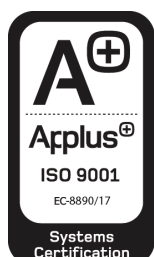
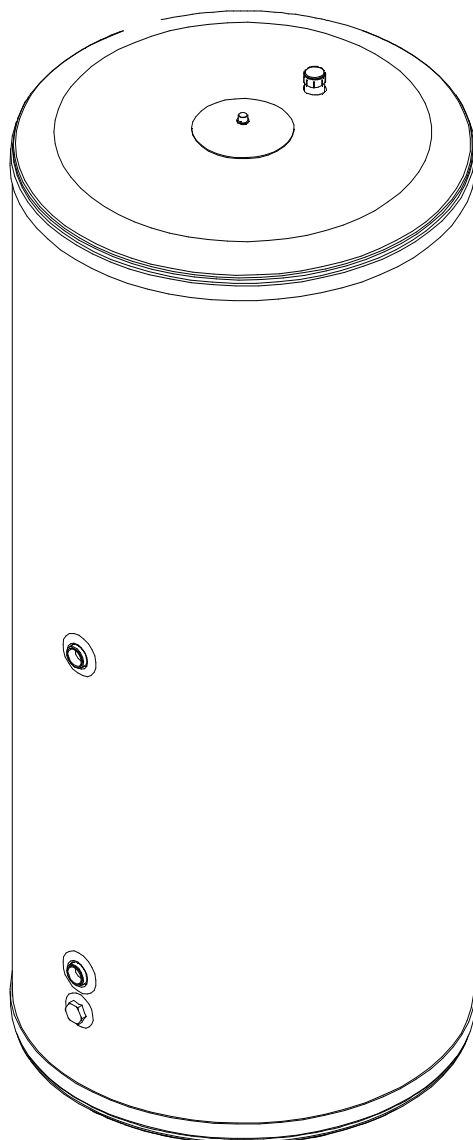


INSTALLATION AND OPERATING INSTRUCTIONS

- SANIT S 500
- SANIT S 750
- SANIT S 1000
- SANIT S 1000 SBH



DOMUSA
T E K N I K

Thank you for choosing a **DOMUSA TEKNIK** product. From the range of **DOMUSA TEKNIK** products you have chosen the **Sanit** model, a stainless steel hot water tank for producing domestic hot water (DHW) by means of a coil, which together with a **DOMUSA TEKNIK** heating boiler will provide the ideal level of comfort for your home, provided it is accompanied by a suitable hydraulic installation.

This manual forms an essential part of the product and it must be given to the user. Read the warnings and recommendations in the manual carefully, as they contain important information on the safety, use and maintenance of the installation.

These hot water tanks are to be installed by skilled personnel only, in accordance with the legislation in force and following the manufacturer's instructions.

The start-up of these hot water tanks and any maintenance operations must only be carried out by **DOMUSA TEKNIK's** Authorised Technical Assistance Services.

Incorrect installation of these hot water tanks could result in damage to people, animals or property, and the manufacturer will hold no liability in such cases.

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Sanit

1 PRECAUTIONS

Sanit hot water tanks must be installed by qualified staff in compliance with applicable regulations.

Any work must be carried out by the official Technical Assistance Service, as any changes to its configuration could cause functioning errors and could damage the system and its surrounding environment.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

The electrical main power supply connection must respect the current legislation, making possible a complete disconnection of the tank, in order to make any maintenance operation safely. Look "Diagram and electrical connection" chapter.

The hydraulic installation must be made by qualified technicians, in compliance with the current installation regulations.

1.1 Frost precautions

When there is danger of frost, and particularly in areas with very low temperatures, precautions will need to be taken to prevent damage to the installation. It is recommendable to add anti-freeze to the water in the primary circuit of the tank. The anti-freeze used must be compatible with public health regulations and it must not be toxic. **DOMUSA TEKNIK** recommends the use of propylene glycol, consulting the product manufacturer before use.

If the installation is to be out of use for a long period, **drain all the water from the tank.**

