TRIMMING TECH HOOD

Codes:

50-090-001, 50-090-002
50-130-001, 50-130-002
50-150-001, 50-150-002, 50-150-003
50-180-001, 50-180-002, 50-180-003

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 aspirated hood for histology 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.

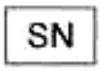
9. The contents of this manual is subject to change without further notice.

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:

INDEX

1) TECHNICAL FEATURES

Aspirated hood for histology designed for cutting and reduction of histological samples. Designed to prevent biological and chemical risk during manipulation of anatomy finds preserved in formalin.

Provided with vapours aspiration system **from the working surface, the frontal side and the top**; predisposed for fumes discharge outside.

Electrical connections

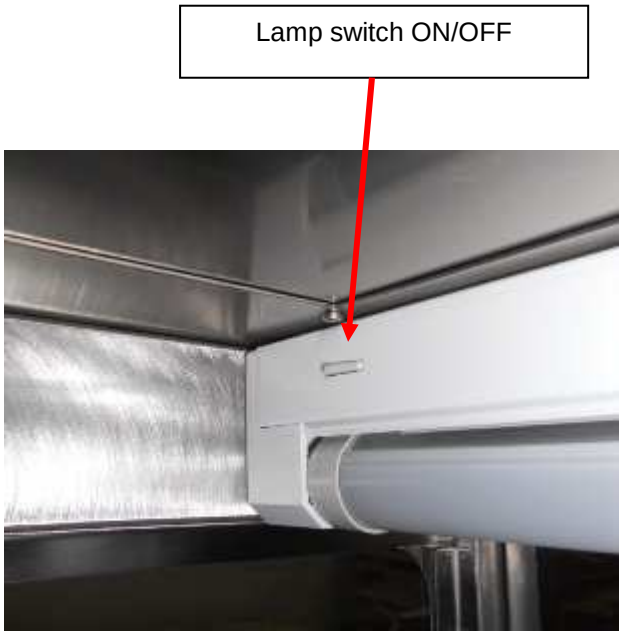
Power supply:	230V~ 50/60Hz.
Rated output:	1 Kw.
Nominal current:	10A, with delayed fuses.
Power supply socket:	Situated on the left back side at a height of ca. 2 metres.
Protection device:	Magnetothermic switch.
Emergency power supply:	Not necessary.
Remote exit:	Remote exit from card.
Fuses:	See paragraph 8) Fuses replacement on page 23.

Other connections

Water connections:	Hot water connection: ∅ 1/2”. Cold water connection: ∅ 1/2”. Waste water connection: ∅ 1”1/4 standard siphon placed at ca. 40 cm from the ground (at ca. 20 cm with garbage disposal unit) on the back side of the hood. Its position depends on the sink placement.
Fumes discharge:	The hood is provided with ∅ 250 mm collector on its upper side in order to allow the connection to the hospital’s centralized canalization system for fumes discharge outside.
Connection of external instruments:	The hood is provided with n. 2 Schuko universal power supply sockets for a possible connection of external instruments, placed in the frontal side (one on the right, the other one on the left).

Lighting

- N. 2 led tubes, total 1400 lux, 20 Watt/each.
- N. 2 adjustable halogen spotlights of 50 Watt, 150 lux (only for models 150 and 180).



It is possible to manage ignition and switching off of each single lamp independently through the manual switch positioned on the lamp holder.

Structural features

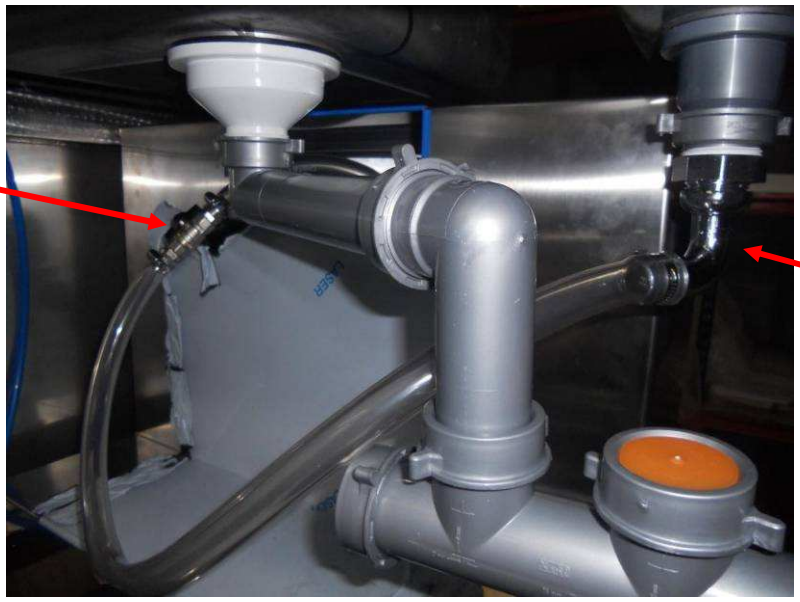
- Structure made entirely of satinized, thickness 15/10, AISI 304 stainless steel with smooth surface and rounded edges (in compliance with the regulation in force).
- 6/7 mm accident prevention stratified frontal glass with electric vertical slide to contain toxic fumes inside the hood (in compliance with the regulation in force). Run stop at 230 mm from work surface (descent), at 500 mm from work surface (ascent). The system of glass lifting is provided with manual unlocking in case of emergency.
- 6/7 mm accident prevention stratified side glasses in order to increase internal visibility, avoid draughts near the work surface and contain fumes inside the hood (in compliance with the regulation in force).
- Shelf placed in the frontal side over the working plane (see arrow in the photo).
- Shelf placed in the central side (see arrow in the photo).
- White polyethylene plate for pieces reduction - 350x450x20 mm (WxDxH) - provided with N. 4 support feet 30 mm high.
- Antistatic and antislip adjustable feet allow to get a perfect horizontal position of the working surface.
- Noise level < 56 dB (A).
- Electric frontal glass.
- Removable filtering basket for formalin sink. It avoids the obstruction of the discharge tube to the cans, keeping the solid waste also of small dimensions. Since it is removable, it can be removed and properly washed when necessary.
- Cover for formalin sink.
- Formalin dispensing system including: 10 litres load can with filter and pump, supplying tap with pedal control, 10 litres formalin discharge can with level sensor and acoustic alarm.
- Canholder trolley provided with handbrakes and front door. The trolley is provided with system of fumes aspiration with collector situated on the back side that can be removed in case of maintenance. The trolley can contain also two cans of 20 litres.
- Throttle tap of interception formalin discharge to avoid possible accidental leaks during the replacement of the

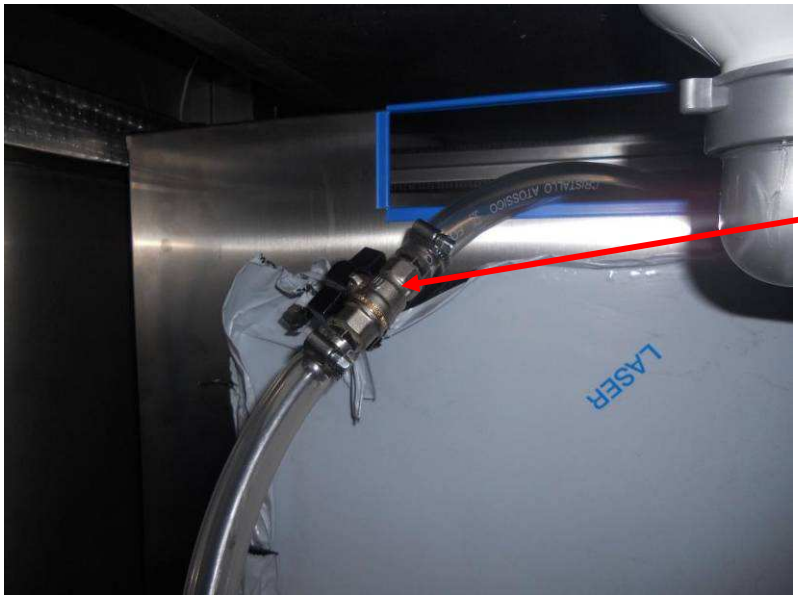
formalin can. The tap must be closed before replacing the can and reopened after the replacement.

