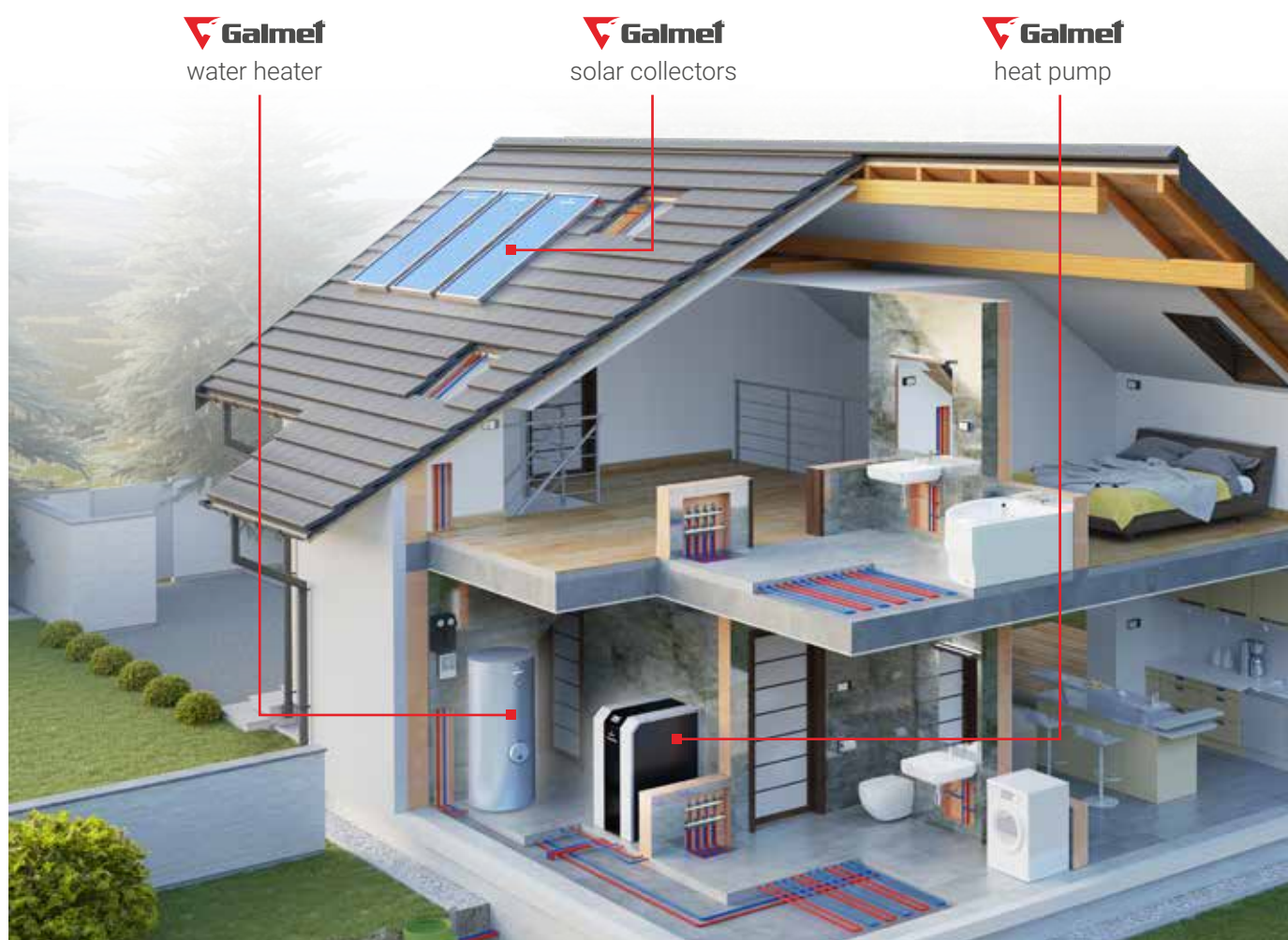
GALMET'S COMPLETE HYBRID SYSTEMS

Advantages of choosing a hybrid heating system:

- ▶ Single controller for the whole system.
- ▶ Single manufacturer, installer and service.
- ▶ Discount price compared to buying the devices alone.
- ▶ Our advisors' help in selecting the right devices for your needs.
- ▶ Assistance in finding a local contractor.
- ▶ Hybrid systems that use renewable energy sources are eligible for subsidy.
- ▶ Better quality of the natural environment you live in.



▶ By purchasing all of the devices for your house's heating system from a **single manufacturer**, you can be sure that your investment will be optimally configured and tailored directly for your individual needs.