1.2 Water characteristics

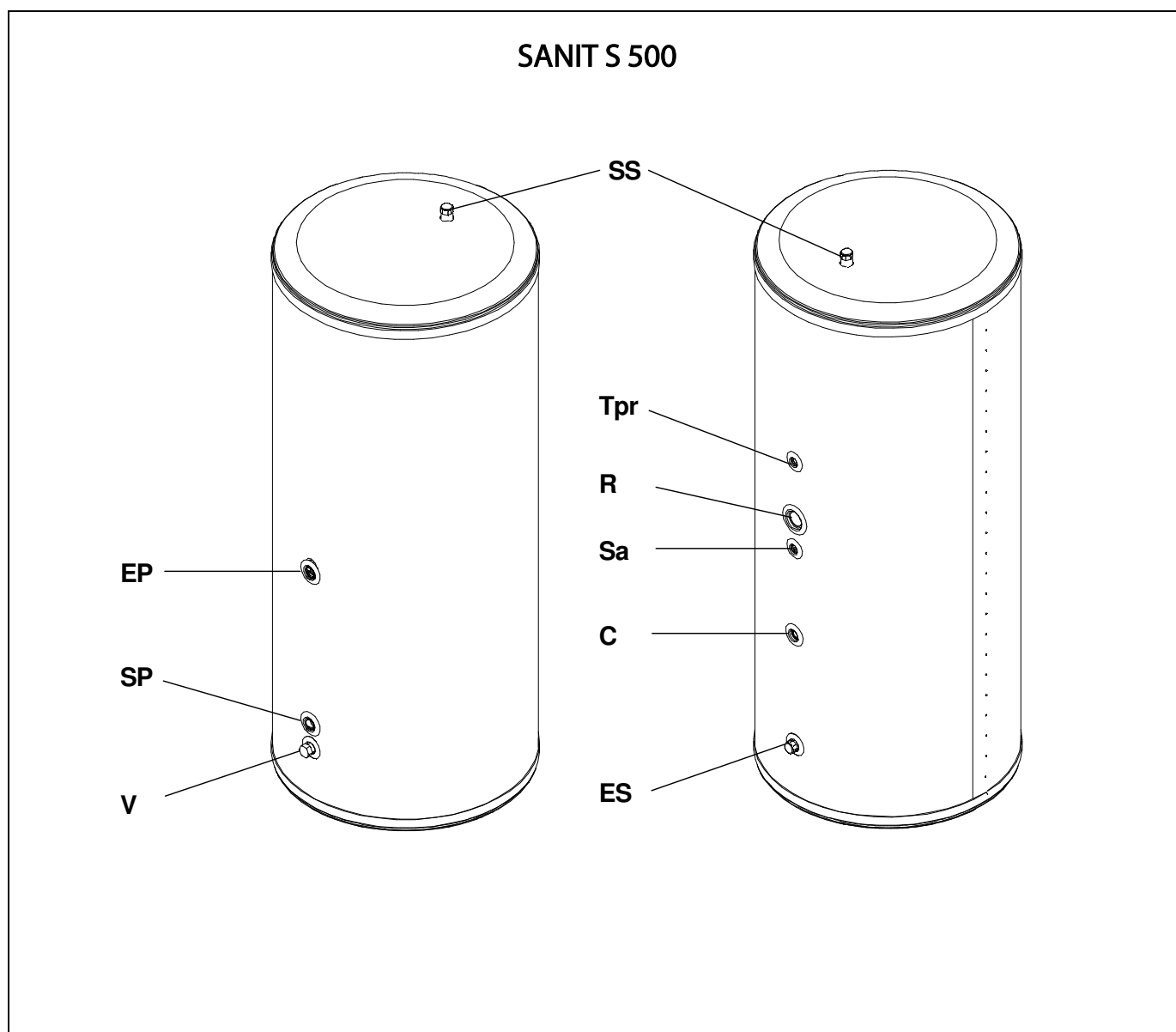
The water must comply with the characteristics defined in the Technical Building Code, and must be treated if necessary.

The water must be in accordance with Directive 98/83 / EC on the quality of water intended for human consumption. Special attention must be paid to the following parameters:

- Maximum chloride concentration: 250 mg / l.
- Maximum sulphate concentration: 250 mg / l.
- Maximum concentration of chlorides and sulphates: 300 mg / l.
- Maximum conductivity: 800 μ S / l.

When the chlorine concentration in the Domestic Water exceeds 250 mg / l., it is recommended that anti-corrosion protection should be applied to the inside of the inter-accumulator so as to avoid its premature deterioration. As an option **DOMUSA TEKNIK** supplies electronic cathodic protection that is suitable for the Sanit inter-accumulator range. To install it, read carefully the assembly instructions that are provided with the same.

2 LIST OF COMPONENTS



EP: Primary inlet.

SP: Primary outlet.

ES: Domestic cold-water inlet.

SS: Domestic hot water outlet.

V: Drain socket.

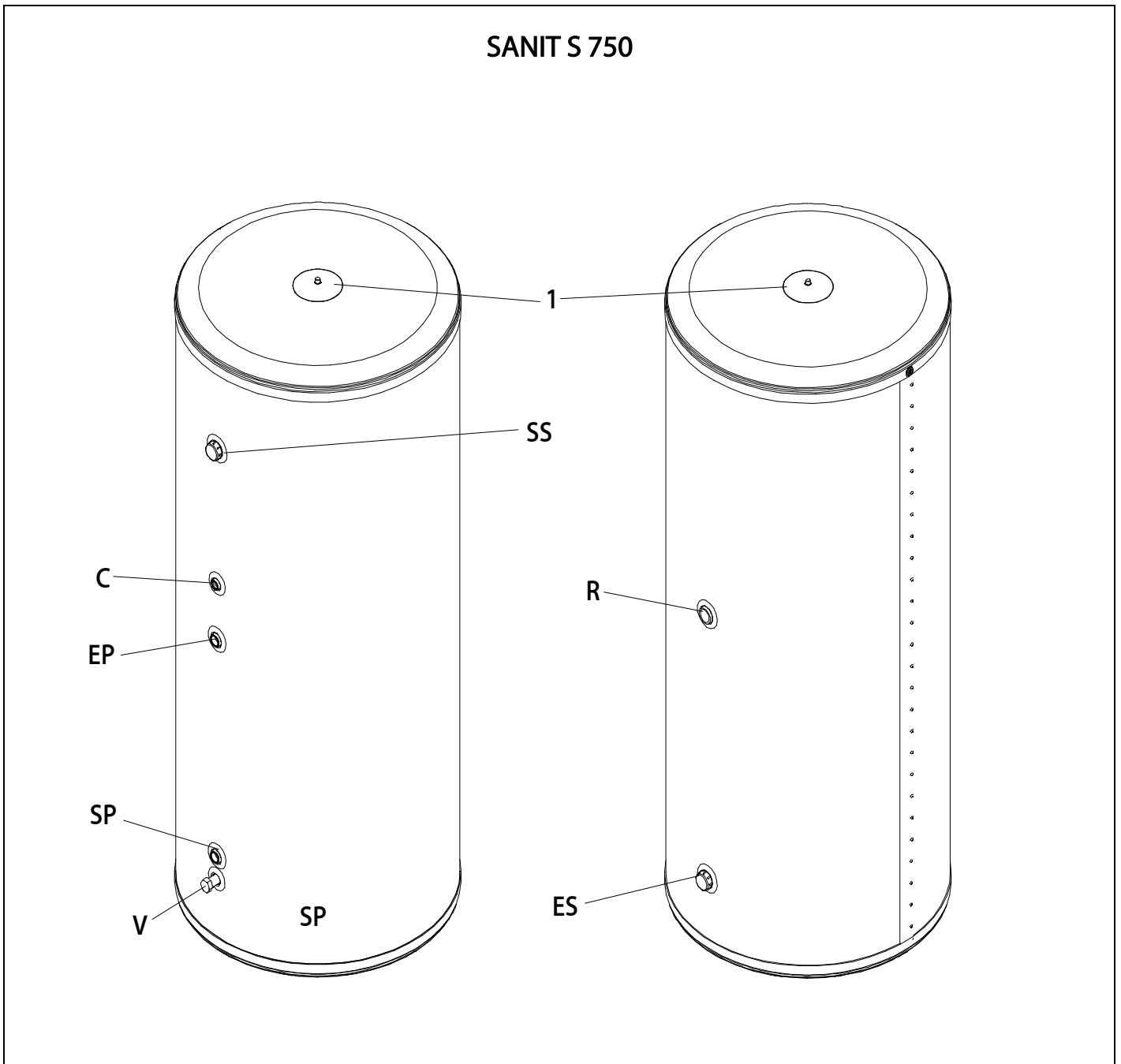
R: Resistance socket.