- Tap for adjustment of shower water pressure (see arrow in the photo).
- Water dispensing tap for basins wash (only on models 130, 150 and 180) (see arrow in the photo).
- Arrangement for system of acquisition of image (only on models 130, 150 and 180).

Cover for formalin sink

Filtering basket





Working surface features

- Weldings-free, thickness 10/10, AISI 304 stainless steel surface, provided with liquids containing rim.
- Sinks (n. 1 for hood 90, n. 2 for hoods 130 and 150, n. 3 for hood 180) dimensions 400x400x200 mm of which n. 1 for hood 90, 130, 150, n. 2 for hood 180 with perforated removable surface of support in stainless steel. The ∅ 7 mm holes allow water draining in the sink and fumes aspiration from the top itself. The sinks assigned to the cut are provided with system of aspiration of fumes.
- Double washing system consisting in: 1) Shower, provided with extensible flexible arm, to clean the whole working surface provided with independent tap for the adjustment of the pressure of the water 2) Cleaning system inside the basins assigned to the cut (only for hoods with more than one sink).
- Hot/cold water sink provided with pedal control distributor and stainless steel smaller sink for formalin discharge. Both of them are placeable on request on the right or on the left.

2) INSTALLATION

During the unpacking and positioning manoeuvring, proceed cautiously in order to avoid possible damages. Pay particular attention to the glass parts placed in the frontal and side parts.

For safety matters, it is recommended to dismantle the distributors or lift the glass to end run before beginning the moving.

Position the lower part of the hood on a floor. Then, put on the upper part. (In case of connection to a canalization system for fumes expulsion outside, the hood must be positioned so that it is possible to carry out the discharged air).

Important:

The weight of the upper part is equal to ca. 100 kg: effect the positioning manoeuvring making use of adequate staff and equipment.
Get the upper part slide on the lower part. The upper part is kept in guide by proper supports preassembled on the pallet.

Fix the two parts screwing the provided 4 bolts in the proper seats.

Fumes aspiration system: Once positioned the upper part on the lower part, connect the ∅ 40 aspiration pipes getting them pass through the holes made in the back side. Connect a tube to the trolley and a tube to the sinks using the provided clips.

3) WATER AND ELECTRIC CONNECTIONS

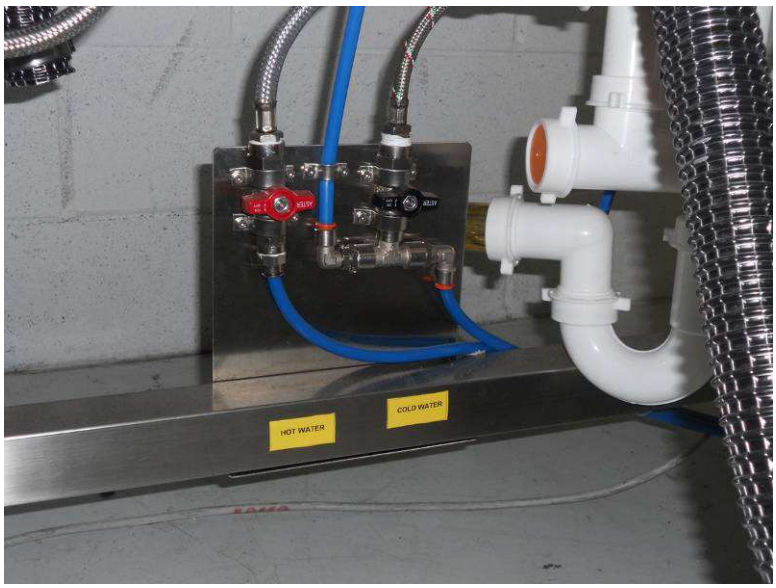
Water inlet

The tap of the water sink (mixer) can supply hot and cold water while the tap of the central basin and the flexible shower can supply only cold water.

The mixer is connected to N. 2 flexible pipes of ∅ 1/2” (one for hot water, the other one for cold water). They must be connected to the laboratory’s water system using flexible pipes (not provided).

If the laboratory’s water system cannot supply hot water, it is necessary to close the provided hot water pipe using a ∅ 1/2” plug.

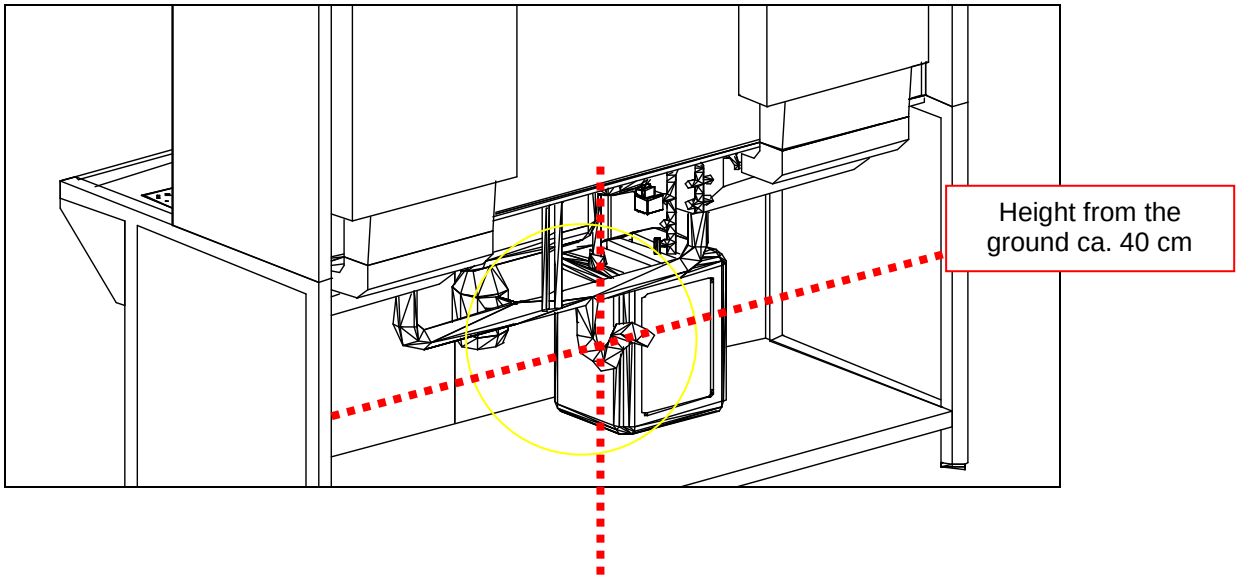
The hood is provided with valves of interception hot and cold water. In case of maintenance or failure it is possible to close the valves in order to interrupt the dispensing of water to all the plumbing of the hood.



Water outlet

Near the water sink there is a ∅ 1”1/4 standard siphon. Except changes on request, it is placed on the back side of the hood at ca. 40 cm from the ground (at ca. 20 cm with garbage disposal unit). Its position depends on the sink placement.

Important: The outlet system must have a minimum inclination of 1,5°.



Electrical connections

Before connecting the instrument to the electric system using the provided cable, verify the adequacy of the electric line, the existence of ground tap and the compliance of the electric system with the law in force.

Important: Do not use any extension or adapter and do not modify the provided cable.

4) ASPIRATION SYSTEM

Trimming Tech hoods are provided with:

- Anti-spark three-phase electrofan adjustable through inverter (preinstalled).
- N. 1 synthetic fibres prefilter (preinstalled) to retain possible impurities and improve the filter's efficiency.
- N. 1 alumina filter for formalin (preinstalled), whose replacement happens from the frontal side simply and cleanly. Instead of alumina filter, it is possible to ask for activated charcoal filter.
- Arrangement for HEPA filter housing.
- The hood is provided with ∅ 250 mm collector on its upper side in order to allow the connection to the hospital's centralized canalization system for fumes discharge outside.
- The electrofan allows fumes aspiration **from the perforated working surface** (over the collecting basin)**, the frontal grid** (under the shelf) **and the grid placed on the upper part** (the aspiration from the top is activated separately, moving the manual lever near the grid). The air is purified passing through prefilter and filter and can be discharged in this way:

1) FAN➡PREFILTER + 2 FILTERS➡DISCHARGE IN THE SAME ROOM.

Important: In case of discharge in the same room, it is necessary to install two filters in order to guarantee an effective removal of the polluting substances. In this way it is guaranteed the filter's efficacy of 100% as the residence time (Tr) of the aspirated flow will be higher than 0,1 second.