EXEMPLARY SCHEMES OF **GALMET'S** HYBRID HEATING SYSTEM

Hybrid system

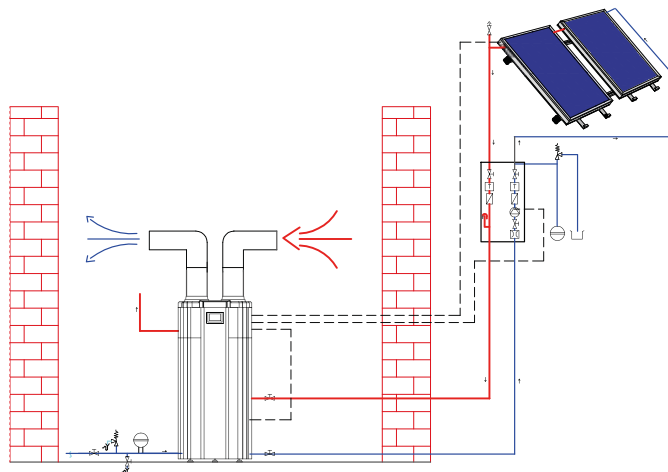
α - alfa

Design assumptions:

- ▶ For domestic hot water heating
- ▶ Number of people: 2-4

The system includes:

- ▶ 2 flat solar collectors KSG 21 Premium GT with equipment
- ▶ Spectra 200 heat pump



Hybrid system

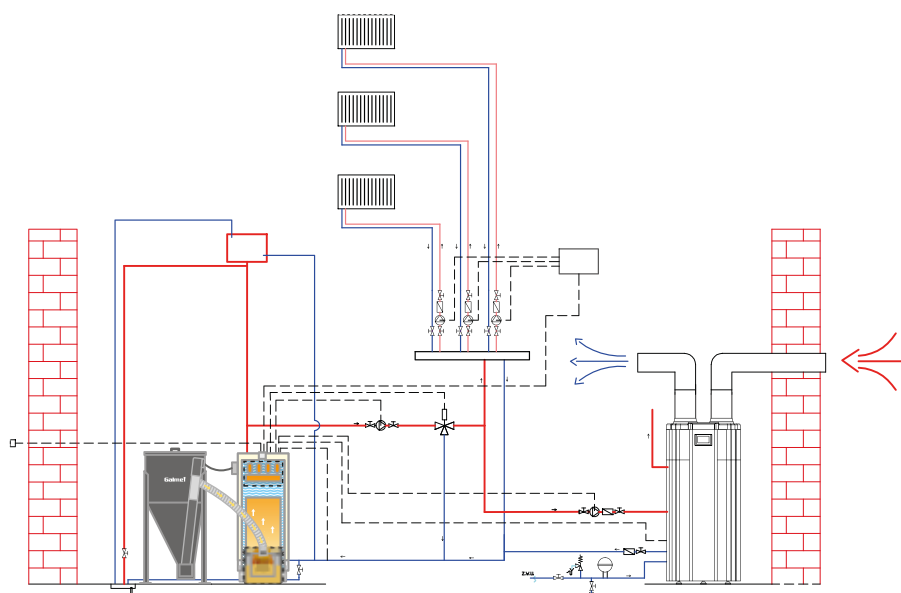
β - beta

Design assumptions:

- ▶ Heating surface area up to 160 m²
- ▶ Number of people: 3-4

The system includes:

- ▶ Spectra 200 heat pump
- ▶ Genesis KPP 16 kW pellet CH boiler



The proposed installation project is only an exemplary solution and is designed to comply with existing standards and norms. Please note that each investment should be consulted beforehand with a designer and adapted to existing conditions and requirements of a specific installation.

Devices included in the hybrid systems are not eligible to standard discounts and may not be separated for further resale.

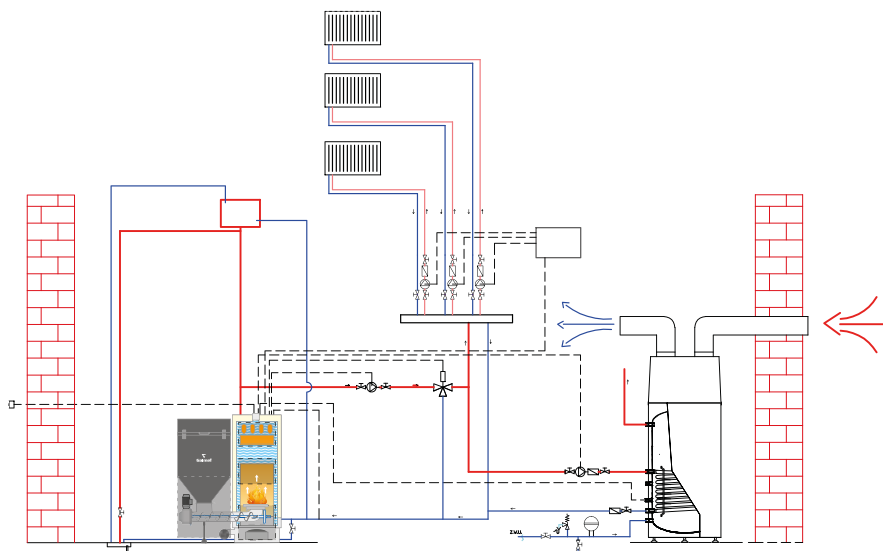
Hybrid system **γ - gamma**

Design assumptions:

- ▶ Heating surface area up to 180 m²
- ▶ Number of people: 3-4

The system includes:

- ▶ Basic 200 heat pump
- ▶ Galaxia KWE 18 kW CH boiler



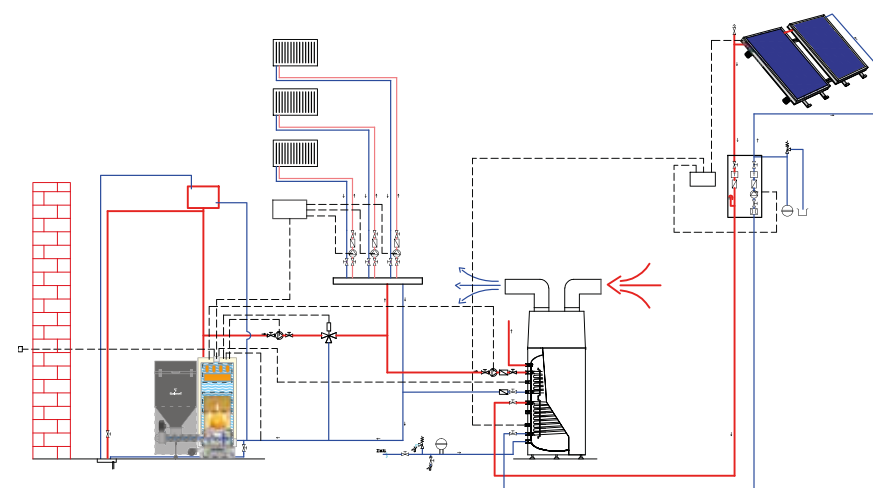
Hybrid system **Δ - delta**

Design assumptions:

- ▶ Heating surface area up to 220 m²
- ▶ Number of people: 3-4

The system includes:

- ▶ Basic 270 heat pump
- ▶ Galaxia KWE 22 kW CH boiler
- ▶ 2 flat solar collectors
KSG 27 GT with equipment



The proposed installation project is only an exemplary solution and is designed to comply with existing standards and norms. Please note that each investment should be consulted beforehand with a designer and adapted to existing conditions and requirements of a specific installation.

Devices included in the hybrid systems are not eligible to standard discounts and may not be separated for further resale.

EXEMPLARY SCHEMES OF **GALMET'S** HYBRID HEATING SYSTEM

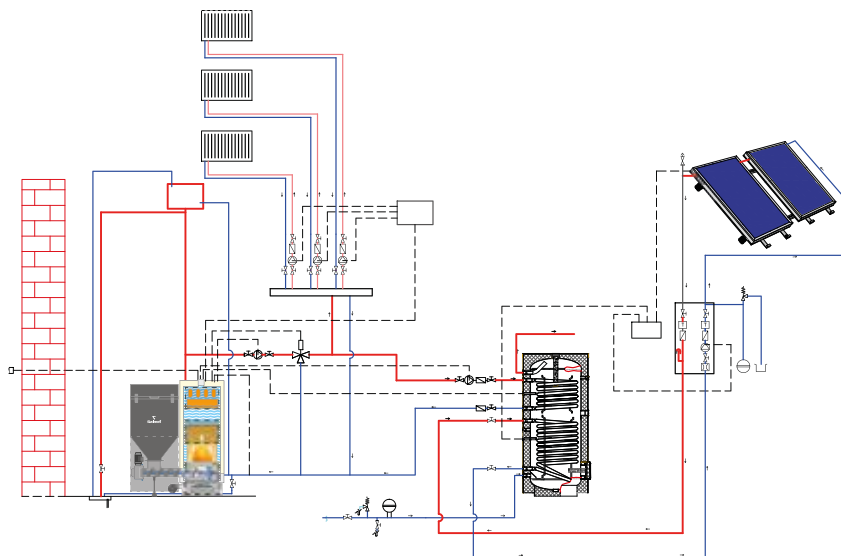
Hybrid system **ε - epsilon**

Design assumptions:

- ▶ Heating surface area up to 150 m²
- ▶ Number of people: 3-5

The system includes:

- ▶ 3 flat solar collectors KSG 21 GT with equipment
- ▶ SGW(S)B Tower Biwal 300 bivalent water heater
- ▶ Galaxia KWE 15 kW CH boiler



