OPERATING AND ASSEMBLY INSTRUCTIONS

Models:

TG-BT-50	**TG-S-CWU-100-1.8**	**TG-S-CWU-150-0.6-1.6**
TG-BT-100	**TG-S-CWU-150-2.2**	**TG-S-CWU-200-1.8-2.4**
TG-BT-200	**TG-S-CWU-200-2.8**	**TG-S-CWU-250-1.8-2.6**
TG-BT-300	**TG-S-CWU-250-3**	**TG-S-CWU-300-1.8-3.1**
TG-BT-500	**TG-S-CWU-300-4**	**TG-S-CWU-350-1.8-3.1**
	TG-S-CWU-350-4	**TG-S-CWU-400-1.8-3.1**
	TG-S-CWU-400-4	**TG-S-CWU-500-1.8-3.1**
	TG-S-CWU-500-4	

ORIGINAL INSTRUCTIONS
Version: 1/2023-002 (issued on 19 November 2025)

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GENERAL INFORMATION

Before using the device, please read this user manual carefully and follow its instructions. This user manual is part of the basic equipment of the device and should be kept for future reference. The drawings and photographs contained in this manual are for illustrative purposes only.

The following manual applies to all types of stainless steel tanks, and all type names: DHW tank, DHW storage tank, CO buffer and vertical DHW exchanger can be used interchangeably and should be treated as equivalent for the purposes of this manual.

1. PRECAUTIONS

1.1 Safety signs used

MARKINGS USED IN THE USER MANUAL

Symbol	Description
	Caution/Warning about the need to strictly follow the information contained in the documentation to ensure the safety and full functionality of the device.
	Information particularly useful for installation and operation of the device.
	Information on how to handle used equipment.

	WARNING: Only a qualified person should install and service the DHW tank. Installation, commissioning and servicing of the DHW tank can be dangerous and requires specialist knowledge and training. Incorrectly installed, prepared or replaced equipment by unqualified persons can cause serious physical injury or even death. When working with the appliance, observe all precautions contained in this manual, on the stickers and labels on the packaging and on the appliance itself.

1.2 Basic requirements and safety of use

	It is recommended that the user read this manual before installing and starting up the tank. This will prevent accidents and keep the tank in good working order. The manufacturer is not liable for damage resulting from improper installation, lack of proper maintenance or use contrary to the intended purpose. The device may only be operated by trained and authorised personnel. The installation should be carried out by qualified personnel with the necessary qualifications to install heating devices. The installer is responsible for carrying out the installation in accordance with these instructions and the regulations and standards relating to the safety of sanitary installations.

2. INTENDED USE OF THE VERTICAL DHW EXCHANGER

The vertical domestic hot water exchanger (DHW tank, DHW storage tank, central heating buffer tank) is designed for heating and storing hot water heated using standard and/or renewable

heat sources. It can work with various heat sources such as heat pumps, solar collectors, solid fuel boilers, gas boilers, etc., and when used with an electric heater, it can be a stand-alone source of DHW heating.

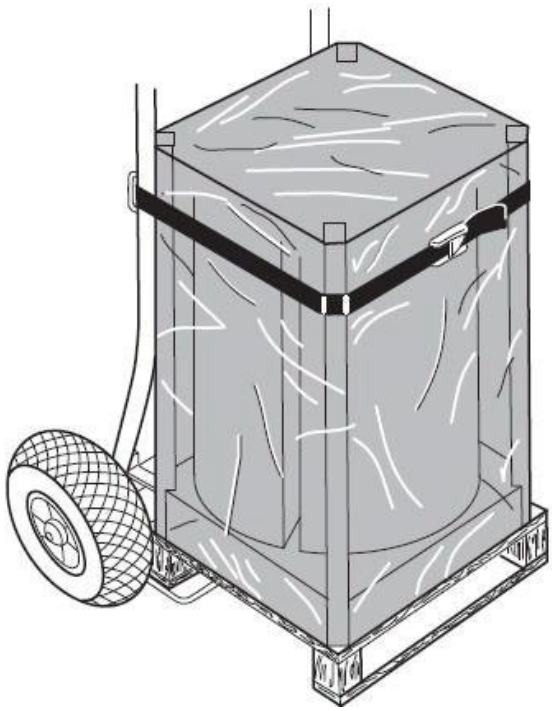
DHW tanks are available with one or two coils and are made of AISI 304/1.4301 stainless steel. The tank is thermally insulated with high-quality polyurethane (PUR) foam. This reduces heat loss to a minimum. The tank coil is made of SUS304 3 stainless steel and can be manufactured in a precision (smooth) pipe version or in a SPIRO version, i.e. a corrugated pipe with a large surface area. The outer casing can be made of sheet metal, plastic or leather-like material (skaja).

An additional element of corrosion protection is a magnesium or titanium anode, used as additional anti-corrosion protection in areas particularly exposed to corrosion, such as welds and joints, caused by poor water quality.

3. CONNECTION AND START-UP OF THE DHW TANK

3.1 Transport of DHW tanks

⚠	**WARNING:** DHW tanks should be transported in an upright position and, if this is not possible, in a slightly inclined position. Even minor impacts and shocks in an inclined or horizontal position can cause damage, i.e. kinking and/or breakage of the coil.



Transport/carriage of DHW tanks should be carried out
using transport equipment of adequate strength and preferably in packaging and foil to avoid damaging the outer surface of the heater (outer cover). Transport inside the building and after unpacking the tank, as well as further transport, e.g. up stairs, may be carried out using transport straps or manually, keeping the tank in an upright position.

3.2 Connection

The installation and initial start-up of the DHW tank should be carried out by a suitably qualified installer. The installer should inform the user about the available functions of the tank and provide the necessary information on safe use.

If the tank is equipped with an electric heater, remember that before connecting it to the electrical system, you must first fill the tank with water.

Filling and venting the DHW tank:

- open the cold water shut-off valve at the water supply inlet from the water mains or deep well and one valve at the highest hot water outlet point;
- Fill the tank until water flows out at the domestic water consumption point.
- then fill the coil with water, paying attention to venting it;
- check all connections again for leaks.

After filling and venting the DHW tank and coil, the device is ready for operation. Before the first heating or after a long break in operation, check that the tank is filled with water and that the shut-off valve on the cold water pipe is not closed. To do this, open any hot water tap (any tap).

	NOTE: the nominal pressure of the DHW tank is: - for water supply systems, min. 0.1 MPa (1 bar) and max. 0.6 MPa (6 bar); - for heating systems, max. 0.6 MPa (6 bar).

