

# OPERATING AND ASSEMBLY INSTRUCTIONS



## Models:

TG-BT-50  
TG-BT-100  
TG-BT-200  
TG-BT-300  
TG-BT-500

TG-S-CWU-100-1.8  
TG-S-CWU-150-2.2  
TG-S-CWU-200-2.8  
TG-S-CWU-250-3  
TG-S-CWU-300-4  
TG-S-CWU-350-4  
TG-S-CWU-400-4  
TG-S-CWU-500-4

TG-S-CWU-150-0.6-1.6  
TG-S-CWU-200-1.8-2.4  
TG-S-CWU-250-1.8-2.6  
TG-S-CWU-300-1.8-3.1  
TG-S-CWU-350-1.8-3.1  
TG-S-CWU-400-1.8-3.1  
TG-S-CWU-500-1.8-3.1

ORIGINAL INSTRUCTIONS

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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.

	<b>WARNING:</b> 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.
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#### 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.
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### 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.

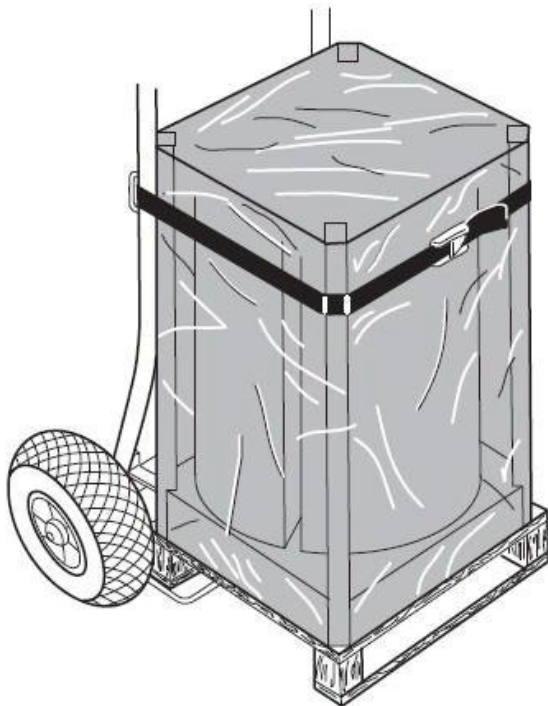
DHW tanks are available with one or two coils and are made of AISI 304/1.4301 stainless steel. The tank is thermally insulated with high-quality polyurethane (PUR) foam. This reduces heat loss to a minimum. The tank coil is made of SUS304 3 stainless steel and can be manufactured in a precision (smooth) 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

	<b>WARNING:</b> 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.
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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).

	<p><b>NOTE:</b> the nominal pressure of the DHW tank is:</p> <ul style="list-style-type: none"><li>- for water supply systems, min. 0.1 MPa (1 bar) and max. 0.6 MPa (6 bar);</li><li>- for heating systems, max. 0.6 MPa (6 bar).</li></ul>
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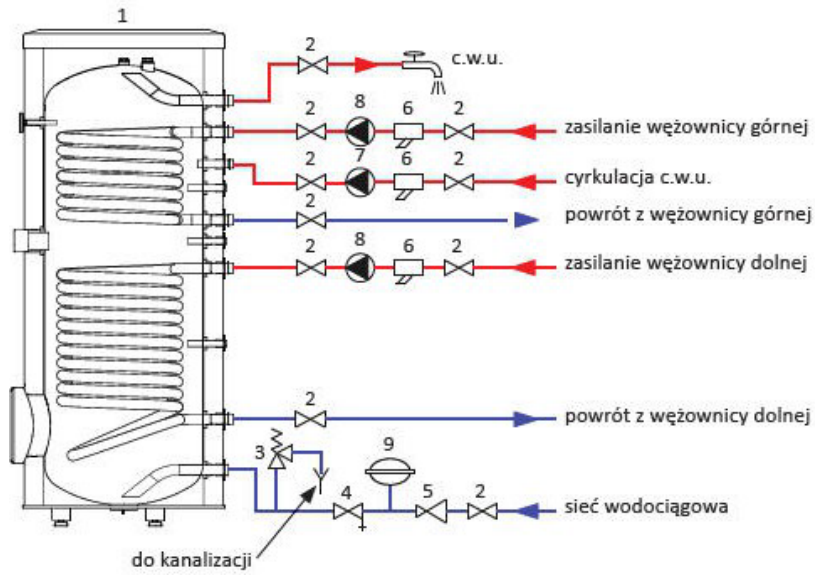
The DHW tank should be connected to a water system with a water pressure of not less than 1 bar and not more than 6 bar. The pressure of the heating system must not exceed 6 bar. In the case of higher pressure, the DHW tank should be equipped with a pressure reducer. Each time the hot water in the tank 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.

	<p><b>NOTE:</b> 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.</p>
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	<p><b>NOTE:</b></p> <ol style="list-style-type: none"><li>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.</li><li>2. Do not use the appliance if the safety valve is blocked.</li><li>3. A safety valve with a maximum rated pressure of 6 bar must be installed on the cold water supply pipe.</li><li>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.</li><li>5. Do not use galvanised hydrophores before the cold water enters the tank.</li></ol>
	<p><b>NOTE:</b> Each tank and each installation must be earthed to prevent electrochemical corrosion.</p>
	<p><b>INFORMATION:</b> 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.</p> <p>When selecting and installing an electric heater, follow the standards, safety rules and manufacturer's instructions for the heater in question.</p>

