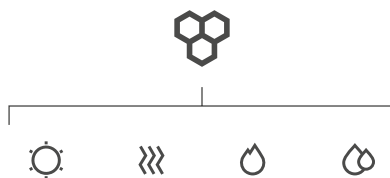




PRODUCT CATALOGUE FOR BUSINESS

08/2019



Leader in heating systems 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 Stanisław Galara, to one of the largest companies in the industry, employing over 700 people. Galmet is always at the forefront of innovation, creating Polish, technologically advanced, and eco-friendly heating systems for private households, public buildings, and industrial facilities. Available in multiple configurations, the heating systems guarantee maximum reliability, functionality, and efficiency.

All our products can be configured into highly efficient hybrid heating systems.



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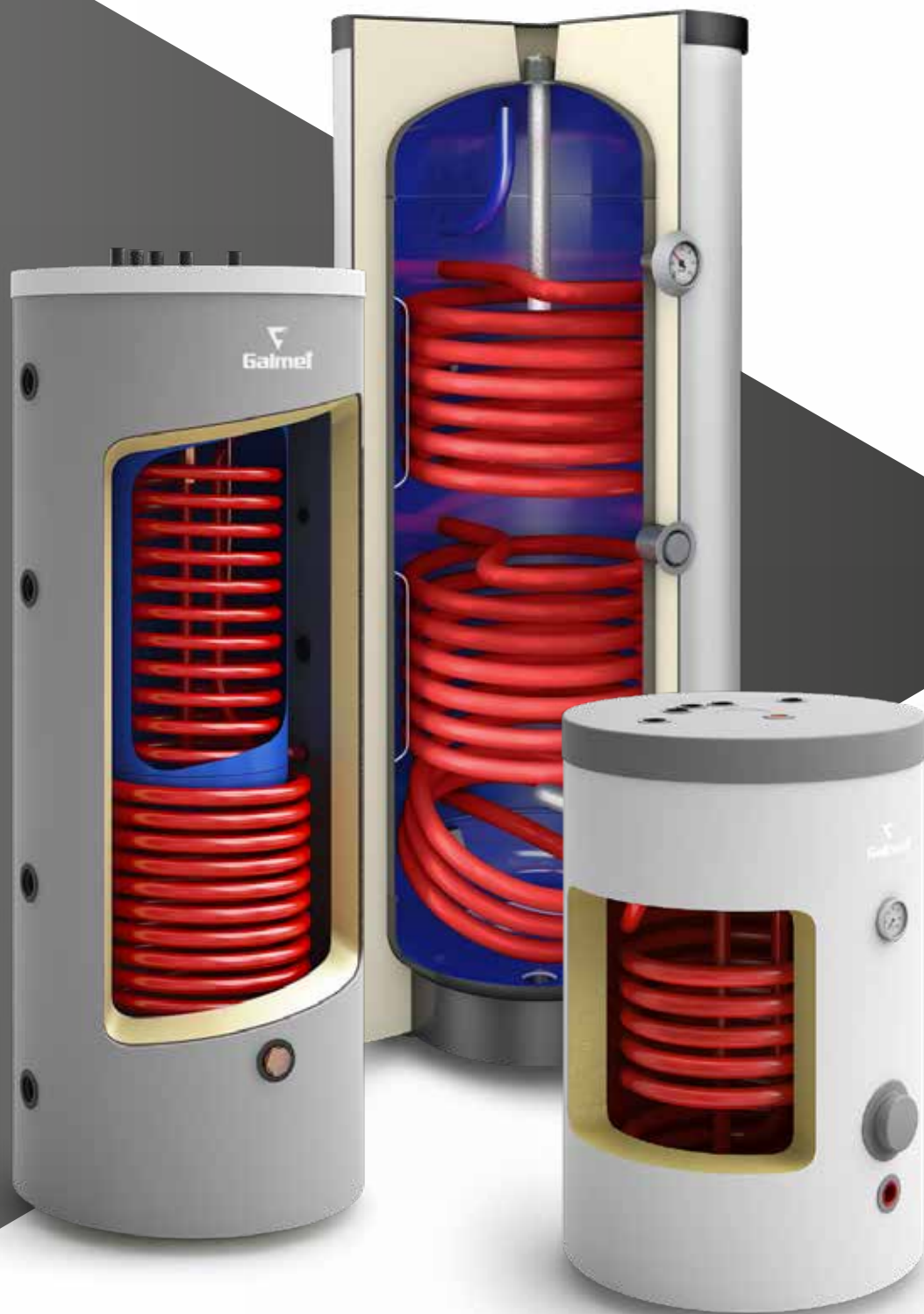
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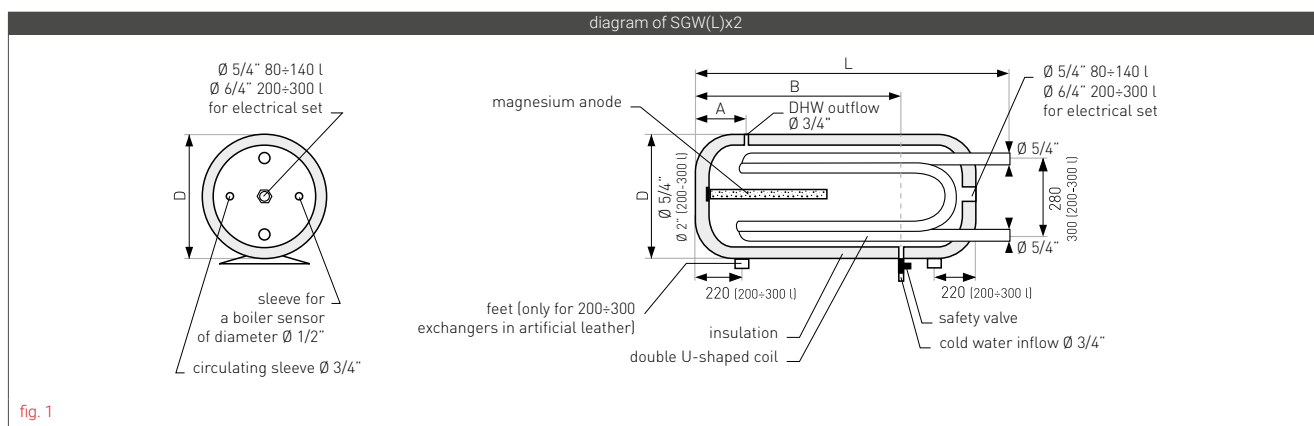
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HORIZONTAL WATER HEATERS - TYPE SGW(L)X2

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

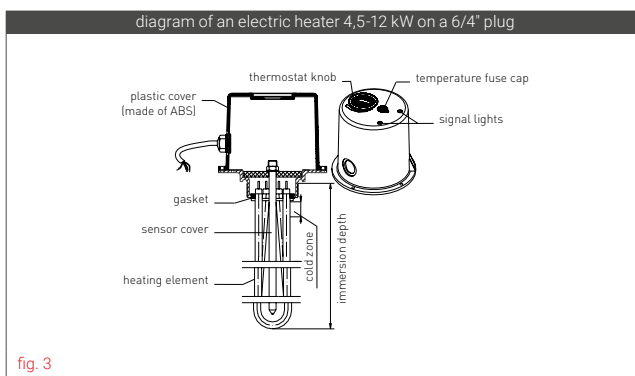
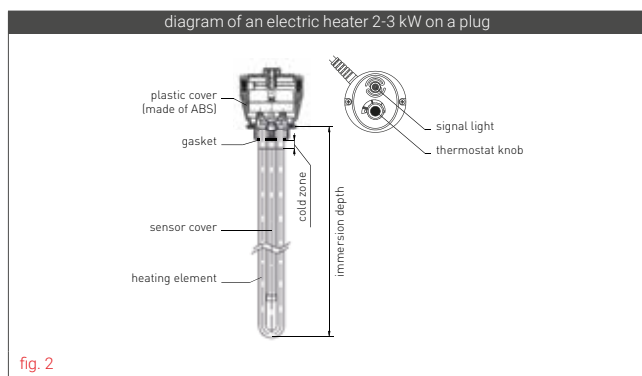
specification	unit	SGW(L)x2					
		80	100	120	140	200	300
storage capacity ¹	l	85	103,5	114	132	204	271
ErP	polystyrene foam	-	C	C	C	C	C
	polyurethane foam	-	C	C	C	-	-
tank's maximum working pressure	MPa	0,6	0,6	0,6	0,6	0,6	0,6
coil's maximum working pressure	MPa	0,6	0,6	0,6	0,6	0,6	0,6
tank's maximum working temperature	°C	95	95	95	95	95	95
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	257	257	351	351	390	431
magnesium anode	5/4" plug	33x200	33x200	33x250	33x250	-	-
	2" plug	-	-	-	-	38x400	38x400
D - external diameter	mm	470	470	470	470	660	660
L - length	mm	930	1090	1200	1350	1180	1460
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



ELECTRIC HEATERS

Technical specification of the electric heaters

specification	unit	MB electrical sets		Selfa electrical sets		Galmet electrical sets			
heater power	kW	2	3	2	3	4,5	6	9	12
voltage	V	230	230	230	230	400	400	400	400
range of working temperatures	°C	20-70		20-70		25-75 (+/- 5°C)			
submerging length	mm	370	360	297	355	410	480	600	600
cold zone	mm	55		55		90			



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



pic. 1
SGW(L)x2
in polyurethane foam



pic. 2
SGW(L)x2
in polystyrene foam

SGW(L)x2 80-140

cat. no.	type	description
21-084800	80	double U-shaped coil, polyurethane foam, EXTRA GLASS® ceramic enamel, magnesium anode
21-104800	100	
21-124800	120	
21-144800	140	
21-088000	80	double U-shaped coil, polystyrene foam, EXTRA GLASS® ceramic enamel, magnesium anode
21-108000	100	
21-128000	120	
21-148000	140	

Advantages of the SGW(L)x2

- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ Additional protection with magnesium anode.
- ▶ 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.

Mounting brackets for SGW(L)x2 80-140

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

SGW(L)x2 200-300

cat. no.	type	description
21-208000	200	double U-shaped coil, black polystyrene foam, EXTRA GLASS® ceramic enamel, magnesium anode
21-308000	300	

Mounting brackets for SGW(L)x2 200-300

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

Electrical sets for self-assembly

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

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



pic. 3
SGW(L)x2 200-300
in polystyrene foam



pic. 4
Electrical sets

* Details in the warranty card.

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	100	120	140
storage capacity ¹	l	88	107	119	137
ErP	polystyrene foam	-	B	B	B
	polyurethane foam	-	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	95	95	95	95
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
D - external diameter	mm	505	505	505	540
L - length	mm	850	1000	1090	1290
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

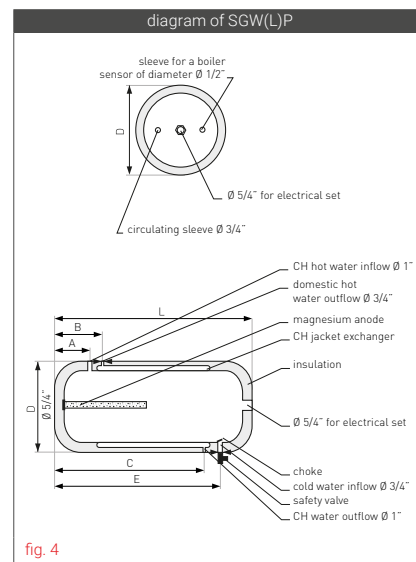


fig. 4

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	100	120	140
storage capacity ¹	l	88	107	119	137
ErP	polyurethane foam	mm	C	C	C
tank's maximum working pressure	MPa	0,6	0,6	0,6	0,6
tank's maximum working temperature	°C	95	95	95	95
magnesium anode 5/4" plug	mm	33 x200	33 x200	33 x250	33 x250
D - external diameter	mm	470	470	470	470
L - length	mm	930	1090	1210	1350
dimension A	mm	250	250	250	250
dimension B	mm	620	760	860	1015
net weight (in polyurethane foam)	kg	23	27	29	36

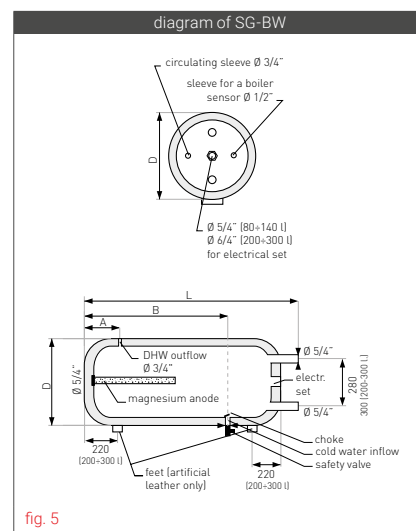


fig. 5

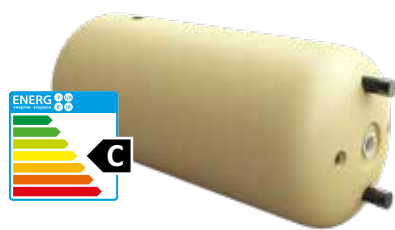
¹ According to the (EU) 812/2013, 814/2013.



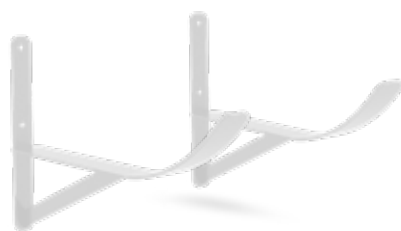
pic. 5
SGW(L)P
in polyurethane foam



pic. 6
SGW(L)P up to type 120
in polystyrene foam



pic. 7
SG-BW in polyurethane foam



pic. 8
mounting brackets for SGW(L)P and SG-BW



pic. 9
Electrical sets

SGW(L)P

cat. no.	type	description
20-084700	80	yellow polyurethane foam, EXTRA GLASS® ceramic enamel, magnesium anode
20-104700	100	
20-124700	120	
20-144700	140	
20-087000	80	black polystyrene foam, EXTRA GLASS® ceramic enamel, magnesium anode
20-107000	100	
20-127000	120	
20-147000	140	

Advantages of the SGW(L)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.
- ▶ Additional protection with magnesium anode.
- ▶ Circulation coupling as standard.
- ▶ Coupling for CH boiler sensor as standard.
- ▶ Ability to install an electrical set.

Mounting brackets and sensor covers for SGW(L)P

cat. no.	description
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

SG-BW

cat. no.	type	description
22-084700	80	without a spiral coil, polyurethane foam, EXTRA GLASS® ceramic enamel, magnesium anode
22-104700	100	
22-124700	120	
22-144700	140	

Advantages of the SG-BW

- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ Additional protection with magnesium anode.
- ▶ Circulation coupling as standard.
- ▶ Coupling for CH boiler sensor as standard.
- ▶ Ability to install an electrical set.

Mounting brackets for SG-BW

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

Electrical sets for self-assembly

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

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

* SGW(L)P and SG-BW 80-140 - 72 months warranty; SG-BW 200-300 - 60 months warranty. Details in the warranty card.

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) Neptun ² Kombi			
storage capacity ¹	l	80	100	120	140
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	1,6	1,6	1,6	1,6
tank's maximum working temperature	°C	95	95	95	95
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 (int. thread)	" / mm	3/4 / 250	3/4 / 250	3/4 / 250	3/4 / 250
h2 - sensor cover (Ø)	" / mm	3/8 / 375	3/8 / 375	3/8 / 375	3/8 / 375
h3 - circulation (int. thread)	" / mm	3/4 / 480	3/4 / 480	3/4 / 480	3/4 / 480
h4 - CH hot water inflow (int. thread)	" / mm	3/4 / 650	3/4 / 650	3/4 / 750	3/4 / 750
D - external diameter	mm	480	480	480	480
L - height	mm	920	1080	1200	1340
R - spacing	mm	100	100	100	100
dimension A	mm	185	185	185	185
net weight	kg	51	57	64	71

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

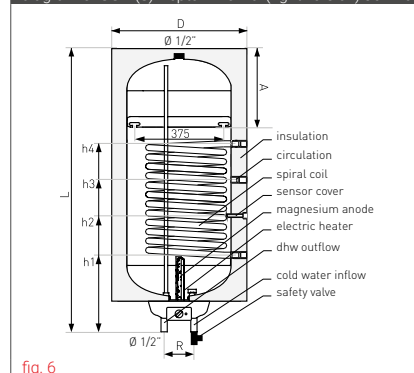


fig. 6

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

specification	unit	SGW(S) Mini Tower		
storage capacity ¹	l	100	120	140
ErP polystyrene foam	-	C	C	C
polurethane foam	-	B	B	B
tank's maximum working pressure	MPa	0,6	0,6	0,6
coil's maximum working pressure	MPa	1,6	1,6	1,6
tank's maximum working temperature	°C	95	95	95
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 (int. thread)	" / mm	3/4 / 210	3/4 / 165	3/4 / 165
h2 - CH water outflow (int. thread)	" / mm	3/4 / 310	3/4 / 250	3/4 / 250
h3 - sensor cover (Ø)	" / mm	3/8 / 400	3/8 / 375	3/8 / 375
h4 - circulation (int. thread)	" / mm	3/4 / 500	3/4 / 450	3/4 / 450
h5 - CH hot water inflow (int. thread)	" / mm	3/4 / 710	3/4 / 750	3/4 / 750
h6 - DHW outflow (int. thread)	" / mm	3/4 / 790	3/4 / 920	3/4 / 1070
D - external diameter	mm	518	518	518
L - height	mm	1040	1150	1290
net weight	kg	55	60	65

diagram of SGW(S) Mini Tower 100-140

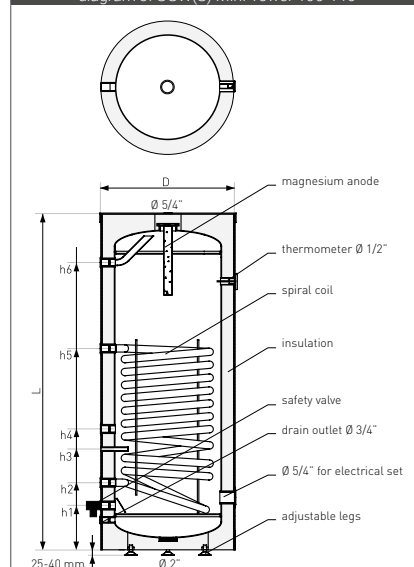


fig. 7

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

specification	unit	SGW(S) Vulcan Kombi			
storage capacity ¹	l	100	120	140	200
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	1,6	1,6	1,6	1,6
tank's maximum working temperature	°C	95	95	95	95
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 (ext. thread)	"	3/4	3/4	3/4	1
B - coil connections (ext. thread)	"	3/4	3/4	3/4	1
R - spacing	mm	280	280	280	380
net weight	kg	57	62	67	85

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

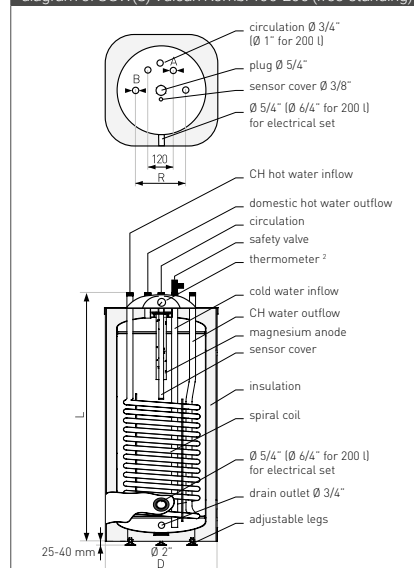


fig. 8

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

² 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.



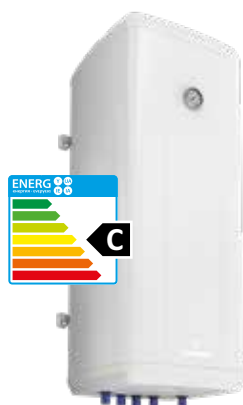
pic. 10
Neptun² Kombi (left version)



pic. 11
Neptun² Elektronik
controller



pic. 12
SGW(S) Mini Tower



pic. 13
SGW(S) Vulcan Kombi
wall-mounted 100-140



pic. 14
SGW(S) Vulcan Kombi
free-standing 100-140

SGW(S) Neptun² Kombi (wall-mounted)

cat. no.	type	description
06-084670	80	
06-104670	100	spiral coil, polyurethane foam, metal casing, electric heater, EXTRA GLASS® ceramic enamel, magnesium anode (right version)
06-124670	120	
06-144670	140	
06-084671	80	
06-104671	100	spiral coil, polyurethane foam, metal casing, electric heater, EXTRA GLASS® ceramic enamel, magnesium anode (left version)
06-124671	120	
06-144671	140	

Ability to order the SGW(S) Neptun² Kombi water heater with Elektronik controller (spiral coil, polyurethane foam, metal casing, electric heater, EXTRA GLASS® ceramic enamel, magnesium anode) - cat. no. ends in 770 (right version) or 771 (left version), f.ex. 06-084770.

SGW(S) Mini Tower (free-standing)

cat. no.	type	description
26-104000	100	spiral coil, polystyrene foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
26-124000	120	
26-144000	140	
26-108000	100	spiral coil, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
26-128000	120	
26-148000	140	

SGW(S) Vulcan Kombi (free-standing)

cat. no.	type	description
26-105500	100	spiral coil, polyurethane foam, metal casing, EXTRA GLASS® ceramic enamel, magnesium anode
26-125500	120	
26-145500	140	
26-205500	200	

SGW(S) Vulcan Kombi (wall-mounted)

cat. no.	type	description
26-105600	100	spiral coil, polyurethane foam, metal casing, EXTRA GLASS® ceramic enamel, magnesium anode
26-125600	120	
26-145600	140	

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

cat. no.	description
40-130607	electric heater 2 kW, 230V for enamelled water heater on the Ø 125 mm flange / with 5 screws (steel cover), manufactured before 10.2017
40-130609	electric heater 2 kW, 230V for enamelled water heater on the Ø 125 mm flange / with 5 screws (steel cover), manufactured after 10.2017
40-140432	heater control module SGW(S) Vulcan Kombi Elektronik 230V

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



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.

* Details in the warranty card.

Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

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	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	95	95
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 (int. thread)	"	1	1
DHW outflow (int. thread)	"	1	1
circulation (int. thread)	"	1	1
CH circuit (int. thread)	"	1	1
connection for an electrical set GE (int. thread)	"	5/4	5/4
sensor cover (internal Ø 8 mm)	"	1/2	1/2
thermometer (int. thread)	"	1/2	1/2
water drain (int. thread)	"	1	1
D - external diameter	mm	660	660
L - height	mm	910	1005
net weight	kg	75	81

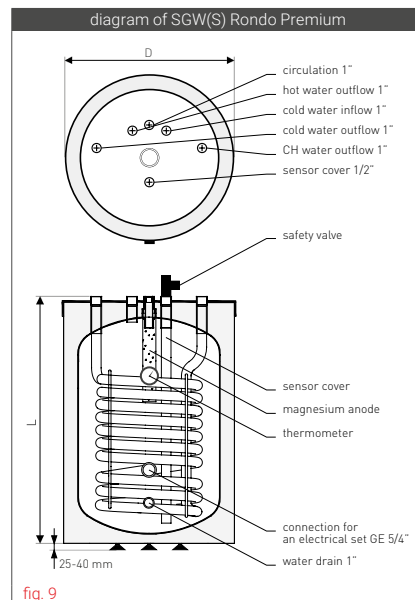


fig. 9

Technical specification of the SG(S) Fusion

specification	unit	SG(S) Fusion 100	
		104	
storage capacity ¹	l	104	
ErP energy efficiency class	-	C	
tank's maximum working pressure	MPa	1,0	
tank's maximum working temperature	°C	95	
range of working temperatures	°C	8-77	
constant delivery of DHW Δt=30K	l/h (kW)	660 (24)	774 (28)
estimated time to warm up the water Δt=45K ²	min (kW)	20 (24)	16 (28)
magnesium anode top cover 5/4" plug	mm	25x390	
cold water inflow (ext. thread)	"	3/4	
DHW outflow (ext. thread)	"	3/4	
circulation (ext. thread)	"	3/4	
cold water outflow / hot water inflow (ext. thread)	"	3/4	
connection for an electrical set GE (int. thread)	"	5/4	
sensor cover (internal Ø 8 mm)	"	1/2	
thermometer (int. thread)	"	1/2	
water drain (int. thread)	"	1	
D - external diameter	mm	600	
L - height	mm	900	
net weight	kg	54	

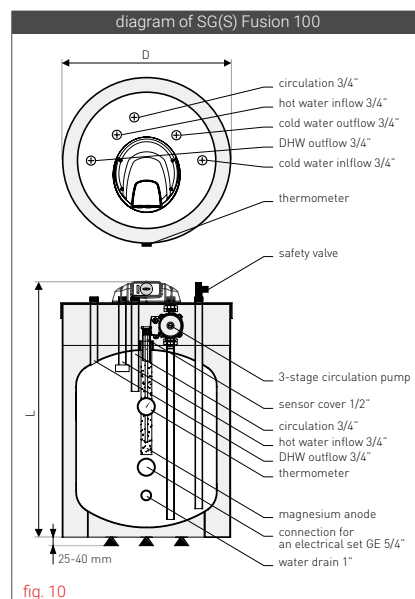


fig. 10

* Details in the warranty card.

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

² Nominal power for DHW output of the boiler.



pic. 15
SGW(S) Rondo Premium

SGW(S) Rondo Premium

cat. no.	type	description
26-127500	120	spiral coil, polyurethane foam, metal casing, EXTRA GLASS® ceramic enamel, magnesium anode
26-147500	140	

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.
- ▶ Thermometer in standard.
- ▶ Up to 50% longer service time thanks to the RESIST-TECH® protection.
- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ Additional protection with magnesium anode.

▶ The SGW(S) Rondo Premium tank is designed to operate with every type of boiler: in particular with wall-hanging single function gas boilers. Enlarged spiral coil ensure **fast water heating**, and energy efficiency class A guarantees **economic work and gas savings**.

SG(S) Fusion

cat. no.	type	description
22-107500	100	layered, polyurethane foam, metal casing, EXTRA GLASS® ceramic enamel, charging pump, thermostat, magnesium anode

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 with adjustable output - built-in the tank.
- ▶ All connections in the top cover.
- ▶ Ability to install an electrical set.
- ▶ Thermometer in standard.
- ▶ Small dimensions.

▶ 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.



pic. 16
SG(S) Fusion

* Details in the warranty card.

Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

INDIRECT WATER HEATERS WITH A SPIRAL COIL

TYPE SGW(S) TOWER, SGW(S)B TOWER BIWAL (ERP A)

Technical specification of the SGW(S) Tower (ErP A)

specification	unit	SGW(S) Tower (ErP A)		
		200	250	300
storage capacity ¹	l	205	247	292
ErP polyurethane foam	-	A	A	A
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	95	95	95
coil's maximum working temperature	°C	110	110	110
coil's surface	m ²	0,8	1,0	1,4
coil's capacity	l	5,6	7,0	9,8
coil's power (70/10/45°C)	kW	21,4	23,6	33,6
efficiency	l/h	526	585	814
coil's power (80/10/45°C)	kW	29	31,5	44,8
efficiency	l/h	714	774	1096
magnesium top cover 5/4" plug ³	mm	38x400	38x400	38x400
anode insp. hole M8 screw	mm	38x200	38x200	38x200
h1 - cold water inflow (int. thread)	" / mm	1 / 140	1 / 140	1 / 140
h2 - CH water outflow (int. thread)	" / mm	1 / 225	1 / 225	1 / 225
h3 - sensor cover (Ø)	mm / mm	8 / 325	8 / 410	8 / 470
crk - circulation (int. thread)	" / mm	3/4 / 485	3/4 / 1050	3/4 / 1140
h4 - CH hot water inflow (int. thread)	" / mm	1 / 585	1 / 695	1 / 775
h5 - DHW outflow (int. thread)	" / mm	1 / 1025	1 / 1245	1 / 1495
d - internal diameter	mm	500	500	500
D - external diameter	mm	670	700	700
L - height	mm	1355	1565	1825
net weight	kg	77	90	105

Technical specification of the SGW(S)B Tower Biwal (ErP A)

specification	unit	SGW(S)B Tower Biwal (ErP A)		
		200	250	300
storage capacity ¹	l	199	240	286
ErP polyurethane foam	-	A	A	A
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	95	95	95
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 top cover 5/4" plug ³	mm	38x400	38x400	38x400
anode insp. hole M8 screw	mm	38x200	38x200	38x200
h1 - cold water inflow (int. thread)	" / mm	1 / 140	1 / 140	1 / 140
h2 - water outflow to solar coil (int. thread)	" / mm	1 / 225	1 / 225	1 / 225
h3 - sensor cover I (Ø)	mm / mm	8 / 325	8 / 410	8 / 470
crk - circulation (int. thread)	" / mm	3/4 / 485	3/4 / 1050	3/4 / 1140
h4 - hot water inflow from solar collector (int. thread)	" / mm	1 / 585	1 / 695	1 / 775
h5 - CH water outflow (int. thread)	" / mm	1 / 695	1 / 805	1 / 895
h6 - sensor cover II (Ø)	mm / mm	8 / 820	8 / 940	8 / 1030
h7 - CH hot water inflow (int. thread)	" / mm	1 / 945	1 / 1145	1 / 1255
h8 - DHW outflow (int. thread)	" / mm	1 / 1025	1 / 1245	1 / 1495
d - internal diameter	mm	500	500	500
D - external diameter	mm	670	700	700
L - height	mm	1355	1565	1825
net weight	kg	86	100	118

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

³ Since 01.08.2013 magnesium anode plug 5/4".