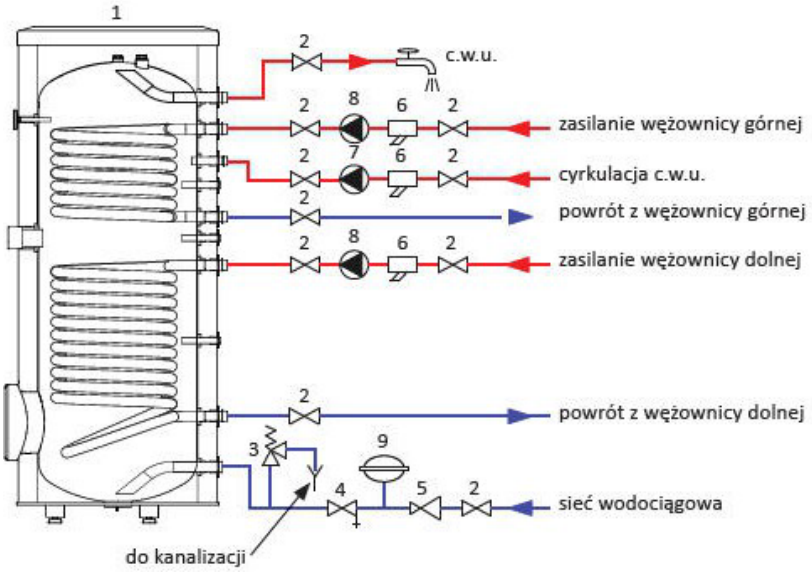
The DHW tank should be connected to a water system with a water pressure of not less than 1 bar and not more than 6 bar. The pressure of the heating system must not exceed 6 bar. In the case of higher pressure, the DHW tank should be equipped with a pressure reducer. Each time the hot water in the tank is heated, the pressure increases, which is why each exchanger must be equipped with a safety valve installed on the cold water supply with a nominal pressure (not exceeding) 6 bar, which will protect the exchanger against excessive pressure increase. Please note that during water heating, there may be a slight, temporary water flow from the safety valve, which is the result of the pressure rising above the rated value and the valve activating. Do not prevent this, as blocking the safety valve may lead to device failure. The safety valve drain should be connected to the sewage system or a drain grate. The safety valve drain pipe should be protected against freezing and remain open to the atmosphere. The manufacturer is not liable for flooding of rooms as a result of the safety valve being activated.

A temperature/pressure valve with parameters of 7 bar/90°C should be installed on the hot water in the upper part of the tank. This is additional protection for the tank against excessive temperature and excessive water pressure. This valve should also be drained to a drain grate. This valve does not function as a safety device on the cold water supply. In this case, it is necessary to install an additional safety valve with a pressure of 6 bar, in accordance with the above instructions.

	NOTE: When filling/starting up, ensure that all connections are completely tight. The end of the hot water safety valve should not be used for any other purpose.

	NOTE: **1.** During water heating, there may be a slight temporary leak from the safety valve. This is normal and must not be prevented, as blocking the safety valve may cause the appliance to malfunction. **2.** Do not use the appliance if the safety valve is blocked. **3.** A safety valve with a maximum rated pressure of 6 bar must be installed on the cold water supply pipe. **4.** All connections to the tank fittings should be made of brass and/or stainless steel. Do not use galvanised, nickel-plated or painted fittings. **5.** Do not use galvanised hydrophores before the cold water enters the tank.
	NOTE: Each tank and each installation must be earthed to prevent electrochemical corrosion.
	INFORMATION: The DHW tank is designed for connection to an electric heater. The heater is not included and must be purchased from a specialist shop. When purchasing, please note that the heater must be suitable for stainless steel tanks. When selecting and installing an electric heater, follow the standards, safety rules and manufacturer's instructions for the heater in question.

4. EXAMPLE INSTALLATION DIAGRAM



DHW exchanger installation diagram:
1. DHW tank.
2. Shut-off valve.
3. Safety valve.
4. Drain valve.
5. Pressure reducer (optional, if the pressure in the system exceeds the permissible value).
6. Mesh filter.
7. Circulation pump DHW
8. Central heating circulation pump
9. Diaphragm vessel DHW

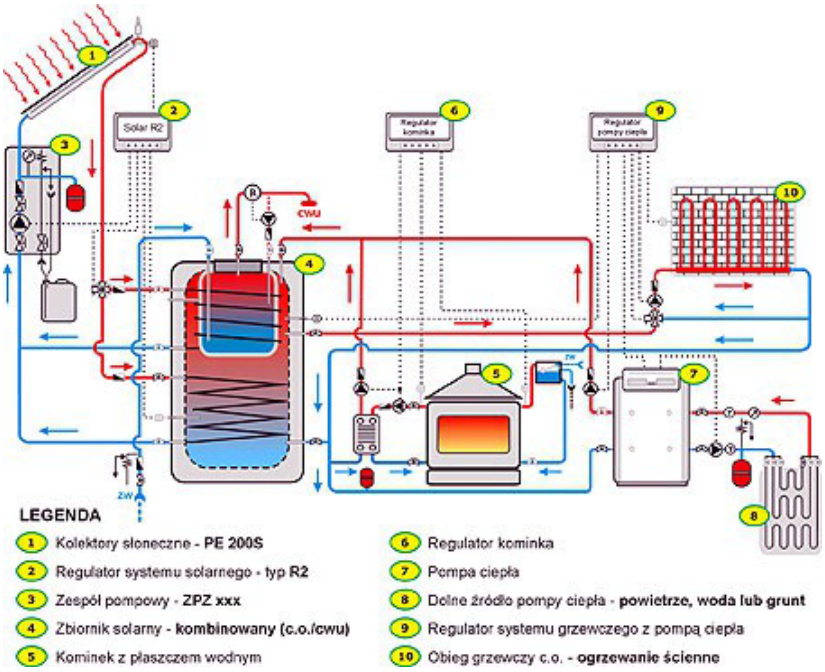


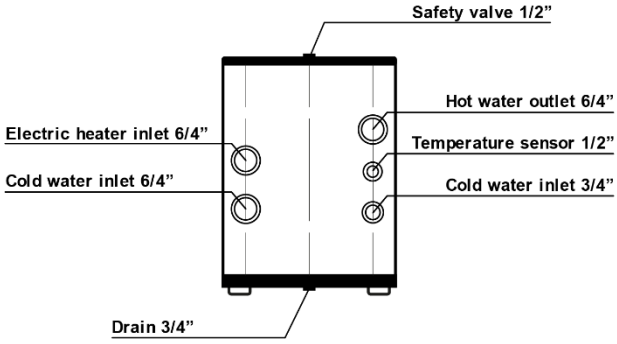
Diagram of DHW and central heating installation with using solar collectors, heat pumps, and a fireplace with a water jacket for central heating and hot water. Heat is distributed from the hot water tank.

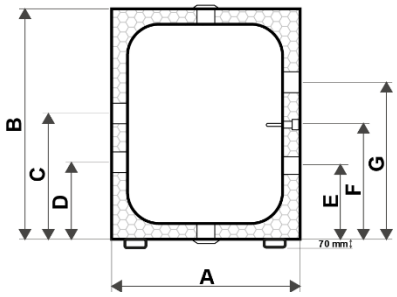
	INFORMATION: The above diagrams are for illustrative purposes only and show the most important rules for connecting central heating and hot water tanks. In reality, a given central heating and hot water tank may vary slightly, and its final connection must be carried out by a qualified installer.