C: Recirculation socket.

Sa: DHW tank temperature probe

Tpr: Cathode protection connector

Sanit



1. Bridge cover.

SP: Primary outlet.

EP: Primary inlet.

ES: Domestic cold-water inlet.

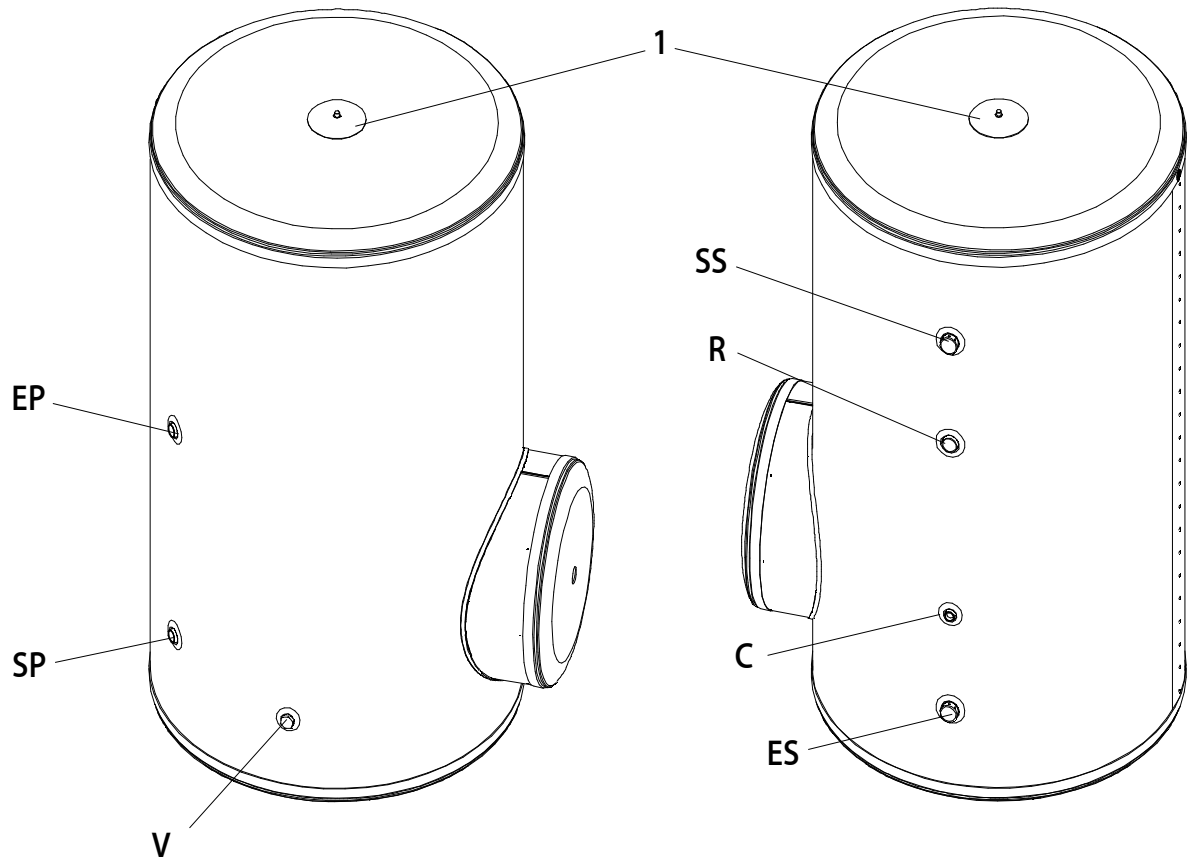
SS: Domestic hot water outlet.

