



USER'S AND INSTALLATION MANUAL

APARICI – SC



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

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

This Electrical Thermo has been manufactured in compliance with the most demanding quality standards and following the established in the European Norms of Electrical Safety and Electromagnetic Compatibility. The technical characteristics of the appliance are indicated on the nameplate located on the back of the lower lid of the thermostat.

The installation must be carried out by qualified personnel. Any repair or maintenance work (removal of calcareous scale, change or revision of the anode, etc.) must be carried out by APARICI Authorized Technical Assistance Services.

INSTALLATION MANUAL

Technical Information:

MODEL	SC 30	SC 50	SC 80	SC 100
CAPACITY	30	50	80	100
ELECTRICAL CHARACTERISTICS:				
VOLTAGE (V)	230	230	230	230
FREQUENCY (Hz)	50/60	50/60	50/60	50/60
POWER (W)	2000 W (1300W + 700W)	2000 (1300W + 700W)	2000 (1300W + 700W)	2000 (1300W + 700W)
CLASS	I	I	I	I
PROTECTION DEGREE	IPX4	IPX4	IPX4	IPX4
REGULATION THERMOSTAT TEMPERATURE (°C)	75	75	75	75
KIND OF REGULATION THERMOSTAT	BULB	BULB	BULB	BULB
KIND OF SAFETY THERMOSTAT	BULB	BULB	BULB	BULB + 'clixon' (bimetal)
EXTERNAL REGULATION	YES	YES	YES	YES
TYPE OF RESISTANCE	SUBMERGED BLINDADA	SUBMERGED BLINDADA	SUBMERGED BLINDADA	SUBMERGED BLINDADA
HYDRAULIC CHARACTERISTICS:				
ENAMELLED TANK	YES	YES	YES	YES
MAGNESIUM ANODE	YES	YES	YES	YES
NOMINAL PRESSURE	7 bar	7 bar	7 bar	7 bar
SAFETY VALVE PRESSURE	8 bar	8 bar	8 bar	8 bar

DIMENSIONS				
MODEL	SC 30	SC 50	SC 80	SC 100
WATER CONNECTIONS	G1/2'	G1/2'	G1/2'	G1/2'
A	640	725	1030	1273
B	454	534	534	497
C	200	200	500	275+275
D	316	316	316	316
E	100	100	100	100
F	260	300	300	317
G	195	231	238	416
H	240	280	280	297

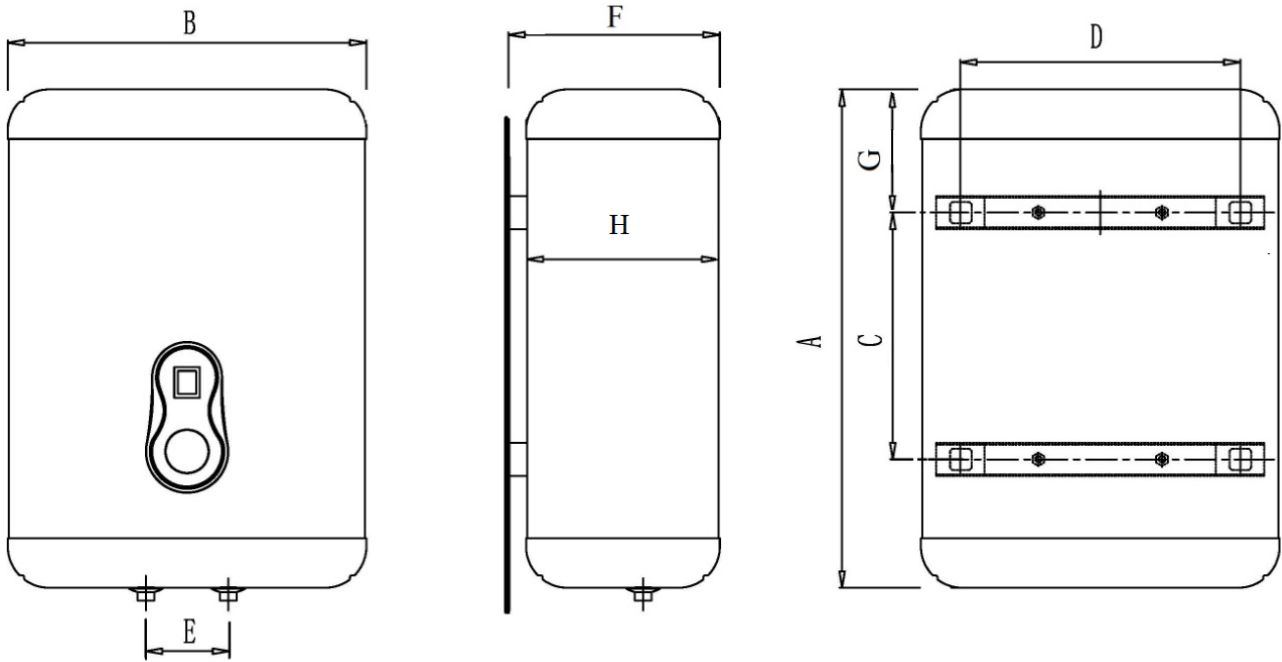


fig.-1 – Model APARICI SC

1.- SITE OF THE APPLIANCE.