2) FAN➡PREFILTER + FILTER➡DISCHARGE OUTSIDE THROUGH A NON-ASPIRATED CANALIZATION SYSTEM (draining pipe not longer than 3 metres, with diameter equal to 250 mm).

3) FAN➡PREFILTER + FILTER➡DISCHARGE OUTSIDE THROUGH AN ASPIRATED CANALIZATION SYSTEM.

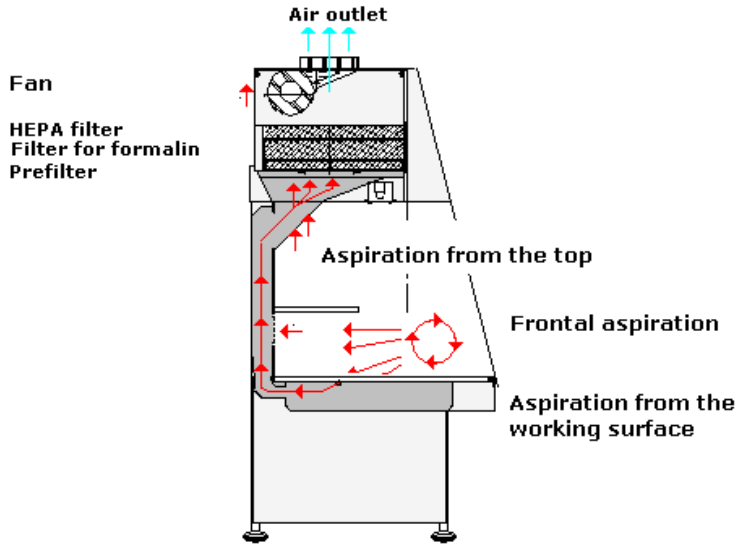
Important:

- If on the hood are installed two filters for formalin, it is not possible to add the hepa filter too.
- In case of non-aspirated canalization, the length of the draining pipe must not be higher than 3 metres, the diameter must be equal to 250 mm.

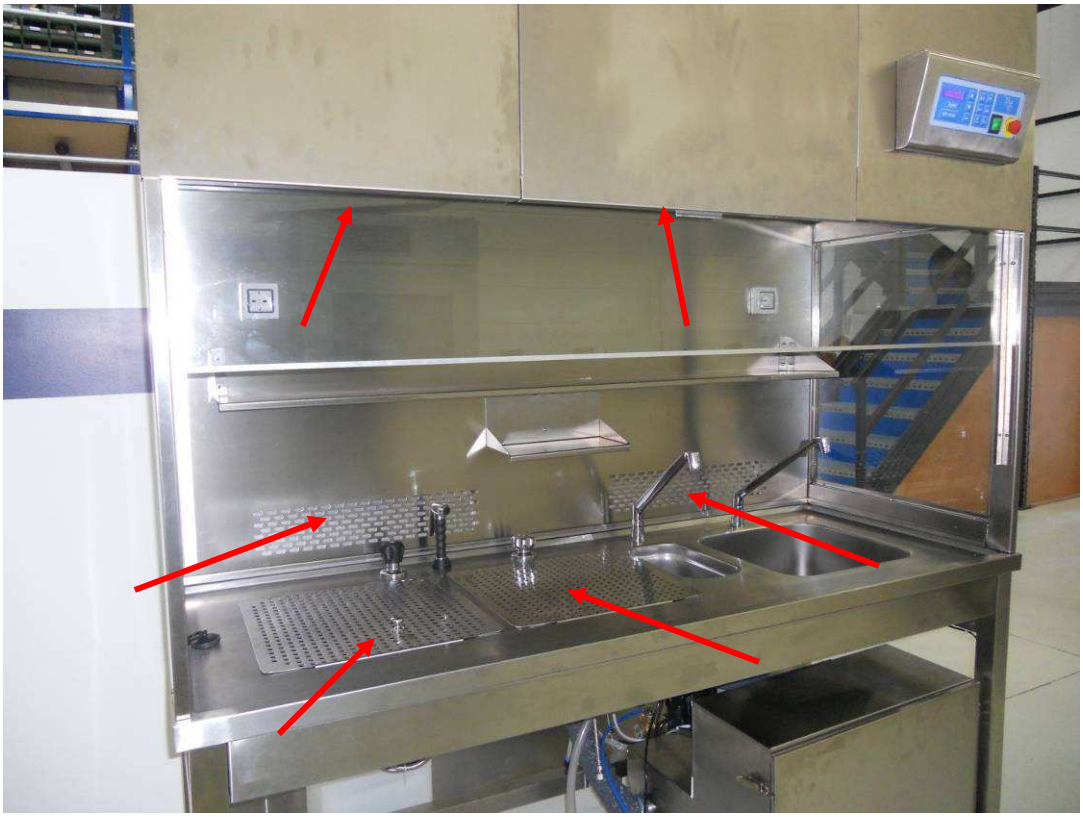
Flows

Instrument	Flow m³/hr with 1 filter	Flow m³/hr with 2 filters
MODELS 90	240	200
MODELS 130	490	443
MODELS 150	800	770
MODELS 180	980	887

Aspiration system diagram



Aspiration from the top.



Frontal and lower aspiration.

5) REPLACEMENT OF FILTER, PREFILTER AND INTERVENTIONS ON ELECTRIC INSTALLATION

The control panel is provided with a digital timer preset at 600 working hours (filter's middle life). When this value is reached a **visual and acoustic alarm** enters into action to advise the operator to change the filter.

For the replacement proceed in the following way:

1) Switch off the instrument and unplug the cable form the socket.
2) Wear individual protection devices in compliance with the regulation in force.
3) Lower the glass to end run.
4) Remove the central panel.

5) Unscrew the fixing hand-wheels of the frontal panel and remove the closing panel.

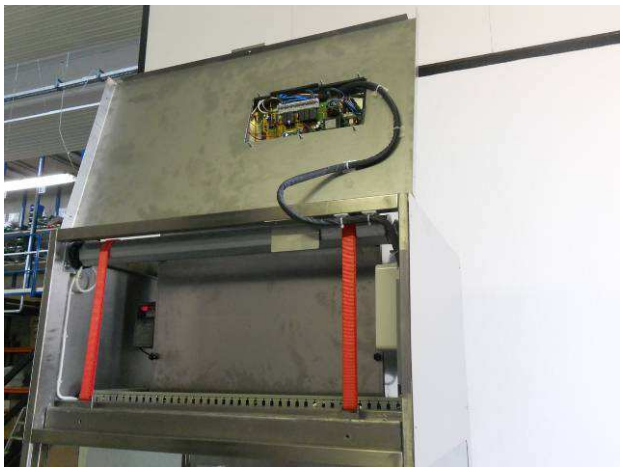
6) Remove the consumed filter, the prefilter and the possible HEPA filter getting them slide on the guides.

7) Position the new filter, the prefilter and the possible HEPA filter (that must be identical to those removed) in the same way and close the panel by fixing the hand-wheels.

8) Replace and fix the central panel.

9) Dispose the consumed filter, the prefilter and the possible HEPA filter in compliance with the regulation in force.

10) **For hoods model 90**, both for the replacement of the filter and interventions on the electric installation, it is enough to remove the fixing screws of the balancing frontal panel, lift and fix the panel by using the provided hand-wheel.



Important: In case of accidental infiltration of liquids or foreign bodies in the filter area, contact the Technical Assistance Service immediately and do not use the hood.

11) **Interventions on electric installation.** In case of interventions on the electric installation follow the next instructions:

After removing the central panel, remove the card holder panel and hook it to the upper supporting bar.

In case of intervention on the control card, rotate the card holder panel of 180° and fix it to the upper supporting bar using the provided proper collar.