#### 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

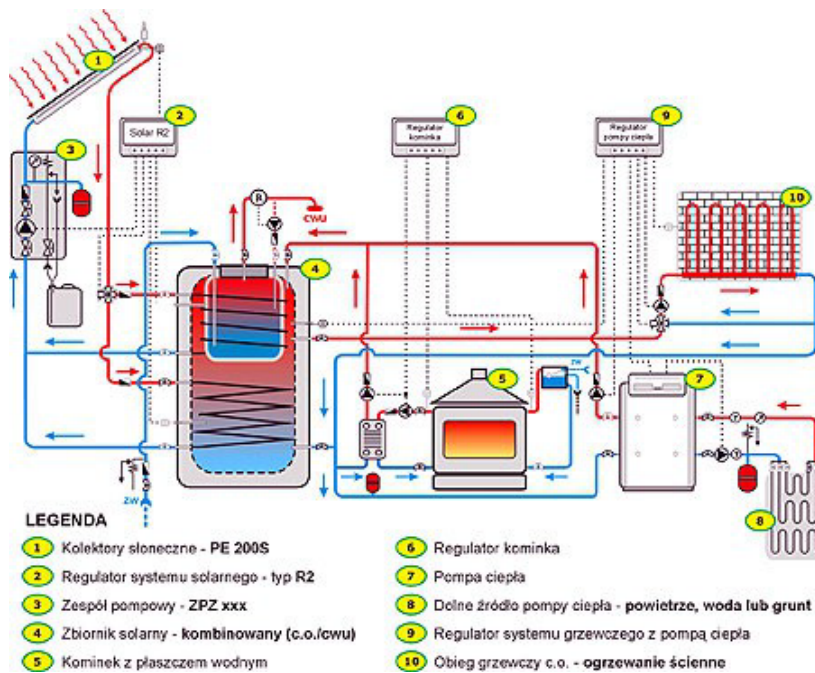


Diagram of DHW and central heating installation with using solar collectors, heat pumps, and a fireplace with a water jacket for central heating and hot water. Heat is distributed from the hot water tank.

#### LEGENDA

- |   |   |
|---|---|
| 1 Kolektory słoneczne - PE 200S             | 6 Regulator kominka                                     |
| 2 Regulator systemu solarnego - typ R2      | 7 Pompa ciepła  |
| 3 Zespół pompowy - ZPZ xxx                  | 8 Dolne źródło pompy ciepła - powietrze, woda lub grunt |
| 4 Zbiornik solarny - kombinowany (c.o./cwu) | 9 Regulator systemu grzewczego z pompą ciepła           |
| 5 Kominek z płaszczem wodnym                | 10 Obieg grzewczy c.o. - ogrzewanie ścienne             |

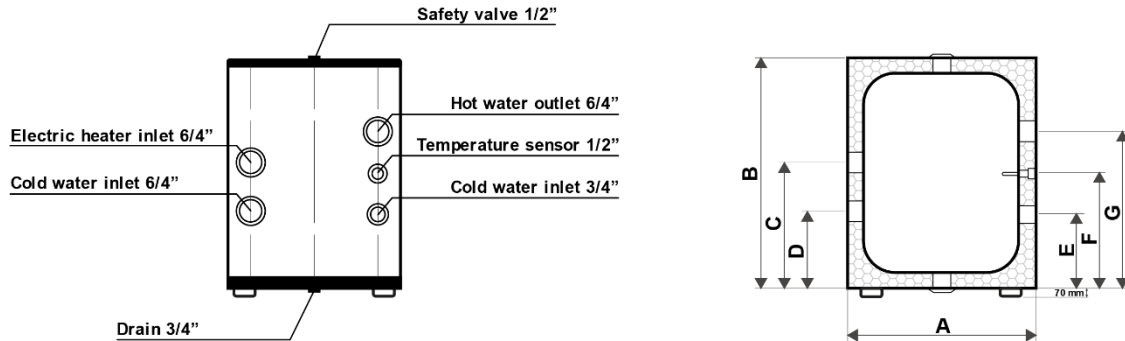


**INFORMATION:** The above diagrams are for illustrative purposes only and show the most important rules for connecting central heating and hot water tanks. In reality, a given central heating and hot water tank may vary slightly, and its final connection must be carried out by a qualified installer.