V: Drain socket.

R: Resistance socket.

C: Recirculation socket.

SANIT S 1000 / 1000 SBH



1. Bridge cover.

SP: Primary outlet.

EP: Primary inlet.

ES: Domestic cold-water inlet.

SS: Domestic hot water outlet.

V: Drain socket.

R: Resistance socket.

C: Recirculation socket.

Sanit

3 INSTALLATION INSTRUCTIONS

3.1 Hydraulic installation

Sanit hot water tanks are prepared to be permanently connected to domestic water supply network, by means of DHW inlet. The maximum pressure admitted is specified in "Technical characteristics" chapter.

The hydraulic installation must be made by qualified technicians, in compliance with current installation regulations and taking the following recommendations into account:

- The secondary circuit (or domestic water circuit) is to be equipped with a safety valve, calibrated to a maximum of 0,7 MPa (7 bar).
- The safety valve outlet must always lead to a drain.
- To avoid continuous leaking from the D.H.W. safety valve, we recommend the installation of a D.H.W. expansion cell.
- The primary circuit (or heating circuit) for the double chamber tanks must be provided with a safety valve, calibrated to a maximum of 3 bar.
- **After installing the tank, firstly fill and pressurise the secondary circuit (domestic water circuit).**
- **After doing so, proceed to fill the primary circuit. Ensure the secondary circuit is full before filling the primary circuit.**
- Place dielectric sleeves on the secondary circuit connections.
- If the cold-water pressure is higher than the pressure the appliance is designed for, a pressure reducer should be installed, calibrated to no higher than the design pressure.
- To prevent heat loss through the hot water pipes in accumulation systems, an anti-thermal siphon must be installed at the hot water tank outlet. The hot water pipe must be insulated (at least up to the anti-thermal siphon).
- A copper return circuit should not be used.

To drain the hot water tank, first drain the primary circuit and then the secondary circuit.

3.2 Location

The hot water tank must not be installed outdoors or in a place where it may be exposed to weather inclemencies.

To optimise energy use, the hot water tank should be installed as close as possible to the hot water generator.

When choosing a location, taken into account the weight of the full hot water tank, and make sure it is protected against frost. The pipes should be lagged in compliance with heating regulations.

3.2.1 Equipment / options

Although Sanit units are equipped with all the necessary components for functioning, **DOMUSA TEKNIK** offers several optional components for cases in which special features are required.

3.2.2 Cathodic protection

If the chloride concentration in the domestic hot water is higher than 250 mg/l, we recommend installing a cathodic protection inside the storage heater to avoid premature wear to the hot water tank. **DOMUSA TEKNIK** optionally supplies a suitable electronic cathodic protection for its range of storage heaters. To install it, carefully read the assembly instructions supplied with the cathodic protection.

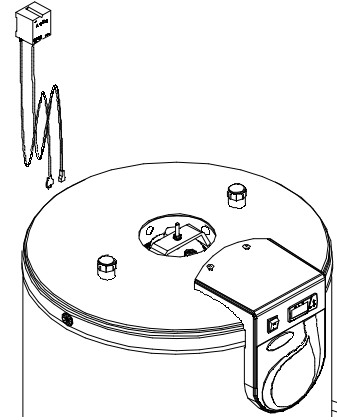


Figure 1

3.2.3 Electrical element

All Sanit hot water tanks have a socket for connecting an electrical element. **DOMUSA TEKNIK** optionally supplies three elements, of 1.5, 2.5 and 3.5 kW. To install them, carefully read the assembly instructions supplied with the elements.

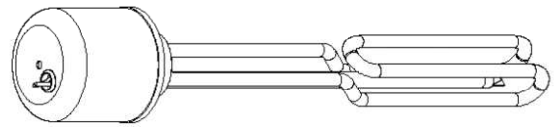


Figure 2

3.2.4 18L DHW expansion tank

Due to the increase in the temperature of the hot water stored, the pressure in the hot water tank increases, and **DOMUSA TEKNIK** therefore optionally offers this DHW compensation tank for the Sanit 500, 750 and 1000 models. To install the tank, carefully read the assembly instructions supplied with it.

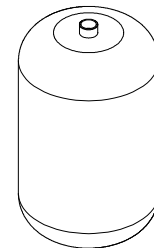


Figure 3

Sanit

3.2.5 1" dielectric sleeves

When the installation material is different from the hot water tank socket material, a galvanic couple may form, deteriorating the hot water tank. To prevent this from happening, **DOMUSA TEKNIK** recommends fitting dielectric sleeves to the secondary circuit connections if the main piping is not made of stainless steel. To install the dielectric sleeves, carefully read the assembly instructions supplied with them.

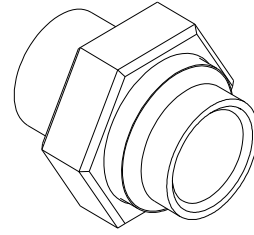


Figure 4

3.2.6 DHW safety valve

All Sanit hot water tanks are designed to work at a maximum DHW pressure of 0,7 MPa (7 bar). To prevent this pressure from being exceeded, **DOMUSA TEKNIK** recommends fitting a safety valve to the DHW circuit, calibrated to a maximum of 0,7 MPa (7 bar). The safety valve will always discharge into a drain. To install the valve, carefully read the assembly instructions supplied with it.