5. TECHNICAL DATA

5.1 Buffer tanks without coil

Diagrams





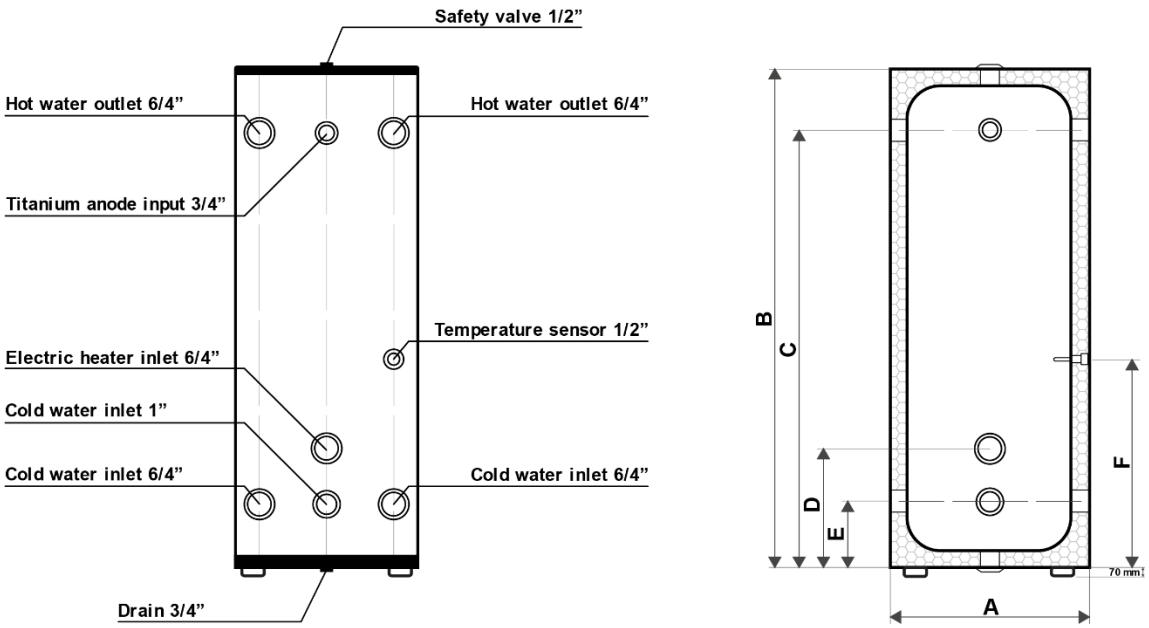
Dimensions

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]
TG-BT-50	490	590	290	170	175	300	415

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating temperature of the tank [°C]
TG-BT-50	14	50	0.6	95

Diagrams



Dimensions

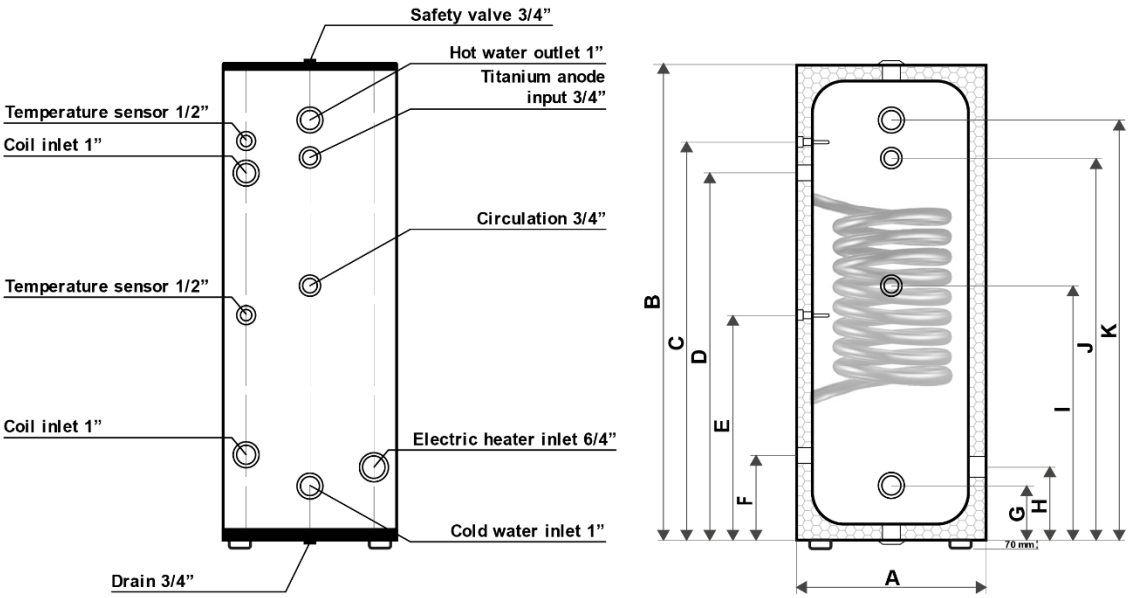
Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
TG-BT-100	480	1000	825	325	175	445
TG-BT-200	550	1400	1220	330	180	580
TG-BT-300	580	1760	1580	330	180	630
TG-BT-500	700	1790	1596	346	196	650

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating temperature of the tank [°C]
TG-BT-100	22.5	100	0.6	95
TG-BT-200	39.6	200	0.6	95
TG-BT-300	60.8	300	0.6	95
TG-BT-500	79.0	500	0.6	95

5.2 DHW tanks with one coil

Diagrams



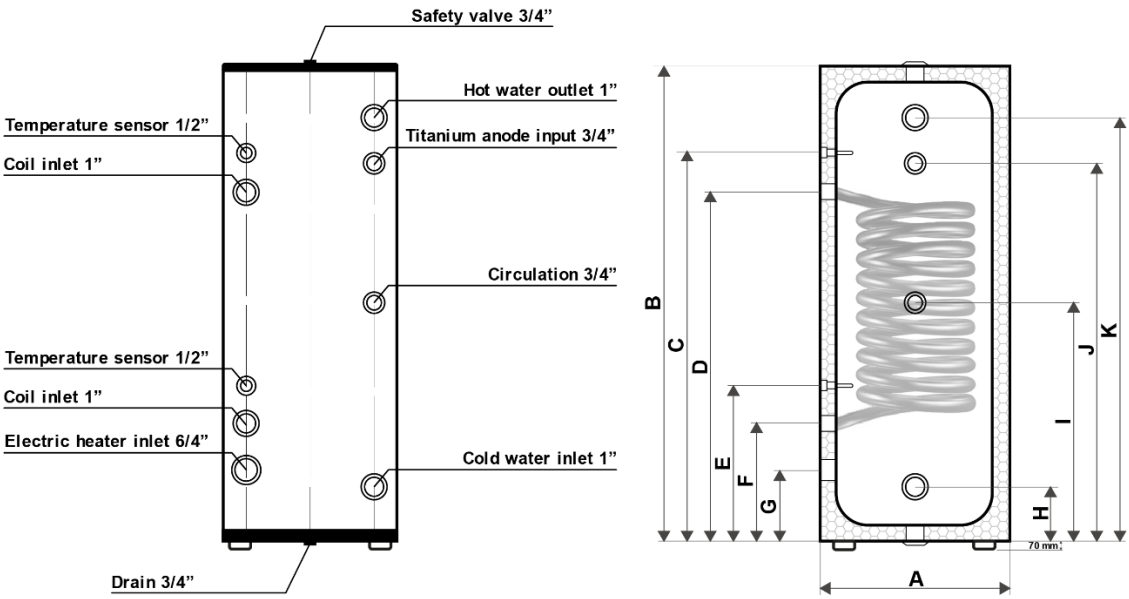
Dimensions

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	K [mm]
TG-S-CWU-100-1.8	480	1000	790	690	380	260	165	205	510	735	835
TG-S-CWU-150-2.2	480	1450	1255	1155	435	285	165	215	586	1,195	1285