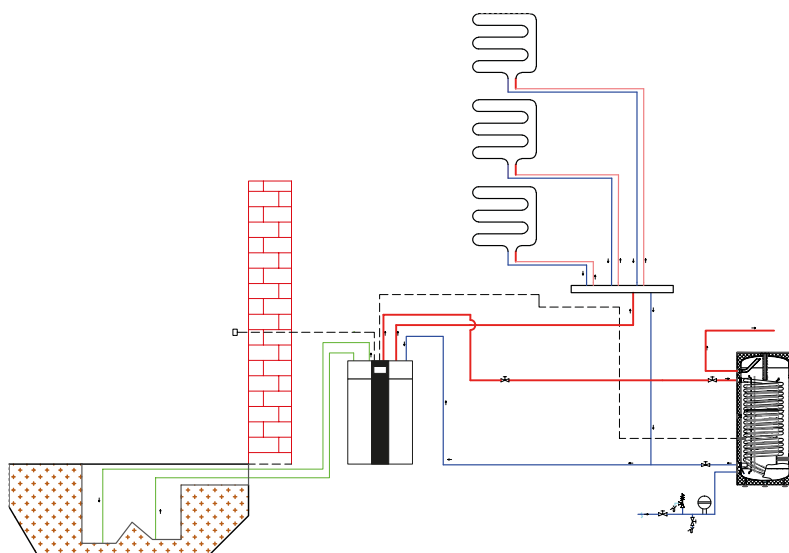
Hybrid system **ζ - zeta**

Design assumptions:

- ▶ Heating surface area up to 150 m²
- ▶ Number of people: 4-6

The system includes:

- ▶ Maxima 10GT heat pump
- ▶ SGW(S) Maxi 250 water heater



The proposed installation project is only an exemplary solution and is designed to comply with existing standards and norms. Please note that each investment should be consulted beforehand with a designer and adapted to existing conditions and requirements of a specific installation.

Devices included in the hybrid systems are not eligible to standard discounts and may not be separated for further resale.

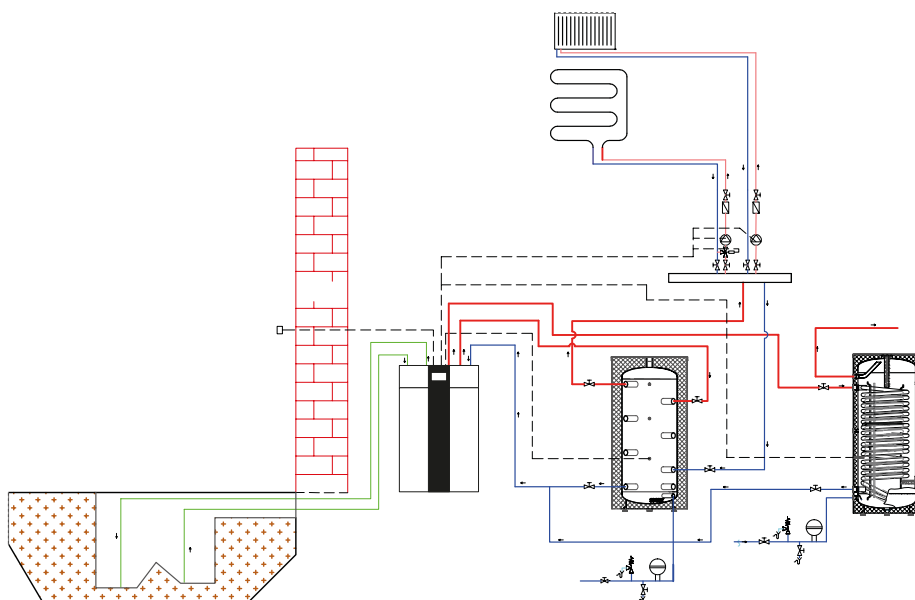
Hybrid system **η - eta**

Design assumptions:

- ▶ Heating surface area up to 180 m²
- ▶ Number of people: 3-5

The system includes:

- ▶ Maxima 12GT heat pump
- ▶ SGW(S) Maxi 300 water heater
- ▶ SG(B) 400 buffer tank



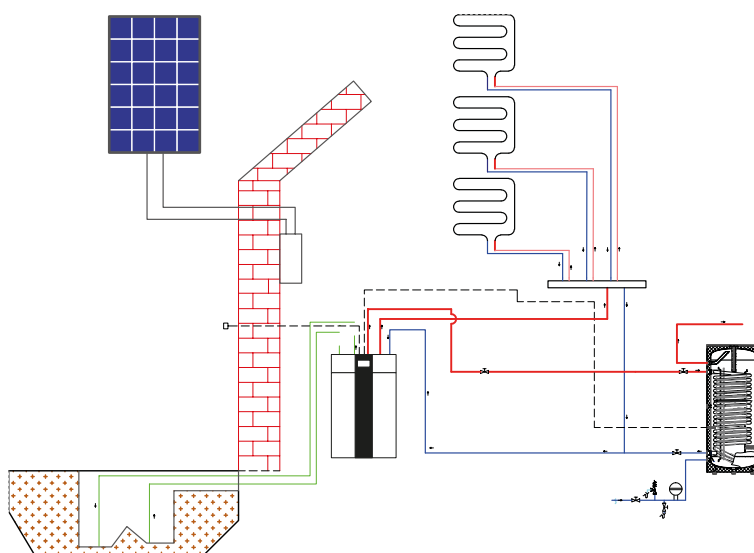
Hybrid system **Energy Max GT**

Design assumptions:

- ▶ Heating surface area up to 150 m²
- ▶ Number of people: 4-6

The system includes:

- ▶ Maxima 10GT heat pump
- ▶ 2,5 kW ON-GRID photovoltaic set with a 3-phase inverter
- ▶ SGW(S) Maxi 300 water heater



The proposed installation project is only an exemplary solution and is designed to comply with existing standards and norms. Please note that each investment should be consulted beforehand with a designer and adapted to existing conditions and requirements of a specific installation.

Devices included in the hybrid systems are not eligible to standard discounts and may not be separated for further resale.

EXEMPLARY SCHEMES OF **GALMET'S** HYBRID HEATING SYSTEM

Hybrid system

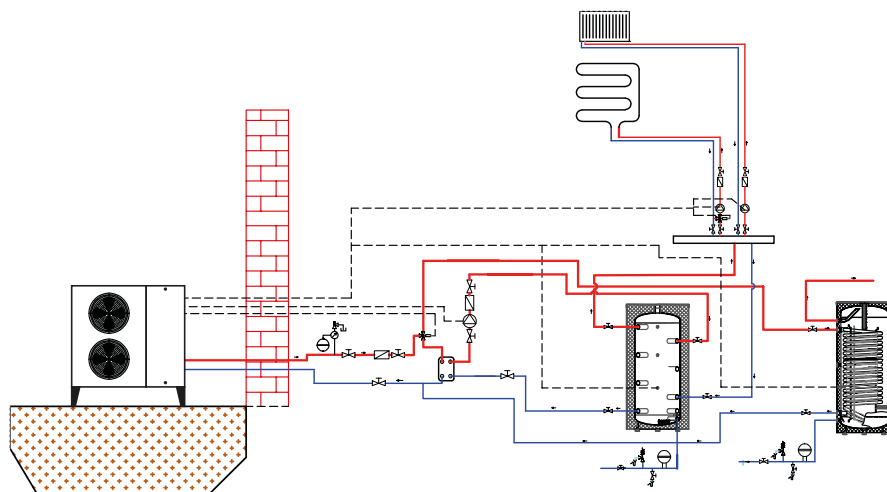
l - jota

Design assumptions:

- ▶ Heating surface area up to 130 m²
- ▶ Number of people: 3-5

The system includes:

- ▶ Airmax² 12GT heat pump
- ▶ SGW(S) Maxi 300 water heater
- ▶ SG(B) 300 buffer tank



Hybrid system

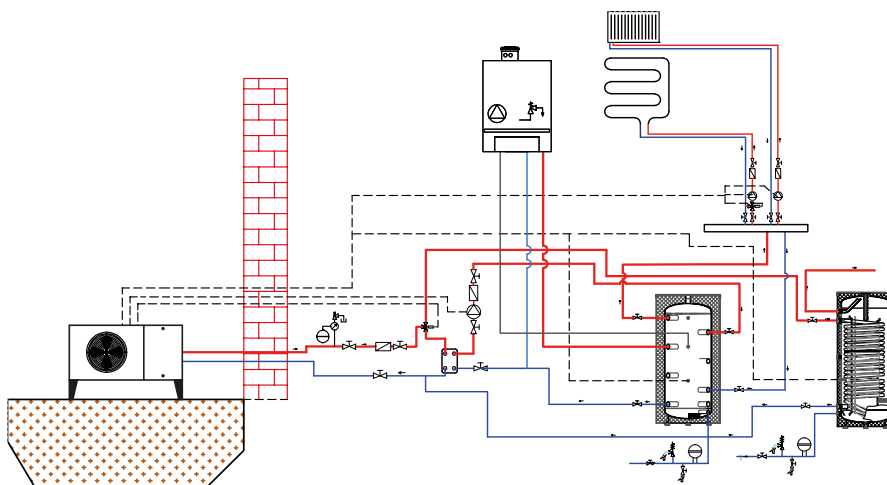
l - jota eco blue

Design assumptions:

- ▶ Heating surface area up to 130 m²
- ▶ Number of people: 3-5

The system includes:

- ▶ Airmax² 9GT heat pump
- ▶ PAROS GREEN 25 R.S.I. single-function gas boiler
- ▶ SGW(S) Maxi 250 water heater
- ▶ SG(B) 300 buffer tank



The proposed installation project is only an exemplary solution and is designed to comply with existing standards and norms. Please note that each investment should be consulted beforehand with a designer and adapted to existing conditions and requirements of a specific installation.