In order to minimize losses of hot water, it is convenient to locate the thermo as close as possible to the points of use and if possible as close to the outlet as possible to reduce heat losses.

The location will be chosen so that the inlet and outlet ducts can be easily connected with as few elbows as possible, while at the same time permitting the replacement of the resistance.

2.- APPLIANCE WALL HANG

Due to its particular design, the APARICI electrical terms in this series are intended to be installed vertically as shown in Fig. 2 with the cold water inlet (F) on the right and the hot water outlet (C) on the left.

Note: The safety and check valve supplied with the appliance must be placed in the cold water intake pipe (F). In all cases a free space of at least 60 cm must be left. Between the log cap of the thermostat and the nearest wall.

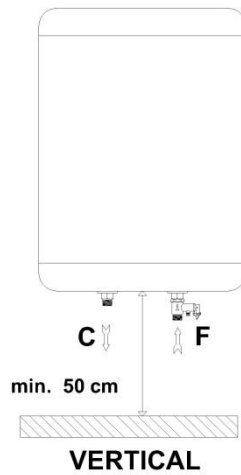


fig 2.- Models APARICI SC

In all cases the wall must be thick enough to withstand the water filled thermostat and the anchorage must be made by four 8 mm diameter screws. In cases where the wall is sufficient but rather thin it is advisable to use reinforcing plates.

3.- CONNECTION TO THE WATER SUPPLY.

Before connecting the appliance to the water mains, it must be taken into account the provisions on the installation of the same in the Technical Building Code, the Regulation of Thermal Installations in Buildings and the EN-UNE standards for Appliance Safety Appliances and Analogs part 2: Particular requirements for electrical terms. According to these provisions, a stopcock (fig. 3 - '1') must be installed at the entrance and exit of the thermo to allow its isolation from the network in case of repair or replacement. In addition, the appliance must incorporate a safety and retention valve (fig 3 - '2') which, on the one hand, will prevent the return of hot water to the cold grid and, on the other hand, will act when superior overpressures occur To the rating of the appliance.

This overpressure is due to the increase in the volume of water contained in the thermo, which occurs during heating, which is why the valve will drip approximately 3% of the capacity of the appliance.

To evacuate the water droplets that are released through the valve, a drain pipe must be installed.

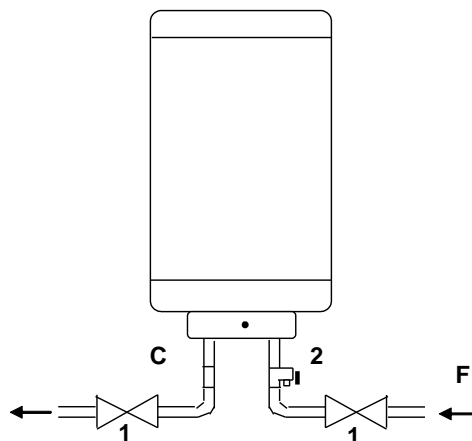


Fig-3 Hydraulic installation

Putting into service:

Before connect hydraulically the thermo to water network lets the water flow some to time to remove all dirty which could damage the safety valve and block the diffuser.

Fill the thermos by leaving the hot water tap open to expel air from the appliance; Turn off the tap when the water comes out. When the water is hot, the inlet and outlet fittings must be retightened to avoid any possible water leakage.

It is advisable to ensure that the pressure of the water system does not exceed the nominal pressure of the appliance. If this is the case, it is necessary to install a pressure regulator immediately after the water meter in the house.

Before operating the electric heater, make sure that the appliance is properly filled with water by opening a hot water faucet, and that the electrical installation has been completed.

4.- CONNECTION OF THE THERMO TO THE ELECTRIC NETWORK.

The electrical installation must be carried out in accordance with the regulations in force by authorized installers.

These models must be connected to the mains by the plug of the power supply cord supplied with the appliance. Therefore the only operation to be performed, from the electrical point of view, will be the connection of this cable to a current base. If the flexible power cable of this appliance is damaged it must be replaced by the special power cable APARICI part number 91027.