Collar

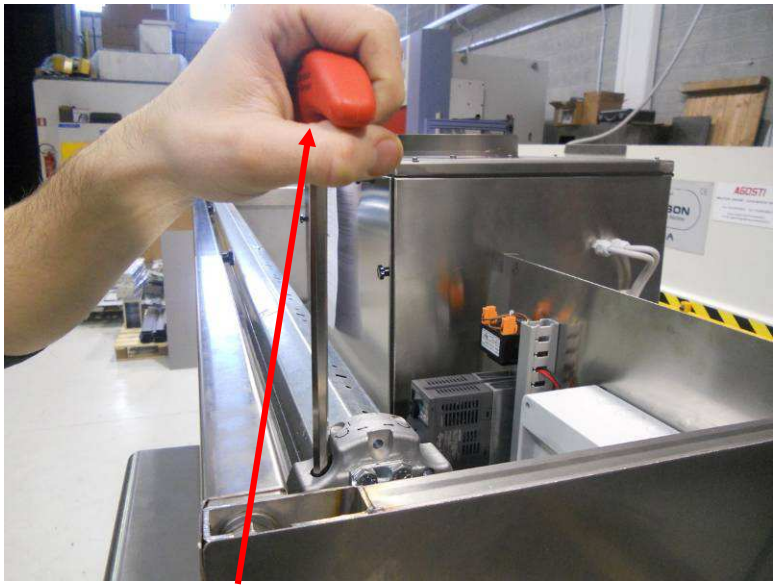
6) MANUAL UNLOCKING OF ELECTRIC GLASS

The system of glass lifting is managed by electric motor. In case of emergency (interruption of current, motor malfunction, etc.) the glass can be moved manually using the provided key.

Glass lifting motor.

Adjustment of glass end run.

Key insertion seat for glass manual movement.



After inserting the key in the proper seat, turn it in order to bring the glass in safety position.

7) CONTROL PANEL

Control panel - with polycarbonate soft-touch keyboard and digital display - for the working parameters visualization and modification.

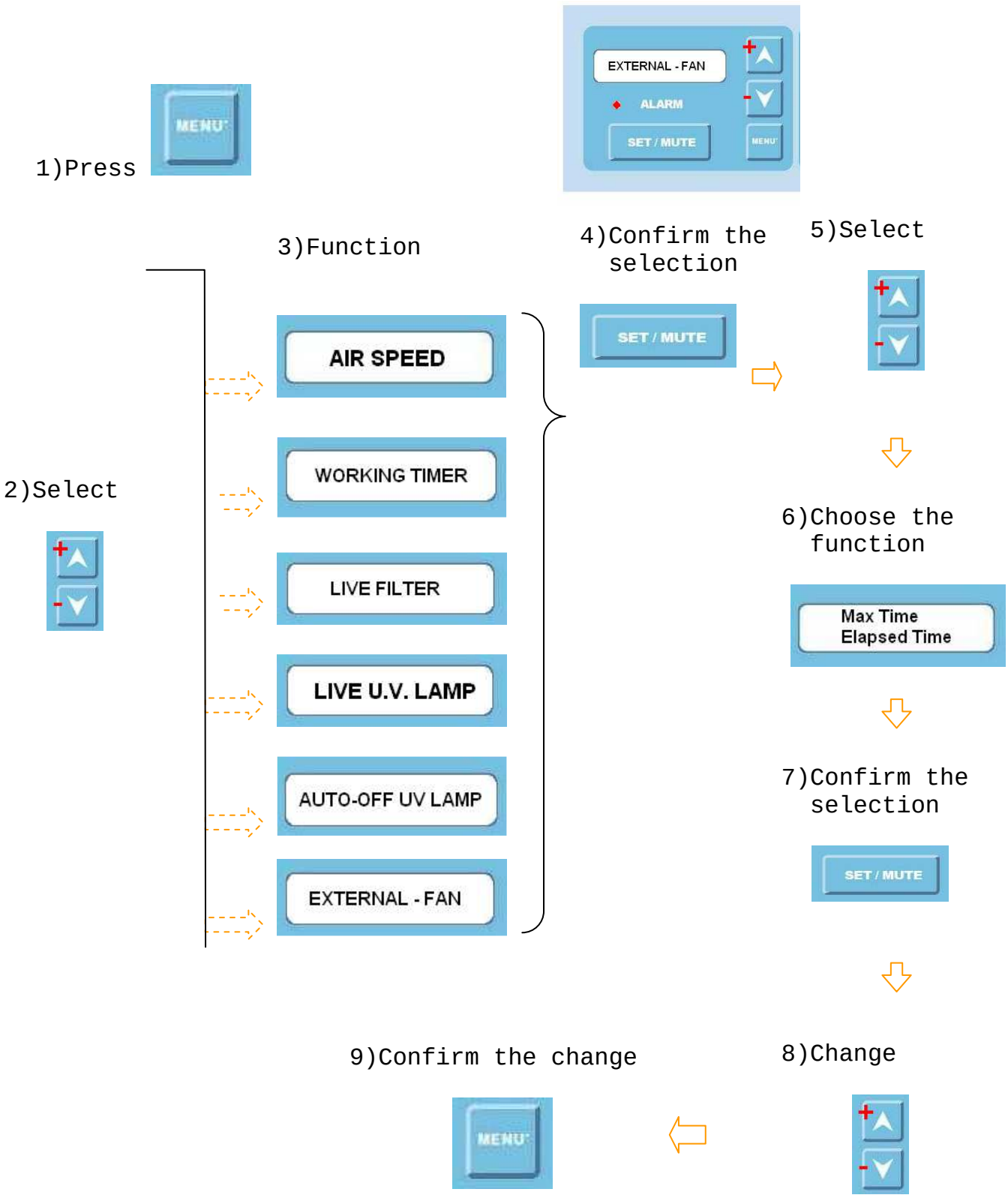
Main functions

- General ignition switch.
- Emergency switch.
- Start/stop switch for aspiration working.
- Germicidal U.V. lamp switch (only with optional 19-AC590/UVTECH).
- Neon switch.
- Adjustable halogen spotlights switch.
- Aspiration speed regulation.
- Red LED visual alarm and BUZZER acoustic alarm for filters saturation.
- Acoustic alarms silencing key.
- Working parameters change key.
- Electric frontal glass ascent/descent key.
- Hood ignition and switching off programming.
- Filter's change programming.
- U.V. lamp ignition and switching off programming (only with optional 19-AC590/UVTECH).

Description of keys and switches

	Display.
	Visual and acoustic alarm.
	**SET:** Parameters setup/change Key. **MUTE:** Alarms silencing key
	Values change keys.  Increases the values.  Decreases the values.
	Key to access the functions.
	U.V. lamp ignition switch (only with optional 19-AC590/UVTECH). **Important:** When the UV lamp is on, the aspiration system is disabled in order to safeguard the operator.
	Neon switch.
	Halogen spotlights switch.
	Electric frontal glass ascent/descent key.
	Fan ignition switch.
	Green general ignition switch.
	Emergency switch. **Important:** If this key is kept pressed accidentally, the hood doesn't work.

Example of parameters change



Aspiration speed adjustment

The fan's speed is visualized on the display. In order to change it, use the increase/decrease keys positioned over the MENU key.

Fan self-switching off

The programmable time MAX TIME can change between 0 (DISABLED, default value) and 24 hours. In order to visualize alternately set time and elapsed time, press SET/MUTE key.
ELAPSED TIME is automatically updated by the software. Normally, it is automatically zeroed after the fan's self-switching off, but it can be zeroed by the operator by pressing at the same time the increase/decrease keys placed over MENU key.

The count happens only if the fan is in operation.