Devices included in the hybrid systems are not eligible to standard discounts and may not be separated for further resale.

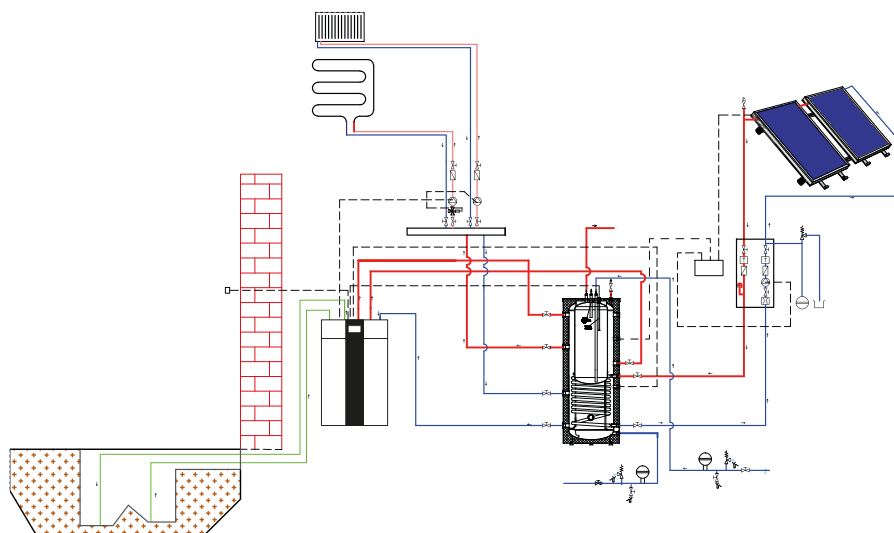
Hybrid system o - omicron

Design assumptions:

- ▶ Heating surface area up to 120 m²
- ▶ Number of people: 3-5

The system includes:

- ▶ Maxima 7GT heat pump
- ▶ 3 flat solar collectors
- ▶ KSG 21 Premium GT with equipment
- ▶ SG(K) 380/120 combined heat accumulation vessel with 1 spiral coil



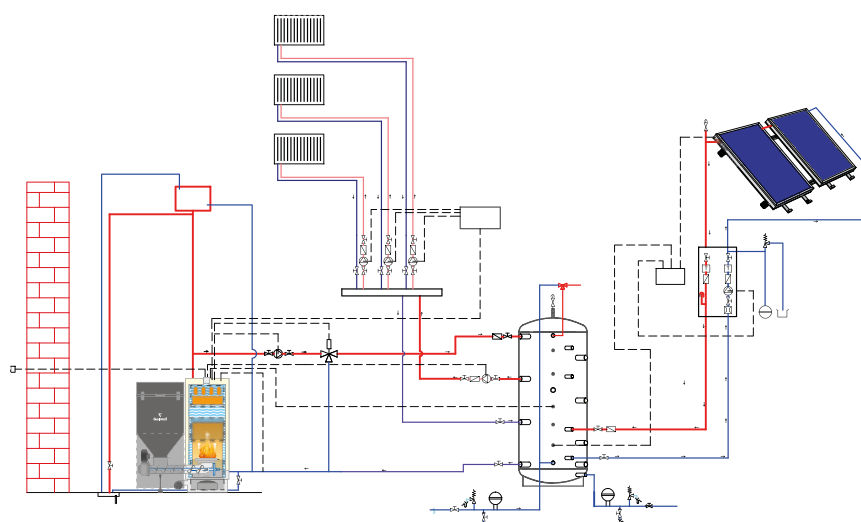
Hybrid system Y - ypsilon

Design assumptions:

- ▶ Heating surface area up to 220 m²
- ▶ Number of people: 6-10

The system includes:

- ▶ 7 flat solar collectors
- ▶ KSG 21 Premium GT with equipment
- ▶ Galaxia KWE 22 kW CH boiler
- ▶ Multi-Inox 1000 hygienic stratification buffer tank



