USEFUL LIFE

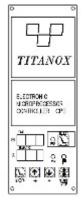
The useful life of the device is established in years 5 from the commissioning. For this period Titanox s.r.l. guarantees the availability of spare parts and safe operation as long as the environmental and use conditions defined in the instructions for use are respected by the user.

The supplier of the electronic card states that "the capacity of the memory of the mounted microprocessor is 1,000,000 cycles. By cycle we mean every ignition of the card: therefore in 10 years (3650 days) 274 daily ignitions are allowed ... "

The manufacturer of the microprocessor does not guarantee its availability in the next 10 years: for this reason TITANOX has decided to reduce the "useful life" to 5 years, thus having the tranquillity of being able to provide customers with an efficient after-sales service.

INSTRUCTIONS MANUAL

DRY HEAT STERILIZING UNIT MOD. PASTEUR ELECTRONIC





THESE INSTRUCTIONS HAVE ALWAYS TO FOLLOW THE UNIT.
FOR SAFETY WARNINGS PLEASE READ THE INSTRUCTIONS ON PAG. 6





FABBRICA ARTICOLI MEDICO SANITARI MEDICAL SANITARY ITEM FACTORY

26038 Torre dè Picenardi (CR) – ITALY – Via Canove, 2/A – Canove dè Biazzi Tel. (0039) 0375 394065 (r.a.) – Fax (0039) 0375 394067

Home page: http://www.titanov.com = F-Mail info@titanov.com

Rev. 17, 2019-02-26

INTENDED USE

The device is designed to be used in sanitary environments for the purpose of sterilizing non-heat sensitive medical and surgical instruments. The process of disinfection is based exclusively on the thermal destruction of the microorganisms present upon the instruments at a typical temperature of about 180° C.

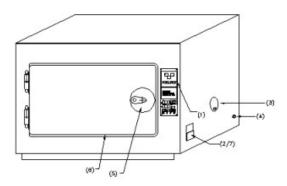
Effectively reaching a sterile state for the instruments inserted into the sterilizers depends upon multiple factors:

- The level of initial contamination of the instruments (total bacterial load);
- The type of contaminating microorganisms;
- The permeability of all the contaminated instrument parts by the hot air produced by the sterilizer.



For more information see the paragraph **attention** ahead.

The device must be used only and exclusively by qualified personnel.



INDEX		
Pos. 1 CPS Control Panel	Pos. 4 Security thermostat 260° C	
Pos. 2 Connection plug with fuses	Pos. 5 Closure with key	
Pos. 3 Air-inlets for air circulation	Pos. 6 Silicone gasket Pos:7 (ON/OFF)	

SYMBOLS AND SAFETY WARNINGS



ATTENZIONE: ALTA TEMPERATURA
ATTENTION: TEMPERATURE ELEVEE
CAUTION: HOT SURFACE
ACHTUNG: HEISS
PRECAUTION: ALTA TEMPERATURA



PROTECTION BINDING-CLAMP





ATTENZIONE: PRIMA DI APRIRE TOGLIERE LA TENSIONE
CAUTION: DISCONNECT VOLTAGE BEFORE OPENING
ATTENTION: AVANT D'OUVRIR, ENLEVER LA TENSION
ACHTUNG: VORDEM OFFNEN STROMVERSORGUNG UNTERBRECHEN
CUIDADO: ANTES DE ABRIR DESCONECTAR LA TENSIÓN
CUIDADO: ANTES DE ABRIR TIRAR A TENSIÓN



WARRANTY CONDITIONS

- 1) The device is warranted for a period of one year from date of purchase.
- 2) Warranty covers the substitution or repairs free-of-charge of components with manufacturing defects.
- 3) The device will be repaired only at our factory. Charges, risks arising from the transport of the device shall be on purchaser's account.
- 4) In the event of repairs at purchaser's home, purchaser shall be charged fixed call costs covering partial reimbursement of travel and professional visit by personnel.
- 5) Warranty coverage excludes: internal lighting, damages caused by carelessness of purchaser, incorrect and improper uses and installations not conforming to warnings, indicated in these booklet instructions or in any case results from phenomenon unrelated to the normal working of the device.
- 6) The warranty expires when the device is tampered with or repaired by unauthorised personnel.
- 7) It is excluded the substitution and the extension of the warranty following a breakdown.
- 8) It is excluded any compensation for damages direct or indirect of any nature to persons or objects arising from use or suspension of use of the device.
- 9) The warranty expires immediately if the relative certificate shows alterations, erasing, or it's not issued or convalidated by us. The certificate must accompany the device, or handed to maintenance personnel for home-repairs.