Filter life

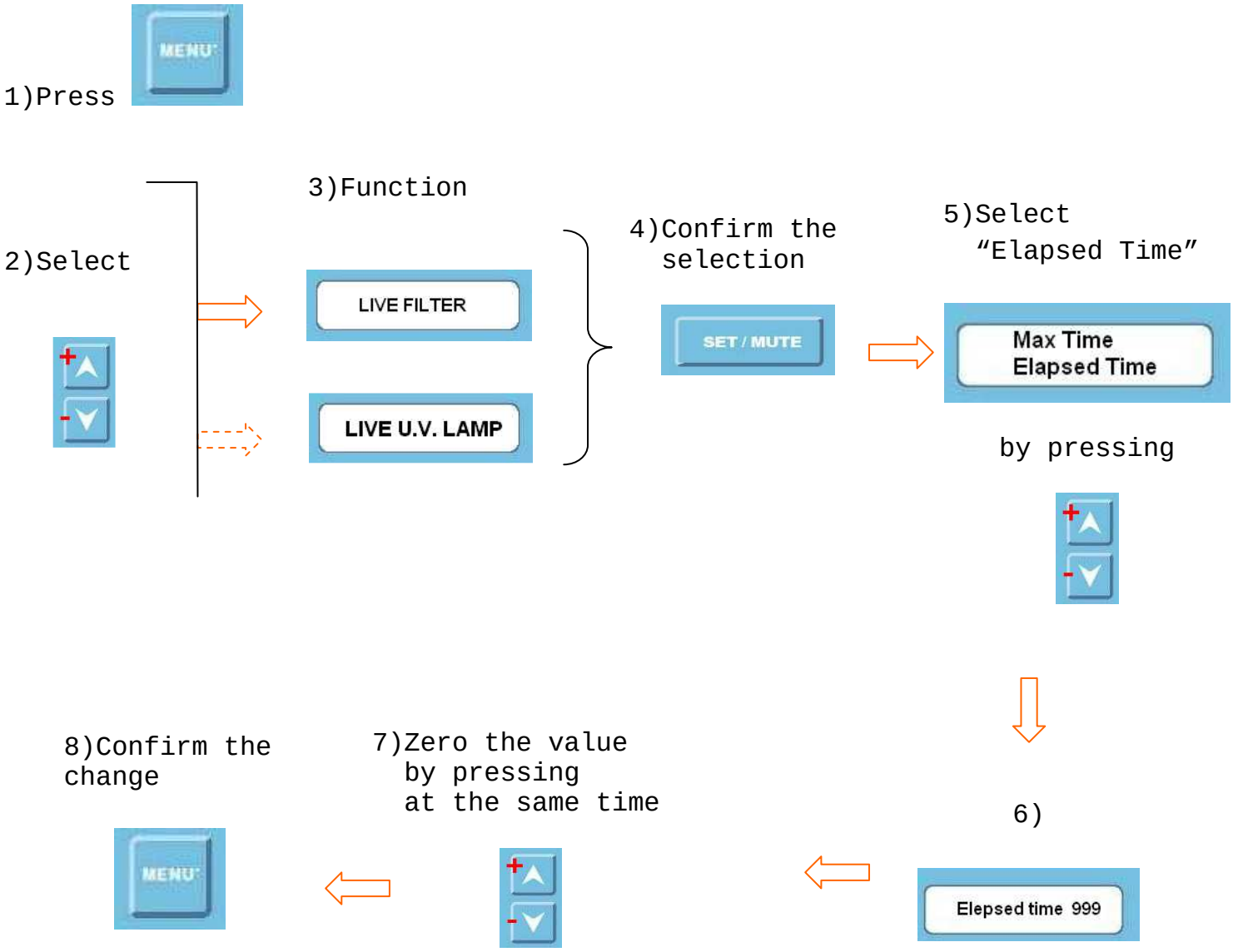
Visualizes/sets the life of the filter in order to effect the relative replacement.
The programmable time MAX TIME can change between 0 (DISABLED) and 999 hours. The default preset time is equal to 600 hours.
In order to visualize alternately set time and elapsed time (updated automatically by the software), press SET/MUTE key.

When elapsed time reaches the maximum value MAX TIME, a visual and acoustic alarm enters into action to advise the operator to change the filter because it is saturated.

In order to silence the acoustic alarm press SET/MUTE key. The red LED, instead, disappears only after zeroing ELAPSED TIME (effect this operation only after changing the filter, in compliance with the safety regulations).

How "ELAPSED TIME" of the function "LIVE FILTER" is zeroed

After changing the filter, zero ELAPSED TIME by pressing at the same time the increase/decrease keys placed over the MENU key.

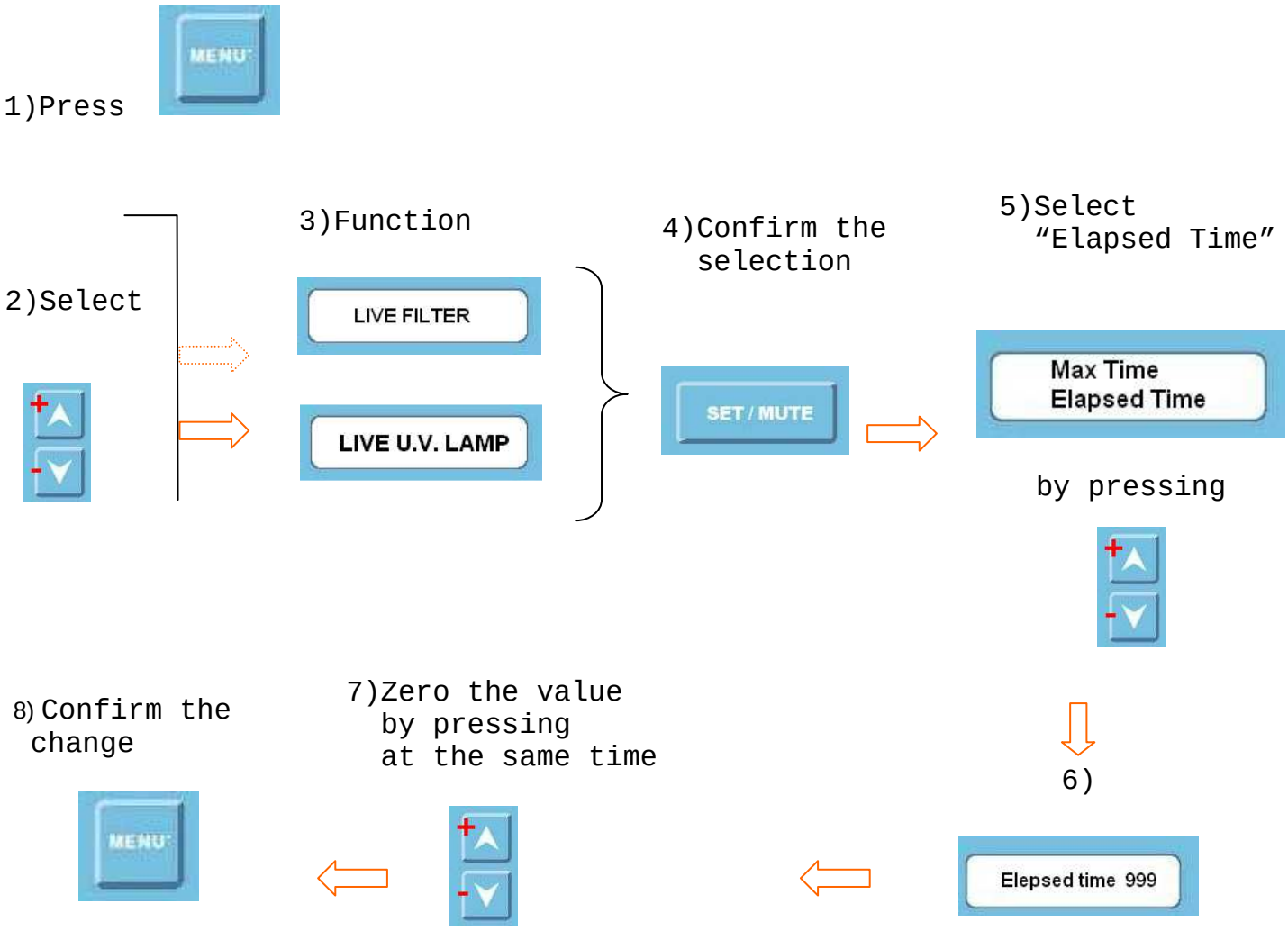


U.V. lamp 19-AC590/UVTECH life (optional accessory)

Visualizes/sets the life of the UV lamp in order to effect the relative replacement.
The programmable time MAX TIME can change between 0 (DISABLED) and 999 hours. The default preset time is equal to 300 hours, afterwards it will be necessary to replace the lamp.
In order to visualize alternately set time and elapsed time (updated automatically by the software), press SET/MUTE key.

How “ELAPSED TIME” of the function “LIVE UV LAMP” is zeroed

After changing the lamp, zero ELAPSED TIME by pressing at the same time the increase/decrease keys placed over the MENU key.



UV lamp self-switching off

Visualizes/sets the UV lamp self-switching off.

The programmable time MAX TIME can change between 0 (DISABLED) and 999 seconds. The default preset time is equal to 800 seconds.
ELAPSED TIME is automatically updated by the software. The count happens only if the lamp is in operation. Normally, it is automatically zeroed after the lamp's self-switching off, but it can be zeroed by the operator by pressing at the same time the increase/decrease keys placed over MENU key.
It is possible switch off the lamp simply by pressing the lamp ignition key.

Important: When the UV lamp is on, the aspiration system is disabled in order to safeguard the operator.