## 5. TECHNICAL DATA

### 5.1 Buffer tanks without coil

#### Diagrams



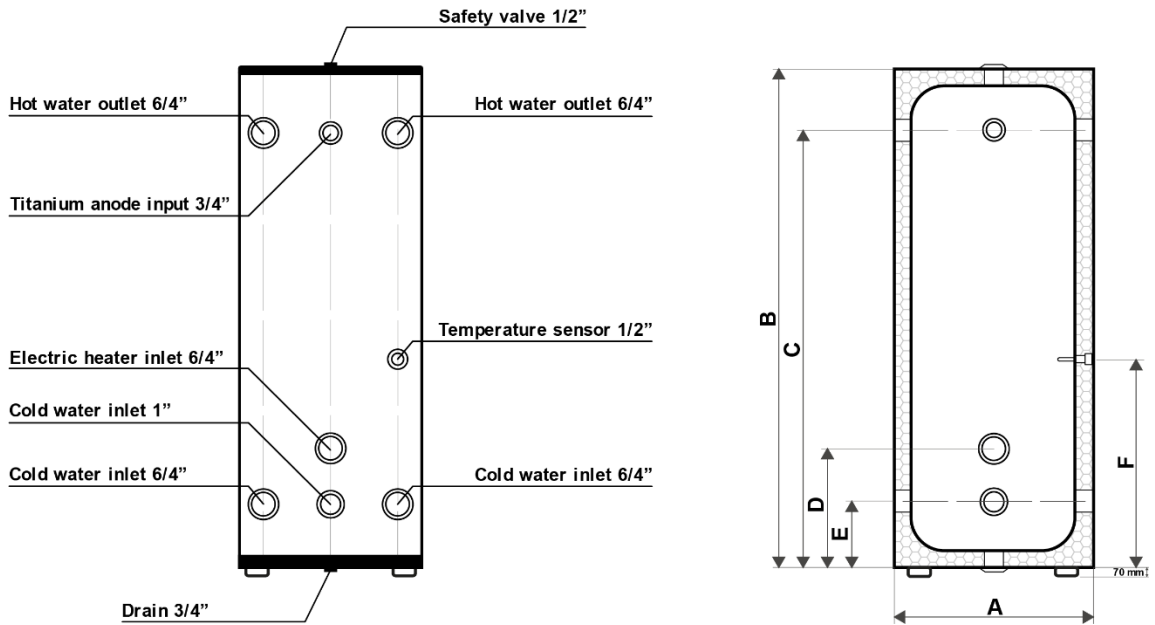
#### Dimensions

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

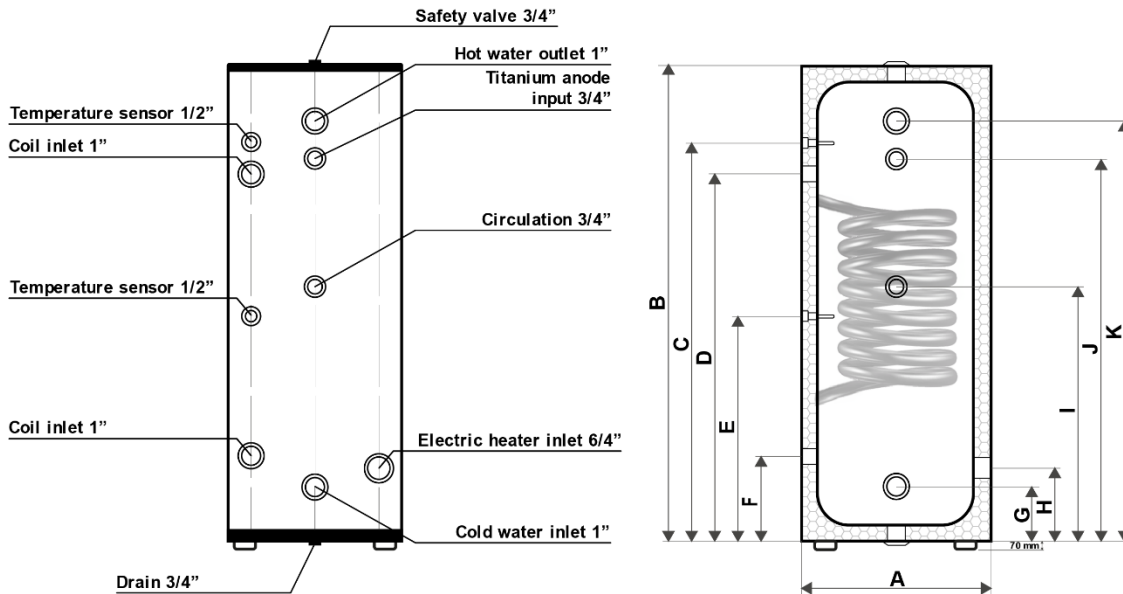
Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
TG-BT-100	480	1000	825	325	175	445
TG-BT-200	550	1400	1220	330	180	580
TG-BT-300	580	1760	1580	330	180	630
TG-BT-500	700	1790	1596	346	196	650

### 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



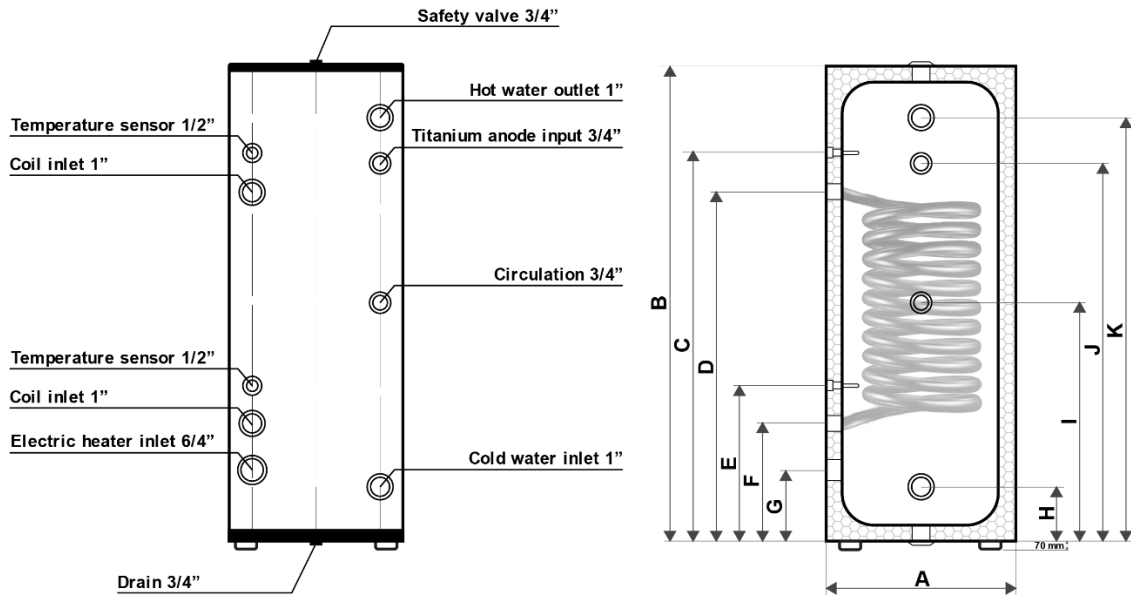
### Dimensions

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 <sup>2</sup> ]
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**