The manufacturing company Titanox S.r.l. is responsible for the safety, reliability and performance of the device if:

- the assembly, the additions, the re-setting, the modification or repairs are carried out by personnel of Titanox S.r.l.;
- the electrical system to which it is connected conforms to safety norms in country of installation;
- the device is used in conformity to instructions of use and maintenance.

This liability expires immediately when the device is tampered with or repaired by unauthorised personal.

For any further requirements of spare parts, repairs or checks, it's necessary contact directly the manufacturer: TITANOX S.r.l. - Via Canove 2/A - Loc. Canove de' Biazzi - 26038 Torre de' Picenardi (CR) - Italia - Tel. (0039) 0375 394065 - Fax (0039) 0375 394067 communicating the registration number of the device to repair.

ERROR IDENTIFICATION

WARNING! If on the display TEMP.°C (Pos. 9) appear the sign ∃∃∃ it means that the internal temperature probe sensor is out of order.

ORDINARY MAINTENANCE

Before initiating any maintenance operation, make sure that:

- the device is not connected to the power source.
- the device is at ambient temperature.

Keep the internal parts and the grid perfectly clean. Even though they may change colour and become brownish, never use abrasive or inflammable products for cleaning them.

Keep the external parts perfectly clean that they have to be always specular to prevent corrosion and dust.

PERIODIC MONTHLY MAINTENANCE

After removing the plug from the power socket, check that the fuses are not oxidised specially when the device is not used for a long time or kept in a humid ambient.

The power socket should not change colour or oxidise. If that happens, replace it immediately.

The power cable must be integral and it should not show cuts, abrasions or bending.

The resistances and the internal electrical system do not require any maintenance.

PERMITTED USES

The device can be used to sterilize metal materials whose melting point is higher than 300°C (surgical instruments, plates, and metal screw).

Inside the sterilizer place only metal containers without plastic parts and without textile material.

FORBIDDEN USES

It is forbidden to place in the device items whose melting temperature is lower than 300°C or is not known to the operator.

ACCESSORY PARTS

- 2 Internal shelves
- 1 Mains cable

SELLING OFF

The sterilizing unit is made of various materials with mechanical, electro-mechanical and electronic parts.

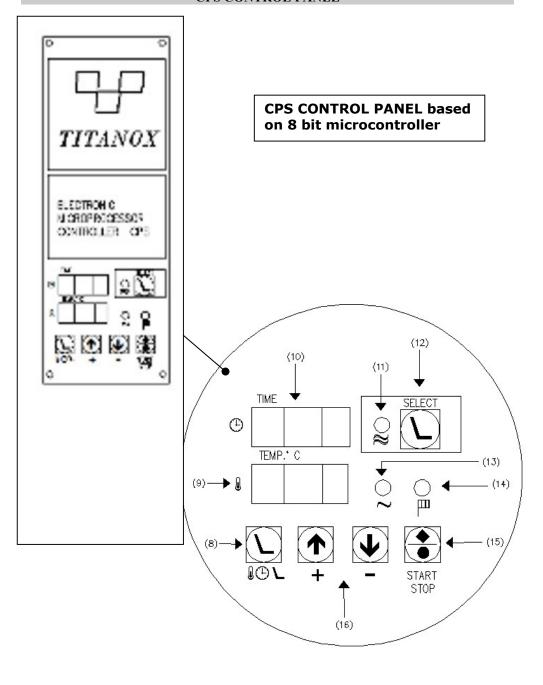
The selling off has to be made according with the regulations in force in the utilizing Nation.



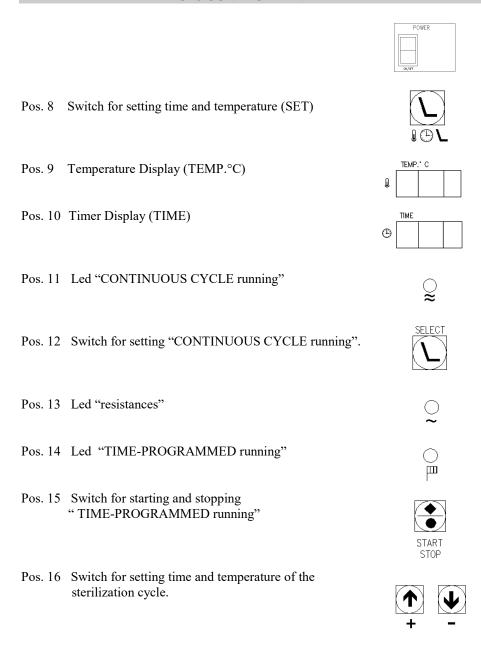
Laboratory tests following a cycle of 120 minutes at 180°C on Bacillus subtilis var niger ATCC 9372 spores demonstrated the efficiency of the sterilizer.