It is also essential to always install an omnipolar switch to the mains supply, with a minimum opening between the 3 mm contacts.

The following diagram shows the electrical diagram of each of the models:

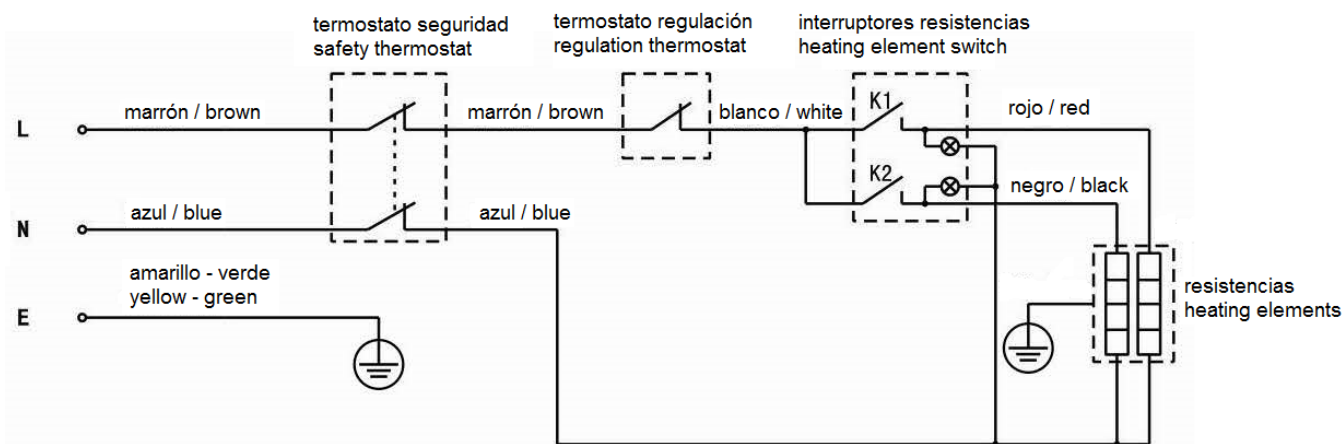


Fig. - 4 Single line diagram APARICI - SC

5.- ELECTRICAL CONNECTIONS STANDARDS.

The electrical installation must fulfil the international standards CEI 64-8. According to these standards, electrical appliances must be installed following the below indications at bathrooms and WC:

- 1.- zone 0: Installation is totally forbidden at this area. It is also forbidden at zone 1 if it is a prefabricated shower cabin.
- 2.- zones 1 and 2: IPX4 appliances with a wire which allows connections 1,2 m from shower vertical and with an additional RCS switch.
- 3.- In zone 3 you can install appliances whose protection index against water penetration is IPX1.
- 4.- The earth connection of the thermo is compulsory. If the premises or house does not have an earth line, we recommend using a differential switch

For a correct and safe installation of the electrical terms, it is recommended to locate it in zone 3 (fig. 5).

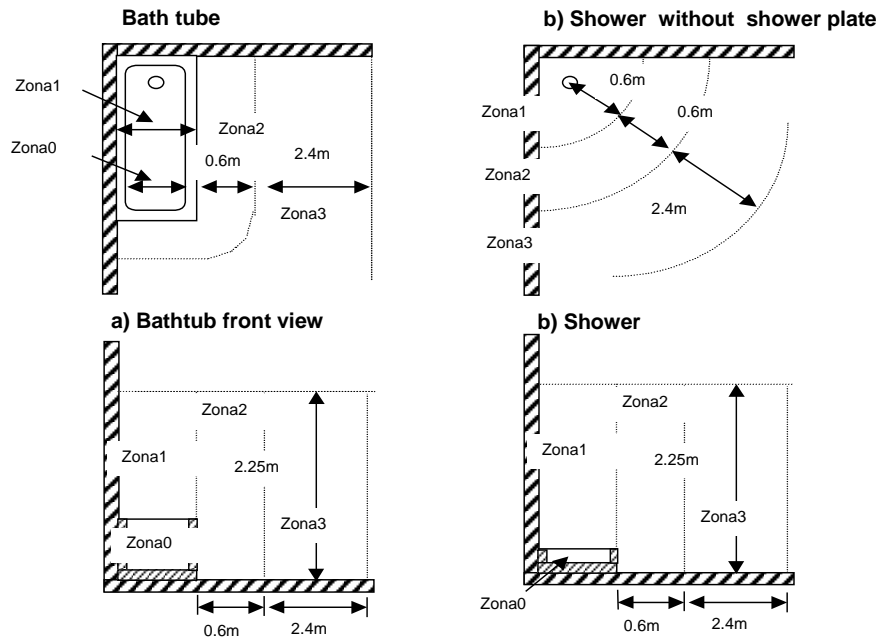


Fig. – 5

6.- INSTALLATION RECOMMENDATIONS

For the correct operation and maintenance of the electrical terms manufactured by APARICI, please take into account the following considerations:

1. The maximum and minimum pressures of water inside the house must be kept within the limits established by the Technical Building Code between 1.5 and 5 bar. Also, as indicated in point 3 of this manual, it is mandatory to install a shut-off cock at the inlet and outlet of the appliance and a safety and check valve at the inlet.
2. It is compulsory to install a drain pipe to evacuate water drops from safety valve. Possible damages caused at home due to this drops are not responsibility of APARICI.
3. If water pressure is higher than 2.5 bar we recommend the installation of a pressure reduction valve and an expansion vessel. The pressure reduction valve must be installed as close as possible from the house water inlet pipe.
4. The network water must have a minimum quality characteristics to be acceptable under corrosion point of view. The limits established by APARICI are the below ones:
 - Ryznar index less than 7.
 - Conductivity at 25 °C < 350 $\mu/\Omega\cdot\text{cm}$
 - Chlorine (Cl⁻) and sodium (Na⁺) less than 75 mg/l
5. The use of chemical scale eliminators is allowed but the hardness must be regulated between 18°F and 31 °F. In case this level of lime is not enough for the user, a by-pass must be installed that prevents the water from entering the water softener directly into the thermo.
6. Finally, the thermo must be installed in a place of easy accessibility that allows the replacement of the components or the repair of it in a simple and safe way (see, additionally, Sections 1 and 2 of the Installer's Manual). In this way the installation of the thermos in skylights, false ceilings, attics, cabinets, etc ... is not recommended. In any case, it is the responsibility of the APARICI Technical Service to determine if the location of the device is acceptable or not.

USER'S MANUAL

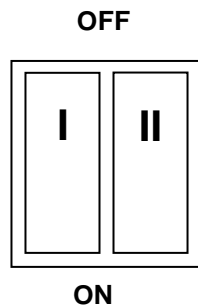
1.- USER'S INSTRUCTIONS

IMPORTANT: Be sure that the electric water heater is full of water by opening a hot water faucet.

The electric water heater is ready to use at the moment it is plugged to electrical network. The first operation to be performed is to select the power using the switches located on the front panel of the appliance. If switch 'I' is turned on, the power will be 1300W. If the 2 is connected, the power will be 700W. With both connected the total power will be 2000W.

If the tank temperature is lower than the one selected at controller, the switch that is connected at that moment will light up ('I', 'II' or both). When the desired temperature is reached, the switch light will turn off.

Fig. – 6



The thermostat used in the APARICI SC models allows the regulation of the water temperature inside tanks from 35 ° C to 75 ° C by using a high sensitivity bulb. This fact allows to match the water temperature to the atmospheric conditions of each season and also to the user needs. The temperature is increased by turning the control knob counterclockwise and decreasing if it is turned in the opposite direction. Please note that the indicated temperatures are approximate.

2.- CLEANING.

The external parts of the water heater may be cleaned with a mild detergent solution. Do not use solvents and abrasives.

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

3.- WATER HEATER DRAIN IN CASE OF FROST

It is essential to empty the appliance if it must be out of operation in a place exposed to frost. To perform the emptying proceed to: Unplug the appliance from electrical network.

- Close the water inlet to the water heater.
- Drain the water heater using the safety valve.
- Protect the safety valve from freezing.
- Fill the water heater before plug in it again to electrical network.
- Contact the installer if the security group has been frozen.

4.- CONDITIONS OF GUARANTEE

APARICI thanks you for your confidence in acquiring an appliance of our manufacture and expects the product to meet the expectations you have placed on it.

This warranty is a Commercial Guarantee on the electric power and independent of the rights that you have against the seller derived from the contract of sale of your term (commercial invoice + APARICI Catalog).

