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Operating Instructions
Tau Steril Ultraviol



CE 0426

DIRETTICTIVE 93/42 EEC E S.M.I.
MEDICAL DEVICE

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1. Warnings

Tau Steril Ultraviol is a sterilizer operating with ultraviolet light. Keep the door closed when the sterilizer is operating.

2. Introduction

2.1 Normative References

The ultraviolet-sterilizer Tau Steril Ultraviol is conforming to the essential requirements of the Directives of the Council: Medical Devices 93/42/CEE e s.m.i., class II b
it is conforming besides to the national norms that are translated in the harmonized norms:

EN 61010-1
EN 61010-2-040
EN 61326 – 1
EN 60601-1-6
EN 62366
UNI CEI EN ISO 14971

The ultraviolet-sterilizer Tau Steril Ultraviol complies with RoHS 2011/65 / EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

2.2. Expected use of materials to sterilize

The equipment is used to sterilize surgical instruments in the medical-paramedical sector. This system, allows to eliminate pathogenic germs due to radiation and to emanate ozone vapors (issued from a germicidal lamp).
Do not load toxic materials into the sterilizer. TAU STERIL shall not assume any responsibility in this respect.

2.3. Manufacturer's responsibility

The equipment is manufactured in compliance with European regulations.
The use of this equipment is restricted to the functions for which it was originally designed and manufactured. The user shall be responsible in case of any possible risks and dangers caused by an improper use of the sterilizer.
The product warranty is twelve months from date of purchase.

3. Installation

To verify that the transport has happened under conditions of acceptable damp not to jeopardize the safety of the ultraviolet-sterilizer to preserve and to install the instrument in deprived environments of damp (Tau Steril assumes no responsibility for the safety of the equipment is kept, on occasions, improperly). Remove the appliance from its packaging with extreme care and check the integrity of the same. It is recommended to remove the device from its packaging with extreme care since the front door is crystal: fragile.
To check that the tension of suitable feeding on the back label corresponds to that in hand in the place of installation (maximum variation of the tension of net: ± 10%).
To insert the thorn in the attack of the electric net. To press the general interrupter bringing him/it in position “The” and to verify the lighting of the same.
In case of missed observance of these dispositions TAU STERIL declines every liability.
To verify some correct mass to earth of the general plant. To position the sterilizer on a plain surface, to facilitate the ventilation of the same one. Don't approach the sterilizer to less than 10 cm. from walls or other equipments to allow a fit ventilation, and to avoid the contact with surfaces to risk of fire e/o issue of smoke.
Don't approach objects or other in proximity of the ray of opening of the door of the instrument with the purpose to allow the correct opening of the same one.

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4. Characteristics

4.1 Technical data

Weight: 7 kg
Dimensions: Width cm. 50 – Height cm. 20 – Depth cm. 20
Absorption: 25 watt
Power supply: 230 V – 50Hz

4.2. Environmental working conditions

- Temperature 5° - 40°
- Moisture (with max. T° 31 °) 80%
- Moisture (with max. T° 40°) 50%

4.3 Recommended times and temperatures

The sterilizer is normally used to sterilize/keep materials and instruments intended for the health field. It is normally used in doctors' cabinets to keep previously sterilized instruments (in autoclaves, dry sterilizers etc). It is recommended to insert in the sterilizer only material previously sterilized with autoclave and / or dry heat sterilizer.
60 minutes are usually recommended for sterilization.

5 Operating modes

ATTENTION: The Surety of the Sterilization is completely submitted to the operator, as a very simple device being, it doesn't foresee alarms of any kind. The operator always has to be present during the operation of the equipment verifying possible lacks of net that could jeopardize the phase of sterilization.

WARNING: DO NOT USE THE STERILIZER if the door is broken.

- Carefully clean and wipe the instruments to sterilize
- Turn on the switch and close the door immediately
- The sterilizer starts its sterilization cycle by switching on the germicide lamp.

60 minutes are usually recommended for sterilization.
To unload take out the sterilized material, open and switch off the sterilizer immediately.
For a correct use of the machine, do not overload it with material to sterilize.