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating pressure of the coil [MPa]	Maximum operating temperature of the tank [°C]	Maximum operating temperature of the coil [°C]	Coil surface area [m^2]
TG-S-CWU--100-1.8	36	100	0.6	0.5	95	110	1.8
TG-S-CWU--150-2.2	47	150	0.6	0.5	95	110	2.2

Diagrams



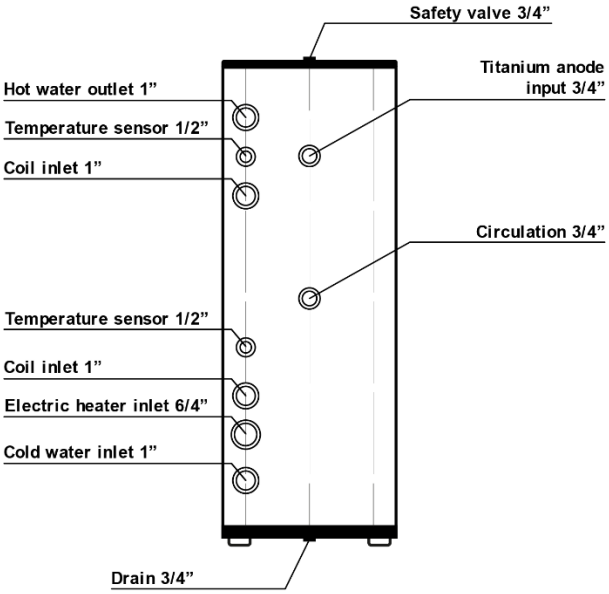
Dimensions

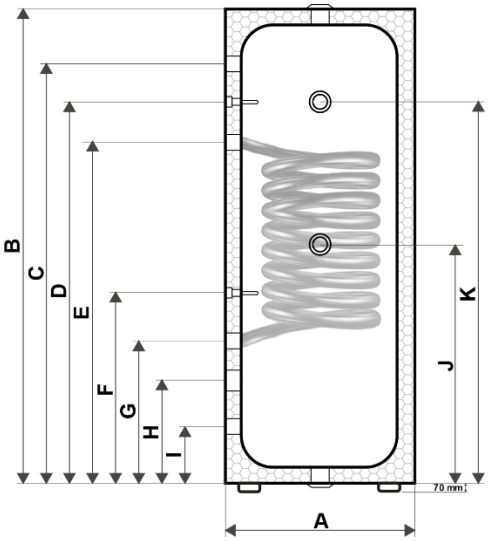
Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	K [mm]
TG-S-CWU-200-2.8	550	1400	1160	1000	510	350	210	170	660	1100	1230
TG-S-CWU-400-4	700	1590	1330	1180	550	400	260	185	700	1,255	1405

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating pressure of the coil [MPa]	Maximum operating temperature of the tank [°C]	Maximum operating temperature of the coil [°C]	Coil surface area [m²]
TG-S-CWU-200-2.8	61	200	0.6	0.5	95	110	2.8
TG-S-CWU-400-4	101	400	0.6	0.5	95	110	4

Diagrams





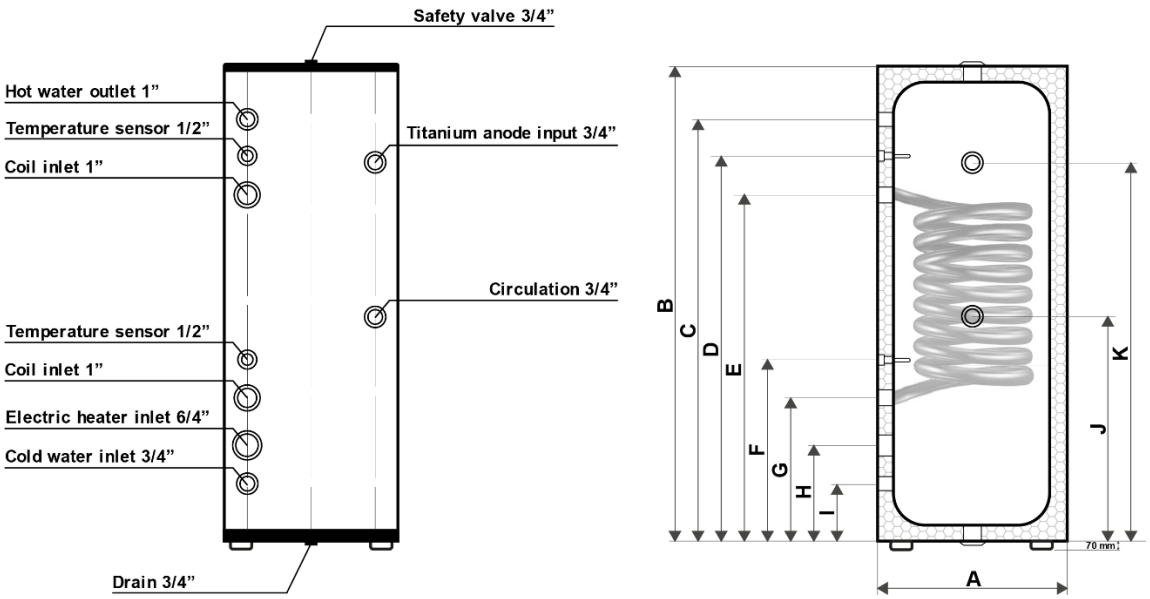
Dimensions

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	K [mm]
TG-S-CWU-250-3	580	1479	1309	1189	1070	580	430	310	170	730	1169

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating pressure of the coil [MPa]	Maximum operating temperature of the tank [°C]	Maximum operating temperature of the coil [°C]	Coil surface area [m²]
TG-S-CWU-250-3	66.5	250	0.6	0.5	95	110	3