Titanox does not guarantee and cannot ensure the effective achievement of the sterile state of the instruments placed in the sterilizer, according to the definition of sterile medical instruments foreseen by the EN 556 Norms. The user of the sterilizer therefore has the responsibility to conduct all of the confirmation procedures of the sterilization process and the necessary verifications in order to ensure the effective completion of every single sterilization cycle.

CPS CONTROL PANEL



"CPS CONTROL PANEL" KEY



CONTINUOS - CYCLE RUNNING

The device has also a continuos-cycle running. For use this kind of running proceed up to point 6 of the procedure for time-programmed running described above.

Proceed as the following:

7. Press the button SELECT (Pos. 12). The display TIME (Pos. 10) shall indicate OFF while the display TEMP. °C (Pos. 9) shall indicate the set temperature during the last running.

8. On releasing the button SELECT (Pos. 12) the display TEMP.°C (Pos. 9) shall show the ward ECL (Electronic-Compensation-Low). If it is required to change the temperature (within ± 10°C), press the button SET (Pos. 8) and then using the buttons (Pos. 16) for set the desired new value.

9. Once programmed the new temperature, on the display TEMP.°C ℚ (Pos. 9) shall appear the ward ECL that shall remain visualised until the set temperature is reached.

10. When the set temperature is reached on display TEMP.°C Pos. 9) shall appear the ward ECH (Electronic-Compensation-High).

12. To terminate the sterilization procedure in continuous cycle running press the button SELECT (Pos. 12).

*** PLEASE NOTE ***

- If change of heating procedure is required, re-check each time set parameters since the two systems (time-programmed and continuos cycle running) have memories independent from each other.
- In case of power cut-off while sterilization procedures has initiated, on return of power the system shall compare the present temperature with the temperature at the moment of power cut-off. If, temperature has dropped more than 5°C, compensation procedure shall automatically be restored and, in case of timed procedure, preprogrammed time shall be re-activated. If, on the other hand, the temperature has not dropped below 5°C, the procedure shall re-start regularly as though nothing has happened.
- In the event sterilized materials cause eventual release of dangerous gasses, it shall be necessary the use of suction system to neutralise unwanted fumes (check the point "consented uses" on page 9 regarding materials which can be heated and at any rate avoid use of soaked material with toxic or harmful substances).
- As the device heats up, avoid immission of substances or elements about which reaction to heat is unknown, in order to avoid explosions, implosions or emissions of toxic gasses.

TIME - PROGRAMMED RUNNING

(continued on)

- 10. To activate the time-programmed sterilization running, press the button START/STOP (Pos. 15). In this way the green LED (Pos. 14) will light up and the set temperature shall appear on the display TEMP.°C (Pos. 9). If the button START/STOP (Pos. 15) is kept pressed, the temperature shall remain visualised on the display until the button is released. After releasing the button STAR/STOP (Pos. 15), the green LED "resistances" (Pos. 13) will light up and display TEMP.°C (Pos. 9) show the ward ECL (Electronic-Compensation-Low). This indication shall remain until set temperature is reached.
- 11. On reaching the set temperature the display TEMP.°C (Pos. 9) shall show the ward ECH (Electronic-Compensation-High).
- 12. At the end of the internal compensation phase, the display TEMP.°C & (Pos. 9) shall show the current internal temperature and shall begin the countdown, shown by the blinking of the decimal point (last value on the right) on the display TIME (Pos. 10).
- 13. Once sterilization cycle time is terminated, the green LED [Pos. 14] shuts itself automatically.

*** ATTENTION ***

In the adjustment phase, the green LED $\stackrel{\bigcirc}{\sim}$ (Pos. 13) indicates the activation of the resistances for maintaining the temperature programmed. In case of abnormality of the driving system of the resistances, on display TIME \bigoplus (Pos. 10), the indication FAL is shown and the green LED $\stackrel{\bigcirc}{\sim}$ (Pos. 13) shall remain off.

TECHNICAL SPECIFICATION

Models:	A3-218-670
Loaded Chamber	5 kg
External sizes:	
Width mm	835
Height mm	555
Depth mm	565
Internal Sizes:	
Width mm	670
Height mm	415
Depth mm	420
Weights:	
Net weight kg.	35 kg
Gross weight kg.	41 kg
Electrical Characteristics:	
Nominal tension (Voltage)	230 V
Nominal power (Watt)	1900 W
Nominal frequency (Hz)	50/60 Hz
Net's fuses (mm 5x20)	F10A-250 V

The device is in conformity to electrical safety norms provided for by the normative institutes and supplied with bipolar plug which assures perfect electrical grounding.