6 Transport and storage conditions

The sterilizer is equipped with packing requiring normal transport precautions necessary for fragile materials, as indicated on the packing container itself. Make sure you retain the packaging materials for future shipment or should the machine need repairing. In case of storage, put the sterilizer in a moisture-free area to protect electrical parts.

7 Maintenance and cleaning

Any maintenance must be executed after disconnecting the feeding cable and when the machine is completely cold.

Operations of cleaning of the room of sterilization (to be repeated with daily frequency)

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---- To sterilizer with disconnected cable to use a rag with denatured alcohol (90%) and to clean the room of the ultraviolet – sterilizer.

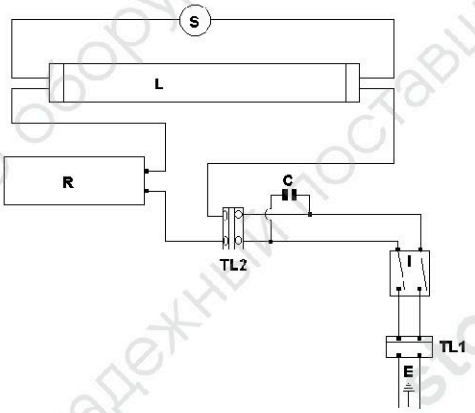
ATTENTION: Do not modify the equipment without the permission of the manufacturer.
In case of malfunction, contact the manufacturer.
For repairs to make the sterilizer manufacturer in its original packaging.

Make sure periodically that the feeding cable is in a good condition
In case of improper functioning, contact the manufacturer.
In case of repairs, please send the sterilizer to the manufacturer in its original packaging.

The germicide lamp lifétime accounts for 7500 working hours. Replace the lamp after such a period.
Contact Tau Steril to ask for an original lamp.

8 Wire diagram

S= Starter
L= Germicide lamp
R= Reactor/power supply
C= Condenser 0,047mF Vca class x2
TL2= Terminal
I= Interrupteur
TL1= Line terminal
E= Earth
F = Fast fuse 5 x 20 1 A
L = Line
N = Neutral



9 Control panel

I= Main Switch



10 Safety rules and precautions

- The sterilizer employs ultraviolet light. A prolonged exposure to ultraviolet light can result in eye irritations and/ or erythemas.
- The maximum recommended exposure is 1 minute.
- WARNING: when the sterilizer is operating the door MUST remain shut. Protective goggles must be worn in case of a prolonged use of the sterilizer.

The sterilizer must be used only by an expressly authorized personnel, informed about the "Sterilization techniques", the materials that can be sterilized and the recommended times and temperatures to follow

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This equipment must be used uniquely for the purpose for which it was originally designed and manufactured: sterilization of surgical instruments to be used in the medical and paramedical field.

All precautions must be absolutely taken to avoid an improper use of the machine by unauthorized people. Modification, removal or disconnection of existing thermal and electric protections is strongly forbidden. The operator must not perform any repairs on the machine. During the operations of cleaning / or maintenance, it is absolutely essential to make sure that the appliance is disconnected from the power.
Check periodically that the feeding cable is not damaged.

ATTENTION: No modification of this equipment is allowed.
In case of malfunction, contact the manufacturer.
For repairs to make the sterilizer manufacturer in its original packaging.

10.1 Decommissioning and scrapping of the appliance

The ultraviolet-sterilizer Tau Steril Ultraviol are built with material ferrous, component electronic and plastic subjects. In the case the instrument is not more repairable and running, to separate the different components according to the material of which they are constituted, so that to simplify a eventual reuse or the diversified disposal. When the instrument is demolished there are no particular instructions to perform.
Don't remise the instrument in places not guarded.
Entrust an enterprise disposal.
Always refer to scrap the laws of the country of use.

10.2 Legend of symbols

WARNING: READ OPERATING INSTRUCTIONS	
WARNING: DANGER – ULTRAVIOLET RADIATION – KEEP THE DOOR CLOSED	
WARNING: DANGER OF ELECTRIC SHOCKS	
NOT TREATED AS MUNICIPAL WASTE: FOLLOW RULES FOR MUNICIPAL DISPOSAL.	

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