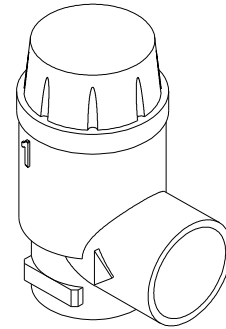


Figure 5

4 MAINTENANCE

To keep the boiler/hot water tank unit in perfect working order, both appliances should be inspected yearly by **DOMUSA TEKNIK** authorised technicians. In particular, the following are recommended:

- The inside of the hot water tank should be thoroughly cleaned once a year. The primary circuit should be drained first, before draining the hot water tank.
- If the hot water tank includes electronic cathode protection, this should be inspected once a year to ensure it is functioning correctly.
- The pressure of the primary installation must be kept between 1 and 1.5 bars.
- Make sure the safety valve and the drain valve are working correctly.
- If the installation has been out of use for a long time, check the hot water tank feed pump is working correctly.

It is recommended for the user to periodically check the pressure and temperature levels of the hot water tank and the state of the valves, connections and accessories.

5 START-UP

For the **guarantee to be valid**, the hot water tank must be started up by an **Official DOMUSA TEKNIK Technical Assistance Service**. Before starting it up, the following must be ensured:

- The installation is filled with water and the draining has been done correctly.
- The primary flow and return connections and the hot and cold water connections have been correctly made.
- There are no leaks from the splices and connections.

6 DELIVERY OF THE INSTALLATION

After the initial start-up of the appliance, the Technical Assistance Service will explain to the user how the hot water tank works, making any observations they consider relevant.

It is the responsibility of the installer to explain to the user the functioning of any control devices belonging to the installation and not supplied with the hot water tank.

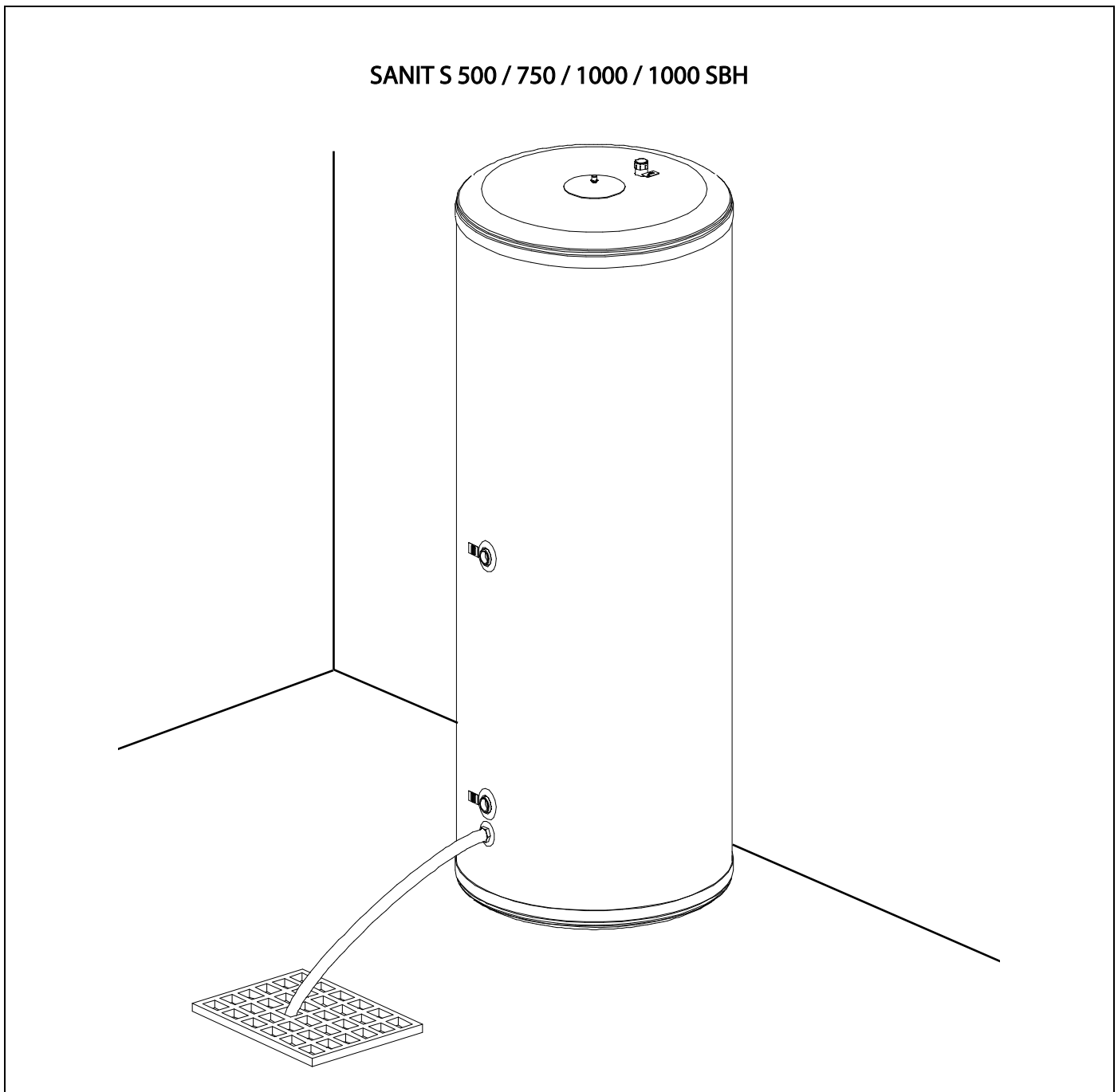
Sanit

7 DRAINING THE TANK

To drain the tank, **Sanit S 500, 750, 1000, 1000 SBH**, remove the brass plug, then connect a hose to the drain socket on the bottom of the tank.