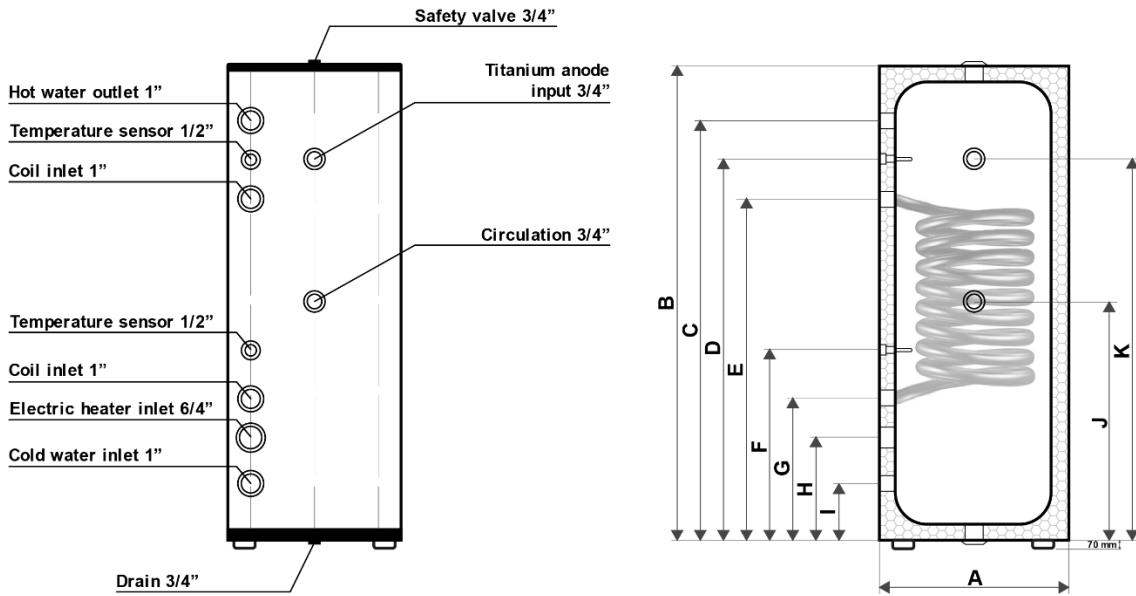
**Dimensions**

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 [m <sup>2</sup> ]
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**



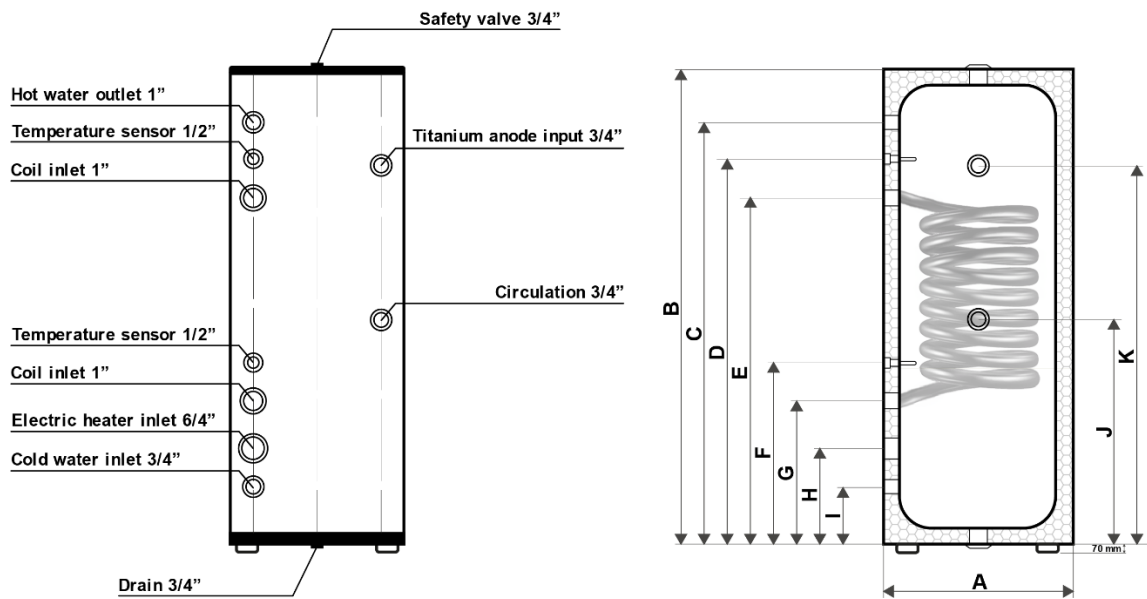
**Dimensions**

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 [m <sup>2</sup> ]
TG-S-CWU-250-3	66.5	250	0.6	0.5	95	110	3