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EXEMPLARY SCHEMES OF **GALMET'S** HYBRID HEATING SYSTEM

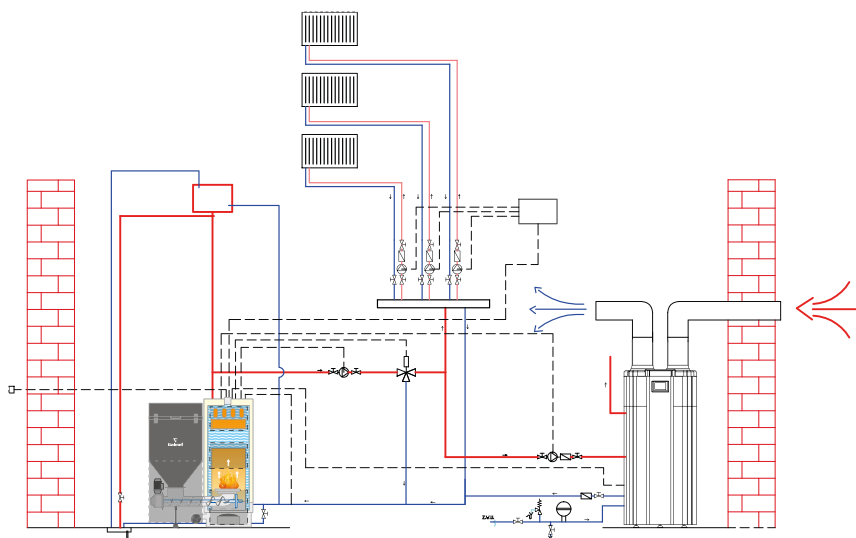
Hybrid system **Mini**

Design assumptions:

- ▶ Heating surface area up to 150 m²
- ▶ Number of people: 3-4

The system includes:

- ▶ Spectra 200 heat pump
- ▶ Galaxia KWE 15 kW CH boiler



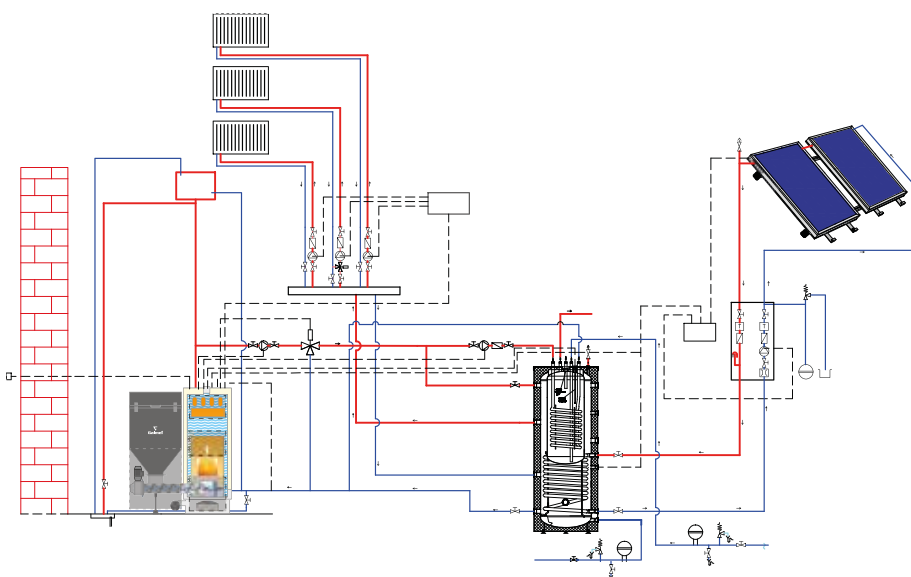
Hybrid system **Midi**

Design assumptions:

- ▶ Heating surface area up to 170 m²
- ▶ Number of people: 2-3

The system includes:

- ▶ 2 flat solar collectors
- ▶ KSG 21 Premium GT with equipment
- ▶ SG(K) 380/120 combined heat accumulation vessel with 2 spiral coils
- ▶ Galaxia KWE 18 kW CH boiler



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LIST OF GALMET'S HYBRID HEATING SYSTEMS