Diagrams



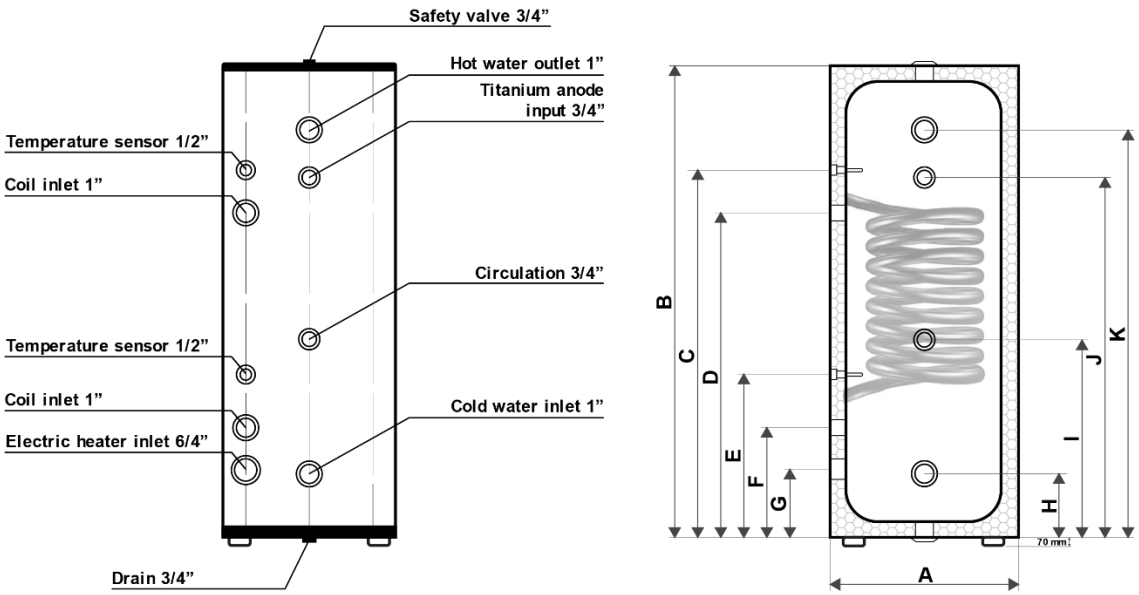
Dimensions

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	K [mm]
TG-S-CWU-300-4	580	1766	1593	1473	1333	633	483	333	173	783	1433
TG-S-CWU-500-4	700	1790	1610	1490	1265	635	485	365	185	785	1425

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating pressure of the coil [MPa]	Maximum operating temperature of the tank [°C]	Maximum operating temperature of the coil [°C]	Coil surface area [m^2]
TG-S-CWU-300-4	90	300	0.6	0.5	95	110	4
TG-S-CWU-500-4	109	500	0.6	0.5	95	110	4

Diagrams



Dimensions

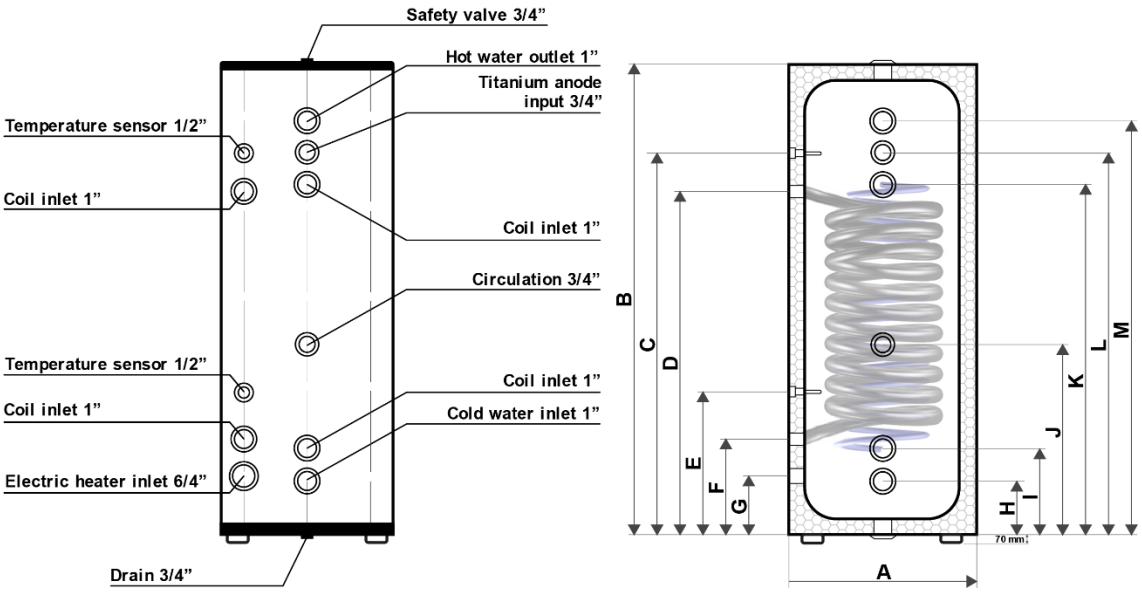
Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	K [mm]
TG-S-CWU-350-4	70	1348	1045	925	469	319	199	189	569	1024	1159

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating pressure of the coil [MPa]	Maximum operating temperature of the tank [°C]	Maximum operating temperature of the coil [°C]	Coil surface area [m^2]
TG-S-CWU-350-4	93	350	0.6	0.5	95	110	4

5.3 DHW tanks with two coils

Diagrams



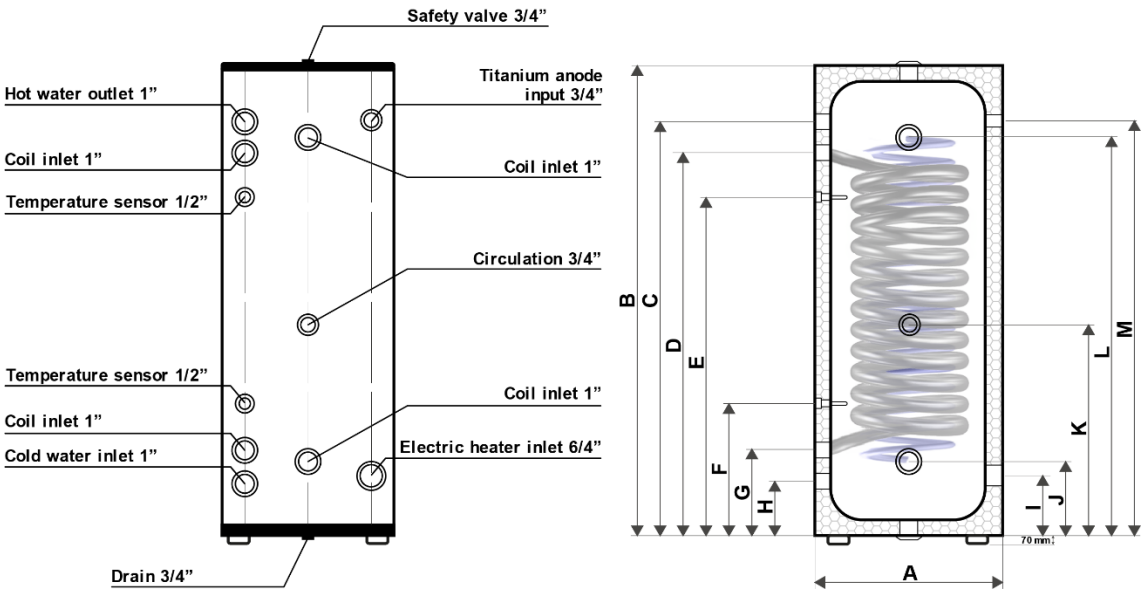
Dimensions

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	K [mm]	L [mm]	M [mm]
TG-S-CWU-150-0.6-1.6	480	1450	1184	1064	440	290	180	165	267	590	1087	1187	1285