### Diagrams



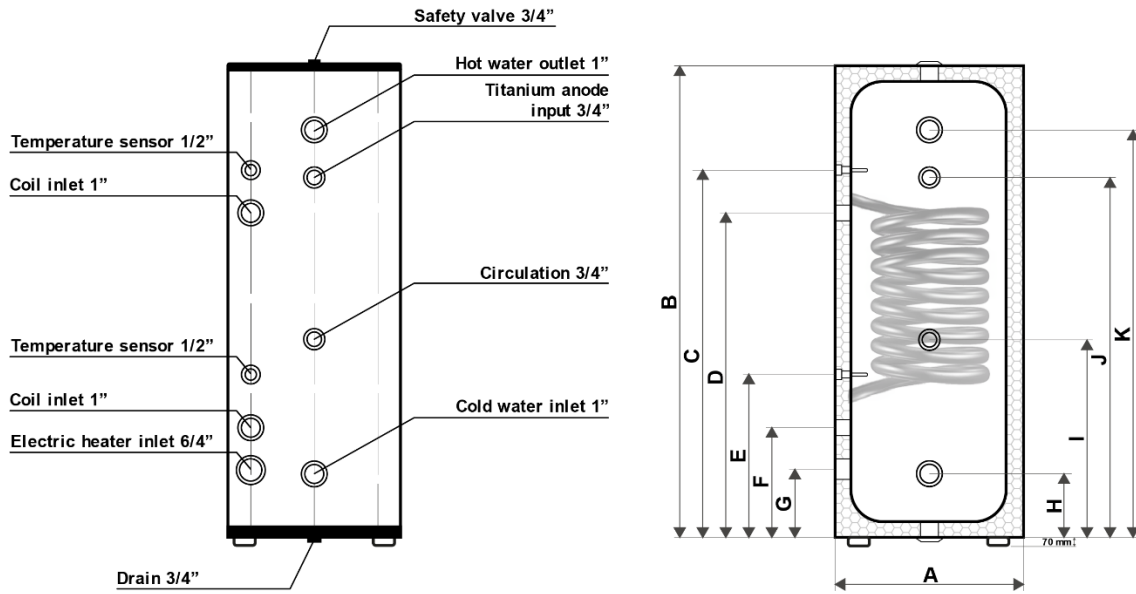
### Dimensions

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 <sup>2</sup> ]
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**

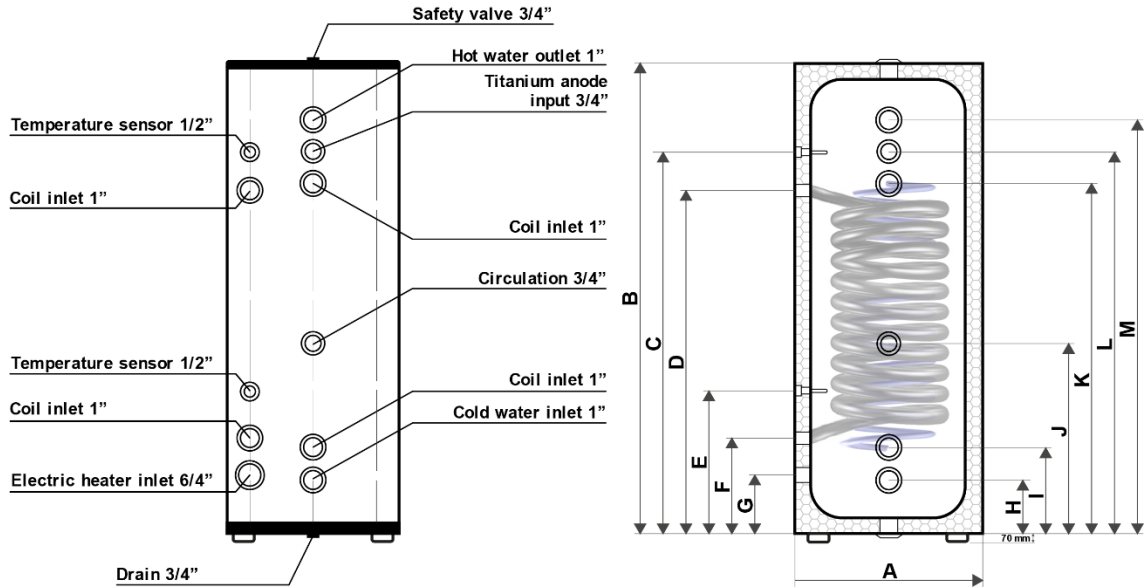
Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]	K [mm]
TG-S-CWU-350-4	70	1348	1045	925	469	319	199	189	569	1024	1159

**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 <sup>2</sup> ]
TG-S-CWU-350-4	93	350	0.6	0.5	95	110	4

### 5.3 DHW tanks with two coils

#### Diagrams



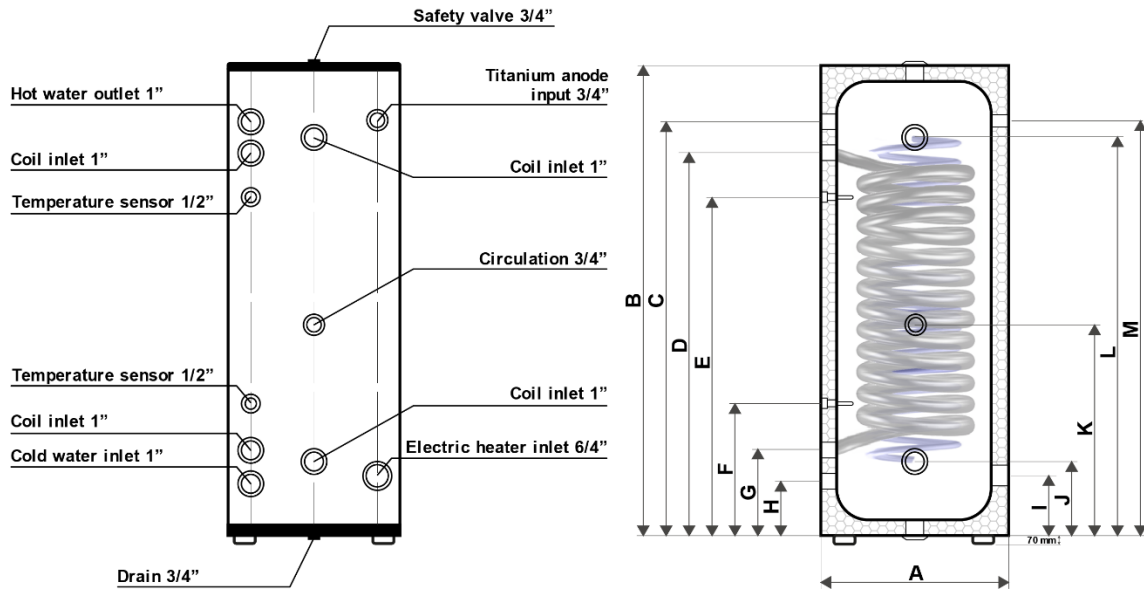
#### Dimensions

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 [m <sup>2</sup> ]
TG-S-CWU-150-0.6-1.6	48.5	150	0.6	0.5	95	110	0.6 + 1.6

