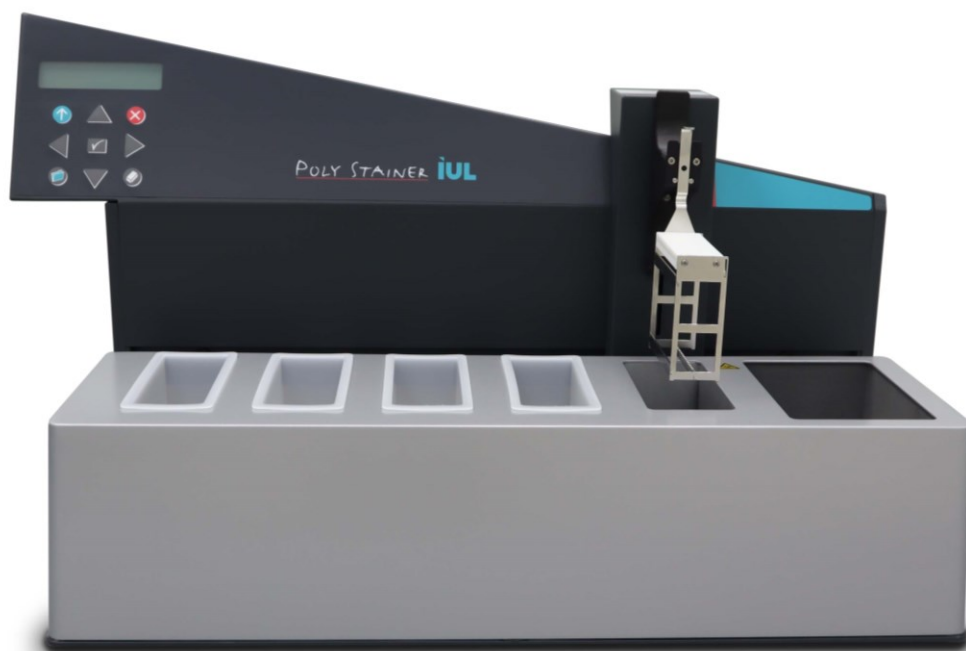


Poly Stainer

Instructions for Use

Automatic Slide Stainer



Doc. 50007893-04

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INDICATION OF THE INTRODUCED MODIFICATIONS

If it's the first time that you use Poly Stainer, please read the entire document carefully.

If it's not the first time that you use Poly Stainer and you use it before, in the table below you can read the indication of the introduced modifications.

Revision	Description of change
04	Update format
	Update section 1.2.1
	Update section 3.1
	Update section 4
	Update section 5
	Update section 6
	Update Appendices

1. INTRODUCTION

Thank you for choosing the Poly Stainer. We are confident that this instrument will become an integral part of your laboratory.

Before using the Poly Stainer, it is essential that you read these Instructions for Use carefully. Following the instructions and safety information in this user manual will ensure safe operation and maintain the system in a safe condition.

1.1. Intended use of the Poly Stainer

Automating slide staining is a must for labs that wish to increase their yield. The Poly Stainer performs standardized staining procedures that free lab staff from labor-intensive staining procedures. General microbiology and histology labs that seek to reduce sample staining workloads will greatly benefit from its use.

Up to 20 microscope slides are loaded in the Poly Stainer basket. Next, the robotic arm will dip and stir these through four exchangeable plastic wells. Slides can be dipped in a fifth drainable water well that ensures water will be renewed after rinsing each slide basket. Last, slides can be fan dried with or without heat. The four reagent wells in the system allow the performance of an extremely broad array of stains.

1.2. General Information

1.2.1. of delivery

The delivery includes the following items:



- A. Poly Stainer G2 (Cat. 10005100).
- B. Stainless steel overflow level (Cat. 90005416).
- C. Drying rubber tube (Cat. 90005400).
- D. PVC Jets diam. 1.25 mm (white), 1.75 mm (grey), and 2.00 mm (red) (Cat. 90005454).
- E. Outlet silicone tube (Cat. 90005414).
- F. Plastic containers with cover, 4 units (Cat. 90005418).
- G. Power cord (Cat. 90004017, 90004018, 90004019).
- H. Inlet water tube (Cat. 90005415).
- I. Basket for slides lateral load (Cat. 90005316).
- J. Poly Stainer Short Instructions for Use (Cat. 50005413).
- K. Poly Stainer Instructions for Use (Cat. 50007893).

1.2.2. Technical assistance

At IUL SA we pride ourselves on the quality and availability of our technical support. Our Technical Service Department is staffed by experienced technicians with extensive practical and theoretical expertise in the use of IUL SA products. If you have any questions or experience any difficulties regarding the Poly Stainer or IUL SA products in general, do not hesitate to contact us.

