

WATER BATH

Code: 17-2008


CE IVD



USE PRECAUTIONS

Before using the instrument, read carefully the instructions and warnings contained in this manual and keep it for further reference. They supply important indications regarding the functions and safety for installing, using and maintaining the instrument.

Bio-Optica Milano S.p.A. cannot be held responsible for any damage caused by improper or incorrect use and by the non-observance of any of the prescription provided in this manual and by the safety regulations in force.

1. After unpacking, make sure that the instrument is complete and not damaged by transport.
 2. Before connecting the instrument to the power supply make sure that its rating corresponds to that of the power supply.
 3. This instrument must only be used for the purpose for which it was designed, that is, as water bath for laboratory use. Any other use is to be considered improper and therefore hazardous.
 4. The instrument must only be used by authorized and professionally qualified technician.
 5. The electrical safety of this instrument can be guaranteed only if it is correctly connected to an efficient earth circuit as indicated by current electrical safety regulations. It is necessary to check this fundamental safety prerequisite, and if in doubt, ask to check the circuit. The instrument is provided with a power supply cable having 2 wires + ground tap that have to be connected to the power supply socket.
 6. Do not remove the chassis or parts of it during operation. Switch off the instrument and disconnect the power supply cable before opening it. This operation must to be effected only by authorized and professionally qualified technician.
 7. To eliminate instrument malfunctioning risks, do not work near strong magnetic fields and do not use transmitters such as cellular phones near the instrument. In case of serious malfunctioning switch off the instrument and contact the Technical Assistance Service.
 8. All waste material, both infectious and radioactive, deriving from the appliance working cycle must be disposed in compliance with the regulation in force.
-  This appliance is marked from this symbol, in compliance with EU directive 2002/96/CE regarding electric and electronic appliances waste. This mean that the instrument, at the end of its useful life, must be collected separately from other refuse. The user must deliver it to the special differentiated refuse collection centres, that are predisposed by the public authority.
9. The contents of this manual is subject to change without further notice.
 10. Please find enclosed the declaration of conformity.

11. Graphic symbols indicated on the label (positioned near the instrument's power supply socket):

Symbol for CATALOGUE NUMBER:



Symbol for SERIAL NUMBER:



Symbol for ALTERNATING CURRENT:



Symbol for FUSE:



Symbol for CONSULT THE INSTRUCTIONS:



Symbol for EC MARK:



Symbol for IN VITRO DIAGNOSTIC-MEDICAL DEVICE:



Symbol for DISPOSAL OF ELECTRIC AND ELECTRONIC EQUIPMENT:



Symbol for DATE OF MANUFACTURE:



Symbol for MANUFACTURER:



DESCRIPTION

Type of instrument: Thermostated bath for histology.

Dimensional features

Dimensions (Ø x H): 330x95 mm (external).
200x60 mm (basin).
Weight: 1,5 Kg.

Electrical connections

Power supply: 230V~ 50/60Hz.
Heating power: 250 Watt.

Other connections

Water connections: Not necessary.
Fumes aspiration/filtration: Not necessary.

Structural features

- Instrument suitable for spreading sections of tissue included in paraffin coming from microtomes. Internal basin in black anodized aluminium to facilitate the visibility of the floating sections, external case in steel painted with antacid epoxy powder, in the interspace between the basin and the external is situated some glass fibre to contain the dispersion of heat by keeping the temperature uniform, which is regulated and controlled by a thermostat with probe at expansion of liquid.
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Technical features

Basin capacity: 1,5 l.
Temperature: adjustable from 30° to 80°C.
Precision: at 37°C, ± 1,5°C.
Heating power: 250 W.
Classe of protection: IP54.

Controls



General switch IG	It is used for switching on and switching off the instrument
Warning light	It shows the working of the resistance
Thermostat	It regulates the temperature of the basin

Installation

Place the instrument in places suitable for use.

Besides the overall dimensions of the instrument it is necessary to respect the following conditions:

- Place the instrument near the power supply socket; the instrument has one point of power supply placed on the back. Verify that the line of electrical distribution is dimensioned to the necessities of the instrument and there is plant of earth.
- Foresee a sufficient and flat space for an easy use and maintenance.