Working with external fan

This function is used only if the fan is not installed inside the hood but is situated outside. This parameter can have only two values: DISABLED (default value) and ENABLED. The filter's life computation system does not to change in case of external fan.

Software features

- During the parameters visualization/change, the selected function continues working normally.
- The parameters changes are executed by the software in real time.
- The parameters and timers state are saved automatically on internal EPROM every hour and for every exit from the screen of a parameter by pressing the MENU key.

Alarms function

When a determinate function reaches the maximum value MAX TIME, a visual and acoustic alarm enters into action and the display shows the function in alarm (WARNING).

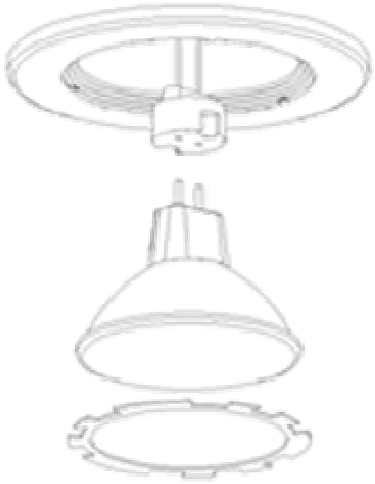
In order to silence the acoustic alarm press SET/MUTE key. The red LED, instead, disappears only after zeroing ELAPSED TIME (effect this operation only after changing the filter or UV lamp, in compliance with the safety regulations).

8) REPLACING THE LAMPS

Led lamp

For the replacement of the led lamp contact the technical assistance service.

Halogen spotlights



1) Switch off the instrument and unplug the cable form the socket.

2) Remove the fixing ring of the lamp.

3) Replace the lamp using an identical model.

4) Replace the fixing ring.

5) Dispose the lamp in compliance with the regulation in force.

UV lamp 19-AC590/UVTECH (optional accessory)

1) Switch off the instrument and unplug the cable form the socket.

2) Unthread the two plastic blocks placed at the ends of the lamp holder by pressing the lever and, at the same time, by pushing outwards the block.

3) Extract the lamp rotating it of 90° clockwise or anticlockwise.

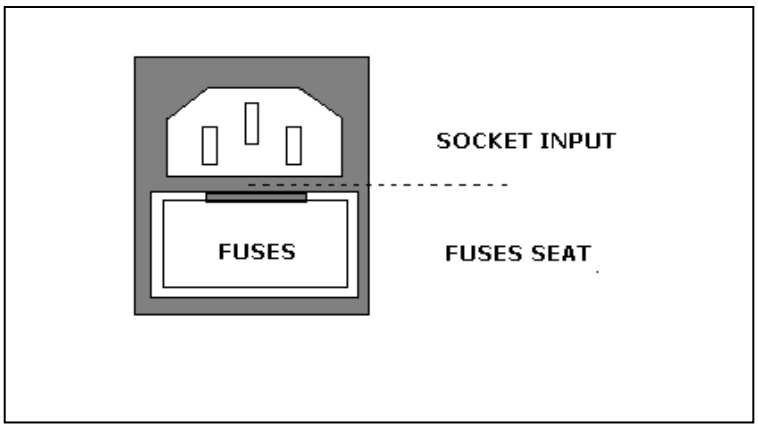
4) Insert the new lamp and block it rotating of 90°. Verify the ignition by pressing the switch on the control panel. In case of non-ignition, check that the switch situated on the back side of the lamp is on.

5) Replace the plastic protection and the two blocks by pushing them inwards.

6) Dispose the lamp in compliance with the regulation in force.

9) REPLACING THE FUSES

1) If the instrument doesn't start, check that the electric cable has been connected properly, there is current and the two fuses under the instrument's socket aren't burnt.
If necessary, change them with fuses of identic value.



N. 2 delayed fuses placed in the fuses holder socket: of 10 A – T10AH250V. Switch off the appliance and unplug the cable from the socket. Make a light pressure on the little case covering the fuses (if necessary using a little screwdriver), change them and close the case.

2) If the green switch is on but the hood doesn't work, check, and if necessary replace, the delayed fuse placed inside the control panel: of 3,15 A 5x20 mm – T3.15AH250V.

10) GARBAGE DISPOSAL UNIT 19-AC504/TR (OPTIONAL ACCESSORY)

The garbage disposal unit is used to avoid possible obstructions in the draining pipes. It is provided with stainless steel working chamber and rotating parts and a pedal control for the starting.

Important:

1) The garbage disposal unit must be absolutely used running abundantly water into the sink.

2) In order to start it, press the provided pedal.

3) Do not insert metal or plastic objects.

4) Do not insert the hands in the working chamber for any reason.

5) Do not use it in case of absence of water in the draining basin.

6) After using it, effect the cleaning in the following way: leave the garbage disposal unit in function for 5/10 seconds running abundantly water. It is possible to add non-corrosive disinfectant.

11) CLEANING AND MAINTENANCE

Cleaning

A proper standard of hygiene and the routine maintenance of the laboratory are necessary to keep the instrument in good working conditions. The operator is responsible for the proper cleaning of the hood.

1) Use only products suitable for steel surfaces. Do not use brushes with hard bristles nor abrasive sponges or detergents in order to avoid ruining the surface.
2) Wear anti-cut gloves over or under the common gloves to avoid possible accidents.
3) The hood is made of AISI 304 stainless steel, resistant against a lot of solvents and acids except for muriatic acid that might cause a rust effect.
4) In case of accidental pouring of dangerous or corrosive material, remove every trace of substance immediately. The prolonged contact of such substances with steel might stain it and, in extreme cases, corrode it.
5) The control panel keys are sealed by a membrane which prevent liquids or dirt from entering. It is recommended, however, to clean periodically the panel surface with a soft and damp cloth and avoid the contact with hydrocarbons and chemical substances (xylol, toluol, ecc.) which might damage it.

Maintenance

Daily

- Wash the basins and the working surface using the extractable shower and suitable products.
- Control the outlet of the basins placed under the perforated working surface, in order to avoid accidental leaks of liquids in the aspiration chambers.
- In case of use of the garbage disposal unit, observe the instructions in paragraph 9) Garbage disposal unit on page 23.

Half-yearly

- Control that the filter isn't obstruct by formalin salts or dust and that isn't consumed. Effect the replacement if necessary. The hood is, however, provided with visual and acoustic alarm in case of filters saturation. See paragraph 6) Control panel, Filter life on page 17.

Annually

Effect the following main operations:

- Verify the wholeness of stainless steel structure (working surface and sinks), power supply cable and aspiration tube.
- Measure the frontal aspiration speed using an anemometer.
- Replace filter, prefilter and HEPA filter (if installed) apart form the use of the hood.
- Inspect the possible aspiration tube.
- Effect the maintenance of the sliding frontal glass: verify the cords of the counterbalances, oil the pulleys, test the safety stops.
- Verify the wholeness of inlet/outlet pipes and absence of leaks in the plumbing.
- Effect the electric controls inspecting control panel, fan, lighting (neon, spotlights).
- Cleaning and general working.

12) OPTIONAL ACCESSORIES

Item	Description	Code
1	Ruler divided into millimetres.	19-AC373
2	Garbage disposal unit with pedal control.	19-AC504/TR
3	Professional dictaphone with microphone and pedal control.	19-AC535/DP
4	U.V. lamp with self-switching off programming and rolling protection curtain. (*)	19-AC590/UVTECH
5	Formalin suction filter (included in formalin dispensing system).	19-AC591/FPF
6	Stainless steel filter for formalin sink.	19-AC592/FVF
7	Support for dictaphone microphone (with flexible arm).	19-AC593/SMD
8	Magnetic knife holder.	19-AC594/SMP
9	Paper handkerchief distributor.	19-AC595/DF
10	Stainless steel filter for water sink.	19-AC596/FL
11	Activated charcoal filter in alternative to alumina filter 19-FT300AL.	19-FT300CA
12	Swivel stool.	19-GOR/5
13	HEPA filter.	19-HEPA001
14	Footboard.	19-PEDTMB
15	Cold light articulated lamp with 3 dioptres magnifier.	19-001
16	Spare lamp for UV system 19-AC590/UVTECH.	37-LAMPUV
17	Macro Digital Imaging System version in trimming tech with pc touch screen. (*)	50-200-000
18	Macro Digital Imaging System version in stand with pc touch screen. (*)	50-200-001
19	Macro Digital Imaging System version in trimming tech with pc desk top. (*)	50-200-100
20	Macro Digital Imaging System version in stand with pc desk top. (*)	50-200-101

(*) These accessories can be installed only at the time of production, not afterwards.