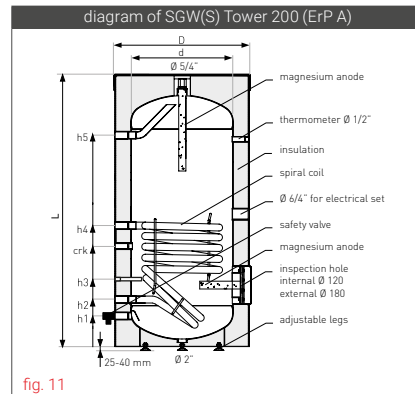


fig. 11

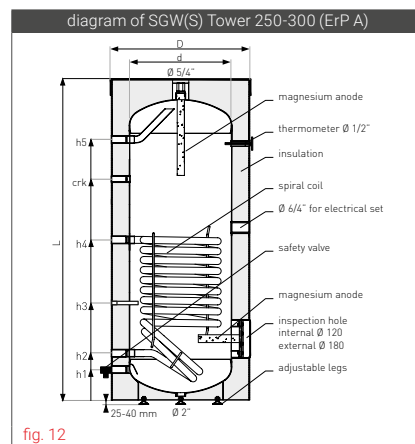


fig. 12

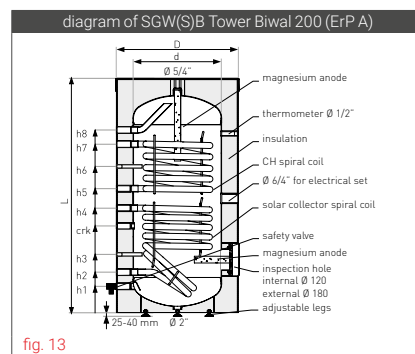


fig. 13

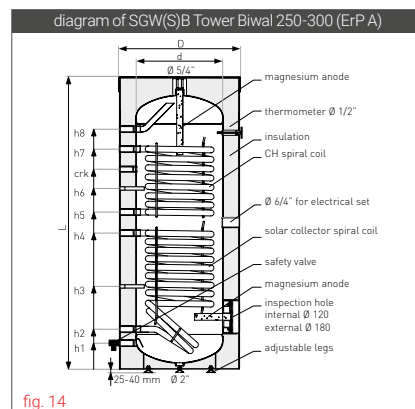
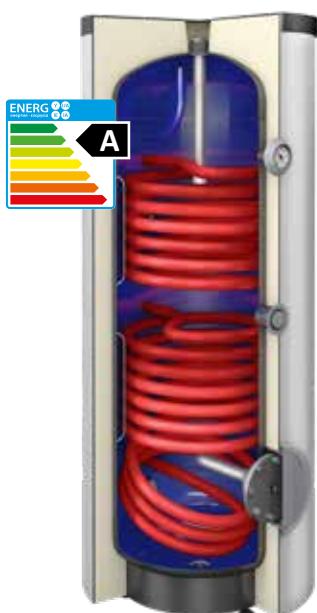


fig. 14



pic. 17
SGW(S) Tower (ErP A)



pic. 18
SGW(S) Tower Biwal (ErP A)

SGW(S) Tower (ErP A)

cat. no.	type	description
26-204600	200	spiral coil, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
26-254600	250	
26-304600	300	

SGW(S)B Tower Biwal (ErP A)

cat. no.	type	description
26-209800	200	two spiral coils, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
26-259800	250	
26-309800	300	

Advantages of the SGW(S) Tower and SGW(S)B Tower Biwal water heaters in ErP A class

- ▶ Faster heating of water thanks to the large surface area of the spiral coil.
- ▶ Bivalent water heater that can heat domestic hot water both through the CH boiler and a solar collector (SGW(S)B Tower Biwal).
- ▶ Works with all types of boilers: oil, gas, coal, etc.
- ▶ Ability to install an electrical set.
- ▶ Thermometer in standard.
- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ Additional protection with magnesium anode.

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

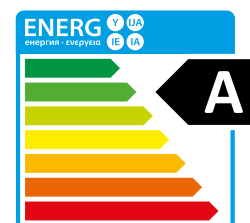
For SGW(S) Tower and SGW(S)B Tower Biwal in ErP A class water heaters we recommend using a maintenance-free active titanium anode connected to the power outlet.

Sensor cover

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

▶ The first Galmet tanks were produced over 37 years ago, in a 12 m² garage. Currently, the production halls cover over **12,000 m²** and house over **500** employees.

▶ The water heaters marked with the **energy class A** symbol meet the highest technical requirements and are very energy efficient.



* Details in the warranty card.

Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

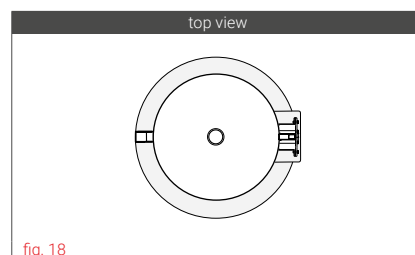
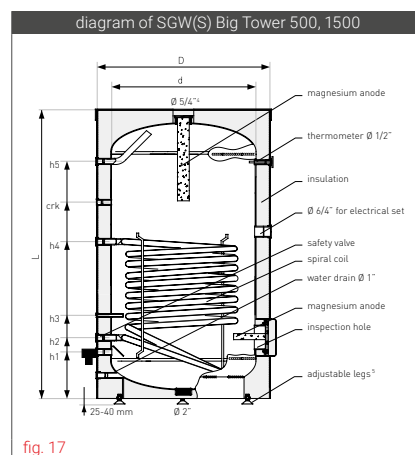
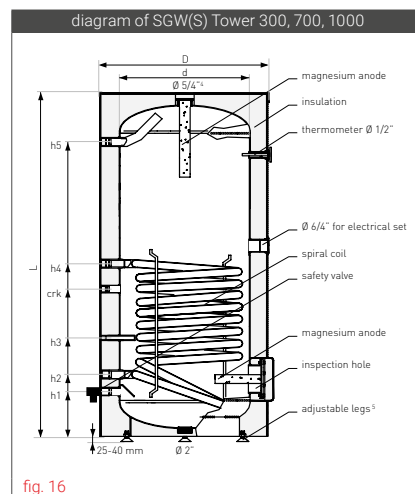
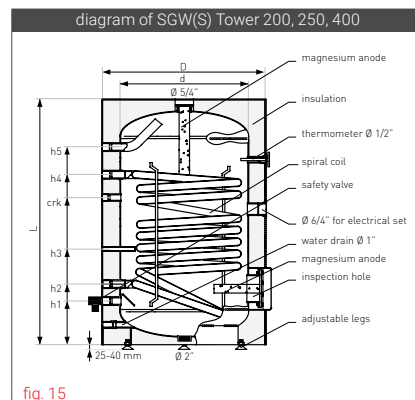
INDIRECT WATER HEATERS WITH A SPIRAL COIL TYPE SGW(S) TOWER, BIG TOWER

Technical specification of the SGW(S) Tower

specification	unit	SGW(S) Tower				
		200	250	300	400	500
storage capacity ¹	l	197	247	309	405	513
ErP polyurethane foam	-	B	B	B	C	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	95	95	95	95	95
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
magnesium anode	top cover 5/4" plug ⁴	mm	38x400	38x400	38x400	38x600
	insp. hole M8 screw	mm	38x200	38x200	38x200	38x200
h1 - cold water inflow (int. thread)	" / mm	1 / 210	1 / 210	1 / 130	1 / 240	1 / 180
h2 - CH water outflow (int. thread)	" / mm	1 / 290	1 / 285	1 / 280	1 / 320	1 / 320
h3 - sensor cover (Ø)	" / mm	3/8 / 435	3/8 / 440	3/8 / 435	3/8 / 570	3/8 / 530
crk - circulation (int. thread)	" / mm	3/4 / 680	3/4 / 600	3/4 / 650	3/4 / 770	3/4 / 1320
h4 - CH hot water inflow (int. thread)	" / mm	1 / 790	1 / 755	1 / 750	1 / 870	1 / 970
h5 - DHW outflow (int. thread)	" / mm	1 / 860	1 / 1085	1 / 1355	1 / 1470	1 / 1650
sleeve for mounting an electrical set (int. thread)	"	6/4	6/4	6/4	6/4	6/4
insp. hole (external Ø / internal Ø)	mm	180/120	180/120	180/120	180/120	180/120
d - internal diameter	Ø	550	550	550	600	630
D - external diameter	Ø	670	670	670	700/800 ³	755/830 ³
L - height	mm	1100	1300	1615	1750	1950
net weight	kg	84	108	118	137	157

Technical specification of the SGW(S) Big Tower

specification	unit	SGW(S) Big Tower		
		700	1000	1500
storage capacity ¹	l	694	1005	1433
ErP polyurethane foam	-	C	C	-
	-	C	C	C
tank's maximum working temperature	°C	95	95	95
coil's maximum working temperature	°C	110	110	110
tank's maximum working pressure	MPa	1,0	1,0	1,0
coil's maximum working pressure	MPa	1,6	1,6	1,6
coil's surface	m ²	2,4	2,7	2,7
coil's power (70/10/45°C)	kW	57,6	64,8	64,8
efficiency	l/h	1380	1580	1580
magnesium anode	top cover 5/4" plug ⁴	mm	38x600	38x600
	insp. hole M8 screw	mm	38x200	38x400
h1 - cold water inflow (int. thread)	" / mm	6/4 / 215	6/4 / 250	6/4 / 250
h2 - CH water outflow (int. thread)	" / mm	1 / 375	1 / 450	1 / 450
h3 - sensor cover (Ø)	" / mm	3/8 / 575	3/8 / 590	3/8 / 600
crk - circulation (int. thread)	" / mm	5/4 / 925	5/4 / 875	5/4 / 1630
h4 - CH hot water inflow (int. thread)	" / mm	1 / 1045	1 / 1000	1 / 1000
h5 - DHW outflow (int. thread)	" / mm	6/4 / 1715	6/4 / 1570	6/4 / 2250
sleeve for mounting an electrical set (int. thread)	"	6/4	6/4	6/4
insp. hole (external Ø / internal Ø)	mm	280/205	280/205	280/205
d - internal diameter	Ø	700	900	900
D - external diameter	Ø	855/860 ³	1055/1060 ³	1100 ³
L - height	mm	2050/2080 ³	1960/1990 ³	2650/2680 ³
net weight	kg	260	415	540

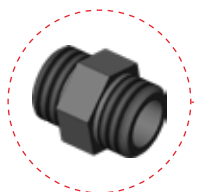


¹ According to the (EU) 812/2013, 814/2013.

² Neodul® (detachable).

³ For 700, 1000 and 1500 l capacities, the magnesium anode plug is 2".

⁴ Applies to 200-500 l capacities.



pic. 19
DIELECTRIC PROTECTION®



pic. 20
SGW(S) Tower
front view

pic. 21
SGW(S) Tower
rear view



pic. 22
SGW(S) Big Tower
in Neodul® insulation

SGW(S) Tower

cat. no.	type	description
26-208000	200	
26-258000	250	
26-308000N	300	spiral coil, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
26-408000N	400	
26-504000N	500	

SGW(S) Big Tower

cat. no.	type	description
26-704000N	700	spiral coil, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
36-104000N	1000	
26-704600N	700	spiral coil, Neodul® insulation, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
36-104600N	1000	
36-154600N	1500	

Advantages of the SGW(S) Tower and Big Tower

- ▶ Faster heating of water thanks to the large surface area of the spiral coil.
- ▶ Works with all types of boilers: oil, gas, coal, etc.
- ▶ Ability to install an electrical set.
- ▶ Thermometer in standard.
- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ Additional protection with magnesium anode.

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).

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. Except for the 700-1500 l capacities of the SG(S), SGW(S) SLIM, SGW(S)B SLIM type water heaters.

▶ 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.

Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

INDIRECT WATER HEATERS WITH A SPIRAL COIL

TYPE SGW(S) TOWER SLIM

Technical specification of the SGW(S) Tower Slim 200-300

specification	unit	SGW(S) Tower Slim		
		200	250	300
storage capacity ¹	l	205	247	292
ErP polyurethane foam	-	C	C	C
ErP Neodul®	-	-	-	-
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	95	95	95
coil's maximum working temperature	°C	110	110	110
coil's surface	m ²	0,8	1,0	1,4
coil's capacity	l	5,6	7,0	9,8
coil's power (70/10/45°C)	kW	21,4	23,6	33,6
efficiency	l/h	526	585	814
coil's power (80/10/45°C)	kW	29	31,5	44,8
efficiency	l/h	714	774	1096
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	38x400
anode insp. hole M8 screw	mm	38x200	38x200	38x200
h1 - cold water inflow (int. thread)	" / mm	1 / 140	1 / 140	1 / 140
h2 - CH water outflow (int. thread)	" / mm	1 / 225	1 / 225	1 / 225
h3 - sensor cover (Ø)	mm / mm	8 / 325	8 / 410	8 / 470
crk - circulation (int. thread)	" / mm	3/4 / 485	3/4 / 1050	3/4 / 1140
h4 - CH hot water inflow (int. thread)	" / mm	1 / 585	1 / 695	1 / 775
h5 - DHW outflow (int. thread)	" / mm	1 / 1025	1 / 1245	1 / 1495
d - internal diameter	mm	500	500	500
D - external diameter	mm	600	600	600
L - height	mm	1300	1515	1780
net weight	kg	72	84	96

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.

Technical specification of the SGW(S) Tower Slim 800-1000

specification	unit	SGW(S) Tower Slim	
		800	1000
storage capacity ¹	l	790	925
ErP polyurethane foam	-	-	-
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	95	95
coil's maximum working temperature	°C	110	110
coil's surface	m ²	2,4	3,7
coil's capacity	l	16,9	25,8
coil's power (70/10/45°C)	kW	44,5	60
efficiency	l/h	1099	1468
coil's power (80/10/45°C)	kW	57	78
efficiency	l/h	1393	1936
demand for heating water from CH boiler	m ³ /h	3,0	3,0
magnesium top cover 5/4" plug ³	mm	38x600	38x600
anode lower part of the tank 5/4" plug	mm	38x400	38x400
h1 - cold water inflow (int. thread)	" / mm	6/4 / 210	6/4 / 210
h2 - CH water outflow (int. thread)	" / mm	1 / 380	1 / 380
h3 - sensor cover (Ø)	mm / mm	8 / 610	8 / 610
crk - circulation (int. thread)	" / mm	5/4 / 1352	5/4 / 1640
h4 - DH hot water inflow (int. thread)	" / mm	1 / 1030	1 / 1265
h5 - DHW outflow (int. thread)	" / mm	6/4 / 1610	6/4 / 1910
d - internal diameter	mm	790	790
D - external diameter	mm	950 ⁴	950 ⁴
L - height	mm	1990	2300
net weight	kg	290	355

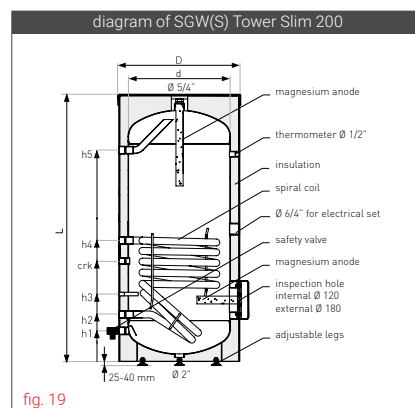


fig. 19

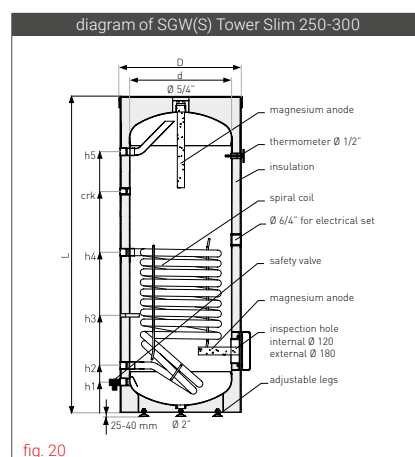


fig. 20

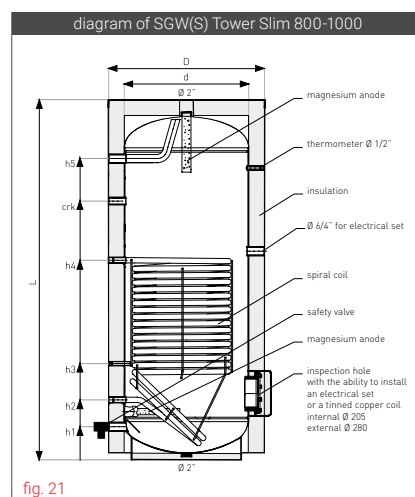


fig. 21

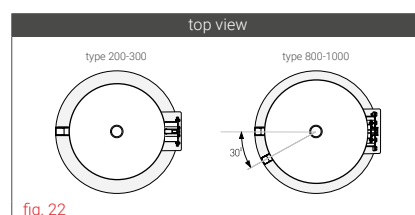


fig. 22

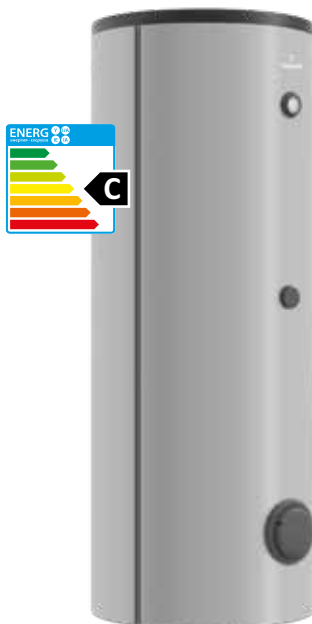
¹ According to the (EU) 812/2013, 814/2013.

³ Since 01.08.2013 magnesium anode plug 5/4".

⁴ Detachable insulation 80 mm, internal Ø 790 mm.



pic. 23
SGW(S) Tower Slim



pic. 24
SGW(S) Tower Slim
in Neodul® insulation

SGW(S) Tower Slim

cat. no.	type	description
26-201000	200	spiral coil, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
26-251000	250	
26-301000	300	
26-801600	800	spiral coil, Neodul® insulation, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
36-101600	1000	

Advantages of the SGW(S) Tower Slim

- ▶ Only 60 cm in diameter (SGW(S) Tower Slim 200-300).
- ▶ Faster heating of water thanks to the large surface area of the spiral coil.
- ▶ Works with all types of boilers: oil, gas, coal, etc.
- ▶ Ability to install an electrical set.
- ▶ Thermometer in standard.
- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ Additional protection with magnesium anode.

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

cat. no.	description
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).


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

Sensor cover

cat. no.	description
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.



* 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.

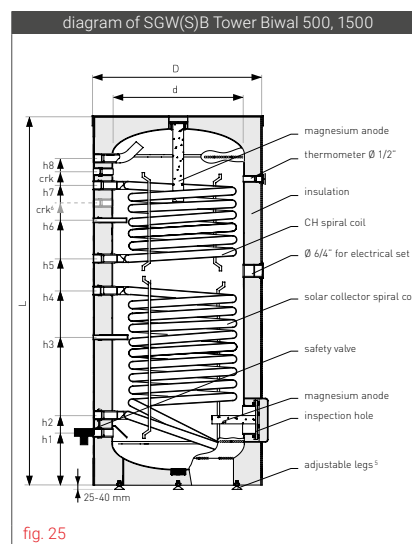
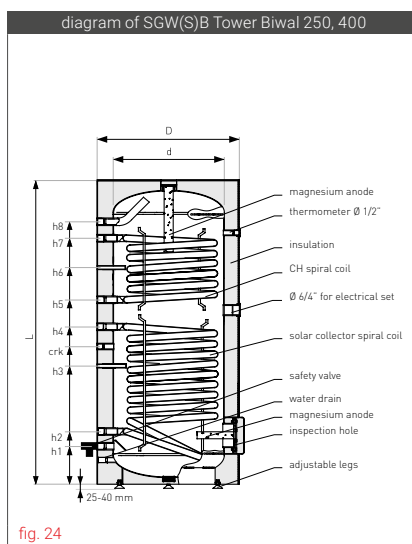
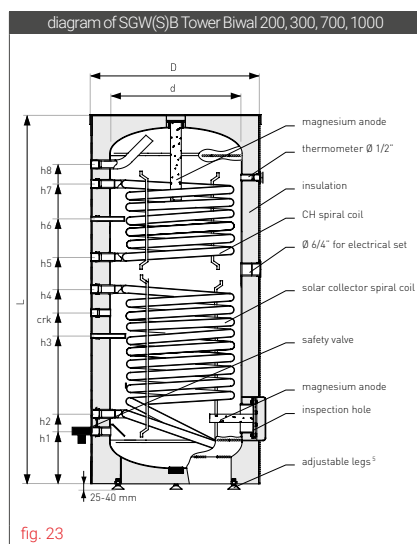
Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

INDIRECT WATER HEATERS WITH TWO SPIRAL COILS

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	700	1000	1500
ErP polyurethane foam	-	B	B	B	C	B	C	C	-
ErP Neodul®	-	-	-	-	-	-	C	C	C
tank's maximum working temperature	°C	95	95	95	95	95	95	95	95
coil's maximum working temperature	°C	110	110	110	110	110	110	110	110
tank's maximum working pressure	MPa	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
coil's maximum working pressure	MPa	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6
solar collector coil's surface	m ²	1,0	1,2	1,4	1,8	2,0	2,4	2,7	2,7
solar collector coil's capacity	l	7,0	8,4	9,8	12,6	14,0	16,8	18,9	18,9
solar collector coil's power (70/10/45°C)	kW	24	29	33,6	43	48	57,6	64,8	64,8
efficiency	l/h	570	635	800	1030	1150	1380	1580	1580
CH coil's surface	m ²	0,7	0,7	1,1	1,1	1,1	1,2	1,5	1,5
CH coil's capacity	l	4,9	4,9	7,7	7,7	7,7	8,4	10,5	10,5
CH coil's power (70/10/45°C)	kW	17	17	26,4	26,4	26,4	28,8	36	36
efficiency	l/h	410	410	630	630	630	690	880	880
magnesium top cover (5/4" plug) ⁴	mm	38x400	38x400	38x400	38x400	38x600	38x600	38x600	38x600
anode insp. hole (M8 screw)	mm	38x200	38x200	38x200	38x400	38x200	38x400	38x400	38x400
h1 - cold water inflow (int. thread)	" / mm	1 / 130	1 / 210	1 / 130	1 / 240	1 / 180	6/4 / 215	6/4 / 250	6/4 / 250
h2 - water outflow to solar coil (int. thread)	" / mm	1 / 210	1 / 290	1 / 280	1 / 320	1 / 320	1 / 375	1 / 450	1 / 450
h3 - sensor cover I (Ø)	" / mm	3/8 / 355	3/8 / 400	3/8 / 435	3/8 / 570	3/8 / 530	3/8 / 525	3/8 / 600	3/8 / 600
crk - circulation (int. thread)	" / mm	3/4 / 450	3/4 / 595	3/4 / 650	3/4 / 770	3/4 / 1320	5/4 / 925	5/4 / 880	5/4 / 1630
h4 - hot water inflow from solar collector (int. thread)	" / mm	1 / 550	1 / 695	1 / 750	1 / 870	1 / 970	1 / 1045	1 / 1000	3/4 / 1000
h5 - CH water outflow (int. thread)	" / mm	1 / 635	1 / 795	1 / 860	1 / 980	1 / 1090	1 / 1175	1 / 1100	1 / 1100
h6 - sensor cover II (Ø)	" / mm	3/8 / 765	3/8 / 900	3/8 / 1030	3/8 / 1150	3/8 / 1200	3/8 / 1365	3/8 / 1270	3/8 / 1270
h7 - CH hot water inflow (int. thread)	" / mm	1 / 895	1 / 1005	1 / 1200	1 / 1330	1 / 1440	1 / 1555	1 / 1440	1 / 1440
h8 - DHW outflow (int. thread)	" / mm	1 / 975	1 / 1085	1 / 1355	1 / 1470	1 / 1650	6/4 / 1715	6/4 / 1570	6/4 / 2250
sleeve for mounting an electrical set (int. thread)	"	6/4	6/4	6/4	6/4	6/4	6/4	6/4	6/4
insp. hole (external Ø / internal Ø)	mm	180/120	180/120	180/120	180/120	180/120	280/205	280/205	280/205
d - internal diameter	mm	550	550	550	600	630	700	900	900
D - external diameter	mm	670	670	670	700/800 ³	755/830 ³	855/860 ³	1055/1060 ³	1100 ³
L - height	mm	1140	1300	1615	1750	1950	2050/2080 ³	1960/1990 ³	2680 ³
net weight	kg	98	115	140	151	177	296	475	580



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

³ Neodul® (detachable).

⁴ For 700, 1000 and 1500 l capacities, the magnesium anode plug is 2".

⁵ Applies to 200-500 l capacities.

⁶ Applies to 500 l capacities.



pic. 25
SGW(S)B
Tower Biwal



pic. 26
SGW(S)B Big Tower Biwal
in Neodul® insulation

SGW(S)B Tower Biwal

cat. no.	type	description
26-209000	200	
26-259000	250	
26-309000N	300	two spiral coils, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
26-409000N	400	
26-509000N	500	

It is possible to order the SGW(S)B Tower Biwal Max 200-500 (two spiral coils in the lower part of the tank, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode).

SGW(S)B Big Tower Biwal

cat. no.	type	description
26-709000N	700	two spiral coils, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
36-109000N	1000	
26-709600N	700	two spiral coils, Neodul® insulation, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
36-109600N	1000	
36-159600N	1500	

Water heaters for central heating systems and solar collectors.

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

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

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

- for types up to 300 (small titanium anode).
- for types 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).

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. Except for the 700-1500 l capacities of the SG(S), SGW(S) SLIM, SGW(S)B SLIM type water heaters.

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

▶ 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.

Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

INDIRECT WATER HEATERS WITH TWO SPIRAL COILS

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
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	95	95	95
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
demand for heating water from CH boiler	m ³ /h	2,7	3,0	3,0
magnesium top cover 5/4" plug	mm	38x400	38x400	38x400
anode insp. hole M8 screw	mm	38x200	38x200	38x200
h1 - cold water inflow (int. thread)	" / mm	1 / 140	1 / 140	1 / 140
h2 - water outflow to solar coil (int. thread)	" / mm	1 / 225	1 / 225	1 / 225
h3 - sensor cover I (Ø)	mm / mm	8 / 325	8 / 410	8 / 470
crk - circulation (int. thread)	" / mm	3/4 / 485	3/4 / 1050	3/4 / 1140
h4 - hot water inflow from solar collector (int. thread)	" / mm	1 / 585	1 / 695	1 / 775
h5 - CH water outflow (int. thread)	" / mm	1 / 695	1 / 805	1 / 895
h6 - sensor cover II (Ø)	mm / mm	8 / 820	8 / 940	8 / 1030
h7 - CH hot water inflow (int. thread)	" / mm	1 / 945	1 / 1145	1 / 1255
h8 - DHW outflow (int. thread)	" / mm	1 / 1025	1 / 1245	1 / 1495
d - internal diameter	mm	500	500	500
D - external diameter	mm	600	600	600
L - height	mm	1315	1515	1785
net weight	kg	80	93	108

specification	unit	SGW(S)B Tower Biwal Slim	
storage capacity ¹	l	800	1000
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	95	95
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
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
demand for heating water from CH boiler	m ³ /h	3,0	3,0
magnesium top cover 2" plug	mm	38x600	38x600
anode lower part of the tank 5/4" plug	mm	38x400	38x400
h1 - cold water inflow (int. thread)	" / mm	6/4 / 210	6/4 / 210
h2 - water outflow to solar coil (int. thread)	" / mm	1 / 380	1 / 380
h3 - sensor cover I (Ø)	mm / mm	8 / 610	8 / 610
h4 - hot water inflow from solar collector (int. thread)	" / mm	1 / 1030	1 / 1265
h5 - CH water outflow (int. thread)	" / mm	1 / 1145	1 / 1380
h6 - sensor cover II (Ø)	mm / mm	8 / 1245	8 / 1510
h7 - circulation (int. thread)	" / mm	5/4 / 1352	5/4 / 1640
h8 - CH hot water inflow (int. thread)	" / mm	1 / 1465	1 / 1810
h9 - DHW outflow (int. thread)	" / mm	6/4 / 1610	6/4 / 1910
d - internal diameter	mm	790	790
D - external diameter	mm	950 ³	950 ³
L - height	mm	1990	2300
height when tilted	mm	2220	2500
net weight (polyurethane foam)	kg	290	355

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

³ Detachable insulation 80 mm, internal Ø 790 mm.