The instrument must be placed in a closed room, sheltered from atmospheric agents; moreover predispose a correct lighting.

The range of use temperature is from a minimum of + 5°C to a maximum of +40°C.

The maximum relative humidity is 80% up to +31°C with a linear decrease up to 50% at +40°C.

Starting up

Electrical connections

The instrument has a single point of external power supply, on the back.

Trial start

Before proceeding to the ordinary and continual use of the instrument, verify the perfect working by performing a complete trial cycle.

Ignition of the instrument

Insert the socket of the power supply cable in the socket placed on the back of the instrument.
Insert the power supply cable in the network power supply socket.
Move the general switch IG in position 1.

Set phase

Rotate clockwise the knob of the thermostat and stop it at the desired temperature.
Rotating anticlockwise the temperature is lowered.

Stop the instrument

Set the knob of the thermostat on OFF.
The bright light, if on, turns off.
Move on 0 the general switch IG.
Empty the basin from the water. (ATTENTION – moving of hot liquids).
Disconnect the power supply socket.

Intended and unintended uses

Intended uses

- Heating of water for spreading histological sections

Unintended uses

- All that isn't included in the intended uses
- Use of the instrument out of the expected environmental conditions
- Use in atmospheres of explosive gases
- Electromedical use
- Use of acids and solvents in direct contact with the instrument

Maintenance of the instrument

Execute any maintenance and cleaning with the instrument out and the power supply cable disconnected!

Make sure that the instrument has cooled before effecting the maintenance; the maintenance must be done by specialized personnel and only after reading this manual.

Ordinary maintenance

All the operations that can be execute by the user are included in the ordinary maintenance. They are operations of cleaning, periodic and preventive inspections that allow the safe use of the instrument.

Planned maintenance

All the operations that can be execute only by authorized technical personnel are included in the planned maintenance. They are preventive periodic inspections and intervention on the instrument.

If the authorized and trained personnel is unable to solve a problem, it is necessary to contact the technical assistance center.

Cleaning

At the end of the daily use execute an accurate cleaning of the instrument paying particular attention to :

- Basin and upper side of the instrument
- Frontal side of the controls
- Supporting surface around the instrument
- Floor of the working area

Tools and products for the cleaning

Use a dry cloth. In case of residues use isopropanol.

Transport

Transport sheltered from atmospheric agents.

Storage

The indications contained in this part must be respected during the periods of temporary storage of the instrument in the following situation:

- Installation of the instrument not immediately subsequently its supplying
- Uninstallation of the instrument and following storage before the replacement