**Diagrams**



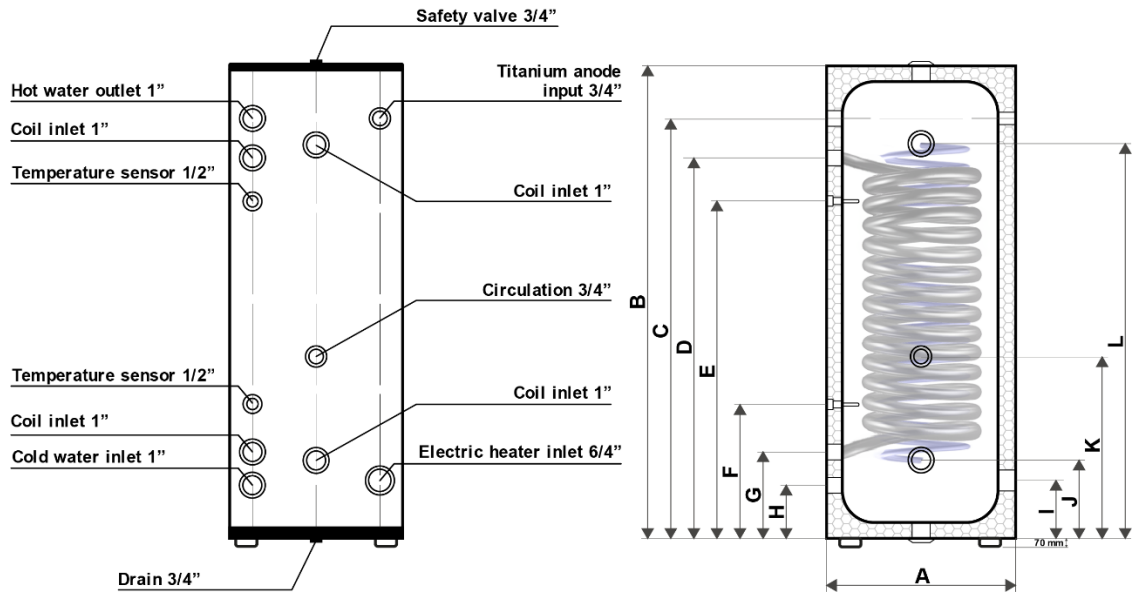
**Dimensions**

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 [m <sup>2</sup> ]
TG-S-CWU-200-1.8-2.4	72	200	0.6	0.5	95	110	1.8 + 2.4

**Diagrams**



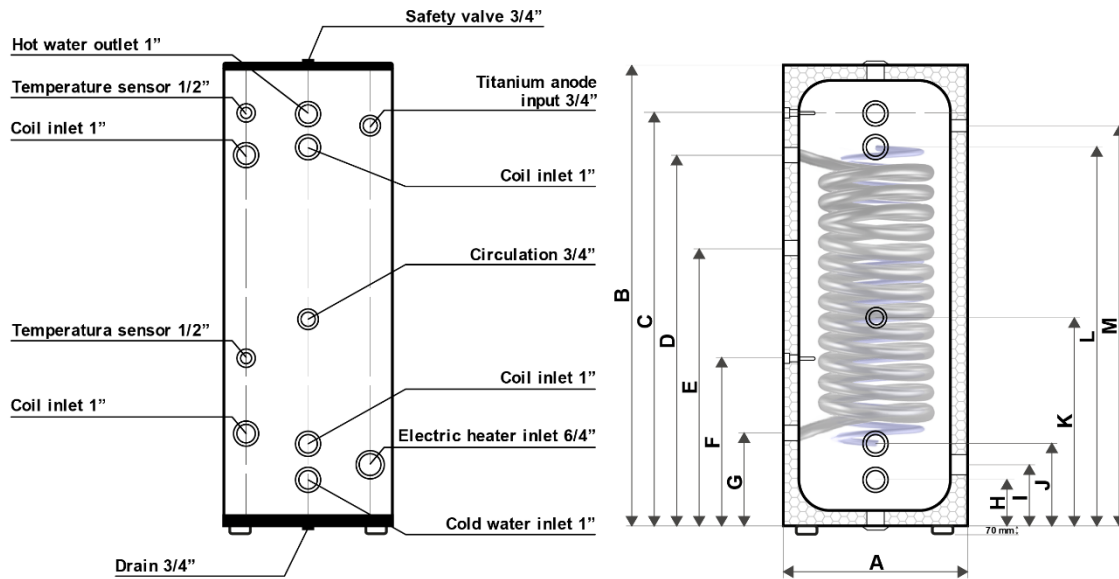
**Dimensions**

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 [m <sup>2</sup> ]
TG-S-CWU-250-1.8-2.6	75.5	250	0.6	0.5	95	110	1.8 + 2.6