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating pressure of the coil [MPa]	Maximum operating temperature of the tank [°C]	Maximum operating temperature of the coil [°C]	Coil surface area [m²]
TG-S-CWU-150-0.6-1.6	48.5	150	0.6	0.5	95	110	0.6 + 1.6

Diagrams



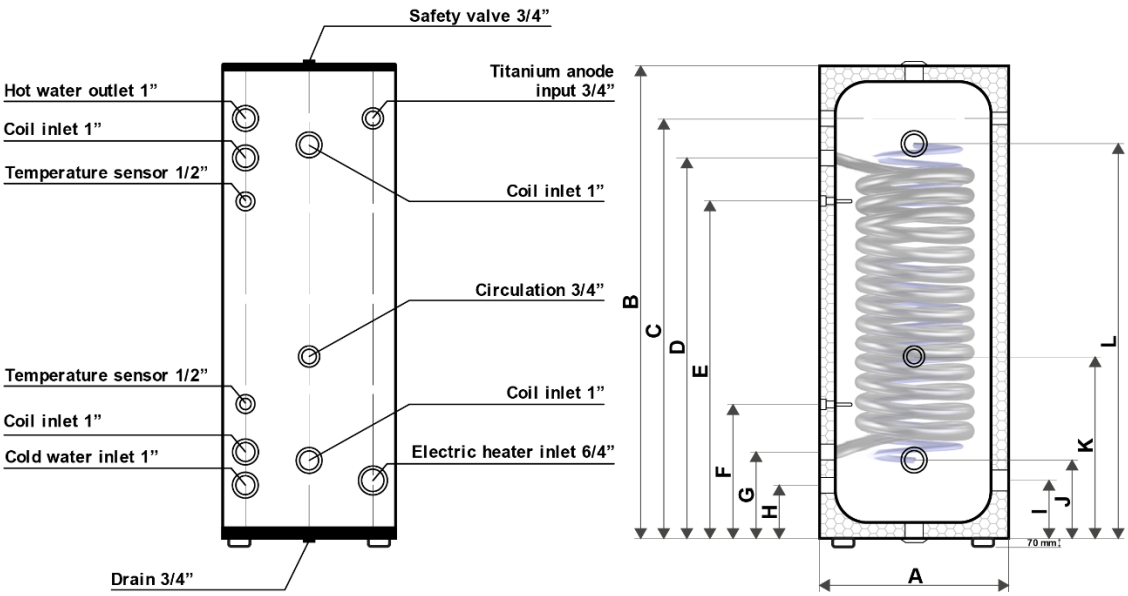
Dimensions

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	K [mm]	L [mm]	M [mm]
TG-S-CWU-200-1.8-2.4	550	1400	1235	1155	1005	400	250	165	180	210	550	1195	1230

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating pressure of the coil [MPa]	Maximum operating temperature of the tank [°C]	Maximum operating temperature of the coil [°C]	Coil surface area [m²]
TG-S-CWU-200-1.8-2.4	72	200	0.6	0.5	95	110	1.8 + 2.4

Diagrams



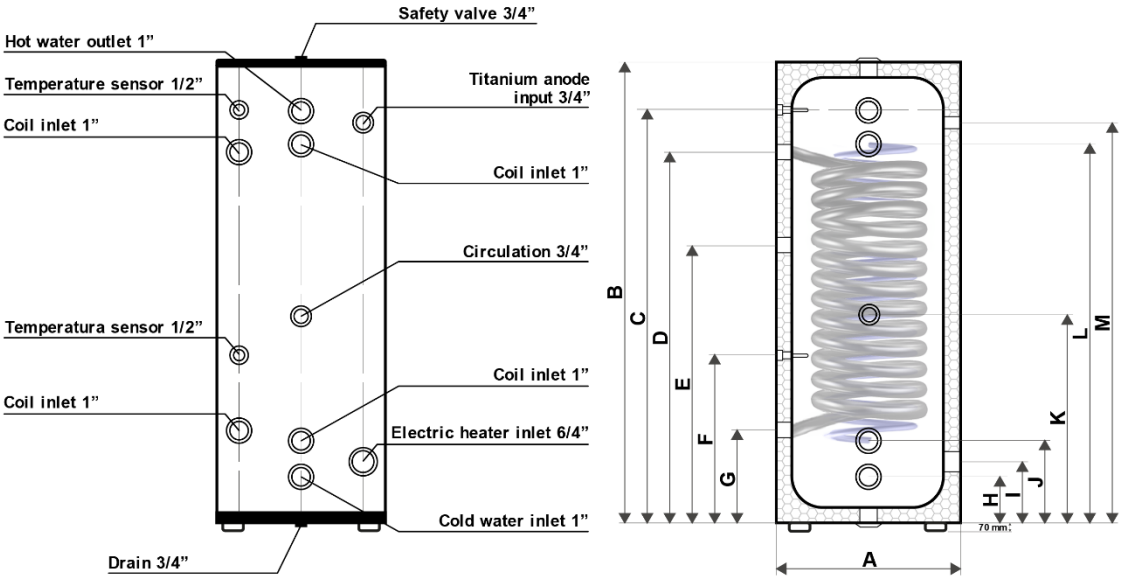
Dimensions

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	K [mm]	L [mm]
TG-S-CWU-250-1.8-2.6	580	1480	1310	1207	1060	420	270	170	185	248	570	1228

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating pressure of the coil [MPa]	Maximum operating temperature of the tank [°C]	Maximum operating temperature of the coil [°C]	Coil surface area [m²]
TG-S-CWU-250-1.8-2.6	75.5	250	0.6	0.5	95	110	1.8 + 2.6