Check the hose is correctly connected to the tank drain socket.

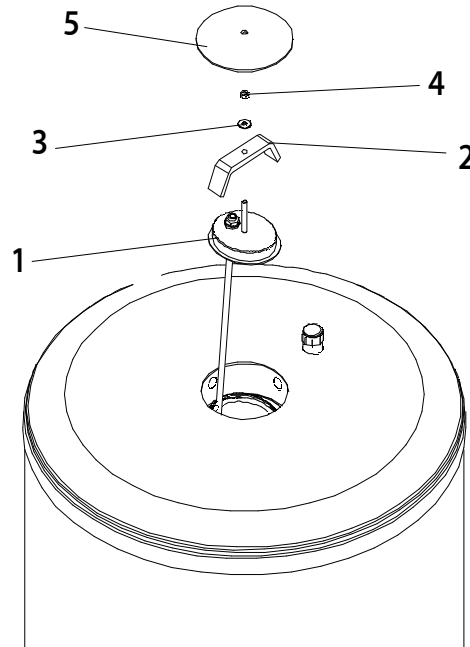
Run the hose to a nearby floor drain. This must be at a lower level than the tank. The water begins to flow, and wait until it drains completely.



8 SPARES LIST

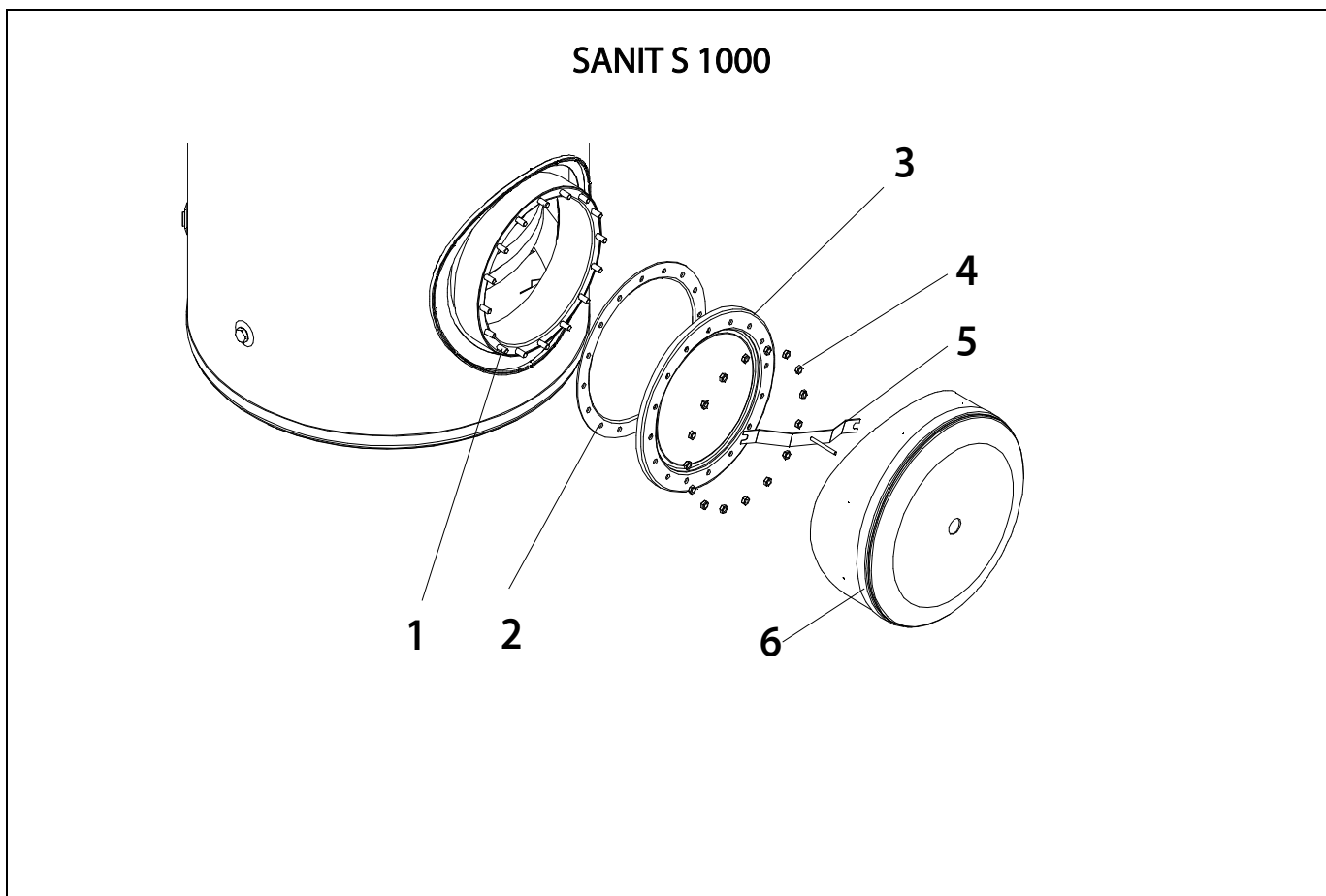