NON-COMPLIANCE WITH INSTRUCTIONS DESCRIBED IN THIS BOOKLET SHALL FREE COMPANY TITANOX S.R.L. FROM ANY

LIABILITY.

SIMBOLO	SIGNIFICATO
<u> </u>	Attenzione!
	Consultare la documentazione annessa
	Attenzione! Alta Temperatura (max. 210 °C)
	Indica il nome del Fabbricante
M	Il simbolo con l'anno indica la data di produzione
<u> </u>	Simbolo RAEE per la gestione dei rifiuti di apparecchiature elettriche ed elettroniche

Available operation:

TIME-PROGRAMMED: timer programmable up to 4 hours

CONTINUOUS CYCLE: manual (without timer)

ENVIRONMENTAL CONDITIONS

- Ambient temperature from 5 to 40° C.
- Relative humidity max. 80% for temperatures up to 31° C with linear decrease up to 50% at the temperature of 40° C condensing included.
- Atmospheric Pressure from 500 to 1060 hPa.
- Voltage supply variation not higher than $\pm 10\%$.
- Value of transitory over-voltage in conformity to the installation category (which provides for 2500V).

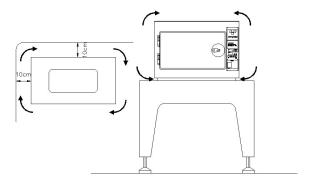
INSTALLATION

The device has been calibrated and tested at factory and as such does not require any further calibration or adjustments before installation and start-up.

Unpack the device and follow the next advices:

- 1. Position the device on a levelled flat, hard and smooth surface, established with noninfiammable material.
- Allow space not lower than 10 cm from walls and surrounding furniture.
- Do not install the device nearby water sinks or similar to avoid contacts with water or substances which could cause electrical short-circuit to the system.
- 4. Install the device in a well aerated location, not near windows or external doors which could cause an unnatural circulation of the air inside the device and therefore compromise its correctly running.
- Do not install the device nearby heat sources or near other electrical devices.
- Install the device in such a way that the power cable is never twisted or bent, but it should connect to the socket free and unhindered. Avoid to positioning the power cable nearby heat sources or other devices that shall caused damage on it in a long run.
- 7. In the event the device is placed on a trolley, always check that the lower part of the device is not enclosed or hindered, as to allow continuos and sufficient ventilation.

Once the device is correctly installed and power cable connected, it's ready for use.





- The device is designed for use in internal locations.
- The device is not designed for use in presence of gasses or explosive vapours.
- No water or other liquids should be poured into device neither on its base.
- Before any cleaning or maintenance actions, the power cable must always first be removed.
- Make sure that the electrical system has electrical grounding and that it's in conformity to the safety norms in the country of installation.
- Do not remove any label or plate, in case of need, ask for more.
- Always insist on original spare parts.
- Do not open the door of the device until the thermometer of the internal temperature do not indicate a temperature lower than 30°C.
- Medical devices, before being placed in the sterilizer, should be washed and dried. The residual water steam may create deposits on the probes and resistances by altering the precision.

TIME - PROGRAMMED RUNNING

- 1. Insert the supplied connection socket of the mains cable in the plug of the device (Pos. 2) and the feeder- plug in the wall mains socket, after checking the voltage value.
- Place materials to be sterilized inside the device
- Lock up the door. (Pos. 5)
- Keep the air-inlets half-opened (Pos. 3) to allow a better circulation of the air inside the device and to distribute the heat even to the corners and hidden spaces. Close the above air-inlets only at the end of the sterilization cycle in order to seal the device and to keep the material inside in temperature for a long time.
- The device is switch on by pressing the button ON/OFF (Pos. 7).
- Once the device is on, the display TEMP. °C & (Pos. 9) shows the current internal temperature, while the display TIME (Pos. 10) shows the last set timing for sterilization cycle.
- For programming or changing sterilization time, press the button SET (Pos. 8). In this way the display TIME ((Pos. 10) begin to blink. Use the buttons (Pos. 16) to change the value shown, up to sterilization time required. The length, expressed in minutes, can be change from 1 to 250. At the end of blinking, the time shown shall be automatically memorised (ATTENTION! Let the blinking end by itself).
- To show the set heating temperature press the button SET $\bigcup_{i \in I}$ (Pos. 8). To set or change temperature press SET $\bigcup_{i \in I}$ (Pos. 8) for two consecutive times. In this way the temperature display TEMP.°C (Pos. 9) will begin to blink. Use the buttons (Pos. 16) to change the value shown, up to the temperature required. The temperature can be changed from 1 to 200°C. At the end of blinking, the temperature shown shall automatically be memorised and shall again be shown the current internal temperature (ATTENTION! Let the blinking end by itself).

(to be continued)