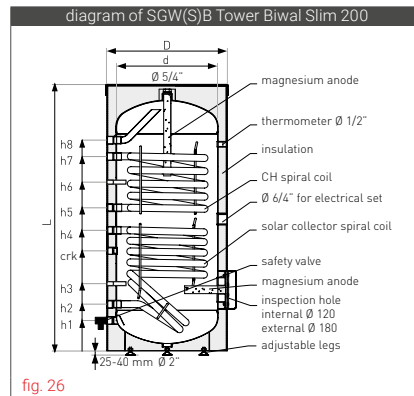


fig. 26

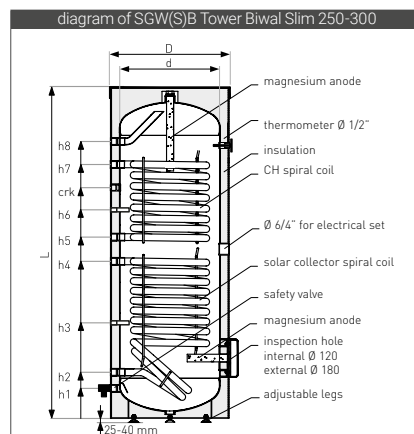


fig. 27

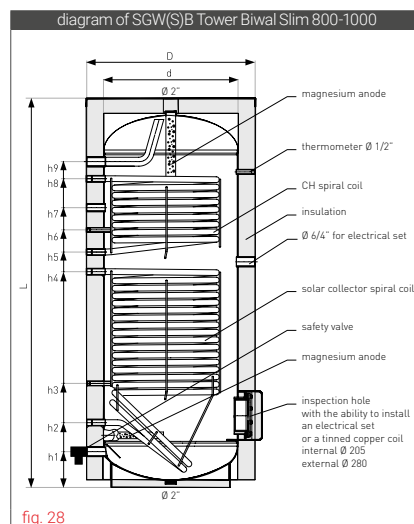


fig. 28

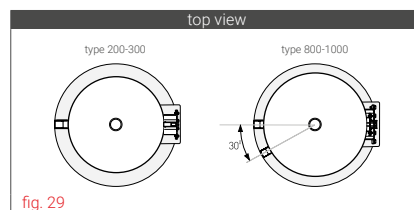
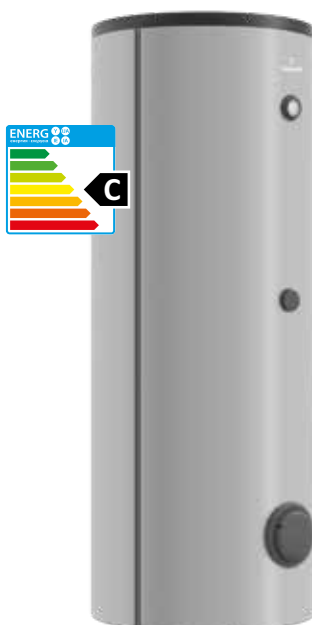


fig. 29



pic. 27
SGW(S)B Tower Biwal Slim



pic. 28
SGW(S)B Tower Biwal Slim
in Neodul® insulation

SGW(S)B Tower Biwal Slim

cat. no.	type	description
26-202000	200	two spiral coils, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
26-252000	250	
26-302000	300	
26-802600	800	two spiral coils, Neodul® insulation, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
36-102600	1000	

Advantages of the SGW(S)B Tower Biwal Slim

- ▶ Only 60 cm in diameter (SGW(S)B Tower Biwal Slim 200-300).
- ▶ Bivalent water heater that can heat domestic hot water both through the CH boiler and a solar collector.
- ▶ Works with all types of boilers: oil, gas, coal, etc.
- ▶ Ability to install an electrical set.
- ▶ Thermometer in standard.
- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ Additional protection with magnesium anode.

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

cat. no.	description
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).

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. Except for the 700-1500 l capacities of the SG(S), SGW(S) SLIM, SGW(S)B SLIM type water heaters.

Sensor cover

cat. no.	description
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).

* 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.

Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

INDIRECT WATER HEATERS WITH THE MAXIMUM SIZE SPIRAL COIL FOR HEAT PUMPS

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

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

specification	unit	Maximus 300	Maximus 250	SGW(S) Maxi 300	SGW(S) Maxi 400	SGW(S) Maxi 500	SGW(S) Maxi 700	SGW(S) Maxi 1000
storage capacity ¹	l	257	236	284	376	471	657	973
ErP polyurethane foam	-	B	B	B	C	B	C	C
tank's maximum working pressure	MPa	1,0	1,0	1,0	1,0	1,0	1,0	1,0
coil's maximum working pressure	MPa	1,6	1,6	1,6	1,6	1,6	1,6	1,6
tank's maximum working temperature	°C	95	95	95	95	95	95	95
coil's maximum working temperature	°C	110	110	110	110	110	110	110
coil's surface	m ²	3,8	3,0	3,8	5,0	6,0	6,5	6,5
coil's capacity	l	26,5	20,9	26,5	34,9	41,9	45,4	45,4
coil's power (80/10/45°C)	kW	91	71,5	91	108	114	138	138
coil's power (80/10/60°C)	kW	77,5	61	77,5	89	99	108	108
efficiency (80/10/60°C)	l/h	1363	1072	1363	1460	1724	1894	1886
heat pump coil's power (50/10/45°C)	kW	28	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	3,0
magnesium top cover plug ³	mm	38x600	38x600	38x600	38x600	38x600	38x600	38x600
anode insp. hole M8 screw	mm	38x200	38x200	38x200	38x200	38x400	38x400	38x400
h1 - cold water inflow (int. thread)	" / mm	1 / 130	1 / 130	1 / 130	1 / 150	1 / 180	6 / 4 / 215	6 / 4 / 245
h2 - CH water outflow (int. thread)	" / mm	5 / 4 / 215	5 / 4 / 215	5 / 4 / 215	5 / 4 / 235	5 / 4 / 265	5 / 4 / 395	5 / 4 / 445
h3 - sensor cover (Ø)	" / mm	3 / 8 / 550	3 / 8 / 385	3 / 8 / 550	3 / 8 / 560	3 / 8 / 610	3 / 8 / 755	3 / 8 / 745
crk - circulation (int. thread)	" / mm	3 / 4 / 770	3 / 4 / 770	3 / 4 / 770	3 / 4 / 840	3 / 4 / 870	5 / 4 / 1175	5 / 4 / 1075
h4 - CH hot water inflow (int. thread)	" / mm	5 / 4 / 1035	5 / 4 / 895	5 / 4 / 1035	5 / 4 / 1285	5 / 4 / 1415	5 / 4 / 1355	5 / 4 / 1195
h5 - DHW outflow (int. thread)	" / mm	1 / 1240	1 / 1080	1 / 1355	1 / 1475	1 / 1650	6 / 4 / 1715	6 / 4 / 1575
d - internal diameter	mm	550	550	550	600	630	700	900
D - external diameter	mm	-	670	670	700	755	855	1055
L - height	mm	-	1300	1615	1750	1950	2050	1960
dimensions of the Maximus water heater	height	mm	1550	-	-	-	-	-
	depth	mm	770	-	-	-	-	-
	width	mm	670	-	-	-	-	-
height when tilted	mm	-	-	-	-	-	2220	2230
net weight (polyurethane foam)	kg	180	160	185	227	261	350	530

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

specification	unit	SGW(S)B Maxi Plus 300	SGW(S)B Maxi Plus 400	SGW(S)B Maxi Plus 500
storage capacity ¹	l	293	373	465
ErP polyurethane foam	-	B	C	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	95	95	95
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
magnesium top cover 5/4" plug	mm	38x600	38x600	38x600
anode insp. hole M8 screw	mm	38x200	38x200	38x400
h1 - cold water inflow (int. thread)	" / mm	1 / 130	1 / 160	1 / 180
h2 - water outflow to solar coil (int. thread)	" / mm	5 / 4 / 215	5 / 4 / 245	5 / 4 / 265
h3 - sensor cover I (Ø)	" / mm	3 / 8 / 335	3 / 8 / 425	3 / 8 / 410
h4 - hot water inflow from solar collector (int. thread)	" / mm	5 / 4 / 495	5 / 4 / 565	5 / 4 / 645
h5 - CH water outflow (int. thread)	" / mm	5 / 4 / 615	5 / 4 / 675	5 / 4 / 755
h6 - sensor cover II (Ø)	" / mm	3 / 8 / 835	3 / 8 / 835	3 / 8 / 960
h7 - circulation (int. thread)	" / mm	3 / 4 / 935	3 / 4 / 955	3 / 4 / 1265
h8 - CH hot water inflow (int. thread)	" / mm	5 / 4 / 1095	5 / 4 / 1405	5 / 4 / 1645
h9 - DHW outflow (int. thread)	" / mm	1 / 1355	1 / 1560	1 / 1730
d - internal diameter	mm	550	600	630
D - external diameter	mm	670	700	755
L - height	mm	1615	1750	1950
net weight	kg	165	217	281

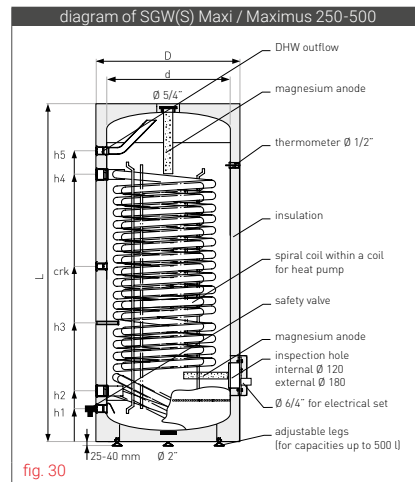


fig. 30

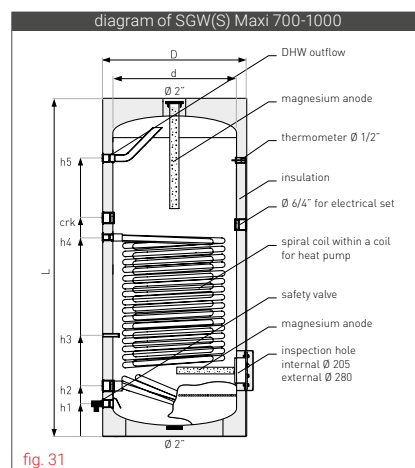


fig. 31

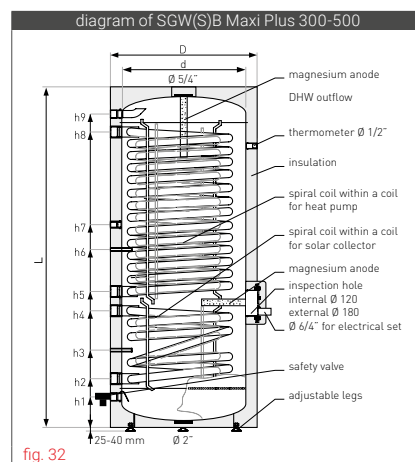


fig. 32

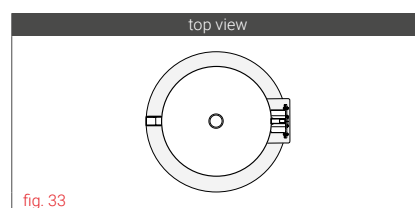


fig. 33

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

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



pic. 29
SGW(S) Maxi

pic. 30
SGW(S) Maximus



pic. 31
SGW(S)B Maxi Plus



pic. 32
maximum size
spiral coils
bent in two diameters



pic. 33
Electrical sets

SGW(S) Maxi

cat. no.	type	description
26-258100	250	
26-308100N	300	
26-408100N	400	maximum size spiral coil, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
26-504100N	500	
26-704100N	700	
36-104100N	1000	

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 (dedicated for the Maxima heat pumps)

cat. no.	type	description
26-308870	300	with the maximum size spiral coil, polyurethane foam, metal housing, electric heater, EXTRA GLASS® ceramic enamel, titanium anode

SGW(S)B Maxi Plus

cat. no.	type	description
26-309100N	300	two maximum size spiral coils, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
26-409100N	400	
26-509100N	500	

Water heaters for central heating systems and solar collectors.

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).

Advantages of the SGW(S) Maxi and Maxi Plus

- ▶ SGW(S) Maxi - maximum size spiral coil dedicated to heat pumps.
- ▶ SGW(S) Maxi Plus - two maximum size spiral coils (ability to connect several heat sources, f.ex. heat pump, solar collectors, CH boiler).
- ▶ Ability to install an electrical set - option.
- ▶ Thermometer in standard.
- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ Additional protection with magnesium anode.

Electrical sets for self-assembly

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

Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

INDIRECT WATER HEATERS WITH THREE SPIRAL COILS

TYPE SGW(S)M TOWER MULTI

Technical specification of the SGW(S)M Tower Multi

specification	unit	SGW(S)M Tower Multi		
		300	400	500
storage capacity ¹	l	295	391	488
ErP polyurethane foam	-	B	C	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	95	95	95
coil's maximum working temperature	°C	110	110	110
solar collector coil's surface	m²	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	m²	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	m²	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	m³/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	38x400
h1 - cold water inflow (int. thread)	" / mm	1 / 130	1 / 160	1 / 180
h2 - CH water outflow II (int. thread)	" / mm	1 / 210	1 / 240	1 / 255
h3 - CH water outflow II (int. thread)	" / mm	1 / 290	1 / 325	1 / 355
h4 - sensor cover I (Ø)	" / mm	3/8 / 390	3/8 / 475	3/8 / 525
h5 - sensor cover II (Ø)	" / mm	3/8 / 490	3/8 / 625	3/8 / 655
h6 - CH hot water inflow II (int. thread)	" / mm	1 / 670	1 / 905	1 / 1005
h7 - CH hot water inflow I (int. thread)	" / mm	1 / 750	1 / 990	1 / 1105
h8 - CH water outflow III (int. thread)	" / mm	1 / 880	1 / 1090	1 / 1205
h9 - sensor cover III (Ø)	" / mm	3/8 / 980	3/8 / 1190	3/8 / 1305
h10 - circulation (int. thread)	" / mm	3/4 / 1080	3/4 / 1290	3/4 / 1405
h11 - CH hot water inflow III (int. thread)	" / mm	1 / 1160	1 / 1410	1 / 1545
h12 - DHW outflow (int. thread)	" / mm	1 / 1350	1 / 1600	1 / 1645
d - internal diameter	mm	550	600	630
D - external diameter	mm	670	700	755
L - height	mm	1615	1750	1950
net weight (polyurethane foam)	kg	145	170	225

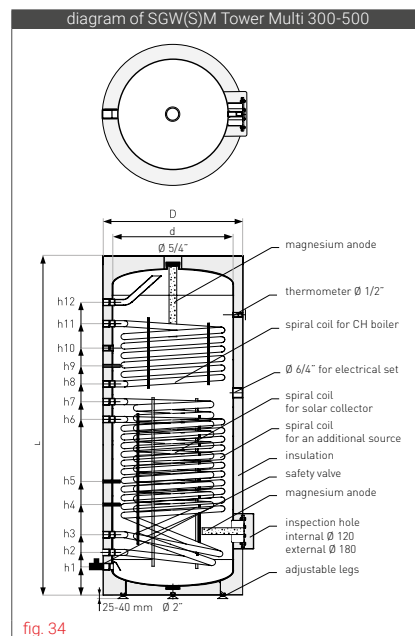


fig. 34

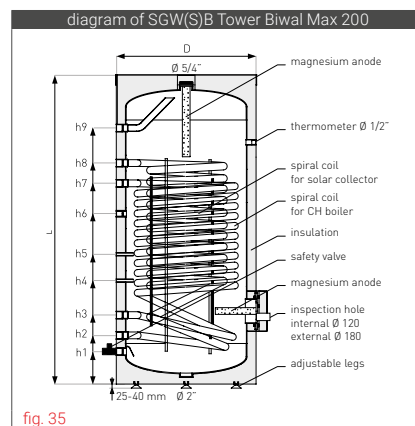


fig. 35

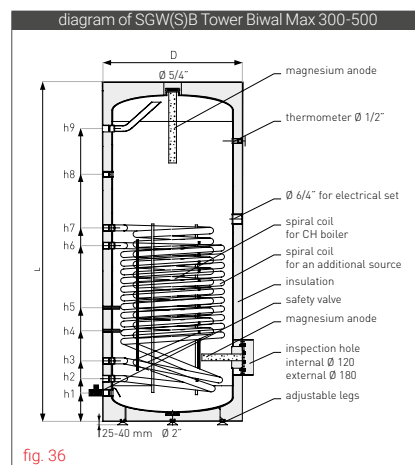
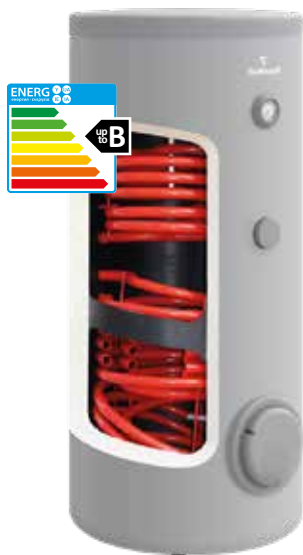


fig. 36

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

³ Since 01.08.2013 magnesium anode plug 5/4".



pic. 34
SGW(S)M Tower Multi
with three spiral coils

SGW(S)M Tower Multi

cat. no.	type	description
26-303000N	300	three spiral coils, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
26-403000N	400	
26-503000N	500	

Advantages of the SGW(S)M Tower Multi

- ▶ Three spiral coils (three separate circuits).
- ▶ Ability to connect several heat sources.
- ▶ Up to 50% longer service time thanks to the RESIST-TECH® protection.
- ▶ Ability to install an electrical set - option.
- ▶ Thermometer in standard.
- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ Additional protection with magnesium anode.

It is possible to order the SGW(S)B Tower Biwal Max (two spiral coils in the lower part of the tank, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode).

Electrical sets for self-assembly

cat. no.	description
41-020011	electrical set with heater 2 kW 230 V - K6/4" (I)
41-030011	electrical set with heater 3 kW 230 V - K6/4" (I)
41-045010	electrical set with heater 4,5 kW 400 V - K6/4"
41-060010	electrical set with heater 6 kW 400 V - K6/4"
41-090010	electrical set with heater 9 kW 400 V - K6/4"
41-120010	electrical set with heater 12 kW 400 V - K6/4"
41-045015	electrical set with heater 4,5 kW 400 V - K6/4" Elektronik
41-060015	electrical set 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. Except for the 700-1500 l capacities of the SG(S), SGW(S) SLIM, SGW(S)B SLIM type water heaters.

▶ 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.

▶ 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.

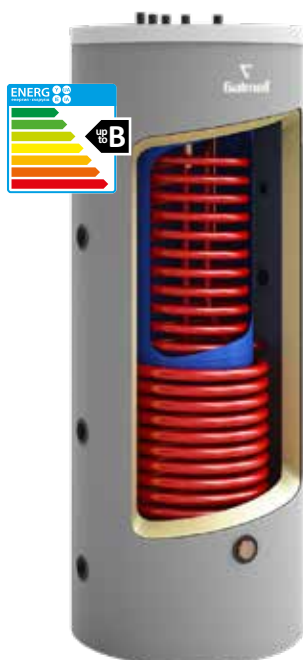
* Details in the warranty card.

Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

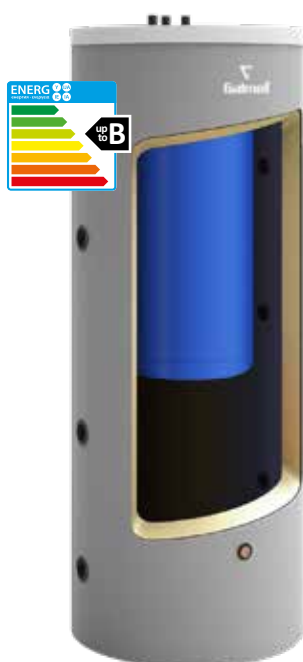
Technical specification of the SG(K) Kumulo with one or two spiral coils

Technical specification of the SG(K) Kumulo without spiral coils

³ Only in tanks with a spiral coil in the inner tank.
⁵ In types 500/160 or higher vessels with two spiral coils - diameter 1".



pic. 35
SG(K) Kumulo
with two spiral coils



pic. 36
SG(K) Kumulo without spiral coils

SG(K) Kumulo

cat. no.	type	description
71-302000	300/80	spiral coil in the external tank,, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
71-404000	380/120	
71-506000	500/160	
71-608000	600/200	
71-808000	800/200	
71-108000	1000/200	two spiral coils, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
72-302000	300/80	
72-404000	380/120	
72-506000	500/160	
72-608000	600/200	
72-808000	800/200	without spiral coils, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
72-108000	1000/200	
70-302000	300/80	
70-404000	380/120	
70-506000	500/160	
70-608000	600/200	
70-808000	800/200	
70-108000	1000/200	

Advantages of the SG(K) Kumulo

- ▶ Ability to connect several heat sources (CH boiler, fireplace, solar collectors, heat pump).
- ▶ Available types: without a coil or with one coil in the external tank, one coil in the internal tank or two spiral coils (e.g. for a solar installation and central heating system).
- ▶ Large external tank not enamelled, small internal DHW container enamelled with EXTRA GLASS® ceramic enamel.
- ▶ Ability to install an electrical set.
- ▶ Additional protection with magnesium anode.

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

It is possible to order the SG(K) Kumulo with spiral coil inside the inner tank (polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode).

Sensor cover

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

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

* Details in the warranty card.

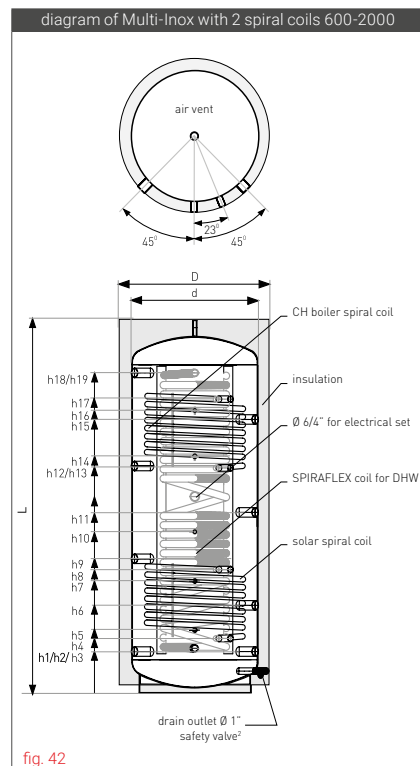
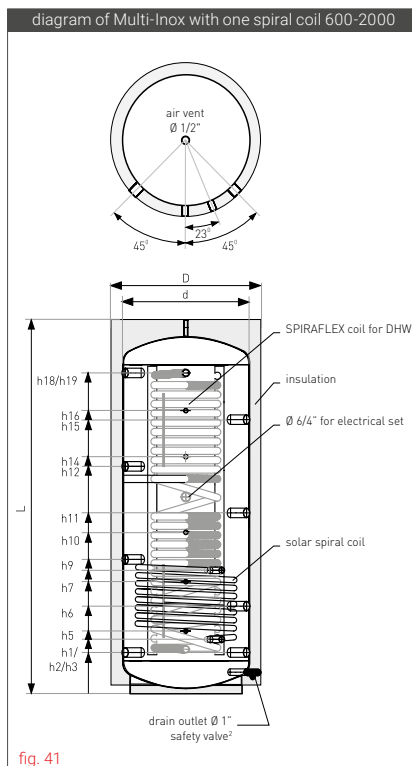
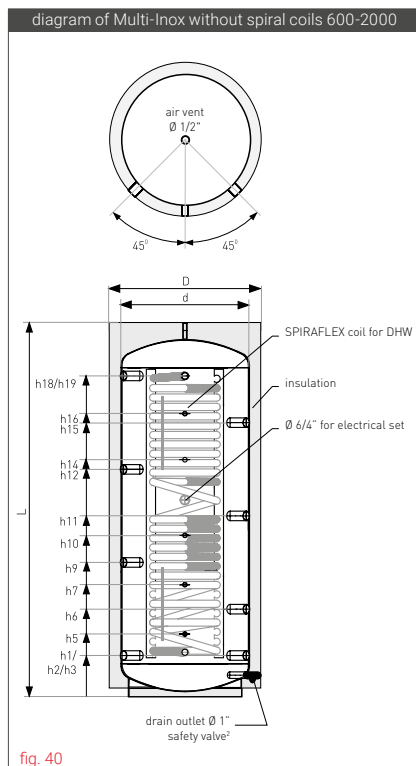
Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

HYGIENIC STRATIFICATION BUFFER TANKS

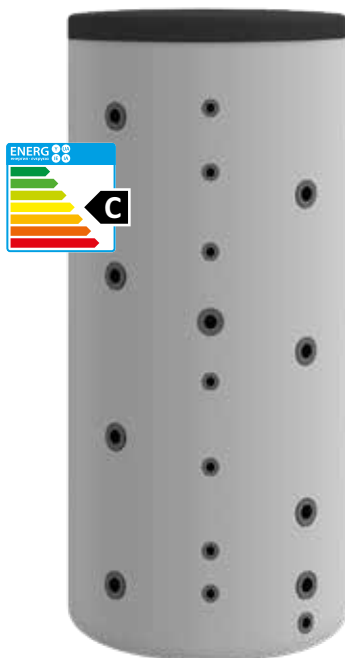
TYPE MULTI-INOX

Technical specification of the Multi-Inox

specification	unit	Multi-Inox				
		600	800	1000	1500	2000
storage capacity ¹	l	597	726	911	1390	1904
ErP polyurethane foam	-	-	-	-	-	-
ErP Neodul®	-	-	-	-	-	-
tank's maximum working pressure	MPa	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
maximum working temp. of the solar spiral coil / CH spiral coil	°C	110	110	110	110	110
coil surface (upper / lower)	m²	1,4/1,4	1,8/1,8	1,8/1,8	3,0/2,4	4,5/3,0
coil's 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
maximum working temp. of domestic hot water – SPIRAFLEX	°C	90	90	90	90	90
coil surface for DHW – SPIRAFLEX	m²	4,1	5,7	7,7	8,25	8,25
coil capacity of domestic hot water – SPIRAFLEX	l	22	30,5	41	44	44
flow through the DHW exchanger at 45°C – SPIRAFLEX	l/min	20	20	20	40	40
flow efficiency at 65°C (constant temperature at constant tank volume) at water temperature 45°C	l	268	510	574	520	572
power of the SPIRAFLEX stainless steel water heater (feed temperature approx. 65°C)	kW	45	61,5	91	117	128
h1 - CH boiler water inflow (int. thread)	" / mm	6/4 / 275	6/4 / 250	6/4 / 250	6/4 / 380	6/4 / 380
h2 - cold water inflow (int. thread)	" / mm	5/4 / 270	5/4 / 270	5/4 / 270	5/4 / 400	5/4 / 380
h3 - CH boiler water inflow (int. thread)	" / mm	6/4 / 275	6/4 / 250	6/4 / 250	6/4 / 380	6/4 / 380
h4 - CH water outflow (int. thread)	" / mm	1 / 345	1 / 330	1 / 330	1 / 460	1 / 450
h5 - sleeve for sensor cover I (Ø)	" / mm	1/2 / 420	1/2 / 380	1/2 / 380	1/2 / 510	1/2 / 610
h6 - CH boiler water inflow (int. thread)	" / mm	6/4 / 490	6/4 / 455	6/4 / 530	6/4 / 705	6/4 / 655
h7 - sleeve for sensor cover II (Ø)	" / mm	1/2 / 640	1/2 / 570	1/2 / 680	1/2 / 875	1/2 / 840
h8 - CH water inflow (int. thread)	" / mm	1 / 745	1 / 750	1 / 750	1 / 1260	1 / 1250
h9 - CH boiler water inflow (int. thread)	" / mm	6/4 / 700	6/4 / 685	6/4 / 815	6/4 / 1015	6/4 / 925
h10 - sleeve for sensor cover III (Ø)	" / mm	1/2 / 865	1/2 / 750	1/2 / 980	1/2 / 1240	1/2 / 1070
h11 - CH boiler water inflow (int. thread)	" / mm	6/4 / 915	6/4 / 900	6/4 / 1100	6/4 / 1325	6/4 / 1205
h12 - CH boiler water inflow (int. thread)	" / mm	6/4 / 1130	6/4 / 1115	6/4 / 1380	6/4 / 1640	6/4 / 1475
h13 - CH water outflow (int. thread)	" / mm	1 / 1105	1 / 1060	1 / 1370	1 / 1590	1 / 1410
h14 - sleeve for sensor cover IV (Ø)	" / mm	1/2 / 1215	1/2 / 1150	1/2 / 1440	1/2 / 1680	1/2 / 1530
h15 - CH boiler water inflow (int. thread)	" / mm	6/4 / 1340	6/4 / 1335	6/4 / 1665	6/4 / 1950	6/4 / 1750
h16 - sleeve for sensor cover V (Ø)	" / mm	1/2 / 1410	1/2 / 1450	1/2 / 1720	1/2 / 2020	1/2 / 1830
h17 - CH water inflow (int. thread)	" / mm	1 / 1505	1 / 1480	1 / 1790	1 / 2190	1 / 1960
h18 - CH boiler water inflow (int. thread)	" / mm	6/4 / 1555	6/4 / 1550	6/4 / 1950	6/4 / 2260	6/4 / 2030
h19 - DHW outflow (int. thread)	" / mm	5/4 / 1560	5/4 / 1555	5/4 / 1950	5/4 / 2260	5/4 / 2030
L - height	mm	1900	1880	2270	2665	2500
d - internal diameter	mm	700	790	790	900	1100
D - external diameter	mm	860	950	950	1100	1300
height when tilted	mm	2120	2130	2470	2890	2820
weight (without insulation)	kg	205	210	238	330	378



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



pic. 37
Multi-Inox in Neodul@ insulation



pic. 38
Multi-Inox
with one steel coil, two steel coils
or without any steel coils

Multi-Inox

cat. no.	type	description
70-601600	600	corrugated stainless steel heat exchanger, Neodul@ insulation, artificial leather / PVC film, non-enamelled
70-801600	800	
70-101600	1000	
70-151600	1500	
80-201600	2000	corrugated, stainless steel heat exchanger and one steel coil, Neodul@ insulation, artificial leather / PVC film, non-enamelled
71-601600	600	
71-801600	800	
71-101600	1000	
71-151600	1500	corrugated, stainless steel heat exchanger and two steel coils, Neodul@ insulation, artificial leather / PVC film, non-enamelled
81-201600	2000	
72-601600	600	
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.

Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

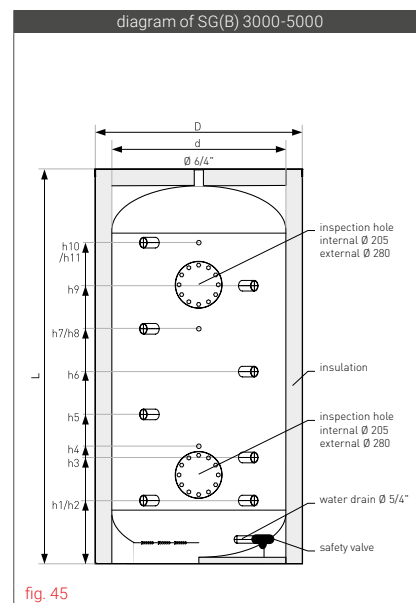
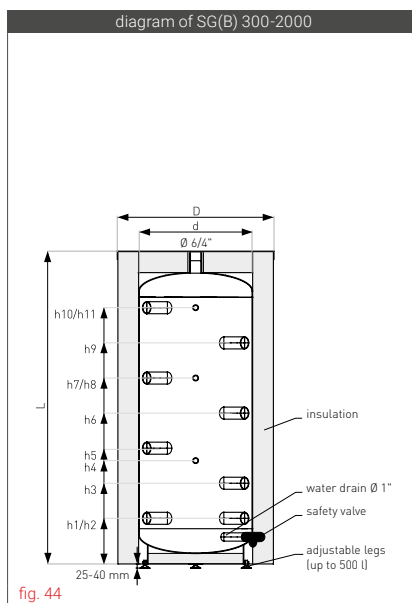
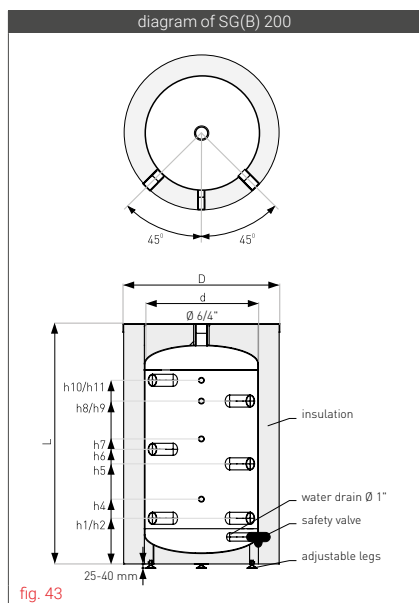
BUFFERS, NON-ENAMELLED VESSELS - TYPE SG(B)

Technical specification of the SG(B)

specification	unit	SG(B)										
		200	300	400	500	800	1000	1500	2000	3000	4000	5000
storage capacity ¹	l	223	322	396	467	728	883	1479	2023	2941	3985	4981
 ErP	polyurethane foam	-	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	95	95	95	95	95	95	95	95	95	95	95
h1 - CH boiler water inflow (int. thread)	" / mm	6/4 / 220	6/4 / 220	6/4 / 250	6/4 / 250	6/4 / 250	6/4 / 250	6/4 / 375	6/4 / 385	6/4 / 425	6/4 / 445	6/4 / 445
h2 - CH boiler water inflow (int. thread)	" / mm	6/4 / 220	6/4 / 220	6/4 / 250	6/4 / 250	6/4 / 250	6/4 / 250	6/4 / 375	6/4 / 385	6/4 / 425	6/4 / 445	6/4 / 445
h3 - CH boiler water inflow (int. thread)	" / mm	-	6/4 / 410	6/4 / 445	6/4 / 485	6/4 / 435	6/4 / 500	6/4 / 700	6/4 / 660	6/4 / 725	6/4 / 675	6/4 / 760
h4 - sleeve for sensor cover I (Ø)	" / mm	1/2 / 315	1/2 / 500	1/2 / 565	1/2 / 565	1/2 / 570	1/2 / 570	1/2 / 915	1/2 / 800	1/2 / 830	1/2 / 790	1/2 / 920
h5 - CH boiler water inflow (int. thread)	" / mm	6/4 / 485	6/4 / 600	6/4 / 635	6/4 / 715	6/4 / 620	6/4 / 740	6/4 / 1015	6/4 / 930	6/4 / 1040	6/4 / 910	6/4 / 1075
h6 - CH boiler water inflow (int. thread)	" / mm	6/4 / 555	6/4 / 785	6/4 / 825	6/4 / 945	6/4 / 820	6/4 / 980	6/4 / 1325	6/4 / 1205	6/4 / 1365	6/4 / 1140	6/4 / 1390
h7 - sleeve for sensor cover II (Ø, 200 l) or CH boiler water inflow (Gw, 300-5000 l)	" / mm	1/2 / 605	6/4 / 975	6/4 / 1015	6/4 / 1180	6/4 / 1020	6/4 / 1240	6/4 / 1640	6/4 / 1480	6/4 / 1685	6/4 / 1365	6/4 / 1705
h8 - sleeve for sensor cover III (Ø)	" / mm	1/2 / 785	1/2 / 975	1/2 / 1015	1/2 / 1180	1/2 / 1020	1/2 / 1240	1/2 / 1640	1/2 / 1480	1/2 / 1685	1/2 / 1365	1/2 / 1705
h9 - CH boiler water inflow (int. thread)	" / mm	6/4 / 785	6/4 / 1165	6/4 / 1210	6/4 / 1410	6/4 / 1215	6/4 / 1485	6/4 / 1950	6/4 / 1755	6/4 / 2000	6/4 / 1605	6/4 / 2020
h10 - CH boiler water inflow (int. thread)	" / mm	6/4 / 885	6/4 / 1355	6/4 / 1400	6/4 / 1640	6/4 / 1410	6/4 / 1730	6/4 / 2260	6/4 / 2025	6/4 / 2250	6/4 / 1840	6/4 / 2335
h11 - sleeve for sensor cover IV (Ø)	" / mm	1/2 / 885	1/2 / 1355	1/2 / 1400	1/2 / 1640	1/2 / 1410	1/2 / 1730	1/2 / 2260	1/2 / 2025	1/2 / 2250	1/2 / 1840	1/2 / 2335
L - height	mm	1140	1615	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 when 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.



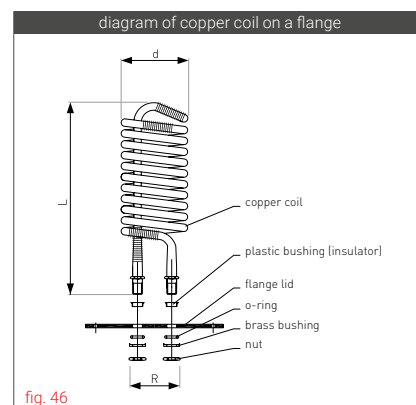
TINNED COPPER COILS FOR BUFFER TANKS TYPE 3000-5000

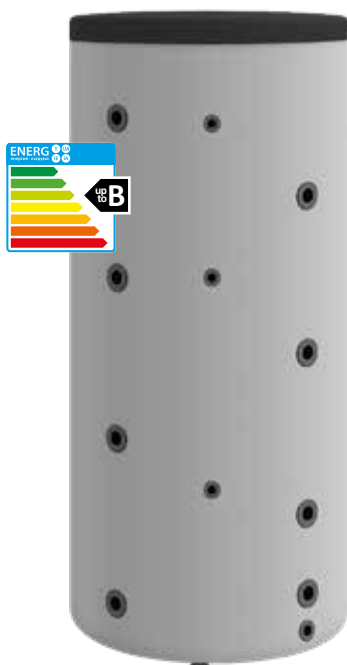
Technical specification of the tinned copper coils

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.





pic. 39
SG(B) 300 in Neodul® insulation



pic. 40
tinned copper coil

SG(B)

cat. no.	type	description
70-200000	200	without spiral coils, polyurethane foam, artificial leather / PVC film, non-enamelled
70-300000N	300	
70-400000	400	
70-500000	500	
70-800600	800	without spiral coils, Neodul® insulation, artificial leather / PVC film, non-enamelled
70-100600	1000	
70-150600	1500	
80-200600	2000	
80-300600	3000	without spiral coils, polyurethane foam, artificial leather / PVC film, non-enamelled
80-400600	4000	
80-500600	5000	
80-100600	10000	

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.

It is possible to order the SG(B) buffers:

- **with a storage capacity of 1000 l** (without spiral coils, Neodul® insulation, artificial leather / PVC film, non-enamelled, height ~2300 mm, internal/external Ø 990/790 mm), cat. no. 70-100600N.
- **without insulation 200-5000** (without spiral coils, non-enamelled).
- **for collecting ice water 200-1500** (without spiral coils, polyurethane foam, artificial leather / PVC film, non-enamelled).

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

cat. no.	description
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.

Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

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

Technical specification of the SG(B) with one spiral coil

specification	unit	SG(B) with one spiral coil							
		200	300	400	500	800	1000	1500	2000
storage capacity ¹	l	212	311	372	444	702	853	1444	1985
ErP polyurethane foam	-	B	B	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	95	95	95	95	95	95	95	95
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 (int. thread)	" / mm	6/4/220	6/4/220	6/4/250	6/4/250	6/4/250	6/4/250	6/4/330	6/4/385
h2 - CH boiler water outflow (int. thread)	" / mm	1/220	1/220	1/250	1/250	1/250	1/250	1/330	1/385
h3 - CH boiler water inflow (int. thread)	" / mm	6/4/220	6/4/220	6/4/250	6/4/250	6/4/250	6/4/250	6/4/330	6/4/385
h4 - CH boiler water inflow (int. thread)	" / mm	-	6/4/410	6/4/445	6/4/485	6/4/435	6/4/500	6/4/705	6/4/660
h5 - sleeve for sensor cover I (Ø)	" / mm	1/2/315	1/2/500	1/2/565	1/2/645	1/2/570	1/2/570	1/2/915	1/2/800
h6 - CH boiler water inflow (int. thread)	" / mm	6/4/485	6/4/600	6/4/635	6/4/715	6/4/620	6/4/740	6/4/1015	6/4/930
h7 - CH boiler water inflow (int. thread)	" / mm	6/4/555	6/4/785	6/4/825	6/4/945	6/4/820	6/4/980	6/4/1325	6/4/1205
h8 - CH hot water inflow (int. thread)	" / mm	1/690	1/690	1/850	1/1050	1/900	1/1100	1/1230	1/1285
h9 - sleeve for sensor cover II (Ø, 200 l) or CH boiler water inflow (Gw, 300-2000 l)	" / mm	1/2/605	6/4/975	6/4/1015	6/4/1180	6/4/1020	6/4/1240	6/4/1640	6/4/1480
h10 - sleeve for sensor cover III (Ø)	" / mm	1/2/785	1/2/975	1/2/1015	1/2/1180	1/2/1020	1/2/1240	1/2/1640	1/2/1480
h11 - CH boiler water inflow (int. thread)	" / mm	6/4/785	6/4/1165	6/4/1210	6/4/1410	6/4/1215	6/4/1485	6/4/1950	6/4/1755
h12 - CH boiler water inflow (int. thread)	" / mm	6/4/885	6/4/1355	6/4/1400	6/4/1640	6/4/1410	6/4/1730	6/4/2260	6/4/2025
h13 - sleeve for sensor cover IV (Ø)	" / mm	1/2/885	1/2/1355	1/2/1400	1/2/1640	1/2/1410	1/2/1730	1/2/2260	1/2/2025
L - height	mm	1140	1615	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 when 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) with two spiral coils

specification	unit	SG(B) with two spiral coils					
		400	500	800	1000	1500	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	95	95	95	95	95	95
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 (int. thread)	" / mm	6/4/250	6/4/250	6/4/250	6/4/250	6/4/330	6/4/385
h2 - CH boiler water outflow (int. thread)	" / mm	1/250	1/250	1/250	1/250	1/330	1/385
h3 - CH boiler water inflow (int. thread)	" / mm	6/4/250	6/4/250	6/4/250	6/4/250	6/4/330	6/4/385
h4 - CH boiler water inflow (int. thread)	" / mm	6/4/445	6/4/485	6/4/435	6/4/500	6/4/705	6/4/660
h5 - sleeve for sensor cover I (Ø)	" / mm	1/2/565	1/2/645	1/2/570	1/2/570	1/2/915	1/2/800
h6 - CH boiler water inflow (int. thread)	" / mm	6/4/635	6/4/715	6/4/620	6/4/740	6/4/1015	6/4/930
h7 - CH boiler water inflow (int. thread)	" / mm	6/4/825	6/4/945	6/4/820	6/4/980	6/4/1325	6/4/1205
h8 - CH water inflow (int. thread)	" / mm	1/850	1/1050	1/900	1/1100	1/1230	1/1285
h9 - CH boiler water outflow (int. thread)	" / mm	1/1010	1/1150	1/1000	1/1200	1/1565	1/1415
h10 - CH boiler water inflow (int. thread)	" / mm	6/4/1015	6/4/1180	6/4/1020	6/4/1240	6/4/1640	6/4/1480
h11 - sleeve for sensor cover II (Ø)	" / mm	1/2/1150	1/2/1300	1/2/1150	1/2/1350	1/2/1715	1/2/1565
h12 - CH boiler water inflow (int. thread)	" / mm	6/4/1210	6/4/1410	6/4/1215	6/4/1485	6/4/1950	6/4/1755
h13 - sleeve for sensor cover III (Ø)	" / mm	1/2/1410	1/2/1550	1/2/1320	1/2/1640	1/2/2110	1/2/1885
h14 - CH boiler water inflow (int. thread)	" / mm	6/4/1410	6/4/1640	6/4/1410	6/4/1730	6/4/2260	6/4/2025
h15 - CH water inflow for higher coil (int. thread)	" / mm	1/1420	1/1650	1/1420	1/1740	1/2260	1/2035
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 when 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 800 are placed on a ring.

* For type 2000 water drain 5/4".

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

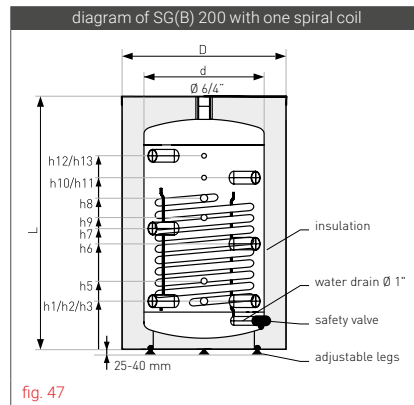


fig. 47

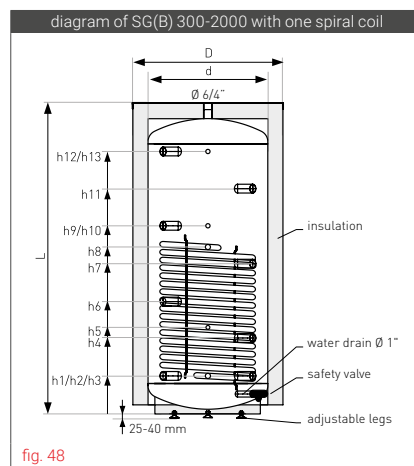


fig. 48

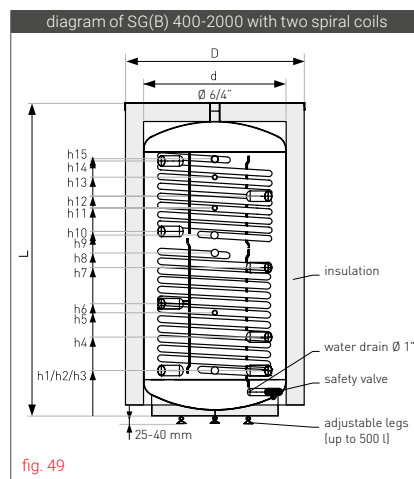


fig. 49

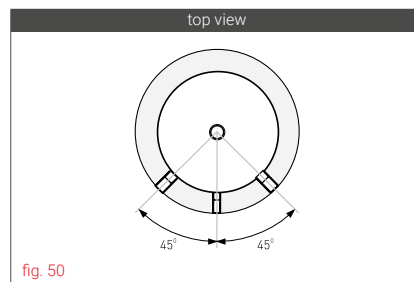
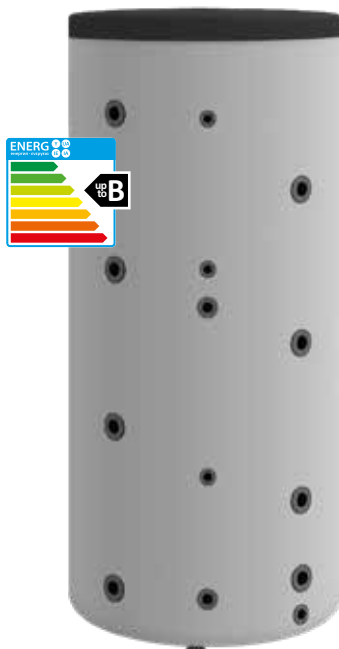


fig. 50



pic. 41
SG(B) with spiral coil
in Neodul® insulation



pic. 42
Installation of the
detachable Neodul®
insulation

SG(B)

cat. no.	type	description
71-200000	200	spiral coil, polyurethane foam, artificial leather / PVC film, non-enamelled
71-300000N	300	
71-400000	400	
71-500000	500	spiral coil, Neodul® insulation, artificial leather / PVC film, non-enamelled
71-800600	800	
71-100600	1000	
71-150600	1500	two spiral coils, polyurethane foam, artificial leather / PVC film, non-enamelled
81-200600	2000	
72-400000	400	
72-500000	500	two spiral coils, Neodul® insulation, artificial leather / PVC film, non-enamelled
72-800600	800	
72-100600	1000	
72-150600	1500	
82-200600	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.

It is possible to order the SG(B) buffers:

- **with a storage capacity of 1000 l** (spiral coil, Neodul® insulation, artificial leather / PVC film, non-enamelled, height ~2300 mm, internal/external Ø 990/790 mm), cat. no. 71-100600N.
- **without insulation 200-2000** (spiral coil, non-enamelled).

* 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.

Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

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	95	95	95
magnesium anode - top cover 5/4" plug	mm	25x310	25x310	25x310
h1 - water drain (int. thread)	" / mm	3/4 / 90	3/4 / 90	3/4 / 90
h2 - cold water inflow (int. thread)	" / mm	3/4 / 165	3/4 / 165	3/4 / 165
h3 - sleeve for sensor cover I (Ø)	" / mm	1/2 / 300	1/2 / 300	1/2 / 300
h4 - circulation (int. thread)	" / mm	3/4 / 450	3/4 / 450	3/4 / 450
h5 - sleeve for sensor cover II (Ø)	" / mm	1/2 / 570	1/2 / 570	1/2 / 570
h6 - DHW outflow (int. thread)	" / mm	3/4 / 790	3/4 / 920	3/4 / 1070
L - height	mm	1040	1150	1290
D - external diameter	mm	518	518	518
net weight	kg	40	45	49

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	322	420	523
ErP polyurethane foam	-	B	B	C	B
tank's maximum working pressure	MPa	1,0	1,0	1,0	1,0
tank's maximum working temperature	°C	95	95	95	95
magnesium anode - top cover 5/4" plug	mm	38x400	38x400	38x400	38x400
insp. hole M8 screw	mm	-	-	38x200	38x200
connections for the SG(S) 200, 400					
h1 - water drain (int. thread)	" / mm	1 / 130	-	1 / 160	-
h2 - cold water inflow (int. thread)	" / mm	1 / 210	-	1 / 240	-
h3 - sleeve for sensor cover I (Ø)	" / mm	1/2 / 440	-	1/2 / 570	-
h4 - sleeve for sensor cover II (Ø)	" / mm	-	-	1/2 / 1100	-
h5 - circulation (int. thread)	" / mm	3/4 / 680	-	3/4 / 1200	-
h6 - DHW outflow (int. thread)	" / mm	3/4 / 865	-	3/4 / 1480	-
connections for the SG(S) 300, 500					
h1 - water drain (int. thread)	" / mm	-	3/4 / 130	-	3/4 / 180
h2 - cold water inflow (int. thread)	" / mm	-	3/4 / 205	-	3/4 / 260
h3 - sleeve for sensor cover I (Ø)	" / mm	-	1/2 / 440	-	1/2 / 550
h4 - circulation (int. thread)	" / mm	-	3/4 / 750	-	3/4 / 1230
h5 - sleeve for sensor cover II (Ø)	" / mm	-	1/2 / 920	-	1/2 / 1330
h6 - DHW outflow (int. thread)	" / mm	-	3/4 / 1255	-	3/4 / 1650
dimensions					
sleeve for mounting an electrical set (int. thread)	"	6/4	6/4	6/4	6/4
insp. hole (external Ø / internal Ø)	mm	180/120	180/120	180/120	180/120
L - height	mm	1100	1615	1750	1950
D - external diameter	Ø	670	670	700	755
net weight	kg	75	90	110	130

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	-
ErP Neodul®	-	C	C	C
tank's maximum working pressure	MPa	1,0	1,0	1,0
tank's maximum working temperature	°C	95	95	95
magnesium anode - top cover 2" plug	mm	38x600	38x600	38x600
lower part of the tank 5/4" plug	mm	38x200	38x400	38x400
h1 - cold water inflow (int. thread)	" / mm	6/4 / 225	6/4 / 270	6/4 / 270
h2 - additional source sleeve (int. thread)	" / mm	6/4 / 315	6/4 / 380	6/4 / 380
h3 - sleeve for sensor cover I (Ø)	" / mm	1/2 / 605	1/2 / 600	1/2 / 600
h4 - additional source sleeve (int. thread)	" / mm	6/4 / 1225	6/4 / 1105	6/4 / 1750
h5 - sleeve for sensor cover II (Ø)	" / mm	1/2 / 1285	1/2 / 1200	1/2 / 1630
h6 - circulation (int. thread)	" / mm	5/4 / 1425	5/4 / 1290	5/4 / 1950
h7 - DHW outflow (int. thread)	" / mm	6/4 / 1705	6/4 / 1570	6/4 / 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 when tilted	mm	2220	2230	2860
net weight	kg	238	320	420

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

³ Since 01.08.2013 magnesium anode plug 5/4".

⁴ Neodul® (detachable).

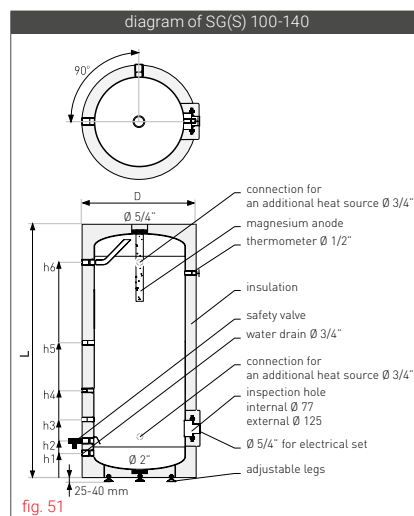


fig. 51

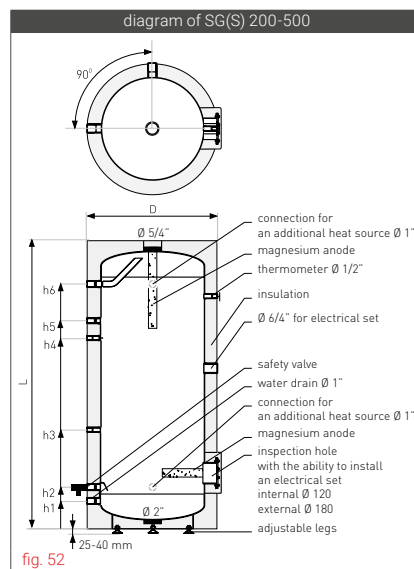


fig. 52

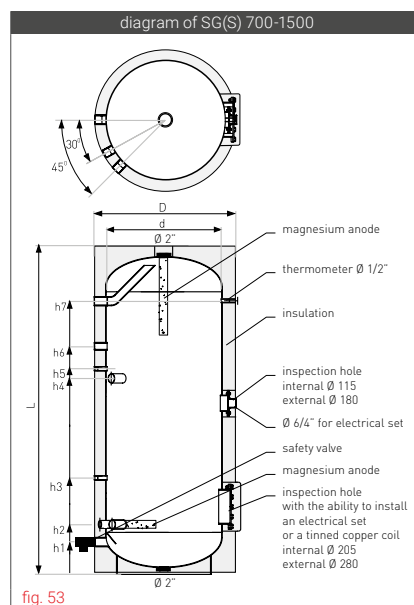
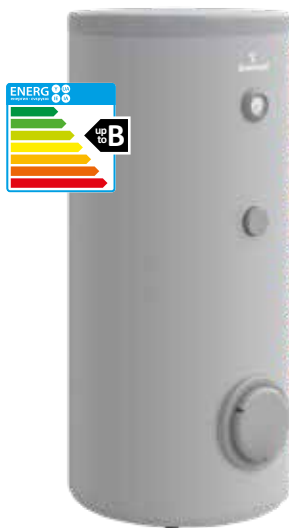


fig. 53



pic. 43
SG(S) 200-500



pic. 44
SG(S) in Neodul® insulation



pic. 45
Accessories

SG(S)

cat. no.	type	description
22-108000	100	
22-128000	120	
22-148000	140	
22-208000	200	
22-308000N	300	without spiral coils, polyurethane foam, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
22-408000N	400	
22-504000N	500	
22-704000	700	
34-104000	1000	
22-704600	700	without spiral coils, Neodul® insulation, artificial leather / PVC film, EXTRA GLASS® ceramic enamel, magnesium anode
34-104600	1000	
34-154600	1500	

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.	description
41-020001	electrical set with heater 2 kW 230 V - K5/4" (I)
41-030001	electrical set with heater 3 kW 230 V - K5/4" (I)
41-020011	electrical set with heater 2 kW 230 V - K6/4" (I)
41-030011	electrical set with heater 3 kW 230 V - K6/4" (I)
41-045010	electrical set with heater 4,5 kW 400 V - K6/4"
41-060010	electrical set with heater 6 kW 400 V - K6/4"
41-090010	electrical set with heater 9 kW 400 V - K6/4"
41-120010	electrical set with heater 12 kW 400 V - K6/4"
41-090020	electrical set with heater 9 kW flange Ø 280mm
41-120020	electrical set with heater 12 kW flange Ø 280mm
41-180020	electrical set with heater 18 kW flange Ø 280mm
41-240020	electrical set with heater 24 kW flange Ø 280mm
41-045015	electrical set with heater 4,5 kW 400 V - K6/4" Elektronik
41-060015	electrical set 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 do 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. Except for the 700-1500 l capacities of the SG(S), SGW(S) SLIM, SGW(S)B SLIM type water heaters.

Selection table of the electrical sets

cat. no.	description	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	electr. set GE with heater 4,5 kW 400 V - K6/4" Elektronik				•	•	•	•			
41-060015	electr. 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.

Standard colour of the metal jacket - white; artificial leather / PVC film - grey.
Available housing colours and special equipment - page 38.