8.1 Hot water tank

COMMONS SPARE PARTS



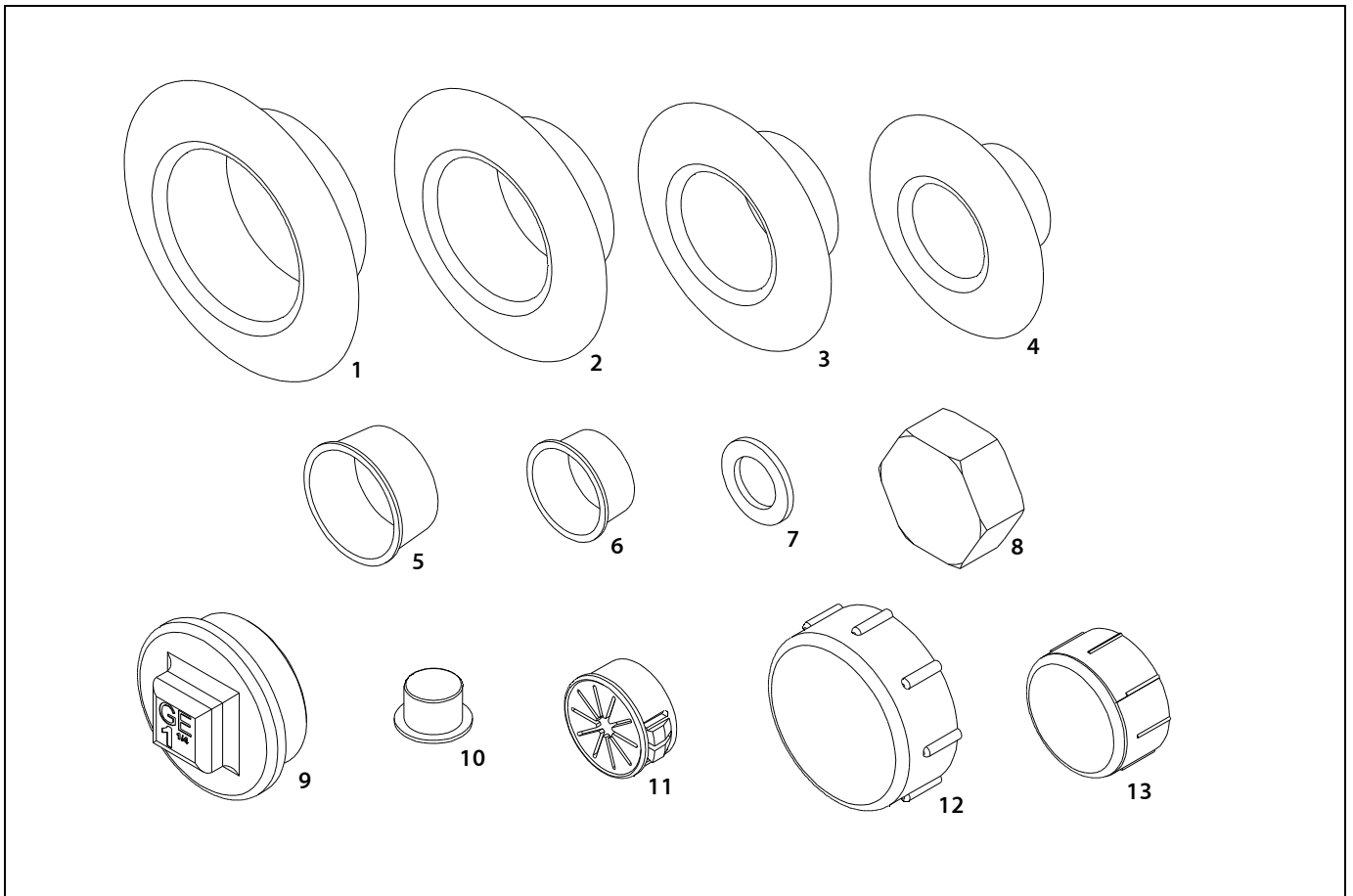
Pos	Name	SANIT S 750	SANIT S 1000 / 1000 SBH
		Code	
1	Elliptical plug	SCON000090	SCON000430
2	Bridge	SPIN000006	
3	M8 washer	CTOR000080	
4	M8 nut	CTOR000092	
5	Bridge cover	SOPE000025	