**Diagrams**



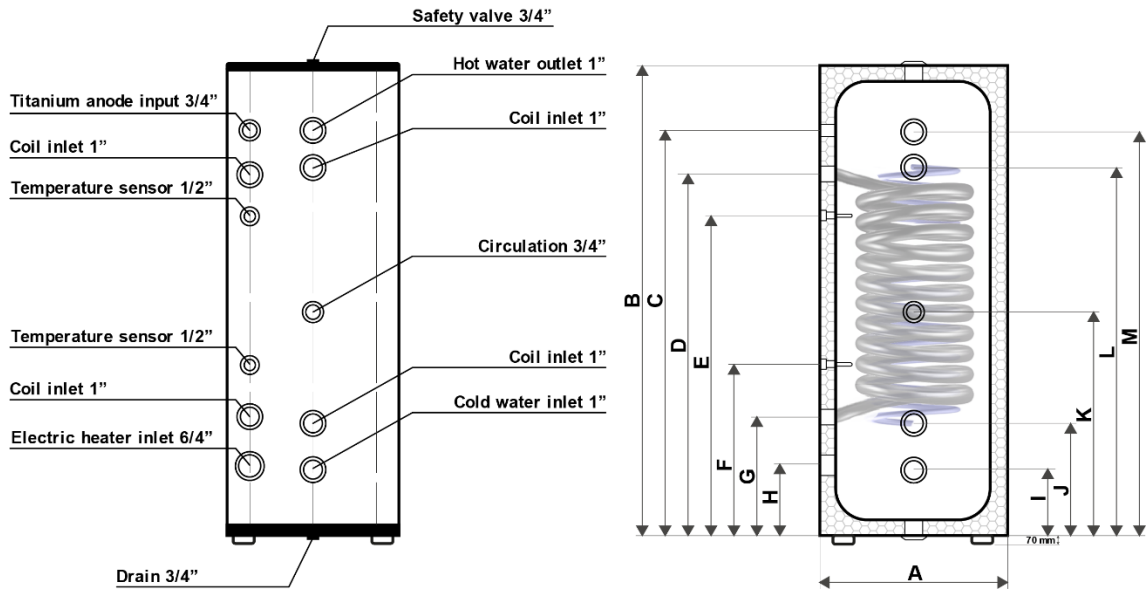
**Dimensions**

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 <sup>2</sup> ]
TG-S-CWU-300-1.8-3.1	97	300	0.6	0.5	95	110	1.8 + 3.1

**Diagrams**



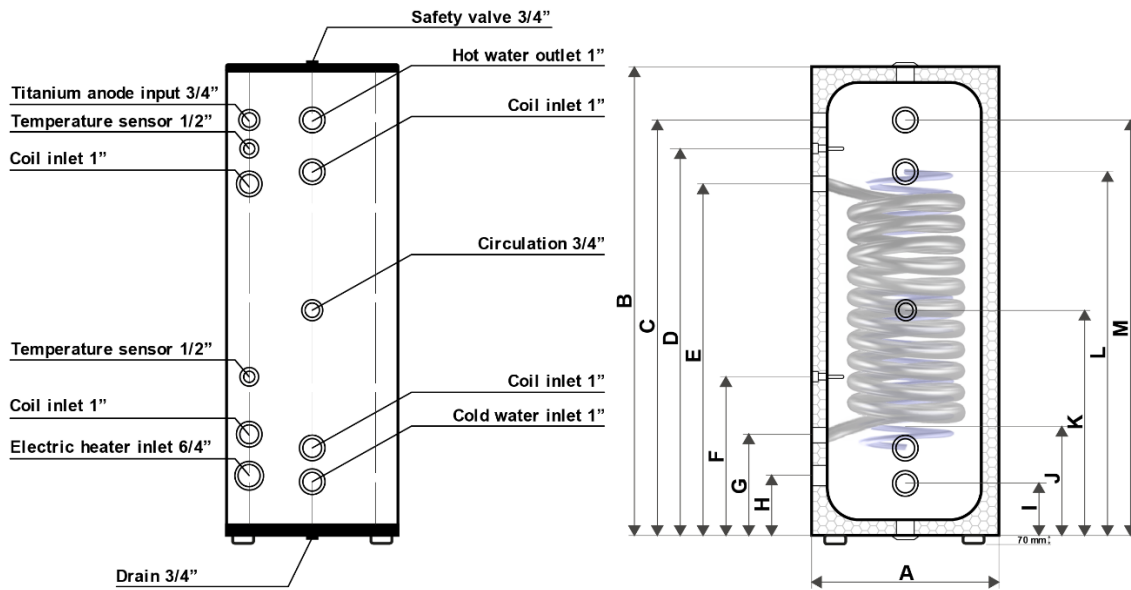
**Dimensions**

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 [m <sup>2</sup> ]
TG-S-CWU-350-1.8-3.1	99	350	0.6	0.5	95	110	1.8 + 3.1

**Diagrams**



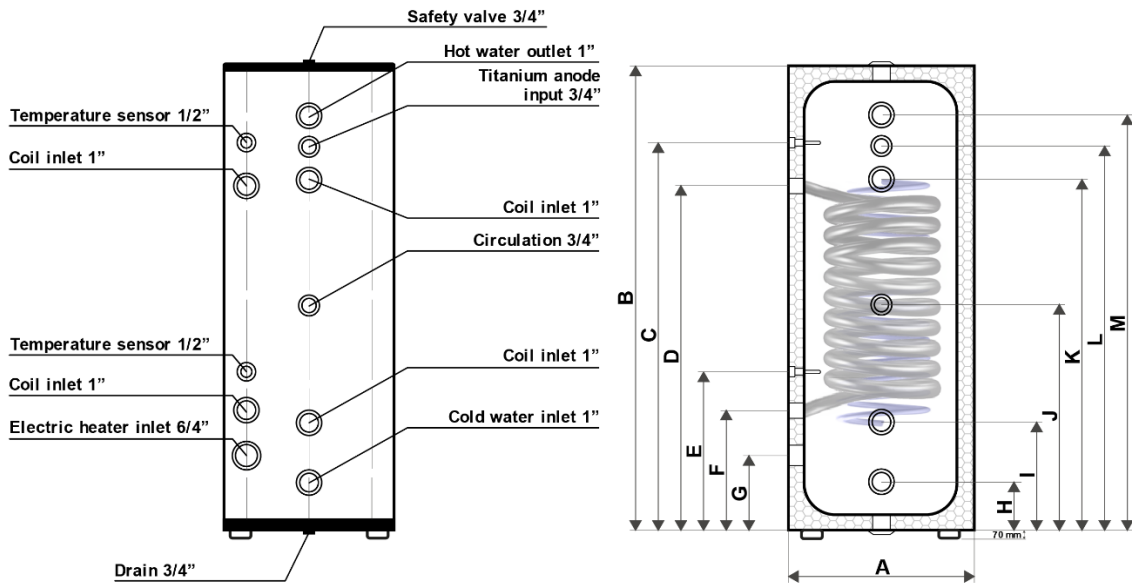
**Dimensions**

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 <sup>2</sup> ]
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**