CUSTOM-MADE WATER HEATERS

custom-made heat recovery vessels



fig. 54

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

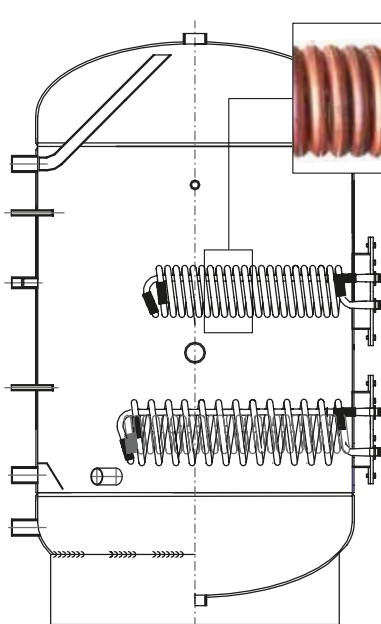


fig. 55

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






pic. 46

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

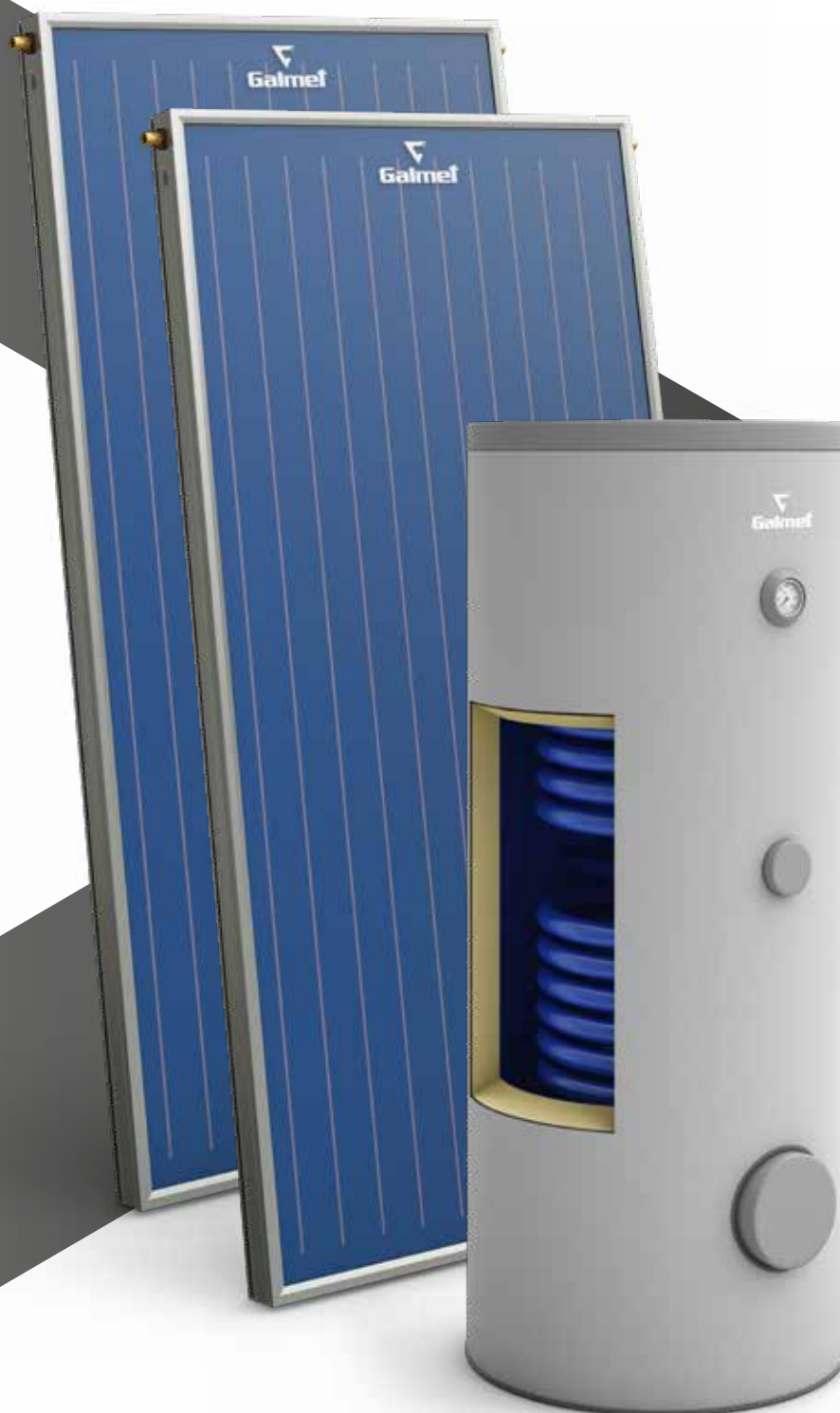
The standard colour for a jacket made of artificial leather is grey; the following colours are also available::

-  red - cat. no. ends in 30
-  green - cat. no. ends in 60
-  blue - cat. no. ends in 50
-  white - cat. no. ends in 70

ACCESSORIES AND SPARE PARTS

no.	cat. no.	item
1	M-010817	Active titanium anode (small) with a power adapter and a 5/4" plug
2	M-010927	Active titanium anode (big) with a power adapter and a 5/4" plug
3	M-004420	Active titanium anode (large double) 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-010259	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	40-130609	Heater 2 kW, 230V for enamelled tank flange Ø ext. 125 mm / 5 screws (sensor steel cover) manufactured after 10.2017
44	40-130610	Heater for an electrical set 2 kW 230V flange Ø180
45	40-130620	Heater for an electrical set 3 kW 230V flange Ø180
46	40-132400	Heater for an electrical set 4,5 kW (3*1,5kW) flange Ø180
47	40-132300	Heater for an electrical set 6 kW (3*2 kW) flange Ø180
48	40-131710	Heater for an electrical set 9 kW (3*3 kW) flange Ø180
49	40-131810	Heater for an electrical set 12 kW (3*4kW) flange Ø180
50	40-131910	Heater for an electrical set 18 kW (3*6 kW) flange Ø180
51	40-132010	Heater for an electrical set 24 kW (3*8kW) flange Ø180
52	41-020001	Electrical set GE with heater 2 kW 230V - K5/4" (I)
53	41-020011	Electrical set GE with heater 2 kW 230V - K6/4" (I)
54	41-030001	Electrical set GE with heater 3 kW 230V - K5/4" (I)
55	41-030011	Electrical set GE with heater 3 kW 230V - K6/4" (I)
56	41-045010	Electrical set GE with heater 4,5 kW 400V - K6/4"

no.	cat. no.	item
57	41-060010	Electrical set GE with heater 6 kW 400V - K6/4"
58	41-090010	Electrical set GE with heater 9 kW 400V - K6/4"
59	41-120010	Electrical set GE with heater 12 kW 400V - K6/4"
60	41-045015	Electrical set GE with heater 4,5 kW 400V - K6/4" Elektronik
61	41-060015	Electrical set GE with heater 6 kW 400V - K6/4" Elektronik
62	41-090020	Electrical set GE with heater 9 kW 400V flange Ø 280 mm
63	41-120020	Electrical set GE with heater 12 kW 400V flange Ø 280 mm
64	41-180020	Electrical set GE with heater 18 kW 400V flange Ø 280 mm
65	41-240020	Electrical set GE with heater 24 kW 400V flange Ø 280 mm
66	M-005046	Brass plug 1/2"
67	M-006329	Brass plug 5/4"
68	M-005550	Brass plug 6/4"
69	M-006330	Brass plug 2"
70	40-300107	Brass plug 5/4" with a Ø 10 hole mm for mounting the titanium anode
71	M-006728	Brass plug 2" with a Ø 10 hole mm for mounting the titanium anode
72	40-140100	Heater control module SGW(L) up to 2 kW, 230 V, foam
73	40-140200	Heater control module up to 2 kW 230 V, small cover
74	40-140201	Heater control module up to 2 kW 230 V, big cover
75	40-140202	Heater control module 3 kW, 230V, big cover
76	40-140501	Heater control module 4,5 kW 400 V
77	40-140500	Heater control module 6 kW 400 V
78	40-140600	Heater control module for horizontal heaters 4,5-6 kW 400 V
79	40-140700	Heater control module 9 kW 400 V
80	40-140800	Heater control module 12 kW 400 V
81	40-140900	Heater control module 18 kW 400 V
82	40-141000	Heater control module 24 kW 400 V
83	M-000016	Temperature limiter BOT 10A, up to 2 kW 230 V bimetallic
84	M-008880	Temperature limiter 16A, up to 3 kW 230 V capillary
85	M-008674	O-ring 6/4"
86	M-000075	O-ring 5/4"
87	M-008690	O-ring 2"
88	M-006559	Sensor cover (probe) - copper 1/2" L=100
89	M-006497	Sensor cover (probe) - copper 1/2" L=200
90	M-006499	Sensor cover (probe) - copper 3/4" L=110
91	40-300207	Metal flange lid Ø 125 mm with coupling 5/4" - 5 holes
92	40-300208	Metal flange lid Ø 125 mm with coupling 5/4" - 6 holes
93	40-300230	Flange lid Ø 180 mm with coupling 6/4" - steel
94	40-300239	Flange lid Ø 180 mm with a Ø 10 hole mm for mounting the titanium anode - steel
95	40-300283	Flange lid Ø 180 mm with a hole for mounting the magnesium anode - steel
96	40-300212	Metal flange lid 180 mm - full
97	M-000037	Bimetallic thermometer 66/G P/8 1/2"
98	M-005267	Thermoregulator EGO 4,5-12 kW 400V
99	M-000040	Thermoregulator 16A, 230V CZ
100	M-000041	Professional thermoregulator (for CH boiler's controller)
101	40-500110	Gasket Ø 96mm for a flange 125 mm
102	40-500111	Gasket Ø 96 for a flange with heater Ø ext. 125 mm
103	40-500106	Gasket for a flange Ø ext. 125 mm / 5 screws
104	40-500114	Gasket for a flange Ø ext. 125 mm / 6 screws
105	40-500121	Gasket Ø125/62 for a flange Ø 125 mm with coupling 5/4" - 5 screws
106	40-500122	Gasket Ø96/65 for a flange Ø 125 mm with coupling 5/4" - 6 screws
107	M-005893	Gasket for a flange with heater Ø ext. 125 mm / 5 screws
108	40-500120	Gasket for a flange with 3 heaters Ø180 mm
109	M-006536	Flange gasket Ø180 mm
110	40-500108	Flange gasket Ø180 mm with a hole for mounting the magnesium anode
111	M-005377	Gasket for a flange Ø 260 mm for combined heat accumulation vessels
112	M-004042	Hose to above-basin tap (250 mm in length) 1/2": 14x1
113	40-000300	Mounting brackets for central heating equalising tank
114	40-000100	Mounting brackets with regulation for horizontal water heaters GT 80-140, set
115	40-000400	Mounting brackets for horizontal water heaters 200-300
116	M-000413	Safety valve 6 bar 1/2" ZB-4 Slim
117	M-000043	Safety valve 6 bar 1/2" ZB-4
118	M-000044	Safety valve 6 bar 3/4" ZB-8
119	M-006881	Safety valve 9 bar 3/4" ZB-8
120	M-000303	Mixing valve unit
121	M-009814	Plastic sleeve Ø ext. 1"
122	M-009815	Plastic sleeve Ø ext. 3/4"



SOLAR SYSTEMS

– Flat solar collectors – type KSG Premium GT (copper) and KSG GT (aluminium)	42
– Complete solar systems with copper solar collectors and an indirect water heater for DHW	43
– Complete solar systems with aluminium solar collectors and an indirect water heater for DHW	46
– Accessories and spare parts	48

FLAT SOLAR COLLECTORS

COPPER (CU) AND ALUMINIUM (AL) - TYPE KSG

- ▶ Flat solar collector ready to be installed directly on the roof (flat or pitched) or on any base by using a frame construction.
- ▶ High optical efficiency at 82,9% (80,7% for collectors with 2,7 m² gross surface area) confirmed by the "Solar Keymark" certificate.
- ▶ High sunlight absorption at 95%.
- ▶ Up to 60% in annual savings in energy costs for heating DHW.
- ▶ Extremely high sunlight permeability OF 96% thanks to the prismatic tempered glass with anti-reflective coating (copper collectors only).
- ▶ Insulation of the highest quality - with pressed solar wool at the bottom part of the solar collector.
- ▶ Patented double-wall profile ensures side insulation, as well as increases the rigidity of the collector's structure.
- ▶ Thanks to the materials of the highest durability, the KSG collectors have a very long service life, which is further confirmed by the 10 year warranty.
- ▶ Easy installation and intuitive controls.



▶ The KSG type flat solar collectors are **„Solar Keymark“** certified and are subject to funding.



Technical specification of the flat solar collectors

specification	unit	KSG21 Premium GT	KSG27 Premium GT	KSG21 GT	KSG27 GT
catalogue number	–	08-102102	08-102702	08-102112	08-102712
type of collector	–	flat	flat	flat	flat
collector gross surface area	m ²	2,1	2,7	2,1	2,7
aperture area (active area)	m ²	1,94	2,57	1,94	2,57
glass	–	anti-reflective prismatic	anti-reflective prismatic	prismatic	prismatic
optical efficiency	%	82,9	79,5	82,9	80,7
heat loss coefficient	a1/a2	3,800/0,012	4,883/0,009	3,808/0,015	3,695/0,016
absorption efficiency	%	95	95	95	95
absorbing layer	–	highly selective	highly selective	highly selective	highly selective
absorber material	–	copper	copper	aluminium	aluminium
absorber piping material	–	copper pipe	copper pipe	aluminium pipe	aluminium pipe
absorber piping system	–	double harp	double harp	double harp	double harp
welding technology	–	ultrasound	ultrasound	ultrasound	ultrasound
number of risers	pcs.	12	16	12	16
header cross-section / lateral pipe cross-section	mm	22/8	22/8	22/8	22/8
maximum working pressure	MPa	0,6	0,6	0,6	0,6
liquid capacity	l	1,6	2,1	1,6	2,1
stagnation temperature	°C	201	201	182	182
insulation	–	mineral wool	mineral wool	mineral wool	mineral wool
housing	–	aluminium profile	aluminium profile	aluminium profile	aluminium profile
length	mm	2033	2033	2033	2033
width	mm	1033	1354	1033	1354
height	mm	83	83	83	83
net weight	kg	37,5	46,5	31,8	40,4

* Details in the warranty card.

COMPLETE SOLAR SYSTEMS WITH **COPPER** SOLAR COLLECTORS AND AN INDIRECT WATER HEATER FOR DHW







3 flat solar collectors KSG21 Premium GT with connection kit

- ▶ completely copper absorber
- ▶ anti-reflective prismatic glass resistant to hail
- ▶ high optical efficiency - 82,9%
- ▶ Solar Keymark certificate issued by the Austrian Institute of Technology



SGW(S)B Tower Biwal 300 l indirect water heater

- ▶ highest possible energy efficiency class - A
- ▶ innovative insulation Neodul®
- ▶ maintenance-free, active titanium anode
- ▶ Dielectric Protection® that prevents corrosion of the hydraulic connections

Electronic, two-way pump group with air separator

- ▶ high performance
- ▶ low power consumption

S Patron control module

- ▶ optimal protection thanks to electronic measurement of corrosion current (supports titanium anode)
- ▶ integrated operating hours counter
- ▶ intelligent control of the solar layouts
- ▶ PWM signal control of the solar pump
- ▶ intuitive interface

Double, corrugated solar tube made of stainless steel

- ▶ high thermal resistance - up to +220°C
- ▶ low heat losses thanks to the polyester fiber insulation
- ▶ TUV certificate from Stuttgart
- ▶ cables included

40 litres of Glycol dedicated to copper installations

Diaphragm vessel of a capacity of 24 l with connection set

PRIME

- ▶ perfect for 3-5 people ¹
- ▶ 3 flat solar collectors KSG21 Premium GT
- ▶ 6,3 m² of gross surface area
- ▶ 5,8 m² of aperture (active) area

cat. no.	model
08-942133	solar system with indirect water heater 300 l - artificial leather (gray)
08-220302	installation kit for pitched roofs covered with tiles
08-220312	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-220301	installation kit for a flat roof

COMPLETE SOLAR SYSTEMS WITH **COPPER** SOLAR COLLECTORS AND AN INDIRECT WATER HEATER FOR DHW

SOLAR SYSTEMS



SGW(S)B
Tower Biwal 200

2 solar collectors
KSG21 Premium GT

PREMIUM STANDARD

- ▶ perfect for 2-3 people ¹
- ▶ 2 flat solar collectors KSG21 Premium GT
- ▶ 4,2 m² of gross surface area
- ▶ 3,9 m² of aperture (active) area
- ▶ primary group Cu included

cat. no.	model
08-942012	solar system with indirect water heater 200 l - artificial leather (gray)
08-902002	solar system without water heater
08-220202	installation kit for pitched roofs covered with tiles
08-220212	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-220201	installation kit for a flat roof

PREMIUM

- ▶ perfect for 2-3 people ¹
- ▶ 2 flat solar collectors KSG21 Premium GT
- ▶ 4,2 m² of gross surface area
- ▶ 3,9 m² of aperture (active) area
- ▶ primary group Cu included

cat. no.	model
08-900400	solar system with indirect water heater 250 l - artificial leather (gray)
08-902002	solar system without water heater
08-220202	installation kit for pitched roofs covered with tiles
08-220212	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-220201	installation kit for a flat roof

PREMIUM PLUS

- ▶ perfect for 3-5 people ¹
- ▶ 3 flat solar collectors KSG21 Premium GT
- ▶ 6,3 m² of gross surface area
- ▶ 5,8 m² of aperture (active) area
- ▶ primary group Cu included

cat. no.	model
08-942033	solar system with indirect water heater 300 l - artificial leather (gray)
08-902003	solar system without water heater
08-220302	installation kit for pitched roofs covered with tiles
08-220312	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-220301	installation kit for a flat roof

The **Cu**
primary group
includes:



20 l glycol
container



collectors'
connection kit



electronic, two-way
pump group with air
separator



diaphragm
vessel ²



diaphragm vessel
installation kit ³



STDC control
module ⁴

Different configurations possible on client's request.

¹ According to the average daily DHW demand.

² Diaphragm vessel of different capacities depending on the number of solar collectors in the set:

- 2 KSG21 Premium GT solar collectors = 18 l
- 3 KSG21 Premium GT solar collectors = 24 l
- 4 KSG21 Premium GT solar collectors = 36 l
- 5 KSG21 Premium GT solar collectors = 50 l
- 2 KSG27 Premium GT solar collectors = 24 l
- 3 KSG27 Premium GT solar collectors = 36 l
- 4 KSG27 Premium GT solar collectors = 50 l

³ Applicable to diaphragm vessel up to 24 l capacity.

⁴ More advanced MTDC control module also available (surcharge required).

COMPLETE SOLAR SYSTEMS WITH **COPPER** SOLAR COLLECTORS AND AN INDIRECT WATER HEATER FOR DHW

PREMIUM MAXI

- ▶ perfect for 4-6 people ¹
- ▶ 4 flat solar collectors KSG21 Premium GT
- ▶ 8,4 m² of gross surface area
- ▶ 7,76 m² of aperture (active) area
- ▶ primary group Cu included

cat. no.	model
08-942044	solar system with indirect water heater 400 l - artificial leather (gray)
08-902004	solar system without water heater
08-220402	installation kit for pitched roofs covered with tiles
08-220412	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-220401	installation kit for a flat roof

PREMIUM MAXI PLUS

- ▶ perfect for 5-7 people ¹
- ▶ 5 flat solar collectors KSG21 Premium GT
- ▶ 10,5 m² of gross surface area
- ▶ 9,6 m² of aperture (active) area
- ▶ primary group Cu included

cat. no.	model
08-942055	solar system with indirect water heater 500 l - artificial leather (gray)
08-902005	solar system without water heater
08-220502	installation kit for pitched roofs covered with tiles
08-220512	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-220501	installation kit for a flat roof



PREMIUM LARGE

- ▶ perfect for 3-4 people ¹
- ▶ 2 flat solar collectors KSG27 Premium GT
- ▶ 5,5 m² of gross surface area
- ▶ 5,1 m² of aperture (active) area
- ▶ primary group Cu included

cat. no.	model
08-942632	solar system with indirect water heater 300 l - artificial leather (gray)
08-226202	installation kit for pitched roofs covered with tiles
08-226212	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-226201	installation kit for a flat roof

PREMIUM LARGE PLUS

- ▶ perfect for 4-6 people ¹
- ▶ 3 flat solar collectors KSG27 Premium GT
- ▶ 8,25 m² of gross surface area
- ▶ 7,7 m² of aperture (active) area
- ▶ primary group Cu included

cat. no.	model
08-942643	solar system with indirect water heater 400 l - artificial leather (gray)
08-226302	installation kit for pitched roofs covered with tiles
08-226312	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-226301	installation kit for a flat roof

The **Cu**
primary group
includes:



20 l glycol
container



collectors'
connection kit



electronic, two-way
pump group with air
separator



diaphragm
vessel ²



diaphragm vessel
installation kit ³



STDC control
module ⁴

Different configurations possible on client's request.

¹ According to the average daily DHW demand.

² Diaphragm vessel of different capacities depending on the number of solar collectors in the set:

- 2 KSG21 Premium GT solar collectors = 18 l
- 3 KSG21 Premium GT solar collectors = 24 l
- 4 KSG21 Premium GT solar collectors = 36 l
- 5 KSG21 Premium GT solar collectors = 50 l
- 2 KSG27 Premium GT solar collectors = 24 l
- 3 KSG27 Premium GT solar collectors = 36 l
- 4 KSG27 Premium GT solar collectors = 50 l

³ Applicable to diaphragm vessel up to 24 l capacity.

⁴ More advanced MTDC control module also available (surcharge required).

COMPLETE SOLAR SYSTEMS WITH **ALUMINIUM** SOLAR COLLECTORS AND AN INDIRECT WATER HEATER FOR DHW



PREMIUM STANDARD AL

- ▶ perfect for 2-3 people ¹
- ▶ 2 flat solar collectors KSG21 GT
- ▶ 4,2 m² of gross surface area
- ▶ 3,9 m² of aperture (active) area
- ▶ primary group AI included

cat. no.	model
08-952012	solar system with indirect water heater 200 l - artificial leather (gray)
08-912002	solar system without water heater
08-220202	installation kit for pitched roofs covered with tiles
08-220212	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-220201	installation kit for a flat roof

PREMIUM AL

- ▶ perfect for 2-3 people ¹
- ▶ 2 flat solar collectors KSG21 GT
- ▶ 4,2 m² of gross surface area
- ▶ 3,9 m² of aperture (active) area
- ▶ primary group AI included

cat. no.	model
08-952022	solar system with indirect water heater 250 l - artificial leather (gray)
08-912002	solar system without water heater
08-220202	installation kit for pitched roofs covered with tiles
08-220212	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-220201	installation kit for a flat roof

PREMIUM PLUS AL

- ▶ perfect for 3-5 people ¹
- ▶ 3 flat solar collectors KSG21 GT
- ▶ 6,3 m² of gross surface area
- ▶ 5,8 m² of aperture (active) area
- ▶ primary group AI included

cat. no.	model
08-952033	solar system with indirect water heater 300 l - artificial leather (gray)
08-912003	solar system without water heater
08-220302	installation kit for pitched roofs covered with tiles
08-220312	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-220301	installation kit for a flat roof

The **AI**
primary group
includes:



Different configurations possible on client's request.

¹ According to the average daily DHW demand.

² Diaphragm vessel of different capacities depending on the number of solar collectors in the set:

- 2 KSG21 GT solar collectors = 18 l
- 3 KSG21 GT solar collectors = 24 l
- 4 KSG21 GT solar collectors = 36 l
- 5 KSG21 GT solar collectors = 50 l
- 2 KSG27 GT solar collectors = 24 l
- 3 KSG27 GT solar collectors = 36 l
- 4 KSG27 GT solar collectors = 50 l

³ Applicable to diaphragm vessel up to 24 l capacity.

⁴ More advanced MTDC control module also available (surcharge required).

Warning! Aluminium collectors must be connected to the installation by stainless steel pipes. In addition, aluminium collectors use chrome connection sets, as well as special glycol type, intended for aluminium collectors only.

COMPLETE SOLAR SYSTEMS WITH **ALUMINIUM** SOLAR COLLECTORS AND AN INDIRECT WATER HEATER FOR DHW

PREMIUM MAXI AL

- ▶ perfect for 4-6 people ¹
- ▶ 4 flat solar collectors KSG21 GT
- ▶ 8,4 m² of gross surface area
- ▶ 7,76 m² of aperture (active) area
- ▶ primary group AI included

cat. no.	model
08-952044	solar system with indirect water heater 400 l - artificial leather (gray)
08-912004	solar system without water heater
08-220402	installation kit for pitched roofs covered with tiles
08-220412	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-220401	installation kit for a flat roof

PREMIUM MAXI PLUS AL

- ▶ perfect for 5-7 people ¹
- ▶ 5 flat solar collectors KSG21 GT
- ▶ 10,5 m² of gross surface area
- ▶ 9,6 m² of aperture (active) area
- ▶ primary group AI included

cat. no.	model
08-952055	solar system with indirect water heater 500 l - artificial leather (gray)
08-912005	solar system without water heater
08-220502	installation kit for pitched roofs covered with tiles
08-220512	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-220501	installation kit for a flat roof

PREMIUM LARGE AL

- ▶ perfect for 3-4 people ¹
- ▶ 2 flat solar collectors KSG27 GT
- ▶ 5,5 m² of gross surface area
- ▶ 5,1 m² of aperture (active) area
- ▶ primary group AI included

cat. no.	model
08-952632	solar system with indirect water heater 300 l - artificial leather (gray)
08-226202	installation kit for pitched roofs covered with tiles
08-226212	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-226201	installation kit for a flat roof

PREMIUM LARGE PLUS AL

- ▶ perfect for 4-6 people ¹
- ▶ 3 flat solar collectors KSG27 GT
- ▶ 8,25 m² of gross surface area
- ▶ 7,7 m² of aperture (active) area
- ▶ primary group AI included

cat. no.	model
08-952643	solar system with indirect water heater 400 l - artificial leather (gray)
08-226302	installation kit for pitched roofs covered with tiles
08-226312	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-226301	installation kit for a flat roof

KOMBI LARGE AL

- ▶ perfect for 4-6 people ¹
- ▶ 4 flat solar collectors KSG27 GT
- ▶ 10,8 m² of gross surface area
- ▶ 10,2 m² of aperture (active) area
- ▶ primary group AI included

cat. no.	model
08-952654	solar system with indirect water heater 500/160 with heat exchanger in an outer tank - artificial leather (gray)
08-226402	installation kit for pitched roofs covered with tiles
08-226412	installation kit for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
08-226401	installation kit for a flat roof

The **AI** primary group includes:



20 l glycol container for aluminium solar collectors



chrome collectors' connection kit ALU



electronic, one-way pump group



diaphragm vessel ²



diaphragm vessel installation kit without check valve ³



STDC control module ⁴

Different configurations possible on client's request.

¹ According to the average daily DHW demand.

² Diaphragm vessel of different capacities depending on the number of solar collectors in the set:

- 2 KSG21 GT solar collectors = 18 l
- 3 KSG21 GT solar collectors = 24 l
- 4 KSG21 GT solar collectors = 36 l
- 5 KSG21 GT solar collectors = 50 l
- 2 KSG27 GT solar collectors = 24 l
- 3 KSG27 GT solar collectors = 36 l
- 4 KSG27 GT solar collectors = 50 l

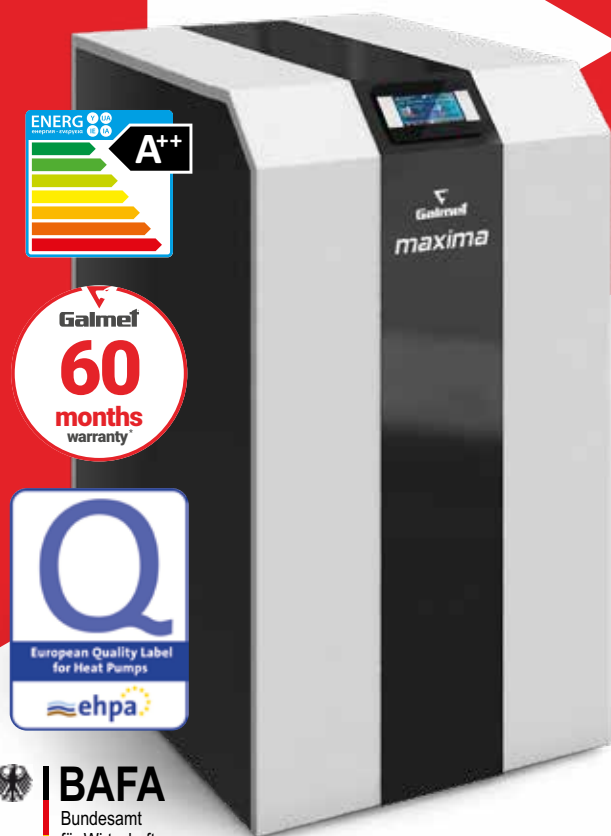
³ Applicable to diaphragm vessel up to 24 l capacity.

⁴ More advanced MTDC control module also available (surcharge required).

Warning! Aluminium collectors must be connected to the installation by stainless steel pipes. In addition, aluminium collectors use chrome connection sets, as well as special glycol type, intended for aluminium collectors only.