Characteristics of storage

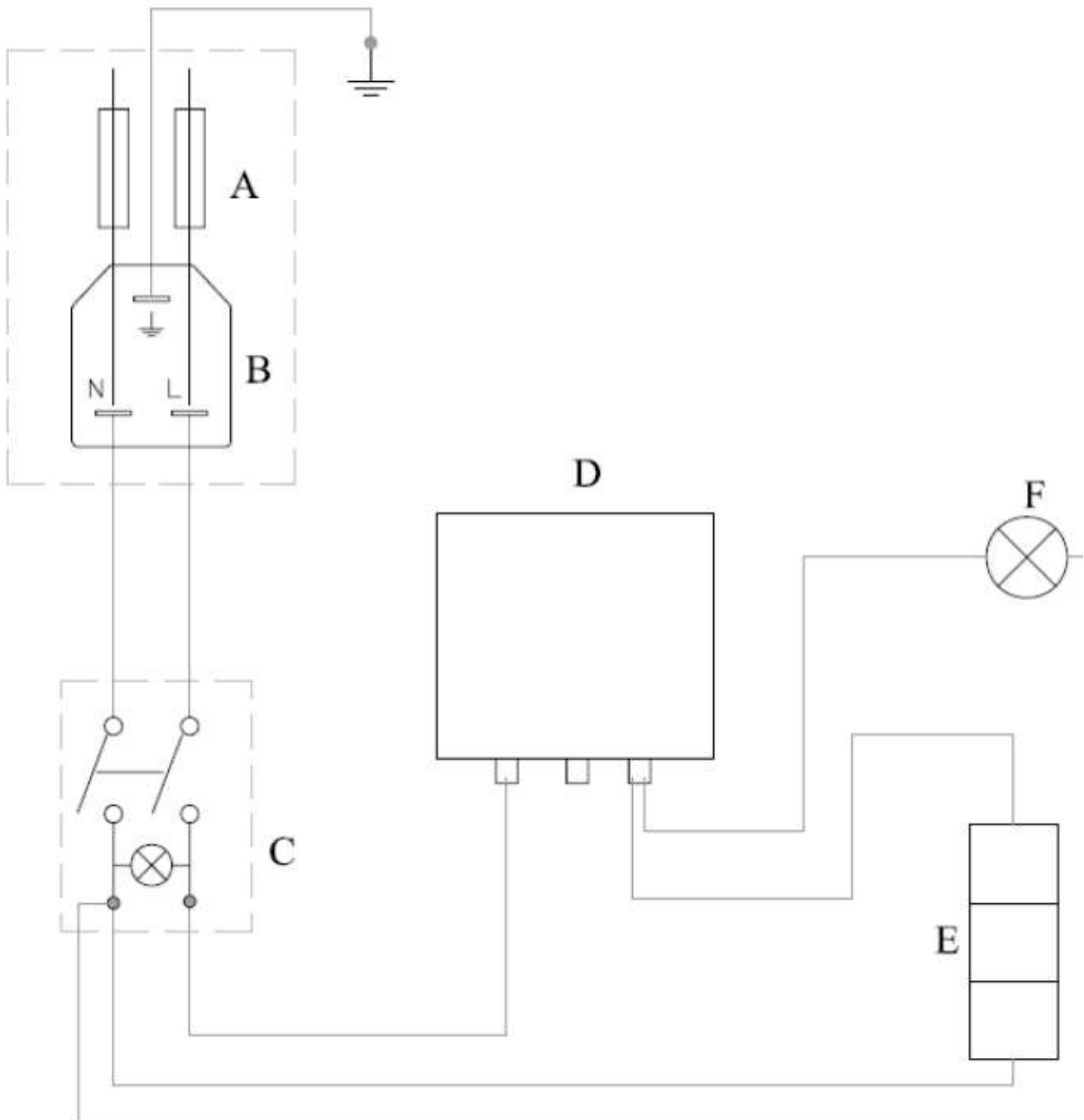
- Altitude up to 2000 m
 - Temperature between +5°C and +40°C
 - Maximum relative humidity equal to 80% up to +31°C with a linear decrease up to 50% at +40°C
 - Adequate protection against the atmospheric agents
 - Enough space to effect operations of safe lifting and transport
 - Horizontal supporting plane with capacity superior to the weight of the instrument
 - **Do not lean no object above the instrument**
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Accessories



Cover, cod. 610.1030.01

N.	COMPONENTS	N.	COMPONENTS
A	Fuses	D	Thermostat
B	Rivet fixing socket	E	Mica resistance
C	Bipolar switch	F	Warning light



Demolition

Qualification of the operator

Qualified operator is who read and acknowledged the contents of the manual regarding the safety and the contents of this paragraph.

Deactivation and demolition

Once reached the end of the technical life of the instrument, it must proceed to its deactivation. The decommissioning of the instrument involves the possible re-use of its components; it is therefore necessary a safe deactivation and demolition of the equipment.

Bio-Optica Milano Spa does not assume the responsibility for damage to things or persons arising from re-use of single parts of the instrument for uses or functions different than original.

Procedure of deactivation

The deactivation of the instrument must be effected by personnel adequately trained and equipped.

- Switch off the instrument
- Unplug the power supply cable
- Dismantle the following parts: electric parts, plastic parts, resin support feet

Residual risks after the demolition

If the indications of deactivation and demolition are respected, residual risks after the demolition don't exist.

The instrument is made with non-biodegradable materials. Take the instrument in a warehouse authorized to the disposal.