Diagrams



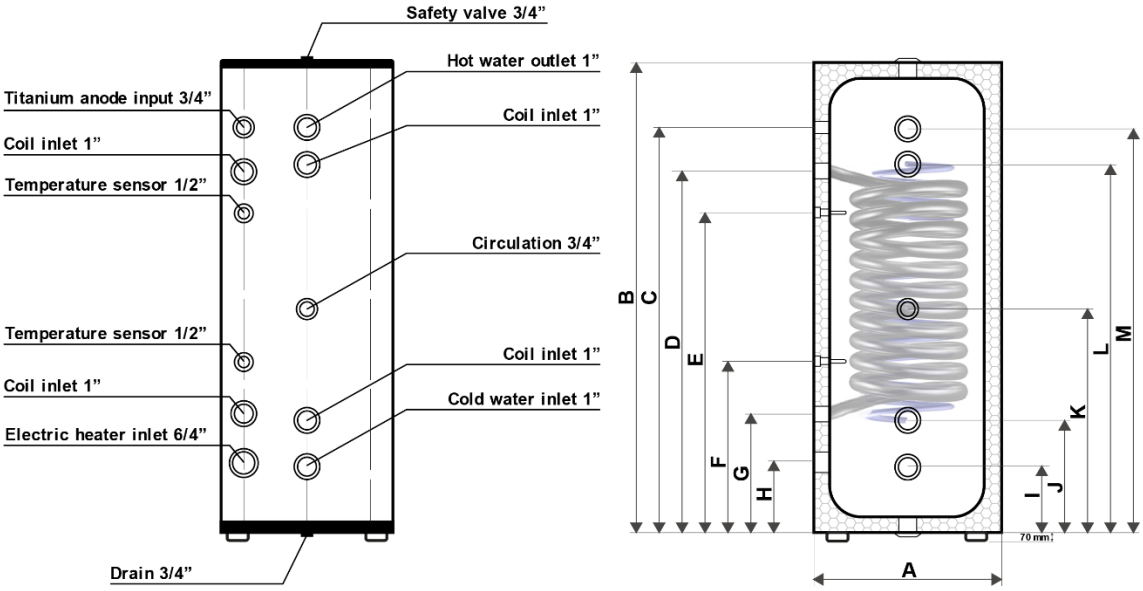
Dimensions

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	K [mm]	L [mm]	M [mm]
TG-S-CWU-300-1.8-3.1	580	1760	1680	1560	610	410	260	310	370	760	1590	1630	1680

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating pressure of the coil [MPa]	Maximum operating temperature of the tank [°C]	Maximum operating temperature of the coil [°C]	Coil surface area [m^2]
TG-S-CWU-300-1.8-3.1	97	300	0.6	0.5	95	110	1.8 + 3.1

Diagrams



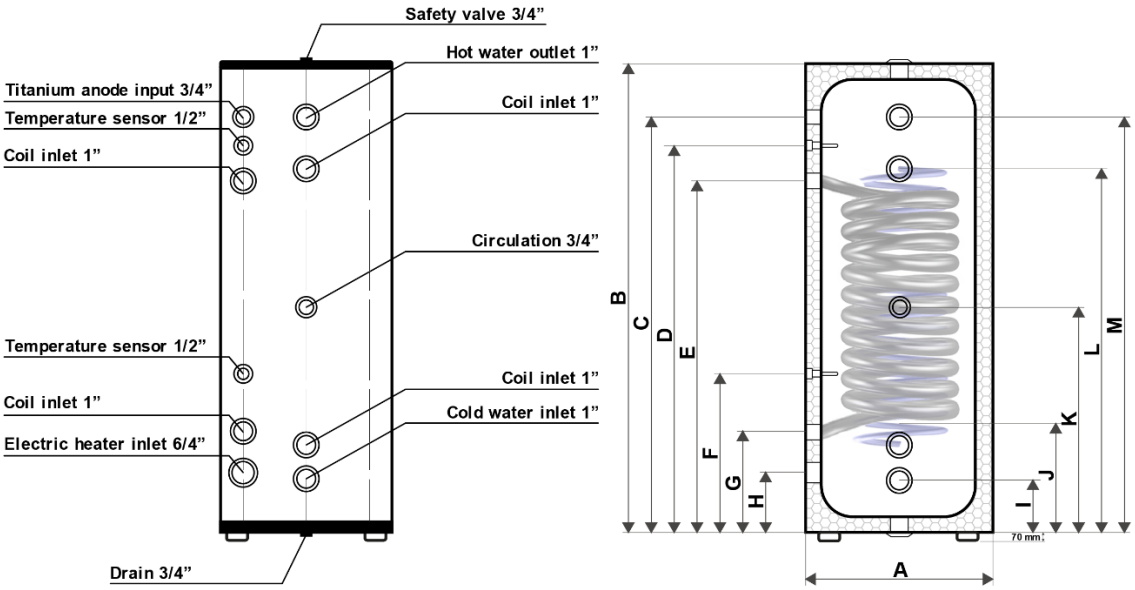
Dimensions

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	K [mm]	L [mm]	M [mm]
TG-S-CWU-350-1.8-3.1	70	1348	1159	1033	913	489	339	199	189	319	639	1053	1159

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating pressure of the coil [MPa]	Maximum operating temperature of the tank [°C]	Maximum operating temperature of the coil [°C]	Coil surface area [m²]
TG-S-CWU-350-1.8-3.1	99	350	0.6	0.5	95	110	1.8 + 3.1

Diagrams



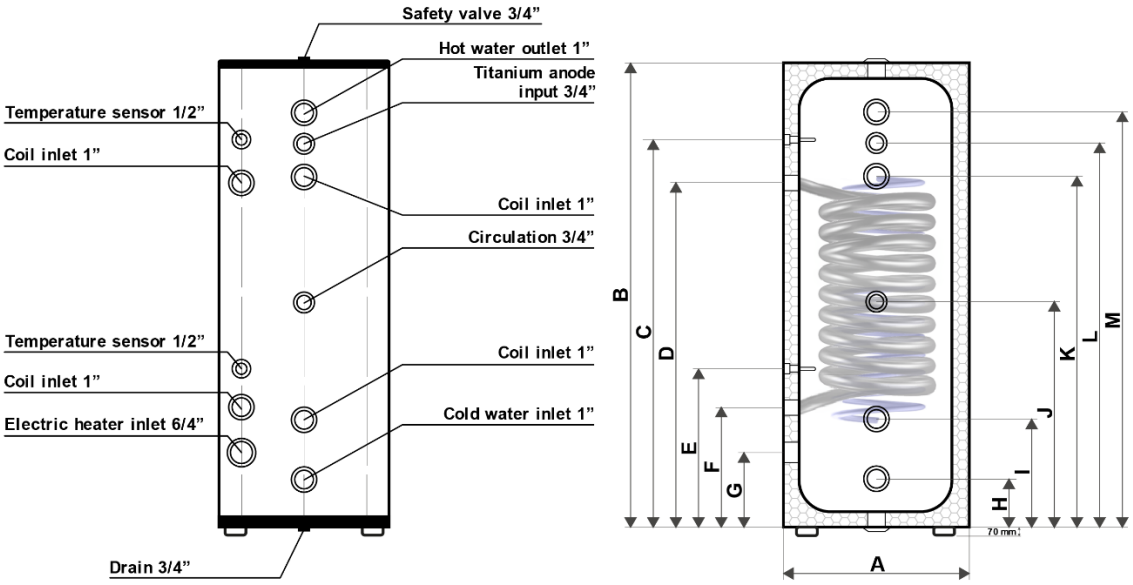
Dimensions

Model	A [mm	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	K [mm]	L [mm]	M [mm]
TG-S-CWU-400-1.8-3.1	700	1590	1405	1305	1210	500	300	205	185	290	650	1235	1405