system's name	catalogue number	system includes
Energy Flow GT	SG-000013	- Spectra 200 heat pump (cat. no. 09-363100) - 2,0 kW ON-GRID photovoltaic set with a 1-phase inverter (cat. no. 10-901100)
Energy Max GT	SG-000014	- Maxima 10GT heat pump (cat. no. 09-161000) - 2,5 kW ON-GRID photovoltaic set with a 3-phase inverter (cat. no. 10-901101) - SGW(S) Maxi 300 water heater (cat. no. 26-308100)
Energy Air GT	SG-000016	- Airmax ² 12 GT heat pump (cat. no. 09-261200) - 2,5 kW ON-GRID photovoltaic set with a 3-phase inverter (cat. no. 10-901101) - SGW(S) Maxi 300 water heater (cat. no. 26-308100)
α - alfa	SG-000017	- Spectra 200 heat pump (cat. no. 09-363100) - 2 flat solar collectors KSG 21 Premium GT (cat. no. 08-102102) with equipment
β - beta	SG-000018	- Spectra 200 heat pump (cat. no. 09-363100) - Genesis KPP 16 kW pellet CH boiler (cat. no. 07-165000)
γ - gamma	SG-000019	- Basic 200 heat pump (cat. no. 09-353102) - Galaxia KWE 18 kW CH boiler (cat. no. 07-182430)
Δ - delta	SG-000020	- Basic 270 heat pump with 2 spiral coils (cat. no. 09-355201) - Galaxia KWE 22 kW CH boiler (cat. no. 07-222430) - 2 flat solar collectors KSG 27 GT (cat. no. 08-102712) with equipment
ε - epsilon	SG-000021	- 3 flat solar collectors KSG 21 GT (cat. no. 08-102112) with equipment - SGW(S)B Tower Biwal 300 water heater (cat. no. 26-309000) - Galaxia KWE 15 kW CH boiler (cat. no. 07-152430)
ζ - zeta	SG-000022	- Maxima 10GT heat pump (cat. no. 09-161000) - SGW(S) Maxi 250 water heater (cat. no. 26-258100)
η - eta	SG-000023	- Maxima 12GT heat pump (cat. no. 09-161200) - SGW(S) Maxi 300 water heater (cat. no. 26-308100) - SG(B) 400 buffer tank (cat. no. 70-400000)
θ - theta	SG-000024	- Maxima 10GT heat pump (cat. no. 09-161000) - SGW(S) Maxi 250 water heater (cat. no. 26-258100) - SG(B) 300 buffer tank (cat. no. 70-300000) - 3,0 kW ON-GRID photovoltaic set with a 3-phase inverter (cat. no. 10-901801)
ι - jota	SG-000025	- Airmax ² 12GT heat pump (cat. no. 09-261200) - SGW(S) Maxi 300 water heater (cat. no. 26-308100) - SG(B) 300 buffer tank (cat. no. 70-300000)
ι - jota eco blue	SG-000025.1	- Airmax ² 9GT heat pump (cat. no. 09-260900) - PAROS GREEN 25 R.S.I. single-function gas boiler (M-010198) - SGW(S) Maxi 250 water heater (cat. no. 26-258100) - SG(B) 300 buffer tank (cat. no. 70-300000)
κ - kappa	SG-000026	- Airmax ² 9GT heat pump (cat. no. 09-260900) - Plate heat exchanger (glycol-water) for the Airmax ² 9GT heat pump (cat. no. 09-000100) - SGW(S) Maxi 250 water heater (cat. no. 26-258100) - SG(B) 200 buffer tank (cat. no. 70-200000)
λ - lambda	SG-000027	- Airmax ² 15GT heat pump (cat. no. 09-261500) - SGW(S) Maxi 400 water heater (cat. no. 26-408100) - SG(B) 500 buffer tank (cat. no. 70-500600) - 3,0 kW ON-GRID photovoltaic set with a 3-phase inverter (cat. no. 10-901801)
ξ - ksi	SG-000028	- Airmax ² 15GT heat pump (cat. no. 09-261500) - Plate heat exchanger (glycol-water) for the Airmax ² 15GT heat pump (cat. no. 09-000101) - 6 flat solar collectors KSG 21 Premium GT (cat. no. 08-102102) with equipment - SG(K) 600/200 combined heat accumulation vessel with 1 spiral coil (cat. no. 71-608000)
ο - omicron	SG-000029	- Maxima 7GT heat pump (cat. no. 09-160700) - 3 flat solar collectors KSG 27 Premium GT (cat. no. 08-102702) with equipment - SG(K) 380/120 combined heat accumulation vessel with 1 spiral coil (cat. no. 71-404000)
Σ - sigma	SG-000030	- Maxima 7GT heat pump (cat. no. 09-160700) - 3 flat solar collectors KSG 27 Premium GT (cat. no. 08-102702) with equipment - SGW(S)B Maxi Plus 300 water heater (cat. no. 26-309100)
Υ - ypsilon	SG-000031	- 7 flat solar collectors KSG 21 Premium GT (cat. no. 08-102102) with equipment - Galaxia KWE 22 kW CH boiler (cat. no. 07-222430) - Multi-Inox 1000 hygienic stratification buffer tank (cat. no. 71-101600)
Ω - omega	SG-000032	- Airmax ² 15GT heat pump (cat. no. 09-261500) - 7 flat solar collectors KSG 21 Premium GT (cat. no. 08-102102) with equipment - Galaxia KWE 22 kW CH boiler (cat. no. 07-222430) - Multi-Inox 1000 hygienic stratification buffer tank (cat. no. 71-101600)
Mini	SG-000010	- Spectra 200 heat pump (cat. no. 09-363100) - Galaxia KWE 15 kW CH boiler (cat. no. 07-152430)
Midi	SG-000011	- 2 flat solar collectors KSG 27 Premium GT (cat. no. 08-102702) with equipment - SG(K) 380/120 combined heat accumulation vessel with 2 spiral coils (cat. no. 72-404000) - Galaxia KWE 18 kW CH boiler (cat. no. 07-182430)
Maxi	SG-000012	- Airmax ² 15GT heat pump (cat. no. 09-261500) - Genesis KPP 16 kW pellet CH boiler (cat. no. 07-165000) - SGW(S)B Maxi Plus 500 water heater (cat. no. 26-509100) - 3,0 kW ON-GRID photovoltaic set with a 3-phase inverter (cat. no. 10-901801) - SG(B) 400 buffer tank with 1 spiral coil (cat. no. 71-400000)

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