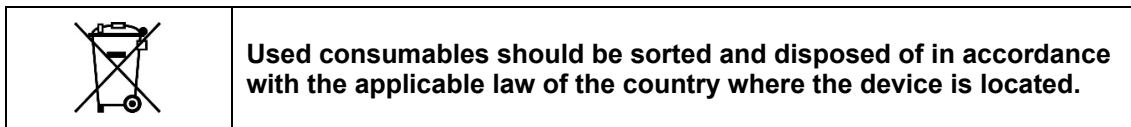
Model	Weight [kg]	Capacity [L]	Maximum working pressure of the tank [MPa]	Maximum operating pressure of the coil [MPa]	Maximum operating temperature of the tank [°C]	Maximum operating temperature of the coil [°C]	Coil surface area [m <sup>2</sup> ]
TG-S-CWU-500-1.8-3.1	115	500	0.6	0.5	95	110	1.8 + 3.1

## 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.



## 7. CONDITIONS OF PROPER USE

TECHGLOBE Sp. z o.o., with its registered office at ul. Kolejowa 12, 23-200 Kraśnik, Poland, VAT ID: PL9462697129, REGON: 386106096 (hereinafter referred to as the "Seller"), shall be liable for the quality of the TECHGLOBE domestic hot water heat exchanger (hereinafter referred to as the "Product") in accordance with the provisions of the Civil Code governing the statutory warranty for defects.

1. The Buyer shall, under penalty of losing rights under the statutory warranty, be obliged to:
  - a) ensure that the Product is installed properly, in accordance with the installation manual, applicable standards, construction laws, accepted engineering practices, and the Product documentation;
  - b) report any defect in the Product within 7 days from the date the defect is identified.
2. The Buyer is required to install a titanium anode.
3. The defect rectification period shall not exceed 30 days from the date of defect notification. In justified cases, this period may be extended, in particular due to the need to obtain spare parts, expert opinions from component manufacturers, or opinions from independent institutions.
4. The Seller shall not be liable for any damage to persons or property resulting from improper use, operation, or installation of the Product, or failure to comply with the instructions provided in the Product documentation.
5. Any defects identified during the statutory warranty period must be reported to the Seller within the timeframe specified in section 1(b), via e-mail at: **bok@techglobe.pl**, through the contact form available on the Seller's website, or by phone at: **(+48) 510 510 945**.
6. The statutory warranty does not cover leaks from the safety valve resulting from installation of the heat exchanger without a diaphragm expansion vessel, installation of a pressure reducer without a diaphragm expansion vessel, or operation of an expansion vessel without compressed air.
7. The statutory warranty does not cover damage to the Product resulting from:
  - a) external factors beyond the Seller's control, including in particular water mineralization (hardness). The maximum permissible concentrations of chemical/mineral compounds (mg/l) in the supply water are:

- chlorides – 250 mg/l;
  - magnesium – 10 mg/l;
  - pH – 6.5–9.5;
  - sodium – 150 mg/l;
  - total hardness (as CaCO<sub>3</sub>) – max. 250 mg/l;
  - sulfates – 200 mg/l;
- b) use of the Product contrary to its intended purpose, operating manual, or safety regulations;
  - c) external mechanical or atmospheric factors, including lightning, storms, floods, fires, or other force majeure events;
  - d) improper transport or storage;
  - e) low temperatures (including frost damage);
  - f) installation or operation without a safety valve and diaphragm expansion vessel;
  - g) operation with a damaged or blocked safety valve, damaged expansion vessel, excessive system pressure (above 6 bar), or incorrect expansion vessel pressure;
  - h) aggressive chemical agents;
  - i) scale (limescale) buildup;
  - j) chemical composition of water, stray electrical currents, water hardness, or electrolytic corrosion (e.g. pipe rupture);
  - k) use of connection fittings made of materials other than brass or stainless steel. Galvanized fittings must not be used. Galvanized pressure tanks must not be installed before the cold water inlet to the tank;
  - l) power supply failures or electrical surges;
  - m) improper installation or use of consumable parts, or natural wear and tear;
  - n) failure to carry out maintenance as specified in the Product manual.
8. The statutory warranty covers only defects resulting from manufacturing faults.
  9. The Seller shall not be liable in cases where unauthorized modifications to the Product structure have been made or where non-approved spare parts have been used.
  10. The Seller reserves the right to grant one-time authorization for a third party to perform repairs or replace parts. Such authorization shall be sent to the e-mail address provided by the Buyer.
  11. If the Seller determines that the defect cannot be repaired on-site, the Product shall be repaired at the Seller's premises. A replacement unit may be provided to the Buyer for the duration of the repair.
  12. The Seller may refuse to perform repairs, without any claims arising on the part of the Buyer, if:
    - a) proper installation access to the Product is not provided;
    - b) replacement of the unit requires dismantling other equipment or structural elements;
    - c) the tank is permanently connected to the water system using non-detachable connections.
  13. Once the Buyer removes the obstacles referred to above, the Seller may proceed with the repair, provided it remains technically feasible.