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating pressure of the coil [MPa]	Maximum operating temperature of the tank [°C]	Maximum operating temperature of the coil [°C]	Coil surface area [m^2]
TG-S-CWU-400-1.8-3.1	107	400	0.6	0.5	95	110	1.8 + 3.1

Diagrams



Dimensions

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	K [mm]	L [mm]	M [mm]
TG-S-CWU-500-1.8-3.1	700	1790	1505	1340	630	430	295	185	420	780	1365	1485	160

Technical specifications

Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating pressure of the coil [MPa]	Maximum operating temperature of the tank [°C]	Maximum operating temperature of the coil [°C]	Coil surface area [m²]
TG-S-CWU-500-1.8-3.1	115	500	0.6	0.5	95	110	1.8 + 3.1

6. INFORMATION ON THE DISPOSAL OF USED EQUIPMENT

Disposal – do not dispose of the device with unsorted municipal waste. This type of waste must be sent for special processing. It is illegal to dispose of the device with other household waste. There are several ways to "dispose" of this type of equipment:

- The city organises electronic waste collection events where you can hand over your device free of charge.
- When purchasing a new device, the seller will accept the old device free of charge.
- The manufacturer will collect the product from the customer at no cost.
- Products of this type containing valuable components can be sold to a scrap metal dealer.

Disposing of the device irresponsibly exposes you and your loved ones to health risks. Hazardous substances from the device can seep into the groundwater, creating a risk of these substances entering the human food chain.

	Used consumables should be sorted and disposed of in accordance with the applicable law of the country where the device is located.

7. WARRANTY TERMS

TECHGLOBE Sp. z o.o. with its registered office at: ul. Kolejowa 12, 23-200 Kraśnik, Poland, NIP: PL NIP 9462697129, REGON: 386106096, (hereinafter referred to as the "Guarantor") grants the Buyer a warranty for the quality of the TECH-SYSTEM DHW exchanger (hereinafter referred to as the "Product").

1. The warranty applies only to Products purchased and installed in Poland.
2. In the event of exporting the product abroad, the guarantor's obligations are taken over by an authorised distributor.
3. The Buyer is obliged, under pain of losing their warranty rights, to:
   a) ensure the correct installation of the Product in accordance with the installation instructions, applicable standards and building regulations, good building practice, and in accordance with the Product documentation;
   b) report any defects in the Product within 7 days of their occurrence.
4. The warranty for the exchanger tank is granted for a period of 2 years from the date of purchase of the Product.
5. The warranty for the exchanger accessories, i.e. the safety valve, thermometer and exchanger insulation, is granted for a period of 12 months from the date of purchase of the Product.
6. The warranty is maintained by installing a titanium anode or a magnesium anode, provided that it is replaced in the event of degradation.
7. If the Product is used in facilities other than households, in particular for business purposes, the warranty period for the exchanger tank is 1 year from the date of purchase of the Product.
8. During the warranty period, the time for removing a defect in the Product within the scope of the Guarantor's liability shall not exceed 30 days from the date of reporting the defect, although in justified cases the deadline for removing the defect may be extended, in particular if it is necessary to wait for spare parts, the need to obtain the necessary opinions of the component manufacturer regarding the causes of the damage, or the need to obtain the opinions of independent institutions.
9. The method of rectifying defects during the warranty period shall be determined by the Guarantor on a case-by-case basis. All parts and materials replaced during warranty repairs shall become the property of the Guarantor.

10. The Guarantor shall not be liable for damage caused to persons or property resulting from improper use and operation of the device, its improper installation or failure to follow the recommendations contained in the Product documentation.
11. Defects discovered during the warranty period should be reported to the Guarantor within the time limit specified in point 3 b) via e-mail: **kontakt@techglobe.pl** or via the contact form available on the Guarantor's website or by telephone at: **(+48) 510 510 945**.
12. The warranty does not include the right to claim compensation for lost profits in connection with Product defects.
13. The warranty does not cover leaks from the safety valve caused by installing the exchanger without a diaphragm vessel, installing a water pressure reducer without simultaneously installing a diaphragm expansion vessel, or using a diaphragm vessel without compressed air.
14. The warranty does not cover damage to the Product:
    a) caused by external factors and/or factors beyond the Guarantor's control, in particular such as the degree of mineralisation (hardness) of the water. The maximum permissible concentration of chemical/mineral compounds (mg/l) in the water supplying the exchanger covered by the warranty is:
        - chlorides – 250 mg/l;
        - magnesium – 10 mg/l;
        - water pH in the range of 6.5–9.5;
        - sodium – 150 mg/l;
        - total water hardness – $CaCO_3$ – max. 250 mg/l;
        - sulphates – 200 mg/l;
    b) caused by using the Product contrary to its intended purpose, operating instructions and safety regulations;
    c) caused by external mechanical or atmospheric factors, lightning strikes, etc., in particular as a result of storms, floods, fires and similar fortuitous events or force majeure;
    d) caused by improper transport or storage of the Product;
    e) caused by low temperatures (in particular frost damage);
    f) caused by the installation and operation of the Product without a safety valve or diaphragm vessel;
    g) caused by operating the Product with a damaged safety valve, blocked safety valve, damaged diaphragm vessel, using excessive pressure in the network (max. 6 bar), maintaining incorrect diaphragm vessel pressure;
    h) caused by the action of aggressive chemical compounds;
    i) caused by limescale build-up;
    j) caused by chemicals contained in water, stray currents, water hardness and electrolytic corrosion, i.e. pipe corrosion;
    k) or connection fittings resulting from the use of connectors made of materials other than brass or stainless steel. Do not use galvanised connectors. Do not use galvanised hydrophores before cold water enters the tank;
    l) caused by power failure, power surges;
    m) caused by improper installation and assembly of consumable or naturally worn parts;
    n) caused by failure to perform the maintenance procedures specified in the Product manual.
15. The warranty covers only defects and faults in the Product caused by the manufacturer;
16. The buyer loses the warranty in the event of unauthorised interference with the design and/or construction of the Product, as well as the use of spare parts other than those dedicated by the Guarantor.
17. The Guarantor reserves the right to issue a one-time consent to a third party to replace parts and/or repair the Product. Such consent will be sent to the e-mail address provided by the Buyer.
18. If the Guarantor determines that it is not possible to repair the reported defect in the Product at the Buyer's premises, the exchanger shall be repaired at the Guarantor's premises, and the Buyer may receive a replacement Product for the duration of the repair.
19. The Guarantor may refuse to perform a warranty repair without any claims from the Buyer if:

a) there is no access to the Product for installation;
b) the replacement of the heater requires the dismantling of other devices, partition walls, etc.;
c) the tank is permanently connected to the water supply system by means of non-detachable connections.

20. If the Buyer removes the obstacles indicated in point 17, the Guarantor may proceed to remove the defects of the Product, if this is possible after the Buyer's actions.
21. The warranty does not exclude the Buyer's rights under the warranty for defects, unless such warranty has been excluded to the extent permitted by law.