Sanit



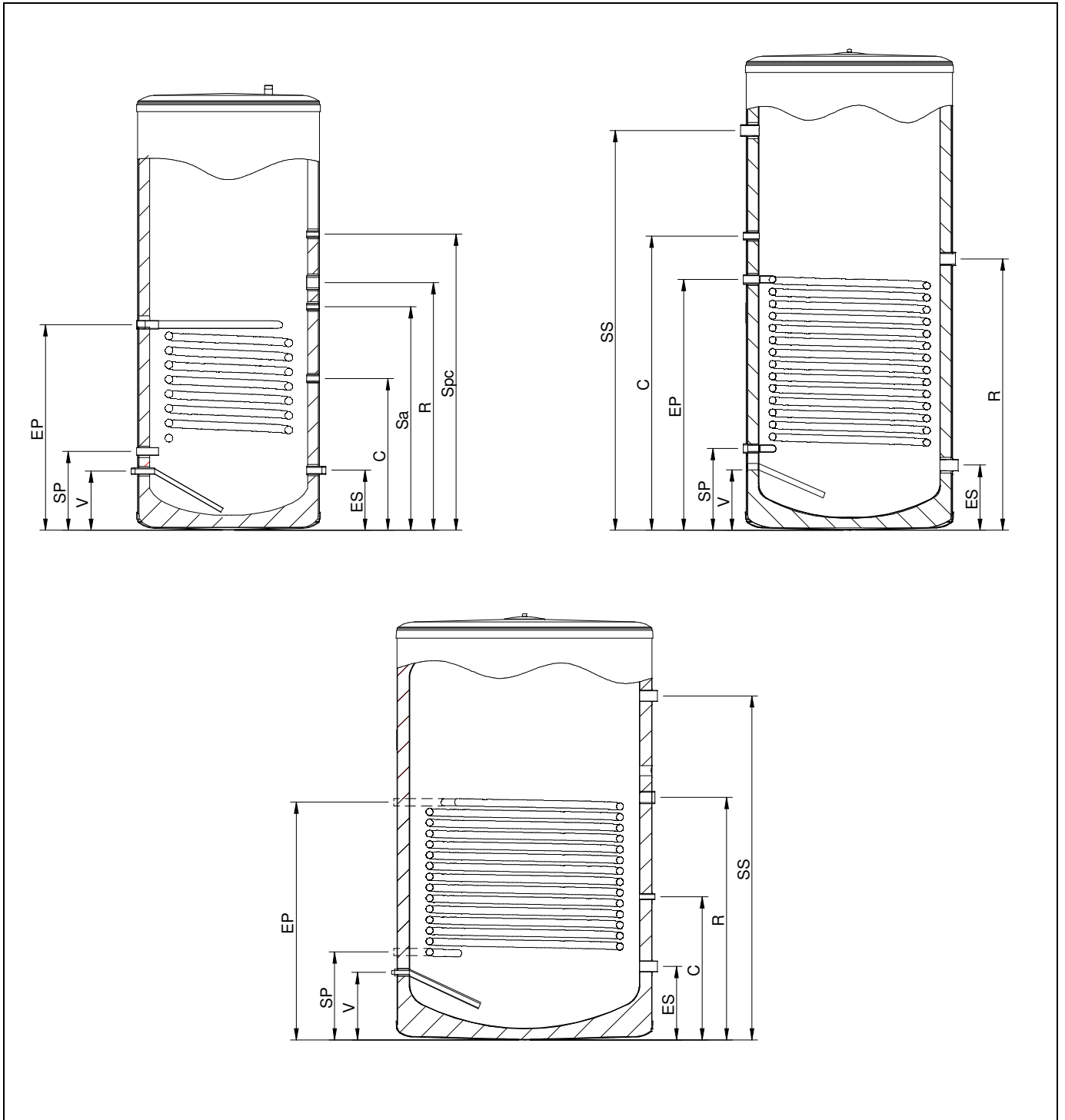
Pos	Code	Name
1	-	Screw M14 x 35
2	-	Lateral joint
3	-	Lateral inox. cover
4	-	M14 Nut
5	SCON001743	Lateral cover support
6	SCON001748	Lateral cover

8.2 Plugs and embellisher



Pos	Code	Name	Sanit S 500	Sanit S 750	Sanit S 1000
1	CFER000087	1 1/2" black embellisher	1	3	3
2	CFER000086	1" black embellisher	2	2	2
3	CFER000085	3/4" black embellisher	3	2	
4	CFER000084	1/2" black embellisher	2		
5	CFER000134	1" red tapered plug	2	2	2
6	CFER000082	3/4" red tapered plug	1	1	1
7	CFOV000158	3/4" seal	1	1	1
8	CFOL000037	F 3/4" brass plug	1	1	1
9	CFOL000021	M 1 1/2" chromed plug	1	1	1
10	CFER000090	Nut cover	1	1	1
11	CFER000083	Seal	1	1	1
12	CFER000080	F 1 1/2" red plug		2	2
13	CFER000008	F 1" red plug	2		

9 DIAGRAMS AND MEASUREMENTS



		MODEL			
			Sanit S 500	Sanit S 750	Sanit S 1000 / SBH
Drainage	V	mm	220	265	280
		∅	1/2" M	1/2" M	1/2" M
Primary outlet	SP	mm	295	340	365
		∅	1" H	1" H	1" H
Primary inlet	EP	mm	925	1040	985
		∅	1" H	1" H	1" H
Cold water inlet	ES	mm	220	270	305
		∅	1" M	1 1/2" M	1 1/2" M
Recirculation socket	C	mm	600	1220	595
		∅	3/4" H	3/4" H	3/4" H
Resistance socket	R	mm	1000	1125	1115
		∅	1 1/4" H	1 1/4" H	1 1/4" H
Hot water outlet	SS	mm	215	1655	1425
		∅	1" M	1 1/2" M	1 1/2" M
DHW tank temperature probe	Sa	mm	900		
		∅	1/2" H		
Cathode protection connector	Tpr	mm	1200		
		∅	1/2" H		
Base measurement		∅ (mm)	760	860	1060
Height measurement		mm	1760	1940	1730

Sanit

10 TECHNICAL CHARACTERISTICS

MODEL		Sanit S 500	Sanit S 750	Sanit S 1000 / SBH
Total volume	L	500	745	1000
Max. storage temperature	°C	70	70	70
Max. working pressure of hot water tank	MPa bar	0,7 7	0,7 7	0,7 7
Max. primary temperature	°C	85	85	85
Max. primary working pressure	MPa bar	1 10	1 10	1 10
Empty weight	Kg	120	166	240
Full weight	Kg	620	916	1240
Exchange surface	m ²	1,8	2,4	3,2

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TEKNIK

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DOMUSA TEKNIK, reserves the right to make modifications of any kind to its product characteristics without prior notice.



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