

# **simex**



**Instructions for installation and Use**

Dear buyer, we thank you for purchase of our product.

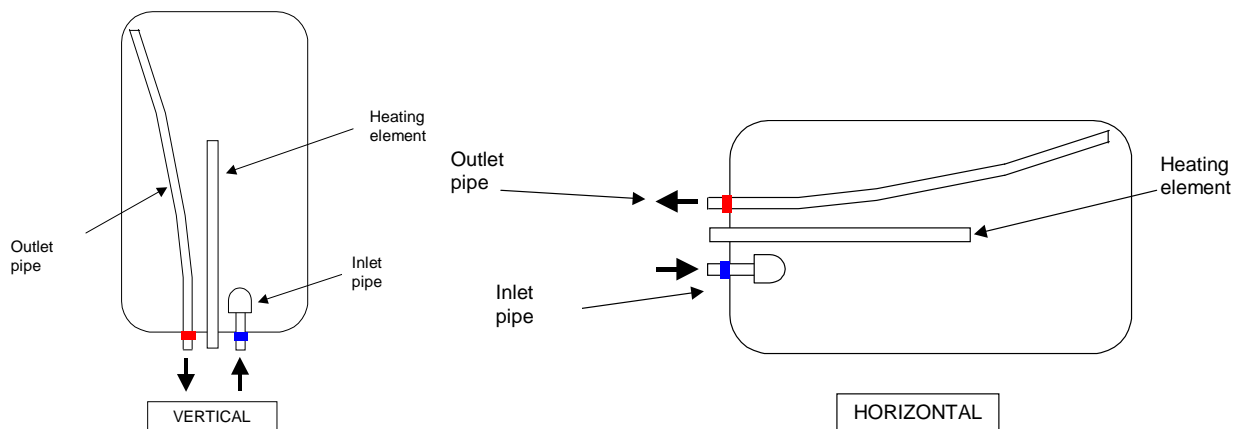
Prior to installation and first use of the electric water heater, please carefully read these instructions.

This water heater has been manufactured in compliance with the relevant standards and tested by the relevant authorities as indicated by the Safety Certificate and the Electromagnetic Compatibility Certificate. The technical characteristics of the product are listed on the label affixed between the inlet and outlet pipes. The installation must be carried out by qualified staff. All repairs and maintenance work within the water heater, e.g. lime removal or inspection/replacement of the protective anticorrosion anode, must be carried out by the authorised maintenance service provider.

## INSTALLATION MANUAL

### 1.- BUILDING-IN

The water heater shall be built-in as close as possible to the outlets. It has to be fitted to the wall using appropriate rag bolts with minimum diameter of 8 mm. The wall with feeble charging ability must be on the spot where the water heater shall be hanged suitably reinforced. The water heater may be fixed upon the wall either vertically or horizontally with water connections on left side.

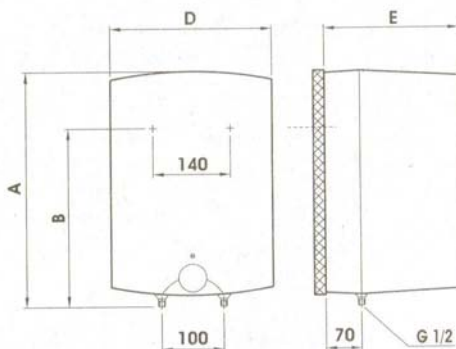


### 2.- TECHNICAL PROPERTIES OF THE APPLIANCE - SI10 AND SI30 VERTICAL INSTALLATION ONLY

Model	SI10- SI30	SI50	SI80	SI100	SI150	SI200
Volume [ l ]	10-30	50	80	100	150	200
Rated pressure [ MPa ]	0,9					
Weight / Filled with water [ kg ]	8/18-15.5/45	21/71	27/107	31/131	41/191	65/255
Anti-corrosion protection of tank	Magnesium anode					
Connected power [ W ]	2000					
Voltage [ V~ ]	230					
Heating time to 75°C (1) [ h ]	22min/1 <sup>05</sup>	1 <sup>55</sup>	3 <sup>05</sup>	3 <sup>55</sup>	5 <sup>45</sup>	7 <sup>40</sup>
Quantity of mixed water at 40°C [ l ]	18/49	95	146	193	282	360
Energy consumption (2) [ kWh/24h ]	0.33/0,90	1,23	1,57	1,78	2,06	3,00

1) Time for heating of the whole volume of heater with electric immersion heater by entering temperature of cold water from water supply 15°C.

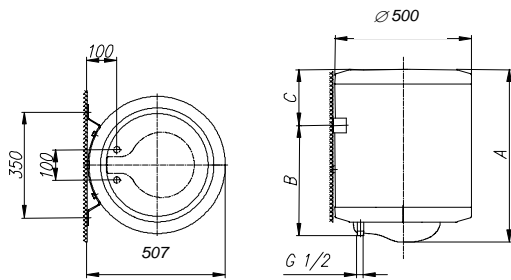
2) Energy consumption to maintain stable temperature of water in the water heater 65°C at surrounding temperature 20°C, measured according to DIN 44532.