These rights are regulated in Title V of Real Legislative Decree 1/2007 of November 16 and are perfectly compatible with this Commercial Guarantee. The aforementioned legal text entitles him as a consumer and user to request repair or replacement of the term free of charge in the event of a lack of conformity of the apparatus with respect to the contract, provided that the option chosen is not objectively impossible or economically disproportionate to the other. The lack of conformity that manifests itself in the first 6 months after delivery of the term, is presumed, unless proven otherwise, that existed at the time of delivery. Therefore, please inform the company immediately to prevent major evils and be able to solve the problem as soon as possible and with the least prejudice to you. From the first 6 MONTHS, APARICI extends the warranty up to TWO YEARS from the date of delivery, based on this Commercial Guarantee. During this period, the Official Technical Service will determine which parts must be repaired or replaced by new parts, including the warranty both the displacement and the labor necessary for its repair, provided that the damage is due to a non-conformity of our present apparatus at the time of delivery. In this case, it is the user who must prove that said non-compliance existed at the time of delivery of the term.

In all cases discussed so far, the assembly, disassembly and transport of the device will be at the user's expense. If it is necessary to replace the term, the guarantee granted to it will be the one that will remain to the apparatus that replaces, being, at least 6 MONTHS, but in no case will begin a new period of commercial guarantee.

All the terms must be installed in an accessible way for the SAT technicians, being in charge of the user the provision of the necessary means and the expenses that allow the access to the term for its repair. Based on the current regulations on Occupational Safety and Health, technicians may refuse to perform any repair that, due to the installation conditions of the device, may pose a risk to their physical integrity.

This warranty does not include damage caused by force majeure (atmospheric or geological phenomena), improper installation (inadequate water pressure or pressure) and plastic components, pilots, enamels and paints that have been damaged by blows or falls.

It also does not include damage caused by the use of aggressive water (it is considered aggressive water that complies with any of the following conditions:

- Ryznar index less than 7.
- Conductivity at 25 °C < 350 $\mu\Omega$ -cm
- Chlorine (Cl⁻) and sodium (Na⁺) less than 75 mg/l
- Total hardness <18 ° F), with a total hardness of less than 18° F or greater than 31° F.

This warranty does not cover damage caused by or resulting from an omission or non-compliance with the regulations that are detailed in the instructions book for the installation and use of the appliance, which also include recommendations for obtaining a maximum yield of the same.

Failure to comply with the instructions prescribed in this manual means improper use of the device from a technical and personal point of view, and this will render the manufacturer and / or legally established representative harmless from any accident. Persons or damage to things and / or the appliance, excluding any damage resulting from improper handling or improper treatment of the appliance. Likewise, this guarantee does not include damages that are caused by improper or non-domestic use of the electric power, either in public establishments or in professional activities. Items that have been manipulated by persons outside APARICI or that have not been expressly authorized by APARICI. This warranty is valid only in Spanish territory and is subject to the exceptions mentioned above.

In the event of a breakdown, you can consult the documentation of your device to see which service is nearest to you, access the company's website (www.aparici.es) or you can contact the telephone number 93 474 24 23. Likewise, if you need to make any legal communication with our company you should contact NOFER, SL, Avenida de la Fama, 118 - 08940 - Cornellá de Llobregat - Barcelona (nofer@nofer.com), as exclusive distributor of the terms with brand APARICI.

VERY IMPORTANT!

TO HAVE THE RIGHT TO THIS WARRANTY MUST BE SUBMITTED UNEXCUSTABLE AT THE TIME OF THE INTERVENTION OF THE SERVICE OF TECHNICAL ASSISTANCE, THE ACCREDITATION OF THE DATE OF RECEIPT OF THE APPLIANCE THROUGH THE INVOICE OR TICKET OF PURCHASE OF THE SAME. IN CASE OF NEW WORK SHOULD PRESENT THE CITY HABITABILITY OF HOUSING.

IMPORTANT: CONDITIONS REQUIRED FOR OBTAINING THE EXTENSION OF WARRANTY:

In order to obtain the extension of the commercial guarantee of the equipment you have purchased, in this case 3 additional YEARS for the CALDERIN (5 in total), you must send us the completed card, not later than 30 calendar days Of the date of purchase and, upon return of mail, will be sent the contract that accredits you as beneficiary of the commercial guarantee granted by our brand. If you do not receive it within 30 days, you can claim the documentation at the telephone number 934742423. Also, the data of your device are registered in our database.

To benefit from the aforementioned extension of warranty for the boiler, the annual replacement of the anode is not necessary in the case of the SC30, SC50 and SC80 models. On the contrary, for SC100 models, it is mandatory to replace the two anodes from the third year of use of the appliance. The first replacement of the same can not be delayed beyond 26 months from the date of purchase.

This extension of commercial guarantee will not be valid in case of installation and non-domestic use of the appliance (Hairdressers, Gyms, etc.) In these cases will only be covered by title V of Real Legislative Decree 1/2007 of November 16. This extension can not be requested for the Autonomous Community of the Canary Islands, Ceuta and Melilla.