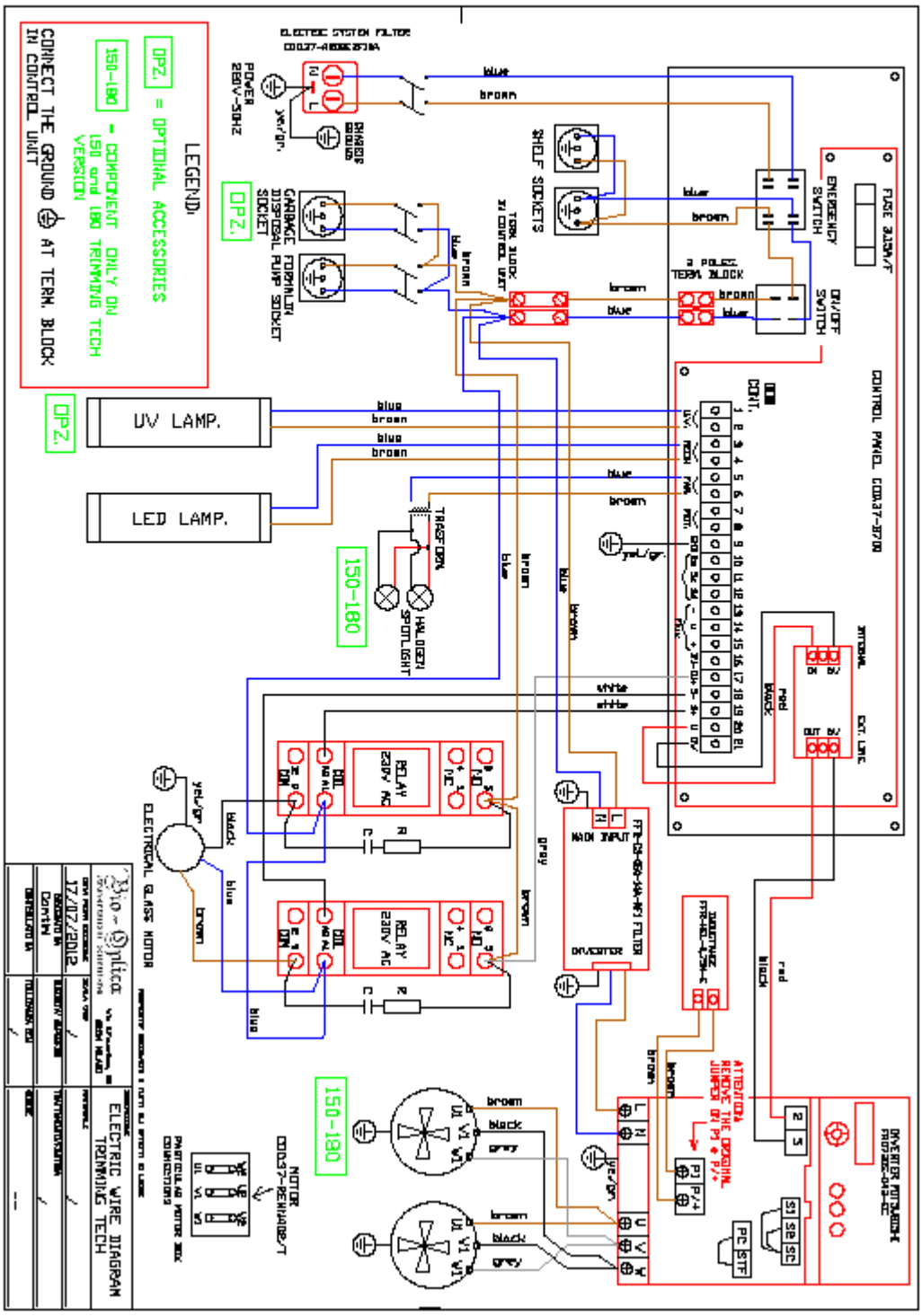
Photo of Macro Digital Imaging System integrated in the hood.

13) MAIN COMPONENTS

CODE	DESCRIPTION	QUANTITY
19-AC515/PS	polyethylene plate for pieces reduction	1
19-FT300AL	alumina filter for formalin	1
19-PRE300	prefilter	1
37-AR09E2F10A	10 ampere wire filter	1
37-B700	control card	1
50-AC01CF	filtering basket for formalin sink	1
50-AC02CV	stainless cover for formalin sink	1
37-C4140/16	schuko socket	2
37-F881NA/10	10 ampere automatic	1
37-IT350	interface card for inverter	1
37-PANTECH	panel	1
37-REMN402/T	three-phase fan	1
37-1045	power supply cable	1
37-4064	spotlight	2
37-24502	IP55 CASE	2
37-1200075/N	inverter	1
37-INDUT	inductance	1
37-RUOTA	trolley wheel	2
37-RUOTAF	trolley wheel with brake	2
37-GLASS-PROF	guide	3 MT
37-MOT-FORM	motor	1
37-FORM-PUMP	pump	1
19-AC591/FPF	plastic suction filter	1
16-1622	pipe	1 mt
37-C4140/16	schuko socket	1
37-F881NA/10	10 ampere automatic	1
37-GW44236	box	1
37-TC10	tank with cap	2
37-TPAM	overflow tab	1
36-138-278	tank connector for formalin suction	1
37-138-307	quick connector for formalin pump pipe	1
37-179-5103	file	1
37-179-5068	connector	1
37-234-4166	connector	1
37-316-945	foot-switch	1
37-319-720	switch for formalin pump	1
37-348-7999	float	1
37-367-5938	connector	1
37-776-397	connector	1
37-24502	IP55 case for socket	1
37-PED-TECH	pedal	1
37-MOV-GLASS	motor for glass	1

37-GW40026	box	1
37-RELEVE	relay	2
37-ZOCCOLOVE	base	2
37-CONDVE	condenser	2
37-RESVE	resistance	2
37-TUBOLED	led tube	2
37-PORTALED	lamp holder	2
37-LAT-GLASS	lateral glass	2
37-SHOWER	shower	1
37-EROG	supply mouth	2
37-RUB-LAV	tap for basins wash	1
37-DAD-RUBLAV	nut	1
37-RUB-SHOWER	tap	1
37-DAD-RUB	nut for tap	1
37-PIE-TECH	foot	4
37-PUNT-PIE	push rod for foot	4
37-CERTECH	hinge	2
37-GANCER	hook for hinge	2
37-CERTECH2	narrow hinge	2
37-TUBOFLEX40	pipe ∅ 41,3	2
37-TUBOFLEX60	pipe ∅ 63,5	2,30
37-FONO	deadening	0,5
37-VOLMTECH	hand-wheel male	2
37-VOLFTECH	hand-wheel female	12
MU-TRIMMINGTECH	user manual	1