ACCESSORIES AND SPARE PARTS

no.	cat. number	item
1	08-400400	STDC controller (support for 2 solar schemes)
2	08-400300	MTDC controller (support for 20 solar schemes)
3	08-400740	LTDC controller (support for 31 solar schemes)
4	08-400710	Ethernet module for the MTDC controller
5	08-300108	One-way solar pump group UPM-3 15/75 without the diaphragm vessel set
6	08-300308	Two-way solar pump group 2-12 l/min UPM-3 25/75 without the diaphragm vessel set
7	08-300408	Two-way solar pump group 8-28 l/min UPM-3 25/145 without the diaphragm vessel set
8	33-180200	Diaphragm vessel 18 l
9	33-240200	Diaphragm vessel 24 l
10	33-360200	Diaphragm vessel 36 l
11	33-500200	Diaphragm vessel 50 l
12	08-003001	Kit for connecting the diaphragm vessel from 18 l to 24 l, 3/4" with stop valve
13	08-003003	Kit for connecting the diaphragm vessel from 18 l to 24 l, without stop valve
14	08-002000	Solar fluid (glycol) 20 l (-30)
15	08-002100	Solar fluid (glycol) 20 l (-30) for aluminium solar collectors
16	08-000010	Connection kit for 1 solar collector
17	08-000020	Connection kit for 2 solar collectors
18	08-000030	Connection kit for 3 solar collectors
19	08-000040	Connection kit for 4 solar collectors
20	08-000050	Connection kit for 5 solar collectors
21	08-000011	Chrome connection kit for 1 aluminium solar collector
22	08-000021	Chrome connection kit for 2 aluminium solar collectors
23	08-000031	Chrome connection kit for 3 aluminium solar collectors
24	08-000041	Chrome connection kit for 4 aluminium solar collectors
25	08-000051	Chrome connection kit for 5 aluminium solar collectors
26	08-004122	Joint clip Ø 22/22 for connecting solar collectors
27	m-001232	Elbow (for connecting solar collectors) 22/ 3/4" Ext. thread
28	m-004418	4-way solar coupling Ø 22x3/4" with a vent and a sensor capillary for solar collectors
29	08-004222	Joint clip Ø 22/22 for connecting aluminium solar collectors
30	m-009289	Elbow (for connecting aluminium solar collectors) 22/ 3/4" Ext. thread
31	m-009290	4-way solar coupling Ø 22x3/4" with a vent and a sensor capillary for aluminium solar collectors
32	m-009219	Screw 10x200 A2 DIN6923 for metal roof tiles
33	m-006256	A stainless steel hook for roofs with plain tiles
34	m-010077	A stainless steel hook for roofs with slate tiles with a "L" type hook
35	m-010078	A stainless steel hook for roofs with slate tiles with a "S" type hook
36	m-010083	A stainless steel hook for roofs with slate tiles with a "Z" type hook
37	08-001000	PT1000 temperature sensor for STDC and MTDC controllers
38	m-007223	Manual refractometer
39	08-715012	Rotameter 2-12 l/min
40	08-000601	Device for venting/filling the solar installation
41	m-010386	DN15 % FLEXIRA nut for the corrugated solar tube's pipe connection set (1 piece)
42	m-010387	DN15 % FLEXIRA gasket for the corrugated solar tube's pipe connection set (1 piece)
43	08-220102	Installation kit for 1 KSG 21 Premium GT collector for pitched roofs covered with tiles
44	08-220112	Installation kit for 1 KSG 21 Premium GT collector for pitched roofs covered with steel sheets, heat-weldable roofing membrane or shingles
45	08-220101	Installation kit for 1 KSG 21 Premium GT collector for a flat roof
46	08-005020	Double, corrugated solar tube made of stainless steel with insulation - 20 m
47	08-005030	Double, corrugated solar tube made of stainless steel with insulation - 30 m
48	08-005060	Double, corrugated solar tube made of stainless steel with insulation - 60 m
49	08-200520	Correction handles for 5 flat solar collectors, angle of inclination 20°
50	08-200510	Correction handles for 5 flat solar collectors, angle of inclination 10°
51	08-200420	Correction handles for 4 flat solar collectors, angle of inclination 20°
52	08-200410	Correction handles for 4 flat solar collectors, angle of inclination 10°
53	08-200320	Correction handles for 3 flat solar collectors, angle of inclination 20°
54	08-200310	Correction handles for 3 flat solar collectors, angle of inclination 10°
55	08-200220	Correction handles for 2 flat solar collectors, angle of inclination 20°
56	08-200210	Correction handles for 2 flat solar collectors, angle of inclination 10°
57	08-200120	Correction handles for 1 flat solar collector, angle of inclination 20°
58	08-200110	Correction handles for 1 flat solar collector, angle of inclination 10°

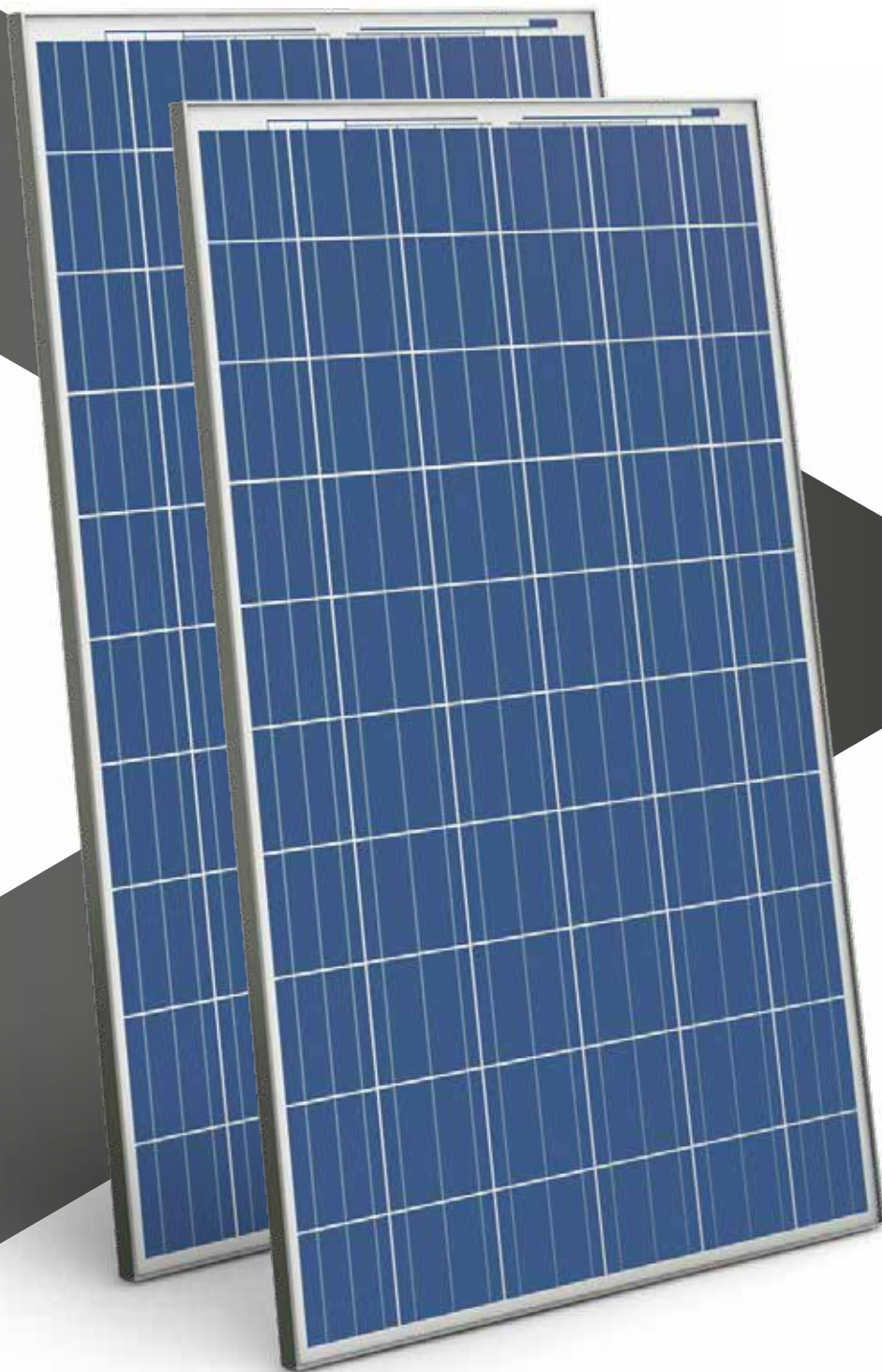


»» MAXIMA

FIRST POLISH GROUND-WATER HEAT PUMP
WITH THE EUROPEAN QUALITY MARK EHPA-Q

Maxima guarantees the highest efficiency standards as well as extremely low footprint on the environment we live in. Whatever the season and temperatures outside, Maxima supplies the heat needed to warm up the house and domestic hot water.

* Details in the warranty card.



PHOTOVOLTAIC SETS

– Photovoltaic sets	52
– Photovoltaic + heat pump systems	53

PHOTOVOLTAIC SETS

Photovoltaic sets are a way of converting solar energy into electricity in a form of a DC current. In other words: electricity from the sun. Each set includes an inverter, connectors and wiring. Galmet PV sets are based on a modern, polycrystalline modules from Hanover Solar.



Advantages of Hanover Solar photovoltaic modules:

- ▶ High resistance to static load (5400 Pa, IEC 61730).
- ▶ Module's glass is resistant to dirt and sediment.
- ▶ Hail resistant (in accordance with the IEC 61215 norm).
- ▶ Water-resistant thanks to the tight frame (IP67 class).
- ▶ Temperature resistance up to 220°C (IEC 61730-2).
- ▶ 10-year warranty.

Technical specification of the PV module

specification	unit	HS260P-30 module
number of cells	pcs.	60
dimensions	mm	1650 x 992 x 40
glass	–	hardened, hail resistant
junction box	–	IP67
weight	kg	19,5
electrical data (STC: AM=1,5; E=1000/m ² ; TC=25 °C)		
peak power	W	260
efficiency	%	15,7
the voltage at the MPP point	V	31,0
current at the MPP point	A	8,40
open circuit voltage	V	37,8
short-circuit current	A	8,85
fuses	A	20
maximum DC system voltage	V	1000
temperature coefficients (STC: AM=1,5; E=1000/m ² ; TC=25 °C)		
power (P)	% / °C	-0,43
voltage (Voc)	%	-0,32
current (Isc)	%	0,05

Montage sets

cat. no.	name
10-201001	installation kit for a flat roof
10-201002	installation kit for pitched roofs covered with plain tiles
10-201012	installation kit for pitched roofs covered with steel sheets or steel tiles
10-201022	installation kit for pitched roofs covered with slate tiles with a "L" type hook
10-201032	installation kit for pitched roofs covered with slate tiles with a "S" type hook
10-201042	installation kit for pitched roofs covered with slate tiles with a "Z" type hook

ON-GRID PV SETS (CONNECTED TO THE POWER GRID)

item	unit	2,08 kWp	3,12 kWp	6,24 kWp	8,32 kWp	9,88 kWp	15,08 kWp	20,8 kWp	39,52 kWp
catalogue no.	–	10-902011	10-903111	10-906231	10-908331	10-910031	10-915031	10-920031	10-940031
photovoltaic module	pcs.	8	12	24	32	38	58	80	152
inverter with Wi-Fi card	–	1 pcs. / 1-phase	1 pcs. / 1-phase	1 pcs. / 3-phase	1 pcs. / 3-phase	1 pcs. / 3-phase	1 pcs. / 3-phase	1 pcs. / 3-phase	2 pcs. / 3-phase
wiring	m	50	50	100	100	100	100	250	250
connectors	set	1	1	1	1	1	1	1	1
weight of the modules	kg	168	252	420	588	840	1260	1680	3360

OFF-GRID photovoltaic sets also available (Not connected to the power grid).

* Details in the warranty card.

PHOTOVOLTAIC SET + HEAT PUMP SETS

Lower your electricity bill and CO₂ emission by combining two different energy types (heating and electrical). In addition, such solution provides the comfort of clean heat during the winter. This combination ensures high efficiency of the devices, long-term, eco-friendly operation and low costs of CH and DHW.


Energy Flow GT (photovoltaic set + Spectra heat pump) for DHW



x8

2,08 kW ON-GRID photovoltaic set

+



Spectra
air-water heat pump

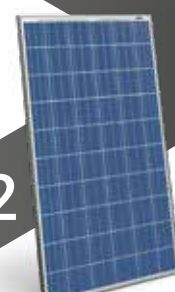
Advantages of this set:

- ▶ Maximum use of renewable energy in your home (sun + air).
- ▶ Up to 100% of the heat pump's demand for electricity can be covered by the photovoltaic set.
- ▶ Ability to settle annual energy surplus.

cat. no.
Energy Flow GT

SG-000013
Spectra 200 I heat pump (cat. no. 09-363100) + 2,08 kW ON-GRID photovoltaic set with a 1-phase inverter (cat. no. 10-902011)
- the assembly kit and surge protectors are not included.

Energy Max GT (photovoltaic set + Maxima heat pump) for CH and DHW



x12

2,6 kW ON-GRID photovoltaic set

+



Maxima
ground-water heat pump

+



SGW(S) Maxi 300 l
water heater

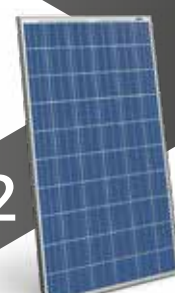
Advantages of this set:

- ▶ Central heating for your home provided mostly by renewable energy.
- ▶ Domestic hot water comfort for up to 6 person family for a whole year.
- ▶ Ability to settle annual energy surplus.

cat. no.
Energy Max GT

SG-000014
Maxima 10 GT heat pump (cat. no. 09-161000) + 2,6 kW ON-GRID photovoltaic set with a 3-phase inverter (cat. no. 10-903111)
+ SGW(S) Maxi 300 water heater (cat. no. 26-308100) - the assembly kit and surge protectors are not included.


Energy Air GT (photovoltaic set + Airmax² heat pump) for CH and DHW



x12


2,6 kW ON-GRID photovoltaic set

+



Airmax²
air-water heat pump

+



SGW(S) Maxi 300 l
water heater

Advantages of this set:

- ▶ Central heating for your home provided mostly by renewable energy.
- ▶ Thanks to the photovoltaic set, the energy consumption of the heat pump decreases to a minimum.
- ▶ Domestic hot water comfort for up to 6 person family for a whole year (300 l/day).
- ▶ Easy installation, no additional costs, no drilling etc.

cat. no.
Energy Air GT

SG-000016
Airmax² 12 GT heat pump (cat. no. 09-261200) + 2,6 kW ON-GRID photovoltaic set with a 3-phase inverter (cat. no. 10-903111)
+ SGW(S) Maxi 300 water heater (cat. no. 26-308100) - the assembly kit and surge protectors are not included.



HEAT PUMPS

– Spectra: air-source heat pump water heater for DHW	56
– Spectra Smart: air-source heat pump water heater for DHW	57
– Basic: air-source heat pump water heater for DHW	58
– Small: air-water heat pump for DHW	59
– Maxima 7-16 GT: ground-water heat pump for CH and DHW	60
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– Airmax ² 16-30 GT: high temperature air-water heat pump for CH and DHW	63
– Accessories and spare parts	64


AIR-SOURCE HEAT PUMP WATER HEATER FOR DHW - *spectra*

- ▶ High COP value of 3,52 (A20/W10-55) and 3,49 (A15/W10-55), according to the newest standards.¹
- ▶ Highest possible energy efficiency class - A+.
- ▶ SQUARE Jacket Design® - modern, square shaped outer casing.
- ▶ The 200 l water tank secures the domestic hot water for 4-5 person family.
- ▶ Water is heated up to 55°C.
- ▶ Spiral coil can be used for connecting an additional energy source (i.e. solid-fuel boiler, solar panels, etc.).²
- ▶ Controller with a color touch screen display.
- ▶ Ability to set up the work schedule to both heat pump and circulation pump.
- ▶ Average energy consumption below 2 kWh per day.
- ▶ Longer service life of the tank thanks to the anti-corrosion DIELECTRIC PROTECTION®.
- ▶ The heat pump is equipped with a 2 kW electric heater, which is used during the increased demand for DHW.
- ▶ Drying and partial air conditioning of the room during device's operation.
- ▶ Energy from nature.



Spectra

Technical specification of the Spectra heat pump

specification	unit	Spectra 200 l with one spiral coil
catalogue number	-	09-363100
COP	-	3,49 (A15/W10-55) ¹ 3,52 (A20/W10-55) ¹
heating power	kW	2
total heating power (heat pump + electric heater)	kW	4
nominal power consumption	kW	0,453
surface of the spiral coil	m ²	1,0
maximum DHW temperature	°C	55
voltage and frequency	V / Hz	230 / 50
working temperature range	°C	+7 ÷ +35
tank volume	l	200
connections	inch	1
circulation connection	inch	¾
tank's maximum working pressure	MPa	1,0
coil's maximum working pressure	MPa	1,6
acoustic power level ³	dB	56
acoustic pressure ⁴	dB	45
nominal air flow	m ³ /h	512
air ducts' diameter	mm	200
air ducts' maximum length	m	10
dimensions (height x width x depth)	mm	1560 x 660 x 670
net weight	kg	115
ErP  energy efficiency class	-	A+

* Details in the warranty card.

** Assuming the water intake profile - L (according to the ErP).

¹ According to the PN-EN 16147 norm; A - air temperature; W - heated water temperature range; water intake profile - L.

² In order to control the solar circuit it is necessary to purchase the PT1000 sensor (sensor for the CH boiler included).

³ According to the EN 12102 norm.

⁴ At a distance of 2 meters.

▶ Annual savings of **~2600 kWh** compared to traditional electric heater, assuming that the water consumption will amount to about 200 l/day.**



ST-530 controller

SOURCE HEAT PUMP WATER HEATER FOR DHW - *spectra smart*

- ▶ Convenient control - color touch-screen controller with intuitive "tiled" menu.
- ▶ Savings - ECO mode ensures the most efficient heat pump operation.
- ▶ Comfort - TURBO mode provides express water heating.
- ▶ Convenience - active titanium anode operated by the heat pump's controller.
- ▶ Safety - HOLIDAY mode protects the heat pump during longer periods of inactivity.
- ▶ High COP value of 3,52 (A20/W10-55) and 3,49 (A15/W10-55), according to the newest standards.¹
- ▶ Highest possible energy efficiency class - A+.
- ▶ SQUARE Jacket Design® - modern, square shaped outer casing.
- ▶ The 200 l water tank secures the domestic hot water for 4-5 person family.
- ▶ Water is heated up to 55°C.
- ▶ Spiral coil can be used for connecting an additional energy source (i.e. solid-fuel boiler, solar panels, etc.).²
- ▶ Ability to set up the work schedule to both heat pump and circulation pump.
- ▶ Average energy consumption below 2 kWh per day.
- ▶ The heat pump is equipped with a 2 kW electric heater, which is used during the increased demand for DHW.
- ▶ Drying and partial air conditioning of the room during device's operation.
- ▶ Energy from nature.



Spectra Smart

Technical specification of the Spectra Smart heat pump

specification	unit	Spectra Smart 200 with one spiral coil
catalogue number	-	09-363100Q
COP	-	3,49 (A15/W10-55) ¹ 3,52 (A20/W10-55) ¹
heating power	kW	2
total heating power (heat pump + electric heater)	kW	4
nominal power consumption	kW	0,453
surface of the spiral coil	m ²	1,0
maximum DHW temperature	°C	55
voltage and frequency	V / Hz	230 / 50
working temperature range	°C	+7 ÷ +35
tank volume	l	200
connections	inch	1
circulation connection	inch	¾
tank's maximum working pressure	MPa	1,0
coil's maximum working pressure	MPa	1,6
acoustic power level ³	dB	56
acoustic pressure ⁴	dB	45
nominal air flow	m ³ /h	512
air ducts' diameter	mm	200
air ducts' maximum length	m	10
dimensions (height x width x depth)	mm	1560 x 660 x 670
net weight	kg	115
ErP energy efficiency class	-	A+

* Details in the warranty card.

¹ According to the PN-EN 16147 norm; A - air temperature; W - heated water temperature range; water intake profile - L.

² In order to control the solar circuit it is necessary to purchase the PT1000 sensor (sensor for the CH boiler included).

³ According to the EN 12102 norm.

⁴ At a distance of 2 meters.



Longer service life
of the tank thanks
to the anti-corrosion
**DIELECTRIC
PROTECTION®.**



ST-530 controller with "tiled" menu

AIR-SOURCE HEAT PUMP WATER HEATER FOR DHW - *basic*


- ▶ COP value: now up to 3,49¹ according to the newest standards.
- ▶ Highest possible energy efficiency class - A+ (Basic 200, Basic 270).
- ▶ Heats the water up to 55°C.
- ▶ Touch-screen controller with the following functions:
ECO, ANTILEGIONELLA, PARTY and the ability to work with an additional heat source (i.e. solid-fuel boiler, solar panels, etc.).²
- ▶ Ability to set up the work schedule to both heat pump and circulation pump.
- ▶ The heat pump is equipped with a 2 kW electric heater, which is used during the increased demand for DHW.
- ▶ Drying and partial air conditioning of the room during operation.
- ▶ Defrost system enabling operation in temperatures up to -7°C (Basic 300).
- ▶ Average energy consumption below 2 kWh per day (Basic 200).
- ▶ Longer service life of the tank thanks to the anti-corrosion DIELECTRIC PROTECTION®.
- ▶ Energy from nature.



Basic 200

The heat pump is equipped with a water tank with a capacity of **200, 270 or 300 l** and with one or two coils for connecting additional heat sources (i.e. solar panels, CH boiler).²

Technical specification of the Basic heat pump

specification	unit	Basic 200 with one spiral coil	Basic 270 with one spiral coil	Basic 270 with two spiral coils	Basic 300 with one spiral coil
catalogue number	-	09-353102	09-355102	09-355202	09-356100
COP	-	3,49 (A15/W10-55) ¹ 3,76 (A20/W10-55) ¹	3,06 (A15/W10-55) ¹ 3,36 (A20/W10-55) ¹	3,06 (A15/W10-55) ¹ 3,36 (A20/W10-55) ¹	2,36 (A15/W10-55) ¹ 2,69 (A20/W10-55) ¹
heating power	kW	2	2	2	2
total heating power (heat pump + electric heater)	kW	4	4	4	4
nominal power consumption	kW	0,402	0,413	0,413	0,418
surface of the spiral coil	m ²	1,0	1,0	1,0 / 0,7	1,0
maximum DHW temperature	°C	55	55	55	55
voltage and frequency	V / Hz	230 / 50	230 / 50	230 / 50	230 / 50
working temperature range	°C	+7 ÷ +35	+7 ÷ +35	+7 ÷ +35	-7 ÷ +35
tank volume	l	200	270	270	300
connections	inch	1	1	1	1
circulation connection	inch	¾	¾	¾	¾
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
acoustic power level ³	dB	57	56	56	62
acoustic pressure ⁴	dB	46	45	45	51
nominal air flow	m ³ /h	365	313	313	328
air ducts' diameter	mm	160	160	160	160
air ducts' maximum length	m	10	10	10	10
dimensions (height x diameter)	mm	1500 x 670	1730 x 670	1730 x 670	1900 x 670
net weight	kg	120	130	150	135
ErP  energy efficiency class	-	A+	A+	A+	A

* Details in the warranty card.

¹ According to the PN-EN 16147 norm; A - air temperature; W - heated water temperature range; water intake profile - L (Basic 200), XL (Basic 270, 300).

² In order to control the solar circuit it is necessary to purchase the PT1000 sensor (sensor for the CH boiler included).

³ According to the EN 12102 norm.

⁴ At a distance of 2 meters.

AIR-WATER HEAT PUMP FOR DHW - *small*

- ▶ COP value COP: 3,75 (A15/W35).¹
- ▶ Heats the water up to 55°C.
- ▶ Can be connected to any indirect water heater operating within the system.
- ▶ Low energy consumption: 0,375 kW.
- ▶ Intelligent controller with the ability to control the solar system.²
- ▶ Ability to control the circulation pump of an additional energy source (i.e. solid-fuel boiler, solar panels).²
- ▶ Ability to set up the work schedule to both heat pump and circulation pump.
- ▶ Drying and partial air conditioning of the room during operation.
- ▶ Energy from nature.
- ▶ Optional equipment ³:
 - Dedicated circulation pumps.




Small



Intelligent, **touch-screen controller** with the following functions: ECO, ANTILEGIONELLA, PARTY. Dedicated for the Small and Basic heat pumps.



Technical specification of the Small heat pump

specification	unit	Small
catalogue number	-	09-240201
COP	-	3,75 (A15/W35) ¹ 2,64 (A20/W10-55) ⁴
heating power	kW	2
nominal power consumption	kW	0,375
maximum DHW temperature	°C	55
voltage and frequency	V / Hz	230 / 50
working temperature range	°C	+7 ÷ +35
connections	inch	¾
maximum pressure of the heating system	MPa	0,3
acoustic power level ³	dB	61
acoustic pressure ⁴	dB	50
nominal air flow	m³/h	261
air ducts' diameter	mm	200
air ducts' maximum length	m	10
dimensions (height x width x depth)	mm	460 x 660 x 670
weight	kg	36
ErP  energy efficiency class	-	A

* Details in the warranty card.

¹ According to the EN 14511 norm; A - air temperature; W - heated water temperature range.

² In order to control the solar circuit it is necessary to purchase the PT1000 sensor (sensor for the CH boiler included).

³ Not included.

⁴ According to the PN-EN 16147 norm; A - air temperature; W - heated water temperature range; water intake profile L.

⁵ According to the EN 12102 norm.

⁶ At a distance of 2 meters.

GROUND-WATER HEAT PUMP FOR CH AND DHW - *maxima 7-16 GT*

- ▶ High COP value: up to 4,5 (B0W35).¹
- ▶ First Polish ground-water heat pump with the European quality mark EHPA-Q.
- ▶ Ability to obtain grants in Germany - included on the BAFA list.
- ▶ Reliable Scroll compressor.
- ▶ Weather system adjusts the heat pump's performance to the weather conditions.
- ▶ Ability to set up the work schedule to both the heat pump and the circulation pump.
- ▶ Ability to control an additional heater, circulation pump, heating circuits.
- ▶ Electronic expansion valve that maximizes performance.
- ▶ Constant efficiency during the entire heating season.
- ▶ Energy from nature.



Maxima 7-16 GT

In standard with the device:

- ▶ Complete set of temperature sensors.
- ▶ Internet module for remote control of the device.
- ▶ Electronic circulation pump built into the device.
- ▶ Three-way valve for DHW functionality built into the device.
- ▶ Soft Start module (quiet start-up of the compressor).
- ▶ Built-in 7 kW electric heater.
- ▶ Colour touch panel with thermostat function.



Technical specification of the Maxima 7÷16 GT heat pump

specification	unit	Maxima 7 GT	Maxima 10 GT	Maxima 12 GT	Maxima 16 GT
catalogue number	-	09-160700	09-161000	09-161200	09-161600
heating power	kW	7,25	9,85	12,50	16,57
electrical power	(B0W35) ¹ kW	1,68	2,21	2,78	3,77
COP	-	4,32	4,46	4,50	4,40
heating power	kW	6,85	9,23	11,80	15,48
electrical power	(B0W55) ¹ kW	2,49	3,21	4,12	5,39
COP	-	2,75	2,88	2,86	2,87
SCOP	-	4,56	4,64	4,69	4,63
central heating's seasonal energy efficiency	moderate climate (W35) %	174,3	177,7	179,6	177,0
ErP energy efficiency class	-	A++	A+++	A+++	A+++
SCOP	-	3,33	3,42	3,45	3,59
central heating's seasonal energy efficiency	moderate climate (W55) %	125,1	128,9	129,9	135,5
ErP energy efficiency class	-	A++	A++	A++	A++
connections	inch	1	1	1	1
maximum temperature of the heating circuit	°C	60	60	60	60
voltage and frequency	V / Hz	400 / 50	400 / 50	400 / 50	400 / 50
dimensions (height x width x depth)	mm	1060 x 590 x 720			
weight	kg	110	110	115	120
electric heater power	kW	7	7	7	7
acoustic power level ²	dB	44,0	45,0	47,0	49,3
acoustic pressure ³	dB	33,0	34,0	36,0	38,3

For **Maxima** heat pumps we recommend the dedicated **Maximus** water heater with a maximum size heat exchanger, titanium anode and a 2 kW electric heater.



Details on page 24.

* Details in the warranty card.

¹ According to the EN 14511 norm; B - glycol temperature; W - heated water temperature range.

² According to the EN 12102 norm.

³ At a distance of 2 meters.

HIGH-TEMPERATURE GROUND-WATER HEAT PUMP FOR CH AND DHW - *maxima 20-42 GT*

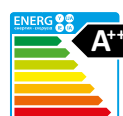
- ▶ High COP value: up to 4,67 (B0W35).¹
- ▶ High feed temperature of the heating circuit: up to 65°C.
- ▶ Ideal for buildings with increased demand for thermal energy.
- ▶ Ability to obtain grants in Germany - included on the BAFA list.
- ▶ Reliable Scroll compressor with EVI.
- ▶ Ability to heat rooms, domestic water and swimming pool water.
- ▶ Weather system adjusts the heat pump's performance to the weather conditions.
- ▶ Ability to set up the work schedule to both the heat pump and the circulation pump.
- ▶ Ability to control an additional heater, circulation pump, heating circuits.
- ▶ Electronic expansion valve that maximizes performance.
- ▶ Constant efficiency during the entire heating season.
- ▶ Energy from nature.
- ▶ Optional equipment²:
 - Three-way valve for DHW functionality.





In standard with the device:

- ▶ Complete set of temperature sensors.
- ▶ Internet module for remote control of the device.
- ▶ Electronic circulation pumps supplied with the device.
- ▶ Soft Start module (quiet start-up of the compressor).
- ▶ Colour touch panel with thermostat function.

Maxima 20-42 GT



Technical specification of the Maxima 20÷42 GT heat pump

specification		unit	Maxima 20 GT	Maxima 28 GT	Maxima 34 GT	Maxima 42 GT
catalogue number		-	09-162000	09-162800	09-163400	09-164200
heating power	(B0W35) ¹	kW	19,60	28,10	32,85	41,30
electrical power		kW	4,27	6,02	7,47	9,12
COP		-	4,59	4,67	4,40	4,53
heating power	(B0W55) ¹	kW	20,10	28,15	34,10	41,91
electrical power		kW	6,66	9,35	11,96	13,61
COP		-	3,02	3,01	2,85	3,08
SCOP		-	4,61	4,76	4,60	4,69
central heating's seasonal energy efficiency	moderate climate (W35)	%	176,3	182,5	176,1	179,6
ErP  energy efficiency class		-	A+++	A+++	A+++	A+++
SCOP	moderate climate (W55)	-	3,75	3,79	3,63	3,79
central heating's seasonal energy efficiency		%	141,8	143,5	137,0	143,7
ErP  energy efficiency class		-	A++	A++	A++	A++
connections		inch	5/4	5/4	6/4	6/4
maximum temperature of the heating circuit		°C	65	65	65	65
voltage and frequency		V / Hz	400 / 50	400 / 50	400 / 50	400 / 50
dimensions (height x width x depth)		mm	1105 x 730 x 925			
weight		kg	135	160	170	190
acoustic power level ³		dB	58,5	60,5	62,0	63,4
acoustic pressure ⁴		dB	47,5	49,5	51,0	52,4

* Details in the warranty card.

¹ According to the EN 14511 norm; B - glycol temperature; W - heated water temperature range.

² Not included.

³ According to the EN 12102 norm.

⁴ At a distance of 2 meters.