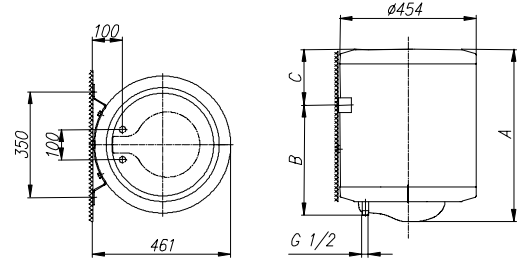
	A	B	D	E
SI10	500	398	350	265

	A	B	C
SI30/SI10	459/500	275/398	173
SI50	561	365	185
SI80	766	565	190
SI100	926	715	200
SI150	1296	1065	220
SI200	1505	1050	435

installation dimensions of the water heater in mm



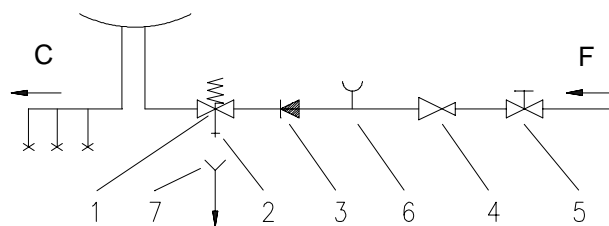
200 L.



30-150 L.

### 3.- CONNECTION TO THE WATER SUPPLY

The water heater connections for the in-flowing and out-flowing water are colour-coded. The connection for the supply of cold water is coloured blue, while the hot water outlet is coloured red. The water heater may be connected to a closed-circuit pressure system which enables several points of use. For safety reasons the supply pipe must be fitted with a return safety valve or alternatively, a valve of the safety class that prevents the pressure in the tank from exceeding the nominal pressure by more than 0.1 MPa. The heating of water in the heater causes the pressure in the tank to increase to the level set by the safety valve. As the water cannot return to the water supply system, this can result in the dripping from the outlet of the safety valve. The drip can be piped to the drain by installing a catching unit just below the safety valve. The drain installed below the safety valve outlet must be piped down vertically and located in the environment that is free from the onset of freezing conditions. In case the existing plumbing does not enable you to pipe the dripping water from the return safety valve into the drain, you can avoid the dripping by installing a 3-litre expansion tank on the inlet water pipe of the boiler. You should ensure that the return safety valve is functioning properly by checking it on a regular basis i.e. every 14 days. To check the valve, you should open the outlet of the return safety valve by turning the. The valve is operating properly if the water comes out of the nozzle when the outlet is open.



Legend:

- 1- Return safety valve
- 2- Checking valve connection
- 3- Non-return valve
- 4- Pressure reduction valve
- 5- Closing valve

- 6- Checking fitting
- 7- Funnel with outlet connection

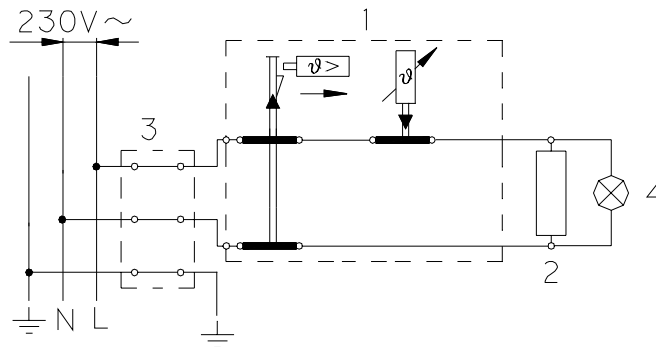
H - Cold water  
T - Hot water

## 4.- CONNECTION OF THE WATER HEATER TO THE ELECTRIC NETWORK

Prior to the connection to the electric network the connection cable must be built in. For it the protection plate must be removed from the water heater. The connection of water heater to the electric network must be performed according to standards for electric installation. Because the water heater has no components which would permanently separate it from the electric network, upon the cable connection between it and permanent installation a switch must be installed which breaks both power supply poles having between the open contacts a gap at least 3 mm wide.

### Legend:

- 1 - Thermostat and bipolar thermal fuse
- 2 - Electric heater
- 3 - Connection terminal
- 4 - Pilot lamp
- L - Live conductor
- N - Neutral conductor
- ⊥ - Earthing conductor



Electric installation

**CAUTION: Prior to each reach in the inner of the water heater it must absolutely be disconnected from the electric network!**

## USER'S MANUAL

### USE AND MAINTENANCE

After the connection to water and electric network the water heater is ready for use. Temperature of water in the appliance is automatically controlled by the thermostat which is adjusted by the manufacturer. The adjustment can be modified by turning of the adjustment screw upon the thermostat in the inner of the water heater. The adjustment range reaches between 20°C and 75°C. We do not recommend any change of the manufacturers adjustment, thus this ensures the most economical consumption of electric energy and the smallest excretion of lime-stone. The operation of electric immersion heater is shown by pilot light. When the heater shall not be used during a longer time, it must be disconnected from the electric network. At any risk for freezing of water in the water heater, the water must be emptied from it. The external parts of the water heater may be cleaned with a mild detergent solution. Do not use solvents and abrasives. Regular preventive maintenance inspections ensure faultless performance and long life of your heater. The first of these inspections should be carried out by the authorised maintenance service provider about two years from installation in order to inspect the wear of the protective anticorrosion anode and remove the lime coating and sediment as required. The lime coating and sediment on the walls of the tank and on the heating element is a product of quality, quantity and temperature of water flowing through the water heater. The maintenance service provider shall also issue a condition report and recommend the approximate date of the next inspection.

**Never try to repair any possible faults of the water heater by yourself, but inform about it the nearest authorised service workshop.**