14) ELECTRIC WIRING DIAGRAMS - Hood



Formalin dispensing system

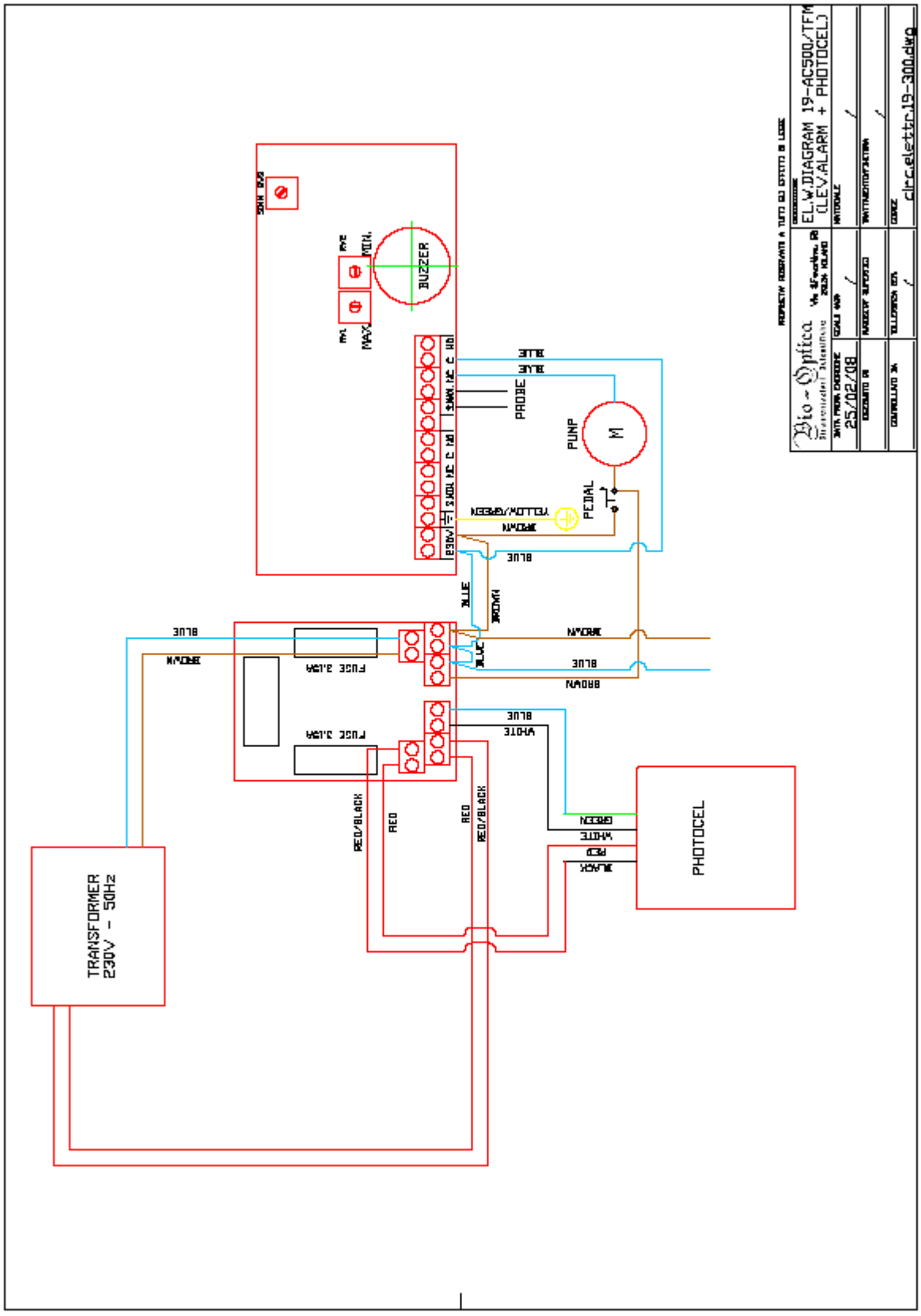
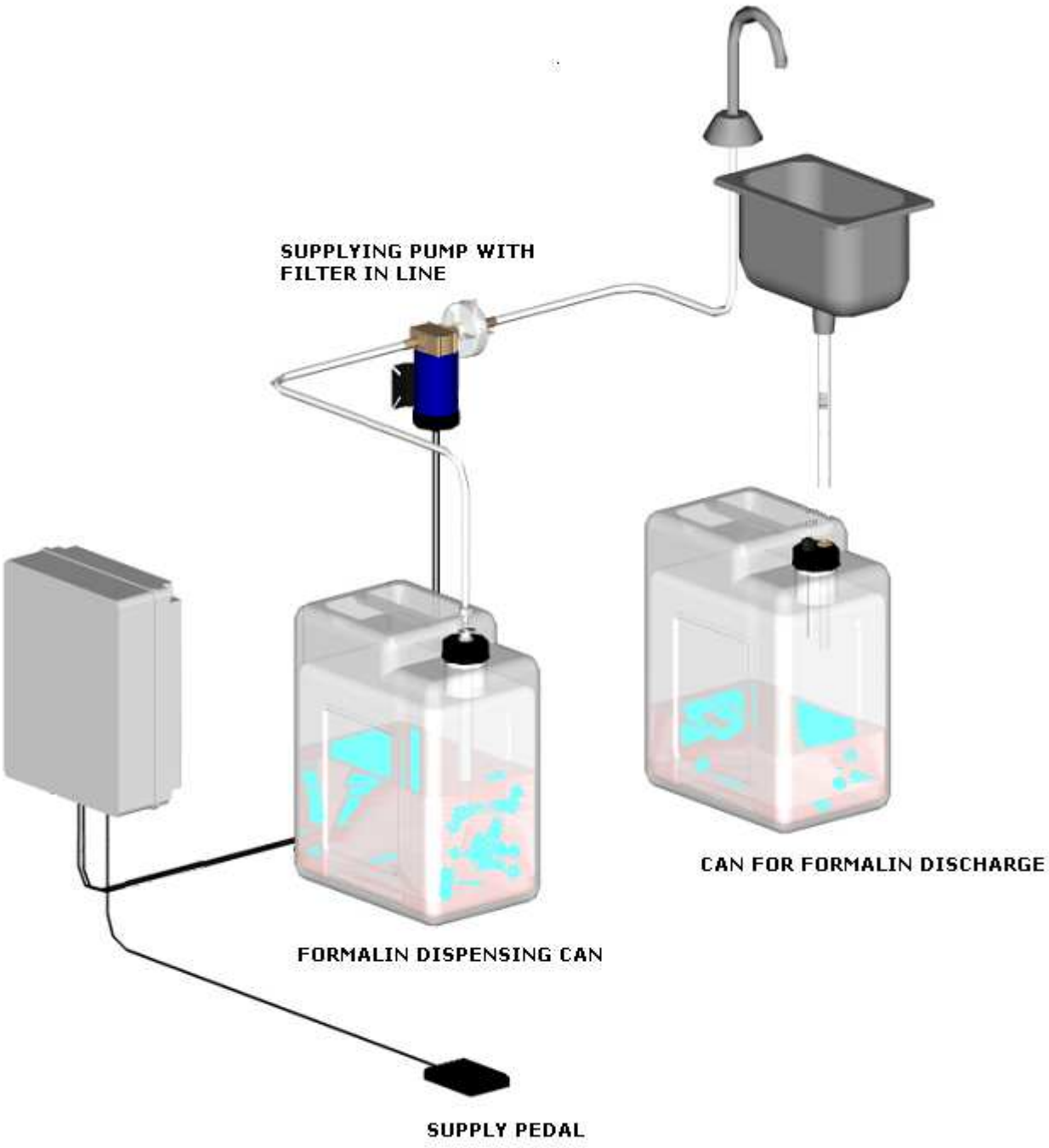


Diagram of formalin dispensing system



Milano, 10 settembre 2013

15) DICHIARAZIONE DI CONFORMITA' / DECLARATION OF CONFORMITY KONFORMITÄTSERKLÄRUNG / DECLARATION DE CONFORMITE

Nome e indirizzo della ditta Name and address of the firm Name und Adresse der Firma Nom et adresse de l'enterprise	BIO OPTICA Milano S.p.A. Via S.Faustino, 58 20134 MILANO C.F./P.IVA 06754140157
Dichiariamo sotto la nostra responsabilità che / We declare under our sole responsibility that Wir erklären in alleiniger Verantwortung, dass / Nous declarons sous notre propre responsabilitè que	
il dispositivo medico-diagnostico in vitro the in vitro diagnostic medical device das Medizinprodukt für die In-vitro_Diagnostik le dispositif mèdical de diagnostic in vitro	**TRIMMING TECH 90, 130, 150, 180**
della classe: of class: der Klasse: de la classe:	Altro Other Sonstiges produrti Autre
soddisfa tutte le disposizioni della direttiva 98/79/CE e successive modifiche ed integrazioni che lo riguardano meets all the provisions of the directive 98/79/EC and following amendment which apply to it allen Anforderungen der Richtlinie 98/79/EG entspricht, die anwendbar sind remplit toutes les exigences de la directive 98/79/CE et modification qui lui sont applicables	
Norme nazionali o armonizzate applicate Applied harmonised standards and National standards Angewandte harmonisierte Normen, nationale Normen Normes harmonisées et normes nationales	– EN 375 – EN 980 – EN ISO 14971 – EN 60601-1-2 – EN 61010-1 – EN 61010-2-101
	Edizione in vigore alla data di emissione del documento/Current ed. at document date/Aktuelle Ausgabe am belegdatum/Édition actuelle à la date du document

BIO-OPTICA MILANO SPA
Legale Rappresentante
Carlo Sbona