AIR-WATER HEAT PUMP FOR CH AND DHW - *airmax²* 6-15 GT

- ▶ High COP value: up to 4,72 (A7W35).¹
- ▶ Ability to obtain grants in Germany - included on the BAFA list.
- ▶ Working range up to -20°C.
- ▶ Weather system adjusts the heat pump's performance to the weather conditions.
- ▶ Reliable scroll compressor and an electronic expansion valve that maximizes performance.
- ▶ Evaporator with a hydrophobic layer.
- ▶ Ability to set up the work schedule to both the heat pump and the circulation pump.
- ▶ Quiet operation thanks to the modulating fans with aerodynamically optimized blades.
- ▶ Easy installation - no digging required.
- ▶ Energy from nature.
- ▶ Optional equipment²:
 - Plate heat exchanger (glycol-water) for existing water installation.
 - Three-way valve for DHW functionality.
 - Soft Start module (quiet start-up of the compressor).



In standard with the device:

- ▶ Complete set of temperature sensors.
- ▶ Internet module for remote control of the device.
- ▶ Electronic circulation pump built into the device.
- ▶ Built-in 7 kW electric heater.
- ▶ Colour touch panel with thermostat function.



Technical specification of the Airmax² 6÷15 GT heat pump

specification	unit	Airmax ² 6 GT	Airmax ² 9 GT	Airmax ² 12 GT	Airmax ² 15 GT
catalogue number	-	09-260600	09-260900	09-261200	09-261500
heating power	kW	6,17	8,11	11,00	13,93
electrical power	(A7W35) ¹ kW	1,41	1,76	2,33	3,02
COP	-	4,37	4,61	4,72	4,61
heating power	kW	4,63	6,09	8,31	10,07
electrical power	(A2W35) ¹ kW	1,71	1,77	2,32	2,84
COP	-	3,28	3,44	3,58	3,55
heating power	kW	5,52	7,31	9,83	12,54
electrical power	(A7W55) ¹ kW	2,13	2,71	3,52	4,30
COP	-	2,59	2,70	2,79	2,92
SCOP	-	3,55	3,65	3,94	4,01
central heating's seasonal energy efficiency	moderate climate (W35) %	139,2	143,0	154,6	157,5
ErP energy efficiency class	-	A+	A+	A++	A++
SCOP	-	2,84	2,96	3,07	3,09
central heating's seasonal energy efficiency	moderate climate (W55) %	110,8	115,5	119,6	120,6
ErP energy efficiency class	-	A+	A+	A+	A+
connections	inch	1	1	1	1
maximum temperature of the heating circuit	°C	57	57	57	57
voltage and frequency	V / Hz	400 / 50	400 / 50	400 / 50	400 / 50
dimensions (height x width x depth)	mm	828 x 1295 x 520	828 x 1295 x 520	1435 x 1295 x 520	1435 x 1295 x 520
weight	kg	110	115	140	145
air flow	m³/h	3000	3500	5000	6000
electric heater power	kW	7	7	7	7
acoustic power level ³	dB	65,0	66,5	70,0	73,3
acoustic pressure ⁴	dB	45,0	46,5	50,0	53,3

* Details in the warranty card.

¹ According to the EN 14511 norm; A - air temperature; W - heated water temperature range.

² Not included.

³ According to the EN 12102 norm.

⁴ At a distance of 4 meters.

HIGH-TEMPERATURE AIR-WATER HEAT PUMP FOR CH AND DHW - *airmax²* 16-30 GT

- ▶ High COP value: up to 4,70 (A7W35).¹
- ▶ Reliable Scroll compressor with EVI - supply temperature up to 60°C.
- ▶ Ability to obtain grants in Germany - included on the BAFA list.
- ▶ Working range up to -20°C.
- ▶ Weather system adjusts the heat pump's performance to the weather conditions.
- ▶ Evaporator with a hydrophobic layer.
- ▶ Ability to set up the work schedule to both the heat pump and the circulation pump.
- ▶ Quiet operation thanks to the modulating fans with aerodynamically optimized blades.
- ▶ Easy installation - no digging required.
- ▶ Energy from nature.
- ▶ Optional equipment²:
 - Plate heat exchanger (glycol-water) for existing water installation.
 - Three-way valve for DHW functionality.



Airmax² 16-30 GT



In standard with the device:

- ▶ Complete set of temperature sensors.
- ▶ Internet module for remote control of the device.
- ▶ Electronic circulation pump built into the device.
- ▶ Built-in 7 kW electric heater.
- ▶ Colour touch panel with thermostat function.

Technical specification of the Airmax² 16÷30 GT heat pump

specification	unit	Airmax ² 16 GT	Airmax ² 21 GT	Airmax ² 26 GT	Airmax ² 30 GT
catalogue number	-	09-261600	09-262100	09-262600	09-263000
heating power	kW	15,55	20,98	26,01	29,82
electrical power	(A7W35) ¹ kW	3,31	4,59	5,64	6,41
COP	-	4,70	4,58	4,61	4,65
heating power	kW	11,25	15,03	18,75	21,42
electrical power	(A2W35) ¹ kW	3,17	4,34	5,34	6,09
COP	-	3,55	3,46	3,51	3,52
heating power	kW	15,75	21,22	26,40	30,10
electrical power	(A7W55) ¹ kW	4,85	6,76	8,25	9,47
COP	-	3,25	3,14	3,20	3,18
SCOP	-	4,07	3,93	3,99	4,01
central heating's seasonal energy efficiency	moderate climate (W35) %	159,8	154,2	156,7	157,5
ErP energy efficiency class	-	A++	A++	A++	A++
SCOP	-	3,13	3,04	3,12	3,13
central heating's seasonal energy efficiency	moderate climate (W55) %	122,4	118,8	121,7	122,3
ErP energy efficiency class	-	A+	A+	A+	A+
connections	inch	1	5/4	5/4	5/4
maximum temperature of the heating circuit	°C	60	60	60	60
voltage and frequency	V / Hz	400 / 50	400 / 50	400 / 50	400 / 50
dimensions (height x width x depth)	mm	1399 x 1477 x 700	1862 x 1690 x 700	1862 x 1690 x 700	1862 x 1690 x 700
weight	kg	200	205	265	270
air flow	m³/h	8 000	10 000	10 000	12 000
electric heater power	kW	7	7	7	7
acoustic power level ³	dB	73,5	74,4	75,0	75,5
acoustic pressure ⁴	dB	53,5	54,4	55,0	55,5

* Details in the warranty card.

¹ According to the EN 14511 norm; A - air temperature; W - heated water temperature range.

² Not included.

³ According to the EN 12102 norm.

⁴ At a distance of 4 meters.

ACCESSORIES FOR GALMET'S HEAT PUMPS

List of accessories

no.	cat. no.	item	intended use
1	40-262500	Magnesium anode ø33x250 with a 5/4" plug	Basic 200 ¹ , Spectra ¹
2	40-263800	Magnesium anode ø38x400 with a 5/4" plug	Basic 270 ² , Basic 300 ²
3	08-001000	PT1000 temperature sensor	Basic, Spectra, Small
4	M-009820	Soft start module	Airmax ² 6-15 GT
5	M-006896	Three-way valve for DHW functionality.	Airmax ² 6-16 GT
6	09-000201	VBI60 three-way changeover valve 1 1/2"	Airmax ² 21-30 GT, Maxima 20-42 GT
7	09-000200	Siemens actuator for VBI60 valve	Airmax ² 21-30 GT, Maxima 20-42 GT
8	09-000102	Plate heat exchanger (glycol-water) for the existing water installation (SWEP 40)	Airmax ² 6-9 GT
9	09-000103	Plate heat exchanger (glycol-water) for the existing water installation (SWEP 60)	Airmax ² 12-16 GT
10	09-000104	Plate heat exchanger (glycol-water) for the existing water installation (SWEP 70)	Airmax ² 21 GT
11	09-000105	Plate heat exchanger (glycol-water) for the existing water installation (SWEP 100)	Airmax ² 26-30 GT
12	09-000112	EPP insulation for SWEP 40 plate heat exchanger	SWEP 40
13	09-000113	EPP insulation for SWEP 60 and SWEP 70 plate heat exchangers	SWEP 60, SWEP 70
14	09-000115	EPP insulation for SWEP 100 plate heat exchanger	SWEP 100
15	09-000001	ALPHA1 L 25-40 180 circulation pump (when connected to the tank's spiral coil)	Small
16	09-000002	ALPHA1 N L 25-40 180 circulation pump (when connected directly to the DHW)	Small

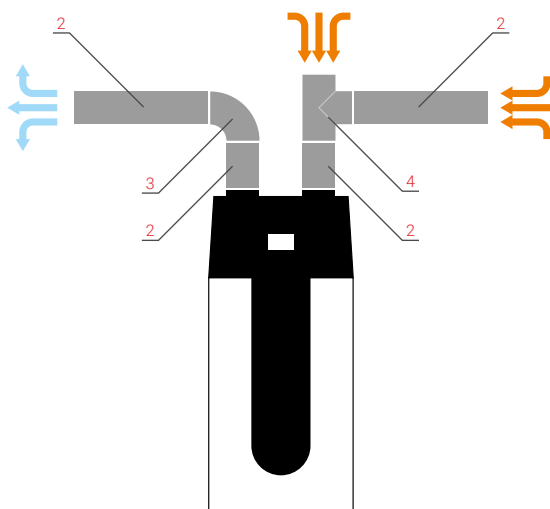
¹ In case of Basic 200 and Spectra heat pumps it is necessary to replace 2 magnesium anodes.

² In case of Basic 270 and Basic 300 heat pumps it is necessary to replace 1 magnesium anode.

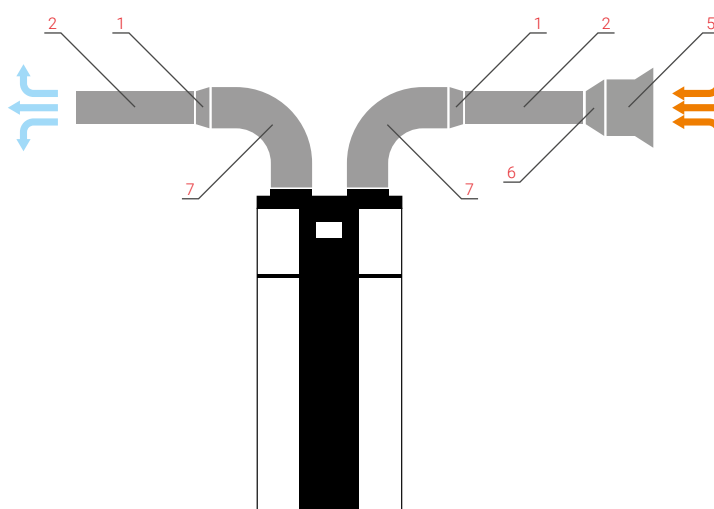
VENTILATION ELEMENTS FOR GALMET'S HEAT PUMPS

List of ventilation elements for the Basic, Spectra and Small heat pumps

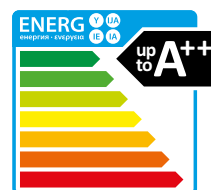
no.	cat. no.	item	intended use
1	M-009656	Duct reducer ø200/160 muff/nipple	Spectra, Small
2	M-009657	Spiral pipe ø160/160 muff/muff (sold in pieces of 1,5 meters in length)	Basic, Spectra, Small
3	M-009658	Pressed bend ø160/160 nipple/nipple	Basic, Spectra, Small
4	M-009659	90 degree tee piece ø160/160 nipple/nipple with throttle	Basic, Spectra, Small
5	M-009660	Air intake vent ø250 nipple	Basic, Spectra, Small
6	M-009661	Duct reducer ø250/160 muff (for the air intake vent)/nipple	Basic, Spectra, Small
7	M-009663	Fabricated bend ø200/200 muff/nipple	Spectra, Small
8	M-009664	Duct clamp ø160	Basic, Spectra, Small
9	M-009665	Joining collar ø160/160 nipple/nipple	Basic, Spectra, Small



Exemplary configuration of air ducts
for the Basic heat pump



Exemplary configuration of air ducts
for the Spectra heat pump



HEAT PUMP TO THE POWER OF 2

»» Airmax²

The most efficient air-to-water heat pump for central heating and domestic hot water. It offers extremely high COP efficiency: up to 4,72 with A++ energy efficiency, which guarantees low heating costs. The ease and convenience of operation is ensured by an advanced controller with a coloured touch screen and an internet module that allows for a remote control.



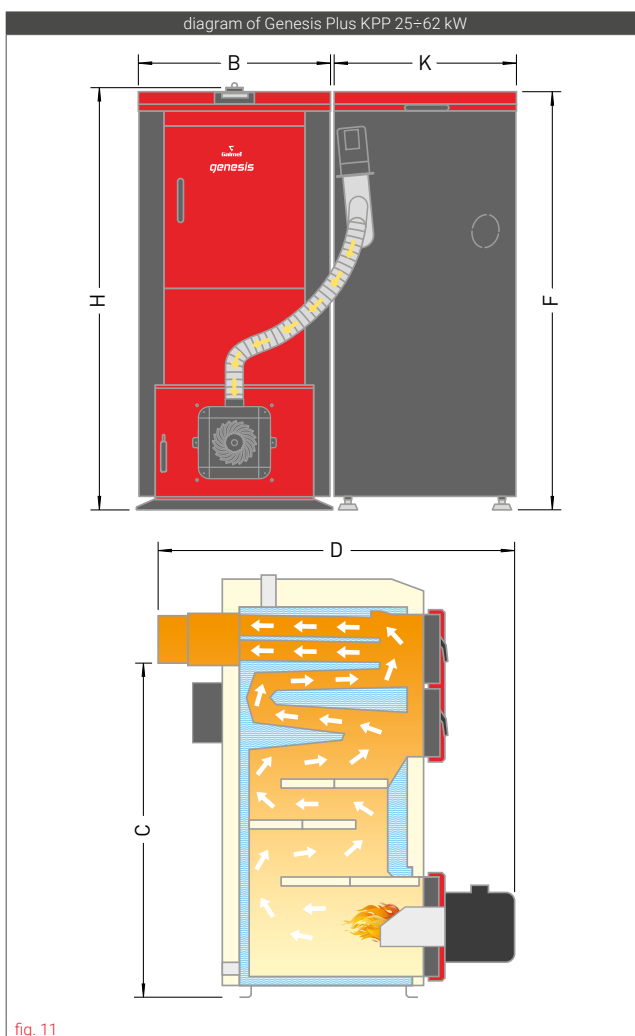
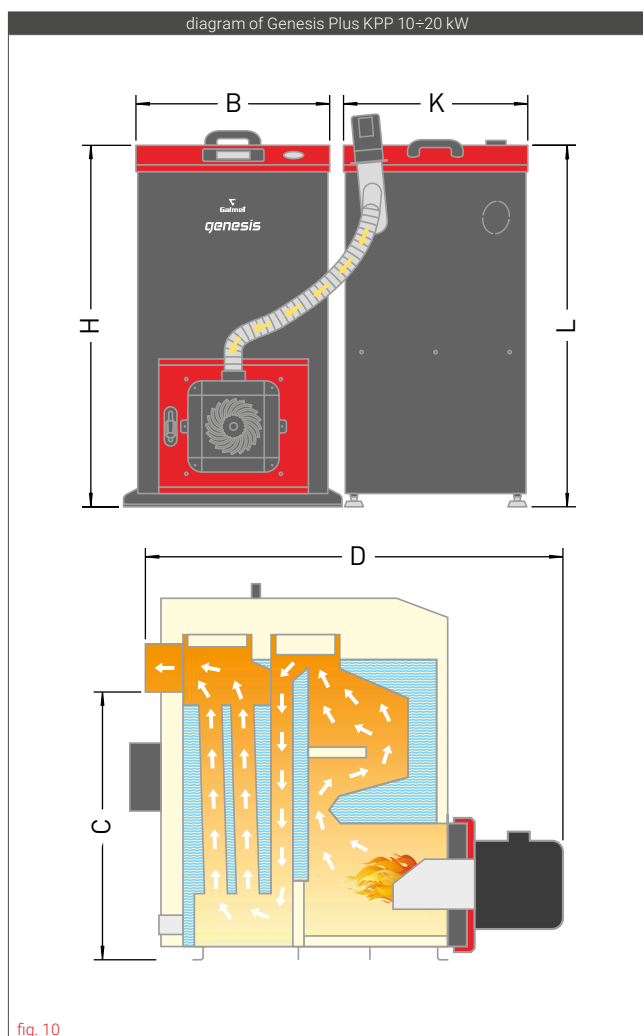
CH BOILERS

– Genesis Plus KPP: pellet boiler (class 5)	68
– Gladius KWP: eco-pea coal boilers (class 5)	70
– Accessories and spare parts for pellet boiler	72
– Accessories and spare parts for eco-pea coal boilers	73

PELLET CH BOILERS - TYPE GENESIS KPP

Technical specification of the Genesis Plus KPP 10÷62 kW CH boilers

specification	unit	Genesis Plus KPP					
nominal power	kW	10	15	20	25	34	62
ErP energy efficiency class	-	A+	A+	A+	A+	A+	A+
power range	kW	3,45÷10,88	4,35÷14,40	5,63÷19,43	6,99÷23,81	9,44÷31,69	20,00÷60,00
fuel tank capacity	dm ³	180	180	180	350	350	800
boiler water capacity	dm ³	46	68	90	127	134	215
boiler heating surface	m ²	1,66	2,08	2,63	3,12	3,90	7,00
fuel	-	6-8 mm wood pellets					
surface of the heated rooms ¹	m ²	up to 100	up to 150	up to 200	up to 250	up to 340	up to 620
weight (boiler + burner + feeder + fuel tank)	kg	292	332	369	428	479	795
minimum chimney height	m	6	6	6	6	6	6
minimum chimney cross-section	mm	Ø 160	Ø 160	Ø 160	Ø 160	Ø 180	Ø 250
required chimney draft	mbar	0,16	0,20	0,24	0,24	0,26	0,41
smoke conduit external dimension	mm	Ø 133	Ø 159	Ø 159	Ø 159	Ø 179	Ø 250
operating temperature range	°C	55÷85	55÷85	55÷85	55÷85	55÷85	55÷85
thermal efficiency	%	96,56	96,75	97,01	97,1	97,2	92,2
connections	"	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	2
allowable operating pressure	bar	2	2	2	2	2	2
boiler width (A)	mm	523	595	667	546	626	731
smoke conduit height from the floor (B)	mm	723	710	710	1133	1123	1191
boiler depth with smoke conduit (C)	mm	1120	1120	1120	1220	1290	1515
boiler height (D)	mm	970	970	970	1440	1440	1620
fuel tank width (E)	mm	528	528	528	528	528	1010
fuel tank height (F)	mm	970	970	970	1426	1426	1617



¹ Depending on the level of building insulation and without the need for DHW.



BAFA
Bundesamt
für Wirtschaft
und Ausfuhrkontrolle



Genesis Plus KPP 10÷62 kW

cat. no.	power	model
07-105500	10 kW	Genesis Plus KPP
07-155500	15 kW	
07-205500	20 kW	
07-255500	25 kW	
07-345500	34 kW	
07-625300	62 kW	

The boilers are equipped with **self-cleaning hybrid burner (Genesis Plus 10-34 kW), or rotary burner (Genesis Plus 62 kW)** and PELLASX S.Control controller.

Additional equipment for the Genesis Plus KPP:

- ▶ Ability to purchase Genesis Plus KPP with touch controller - the second to last digit of the cat. no. 2 - f.ex. 07-105020.
- ▶ Ability to purchase the Genesis Plus KPP 10÷20 with 350 dm³ fuel tank - sixth number of the cat. no. greater by 1 - f.ex. 07-105600.

Advantages of the Genesis Plus KPP:

- ▶ 5-class emissions rank (in accordance with the EN 303-5:2012 standard) and ECODESIGN standard.
- ▶ Ability to obtain grants in Germany - included on the BAFA list.
- ▶ Extremely high thermal efficiency - up to 97%.
- ▶ Automatic fuel ignition - igniter as a standard.
- ▶ Intuitive controller with power modulation.
- ▶ Burner with automatic cleaning function:
 - hybrid (Genesis Plus 10-34 kW),
 - rotary (Genesis Plus 62 kW).
- ▶ 5 mm boiler steel body guarantees boiler's high durability and long lifespan of the CH boiler.
- ▶ Large fuel tank ensures continuous operation of the boiler for many days.
- ▶ Direct control of the mixing valve actuator.
- ▶ Weather sensor and STB protection as standard.

Additional functions for the controller (option):

- ▶ Expansion module B (cat. no.: M-009955).
- ▶ Expansion module C (cat. no.: M-010124).
- ▶ Internet module (cat. no.: M-009693).
- ▶ Room controller (cat. no.: M-010388).
- ▶ Return temperature sensor (cat. no.: 08-001000).



pic. 47
Genesis Plus KPP 10 kW pellet boiler
with PELLASX hybrid burner



pic. 48
Hybrid burner (Genesis Plus 10-34 kW)
with automatic cleaning function



pic. 49
Rotary burner (Genesis Plus 62 kW)
with automatic cleaning function



pic. 50
PELLASX S.Control
controller



pic. 51
PELLASX S.Control Touch
controller (option)

* Details in the warranty card.

** The MTP Gold Medal has been awarded to the Genesis Plus KPP 10, 15, and 20 kW pellet boilers.

ECO-PEA COAL BOILERS - TYPE GLADIUS KWP

Technical specification of the Gladius KWP CH boilers


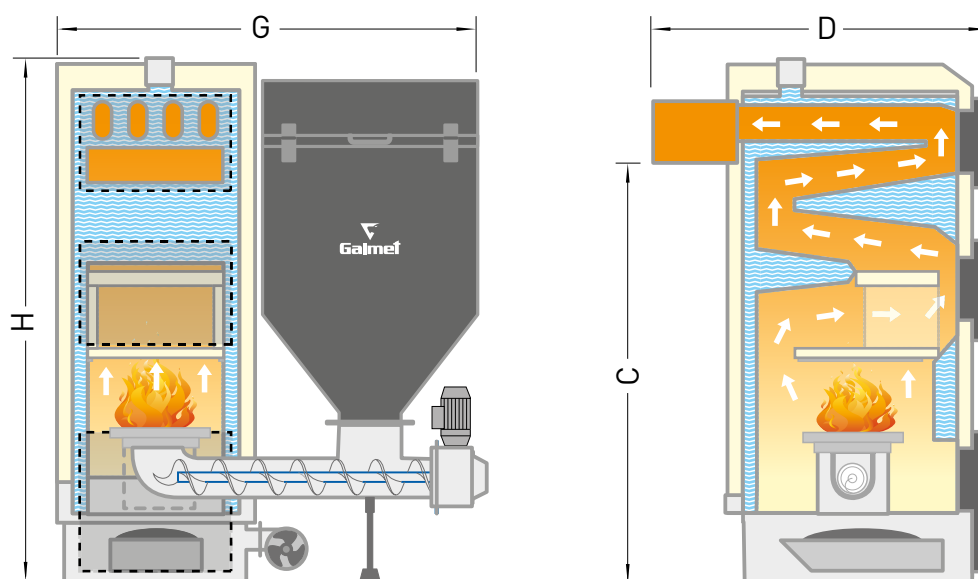
specification	unit	Gladius KWP 12	Gladius KWP 17	Gladius KWP 25
nominal power	kW	12,0	17,0	25,0
ErP  energy efficiency class	-	B	B	B
power range	kW	3,56 ÷ 11,43	2,50 ÷ 16,20	7,30 ÷ 24,80
boiler heating surface	m ²	1,4	1,7	2,4
fuel	-	pea coal, granulation 8÷25 mm / type a1 (according to the EN 303-5 norm)		
fuel tank capacity	l	150	240	240
actual fuel flow (at maximum power)	kg/h	1,527	2,200	3,333
flammability for rated thermal power (assuming that 1 l = 0,74 kg)	h	73	81	53
thermal efficiency	%	94,20	94,80	94,00
required chimney draft	mbar	0,20	0,20	0,20
minimum chimney height	m	6	6	6
minimum chimney cross-section	mm	Ø 160	Ø 160	Ø 160
flow mass of the exhaust fumes for rated output / minimal output	kg/s	0,0068 / 0,0028	0,0068 / 0,0015	0,0112 / 0,0041
flow resistance	mbar	90	90	90
range of working temperatures	°C	55÷85	55÷85	55÷85
maximum temperature on supply	°C	85	85	85
minimum temperature of return	°C	55	55	55
allowable operating pressure	bar	1,5	1,5	1,5
boiler water capacity	l	42	63	71
weight (boiler + feeder + fuel tank)	kg	275	355	390
smoke conduit external diameter	mm	Ø 160	Ø 160	Ø 160
supply/return connection diameter	"	5/4	6/4	6/4
discharge connection diameter	"	½	½	½
boiler width with fuel tank (A)	mm	1030	1170	1190
smoke conduit height from the floor (B)	mm	955	1145	1260
boiler depth with smoke conduit (C)	mm	830	855	910
boiler height (D)	mm	1285	1475	1560

diagram of the Gladius KWP 12÷25 kW



rys. 12

Gladius is an ecological, automatic CH boiler fuelled by eco-pea coal. It sets new quality standards by combining high efficiency and comfort with care for the environment. Gladius meets the requirements of **ECODESIGN** and has a **class 5 emissions rank**.



Gladius KWP 15÷22 kW

cat. no.	power	model
07-121410	12 kW	Gladius KWP
07-171410	17 kW	
07-251410	25 kW	

The boilers are equipped with a straight feeder with fixed (12 kW) or rotary retort (17, 25 kW) and **TECH** ST-480N zPID controller.

Additional equipment for the Gladius KWP:

- ▶ CH boiler with a fuel tank on the left side
- last digit of the cat. number 1 - f.ex. 07-121411.

Advantages of the Gladius KWP:

- ▶ 5-class emissions rank (in accordance with the EN 303-5:2012 standard) and ECODESIGN standard.
- ▶ Extremely high thermal efficiency - up to 94,80%.
- ▶ 5 mm boiler steel body guarantees boiler's high durability and long lifespan of the CH boiler.
- ▶ Large fuel tank ensures continuous operation of the boiler for many days.
- ▶ Intuitive controller with power modulation.
- ▶ Direct control of the mixing valve actuator.
- ▶ Weather sensor and STB protection as standard.
- ▶ Fuel tank flap opening sensor.

Additional functions for the controller (option):

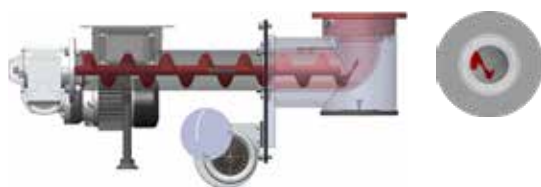
- ▶ Internet module (cat. no.: M-007853).
- ▶ GSM module - control over SMS (cat. no.: M-011020).
- ▶ Room controller with color, touch display (cat. no.: M-008093).
- ▶ Multi-way valve module (cat. no.: M-004767).



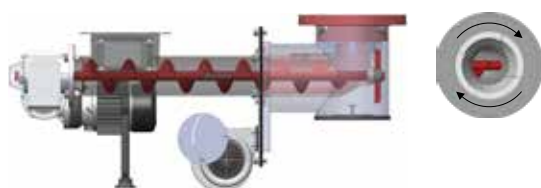
pic. 55
Gladius KWP 22 kW CH boiler
with straight feeder, fixed retort
and TECH controller



pic. 52
TECH ST-480N zPID controller



pic. 53
Straight feeder with fixed retort



pic. 54
Straight feeder with rotary retort

* Details in the warranty card.

ACCESSORIES AND SPARE PARTS FOR GENESIS PLUS KPP PELLET BOILER

no.	cat. no.	item
123	M-011044	Flame sensor
124	M-010422	Weather sensor
125	M-011045	Boiler / DHW / valve temperature sensor (5 meters)
126	M-010968	Burner temperature sensor
127	08-001000	Return temperature sensor
128	M-010521	Exhaust temperature sensor
129	M-009693	Internet module
130	M-009955	Expansion module B
131	M-010124	Expansion module C
132	M-010561	Dry water tube for Genesis Plus 10 kW
133	M-010566	Dry water tube for Genesis Plus 15 kW
134	M-010571	Dry water tube for Genesis Plus 20 kW
135	M-010983	Hearth for hybrid burner
136	M-010388	Room controller with color, touch display
137	40-250221	Ashpan for Genesis 12, 16 kW
138	40-250222	Ashpan for Genesis 24 kW
139	40-250226	Ashpan for Genesis Plus 25 kW
140	40-250227	Ashpan for Genesis Plus 34 kW
141	40-250223	Ashpan for Genesis Plus 10 kW
142	40-250224	Ashpan for Genesis Plus 15 kW
143	40-250225	Ashpan for Genesis Plus 20 kW
144	M-010244	Polyurethane pipe Ø 60 - 1 meter
145	M-007037	Glass sealant 15 mm - 1 meter
146	M-006366	Thermomanometer
147	M-010857	STB thermal protection
148	M-010335	Igniter I
149	M-010924	Igniter II (threaded)



PELLASX S.Control controller

- ▶ Easy-to-use controller with a Touch and Play knob.
- ▶ Intuitive graphic menu and easy configuration.
- ▶ Automatically air and fuel adjustment.
- ▶ Can work in accordance with the heating curve - external sensor included.
- ▶ Control of both CH and DHW, as well as mixing valve circuits.
- ▶ Supports many types of pumps, valves, thermostats and sensors.
- ▶ Can work with room controller.



PELLASX S.Control Touch controller

- ▶ Large, color touch display with preview of system operation parameters.
- ▶ Intuitive graphic menu and easy configuration.
- ▶ Automatically air and fuel adjustment.
- ▶ Can work in accordance with the heating curve - external sensor included.
- ▶ Control of both CH and DHW, as well as mixing valve circuits.
- ▶ Supports many types of pumps, valves, thermostats and sensors.
- ▶ Can work with room controller.



Expansion modules - additional functions for the controller

Expansion module B

- ▶ Support for two additional heating circuits.
- ▶ Support for a buffer tank – top and bottom temperature.
- ▶ Support for the additional fuel feeder.
- ▶ Ability to connect two more room controllers.
- ▶ Configurable output for operating a reserve CH boiler or alarms.

Expansion module C

- ▶ Support for two additional heating circuits with mixing valves.
- ▶ Ability to control the DHW circulating pump.
- ▶ Ability to connect two more room controllers.
- ▶ Configurable output for operating a reserve CH boiler or alarms.

ACCESSORIES AND SPARE PARTS FOR GLADIUS KWP ECO-PEA COAL BOILERS

no.	cat. no.	item
1	M-008488	Overload protection for Gladius 12 kW
2	M-008489	Overload protection for Gladius 17, 25 kW
3	M-008399	DHW / valve / return / feeder temperature sensor for ST-480N controller (5 meters)
4	M-006902	Exhaust temperature sensor
5	M-002621	Deflector for Gladius 12, 17, 25 kW
6	M-007860	Feeder bend for Gladius 17, 25 kW (rotary retort)
7	M-008285	Feeder bend for Gladius 12 (fixed retort)
8	M-011020	GSM module
9	M-007853	ST internet module
10	M-004767	ST valve module
11	M-005128	Gear-motor
12	M-007854	RS room controller (color, touch display, wired)
13	M-008093	RS room controller (color, touch display, wireless)
14	40-250216	Ashpan for Gladius 12 kW (250 x 442 x 60 mm)
15	40-250210	Ashpan for Gladius 17 kW (285 x 472 x 60 mm)
16	40-250203	Ashpan for Gladius 25 kW (305 x 520 x 100 mm)
17	M-009408	Regulator ST-480N
18	M-008410	Feeder tube for Gladius 12 kW
19	M-006936	Feeder tube for Gladius 17,25 kW
20	M-006325	Screw conveyer for Gladius 12 kW (fixed retort)
21	M-004644	Screw conveyer for Gladius 17, 25 kW (fixed retort)
22	M-005229	Screw conveyer for Gladius 17,25 (rotary retort)
23	M-007037	Glass sealant 15 mm - 1 meter
24	M-008481	Fire box pan for Gladius 17 (rotary retort)
25	M-006707	Fire box pan for Gladius 25 (rotary retort)
26	M-001222	Fire box pan for Gladius 25 kW
27	M-006706	Fire box pan for Gladius 12 kW
28	M-008422	Fire box pan for Gladius 17 kW
29	M-006366	Thermomanometer
30	M-007898	Fan for Gladius 12, 17, 25 kW
31	M-001904	Fire box ring for Gladius 17 (rotary retort)
32	M-006708	Fire box ring for Gladius 25 (rotary retort)
33	M-007389	Fire box ring for Gladius 17, 25 kW
34	M-008423	Fire box ring for Gladius 12 kW
35	M-006117	Collector for Gladius 17, 25 kW



TECH ST-480N controller

- ▶ Control panel with a large display and touch keyboard.
- ▶ Control panel can be used as a room controller (after expansion with a wireless module).
- ▶ Fluid power modulation.
- ▶ Direct control of the mixing valve.
- ▶ Direct control over the various pumps (CH; DHW; valve/floor; circulation)
- ▶ CH boiler operation based on the based on weather automation (included), including the weekly program.



RS room controller

- ▶ Room temperature control.
- ▶ Operation based on the weekly program.
- ▶ Display of the CH boiler, installation, DHW temperature and outside temperature.
- ▶ Wireless communication with the CH boiler.
- ▶ Ability to control the circulation pump and mixing valve's actuator.



ST valve module

- ▶ Independent control of a separate heating circuit by means of a mixing valve with an actuator.
- ▶ Ability to automatically change the temperature based on reading from the room controller, outdoor sensor or weekly program.
- ▶ Ability to control valve's pump, three or four-way mixing valve's actuator, temperature sensor of a separate heating circuit, return temperature sensor.



ST internet module

- ▶ Remote control of the heating installation via the internet.
- ▶ Remote changing of the temperature preset for CH boiler, heating circuits and DHW.
- ▶ Preview of current CH boiler operation and sensor readings.
- ▶ Access to the full history of recorded temperature measurements.



HYBRID HEATING SYSTEMS

– Advantages of the hybrid heating systems	76
– Exemplary schemes of Galmet's hybrid heating systems	77
– Complete list of Galmet's hybrid heating systems	83

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.



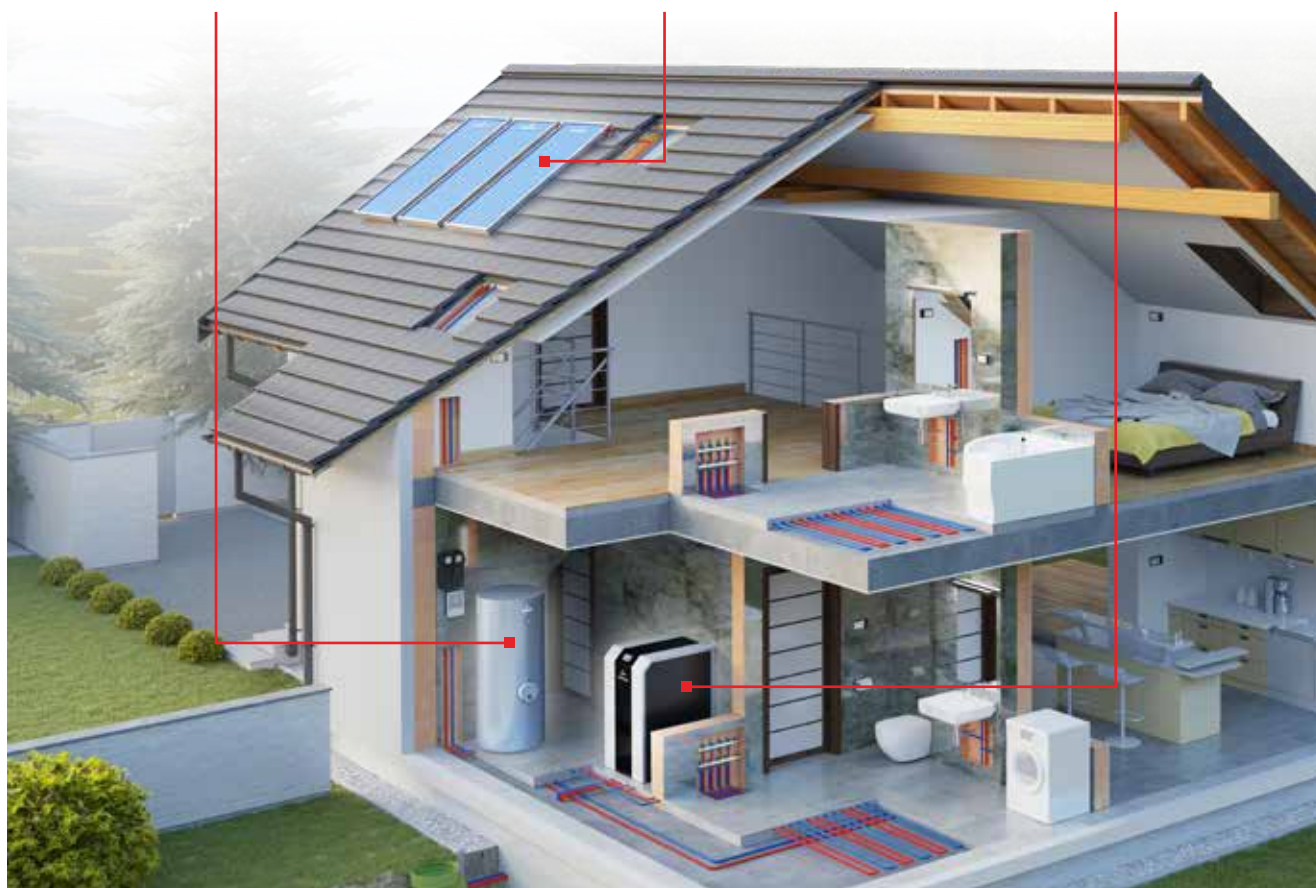
▶ By purchasing all of the devices for your house's heating system from a **single manufacturer**, you can be sure that your investment will be optimally configured and tailored directly for your individual needs.

Exemplary hybrid heating system by Galmef:


water heater


solar collectors


heat pump



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

Hybrid system

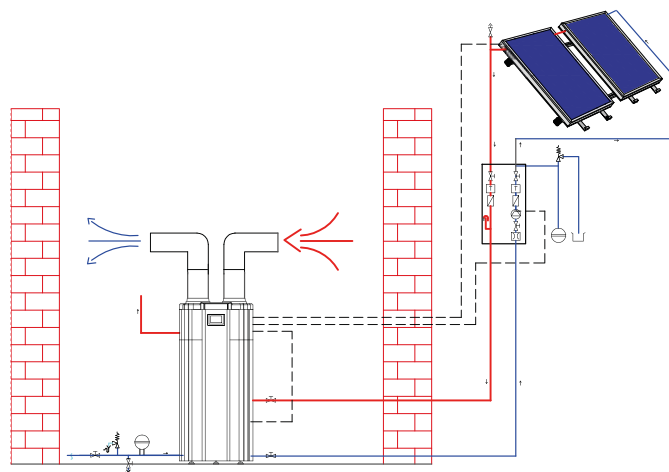
α - alfa

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

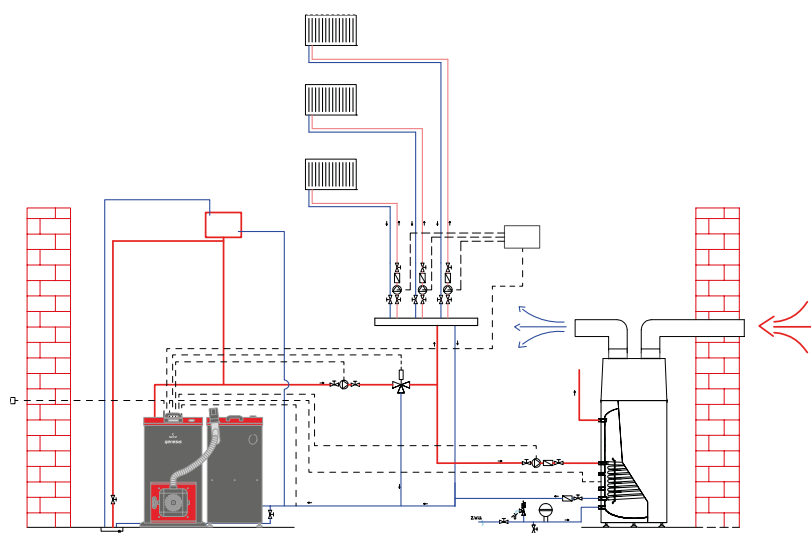
β - beta

Design assumptions:

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

The system includes:

- ▶ Spectra 200 heat pump
- ▶ Genesis Plus KPP 15 kW pellet 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.

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

Hybrid system

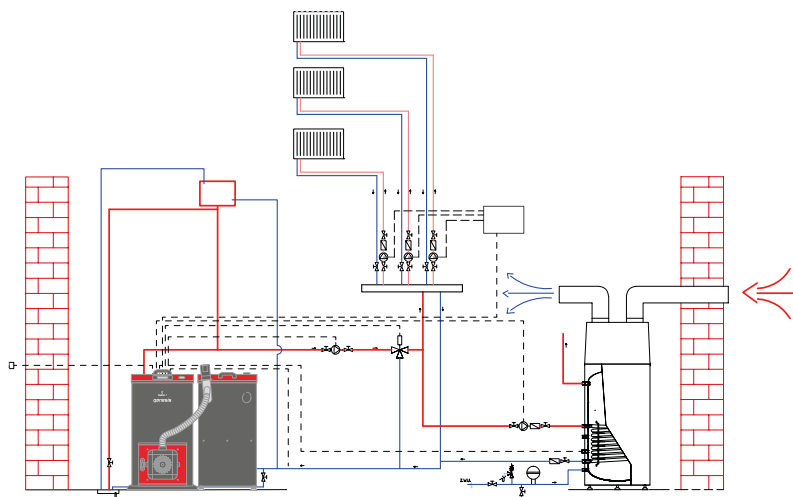
γ - gamma

Design assumptions:

- ▶ Heating surface area up to 200 m²
- ▶ Number of people: 3-5

The system includes:

- ▶ Basic 200 heat pump
- ▶ Genesis Plus KPP 20 kW pellet boiler



Hybrid system

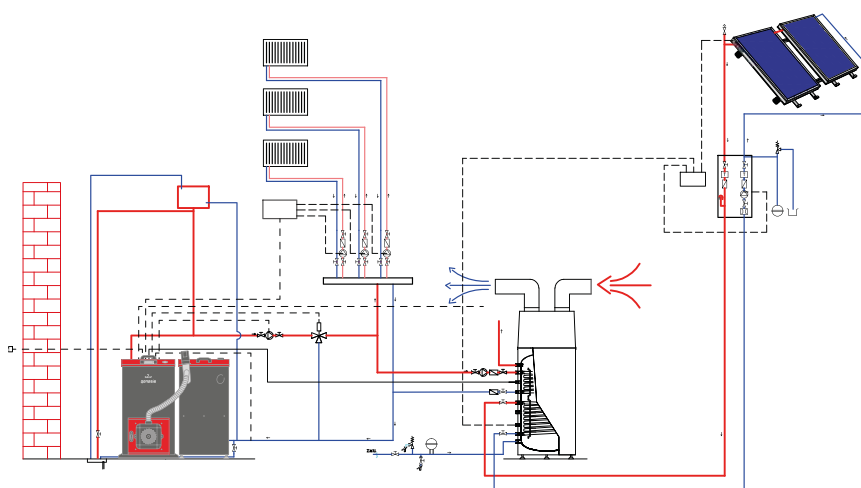
Δ - delta

Design assumptions:

- ▶ Heating surface area up to 250 m²
- ▶ Number of people: 3-5

The system includes:

- ▶ Basic 270 heat pump
- ▶ Genesis Plus KPP 25 kW pellet boiler
- ▶ 2 flat solar collectors KSG27 GT with equipment



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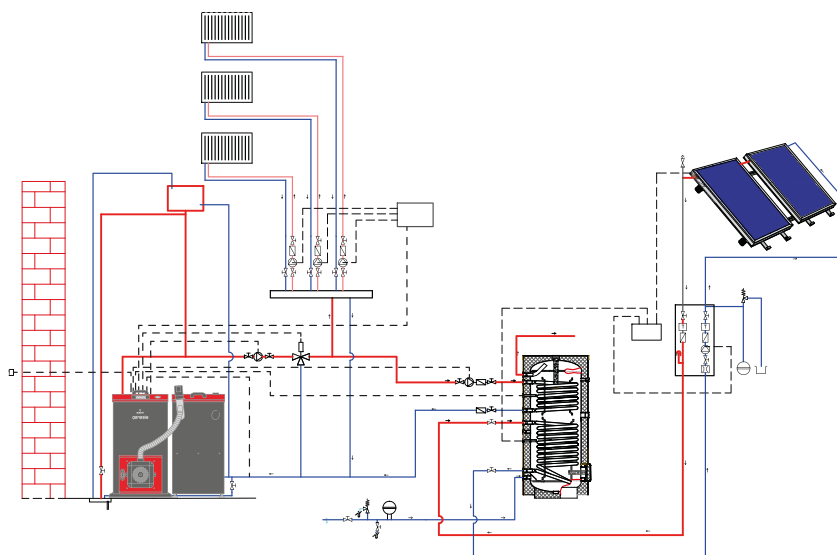
Hybrid system ε - epsilon

Design assumptions:

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

The system includes:

- ▶ 3 flat solar collectors KSG21 GT with equipment
- ▶ SGW(S)B Tower Biwal 300 water heater
- ▶ Genesis Plus KPP 15 kW pellet boiler



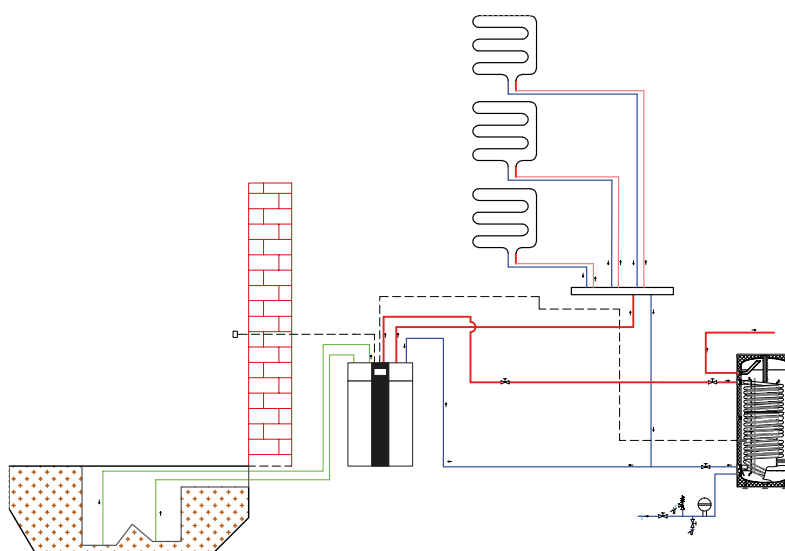
Hybrid system ζ - zeta

Design assumptions:

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

The system includes:

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



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EXEMPLARY SCHEMES OF GALMET'S HYBRID HEATING SYSTEM

Hybrid system

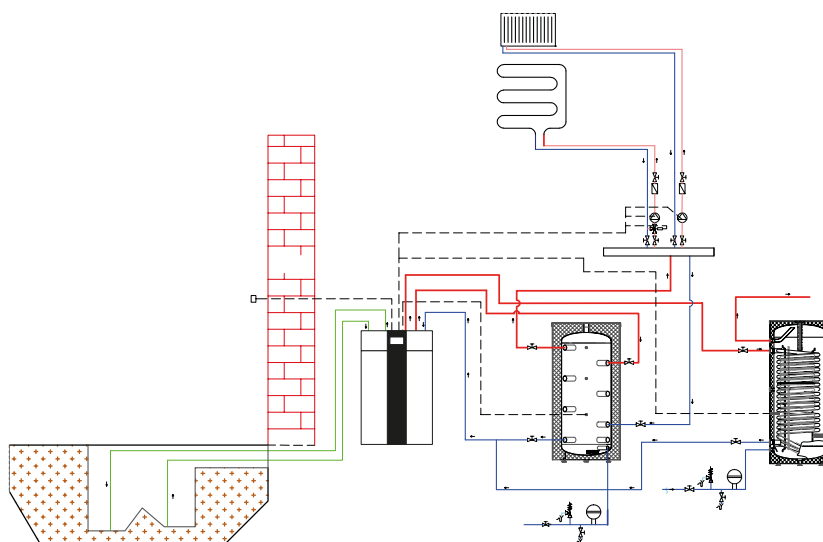
η - eta

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

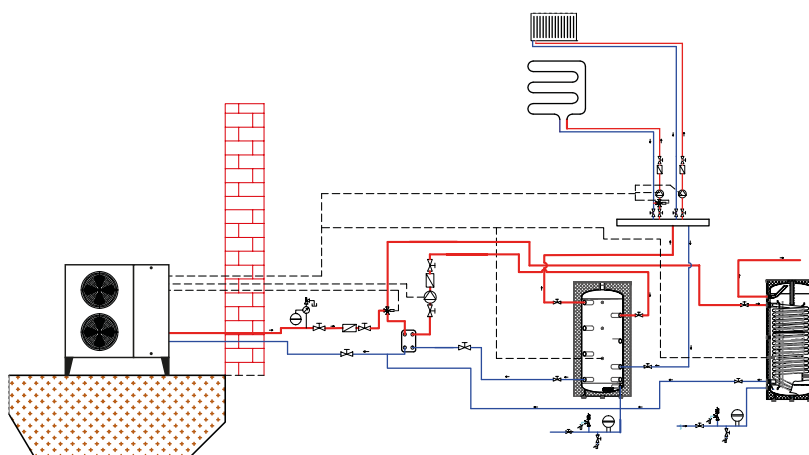
l - jota

Design assumptions:

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

The system includes:

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



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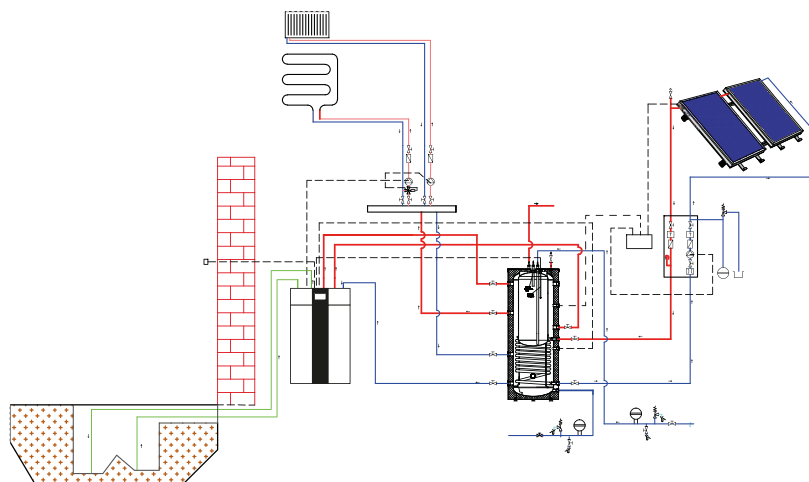
Hybrid system o - omicron

Design assumptions:

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

The system includes:

- ▶ Maxima 7GT heat pump
- ▶ 3 flat solar collectors KSG 27 Premium GT with equipment
- ▶ SG(K) 380/120 l combined heat accumulation vessel with 1 spiral coil



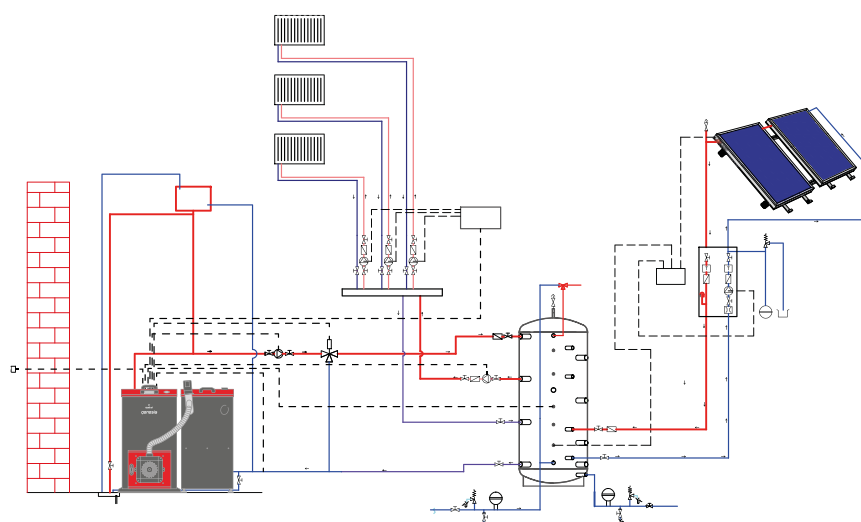
Hybrid system Y - ypsilon

Design assumptions:

- ▶ Heating surface area up to 250 m²
- ▶ Number of people: 4-6

The system includes:

- ▶ 7 flat solar collectors KSG 21 Premium GT with equipment
- ▶ Genesis Plus KPP 25 kW pellet boiler
- ▶ Multi-Inox 1000 hygienic stratification 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.

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

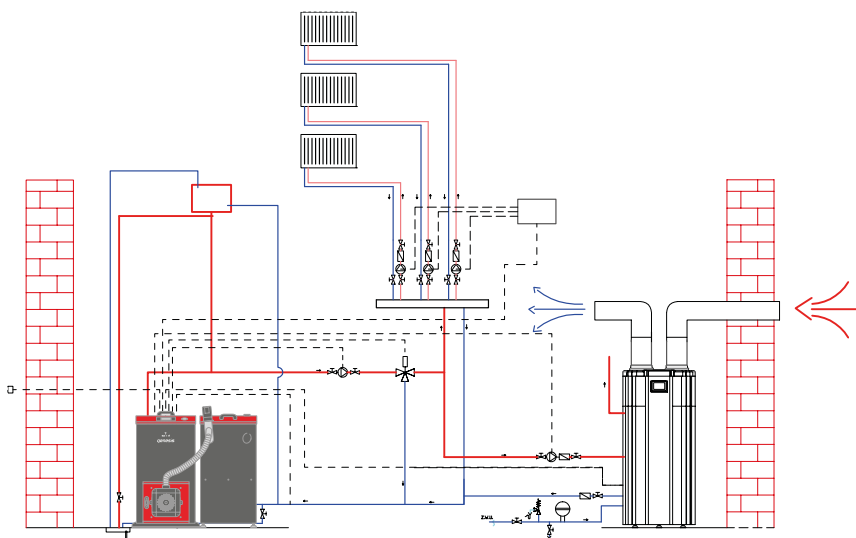
Hybrid system **Mini**

Design assumptions:

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

The system includes:

- ▶ Spectra 200 heat pump
- ▶ Genesis Plus KPP 15 kW pellet boiler



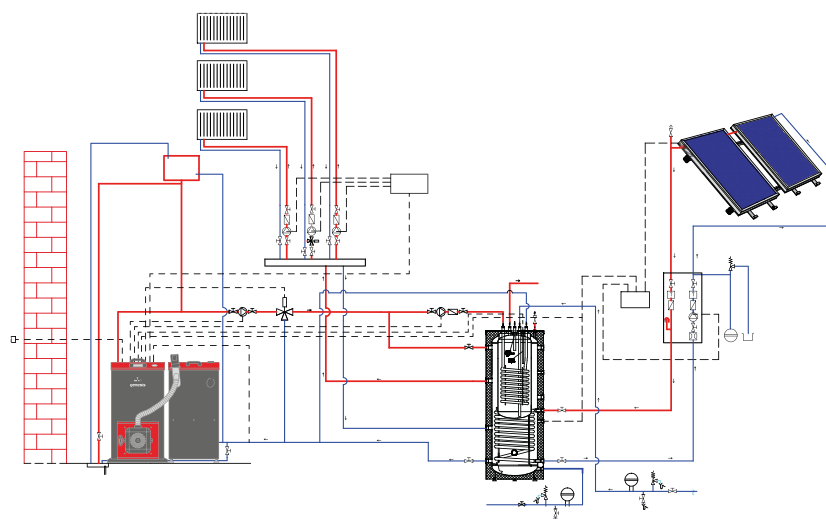
Hybrid system **Midi**

Design assumptions:

- ▶ Heating surface area up to 200 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
- ▶ Genesis Plus KPP 20 kW pellet 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.

LIST OF GALMET'S HYBRID HEATING SYSTEMS

system's name	catalogue number	system includes
Energy Flow GT	SG-000013	- Spectra 200 I 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 I 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 I heat pump (cat. no. 09-363100) - Genesis Plus KPP 15 kW pellet boiler (cat. no. 07-155500)
γ - gamma	SG-000019	- Basic 200 I heat pump (cat. no. 09-353102) - Genesis Plus KPP 15 kW pellet boiler (cat. no. 07-155500)
Δ - delta	SG-000020	- Basic 270 I heat pump with 2 spiral coils (cat. no. 09-355201) - Genesis Plus KPP 25 kW pellet boiler (cat. no. 07-255500) - 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) - Genesis Plus KPP 15 kW pellet boiler (cat. no. 07-155500)
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 I 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 I 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 I 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. 09-000101) - SGW(S) Maxi 250 water heater (cat. no. 26-258100) - SG(B) 200 I 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 I 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 I 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 I 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 - Genesis Plus KPP 25 kW pellet boiler (cat. no. 07-255500) - 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 - Genesis Plus KPP 25 kW pellet boiler (cat. no. 07-255500) - Multi-Inox 1000 hygienic stratification buffer tank (cat. no. 71-101600)
Mini	SG-000010	- Spectra 200 I heat pump (cat. no. 09-363100) - Genesis Plus KPP 15 kW pellet boiler (cat. no. 07-155500)
Midi	SG-000011	- 2 flat solar collectors KSG 27 Premium GT (cat. no. 08-102702) with equipment - SG(K) 380/120 I combined heat accumulation vessel with 2 spiral coils (cat. no. 72-404000) - Genesis Plus KPP 20 kW pellet boiler (cat. no. 07-205500)
Maxi	SG-000012	- Airmax ² 15GT heat pump (cat. no. 09-261500) - Genesis Plus KPP 15 kW pellet boiler (cat. no. 07-155500) - 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 I buffer tank with 1 spiral coil (cat. no. 71-400000)

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.



„Galmet Sp. z o.o.” Sp. K.
48-100 Głubczyce, Raciborska 36
tel.: +48 77 403 45 00
fax: +48 77 403 45 99

export dept.: +48 77 403 45 80
export@galmet.com.pl

www.galmet.eu

 Made in Poland

Distributor