IUL SA customers are a major source of information regarding advanced or specialized uses of our products. This information is helpful to other customers as well as to the researchers at IUL SA. We, therefore, encourage you to contact us if you have any suggestions about product performance or new applications and techniques.

For technical assistance, contact the IUL SA Technical Service Department (support@iul-inst.com) or local distributors.

1.2.3. Policy Statement

It is the policy of IUL SA to improve products as new techniques and components become available. IUL SA reserves the right to change the specifications of products at any time.

In an effort to produce useful and appropriate documentation, we appreciate your comments on this user manual. Please contact IUL SA Technical Service with any feedback.

1.2.4. Requirements for Poly Stainer users

Table 1 covers the general level of competence for the use and servicing of the Poly Stainer.

Task	Personnel	Training and experience
Routine use	Laboratory technicians or equivalent	Training in techniques for laboratory instrument operation.
Servicing	IUL SA Service Specialists only	Trained, certified, and authorized by IUL SA.

2. SAFETY INFORMATION

Before using or servicing the Poly Stainer, it is essential that you read this user manual carefully. Following the instructions and safety information in this user manual will ensure safe operation and maintain the system in a safe condition.

The following types of safety information appear throughout the Poly Stainer Instructions for Use.

WARNING 	The term WARNING is used to inform you about situations that could result in personal injury to you or other persons. Details about these circumstances are given in a box like this one.
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CAUTION 	The term CAUTION is used to inform you about situations that could result in damage to the instrument or other equipment. Details about these circumstances are given in a box like this one.
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The advice given in this manual is intended to supplement, not supersede, the normal safety requirements prevailing in the user's country.

2.1. Proper use

WARNING/ CAUTION 	Risk of personal injury and material damage Improper use of the Poly Stainer instrument may cause personal injury or damage to the instrument. The instrument must only be operated by qualified personnel.
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CAUTION 	Damage to the instrument Avoid spilling water or chemicals onto the Poly Stainer instrument. Damage caused by water or chemical spillage will void your warranty.
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In case of emergency, switch off the Poly Stainer at the power switch and unplug the power cord from the power outlet.

2.2. Electrical safety

If the operation of the Poly Stainer is interrupted in any way (e.g., due to interruption of the power supply or a mechanical error), first switch off the instrument using the power switch, then disconnect the electrical cord from the power outlet. Contact IUL SA Technical Service after such an incident.

WARNING 	Electrical hazard Any interruption of the protective conductor (earth/ground lead) inside or outside the instrument or disconnection of the protective conductor terminal is likely to make the instrument unsafe. Intentional interruption is prohibited. Lethal voltages inside the instrument When the instrument is connected to line power, its terminals may be live. Opening covers or removing parts is likely to expose live parts. In case of replacement or a loosening of the mains power cord, this must be replaced <u>only</u> with one of the power cords listed in Appendix A: Ordering Codes, delivered by IUL SA.
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To ensure safe and satisfactory operation for Poly Stainer routine use or after servicing:

- The line power cord must be connected to a line power outlet that has a protective conductor (earth/ground).
- The instrument must not be operated with the cover removed.
- If liquid has spilled on the instrument, switch it off, disconnect it from the power outlet, and contact IUL SA Technical Services.

If the Poly Stainer becomes electrically unsafe, prevent other personnel from operating it, and contact IUL SA Technical Service.

The instrument may be electrically unsafe if:

- The instrument or the power cord appears to be damaged.
- The instrument has been stored under unfavorable conditions for a prolonged period.
- A different mains power cord or fuse is used other than the one provided by IUL SA.

2.3. Environment

Operating conditions

WARNING 	Explosive atmosphere The Poly Stainer is not designed for use in an explosive atmosphere.
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2.4. Biological safety

Use safe laboratory procedures as outlined in publications such as *Biosafety in Microbiological and Biomedical Laboratories*, HHS:

<http://www.cdc.gov/od/ohs/biosfty/biosfty.htm>

WARNING 	Samples containing infectious agents Some samples used with the Poly Stainer may contain infectious agents. Handle such samples in accordance with the required safety regulations. The responsible person(s) (e.g., laboratory manager) must take the necessary precautions to ensure that the workplace is safe and that the instrument operators are suitably trained and not exposed to hazardous levels of infectious agents, as defined in the applicable Safety Data Sheets (SDSs) or OSHA ¹ ACGIH ² or COSHH ³ documents. Venting of fumes and disposal of wastes must be in accordance with all national, state, and local health and safety regulations and laws.
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¹ OSHA: Occupational Safety and Health Administration (United States of America).

² ACGIH: American Conference of Government Industrial Hygienists (United States of America).

³ COSHH: Control of Substances Hazardous to Health (United Kingdom).

2.5. Chemicals

WARNING 	Hazardous chemicals Some chemicals used with the Poly Stainer may be hazardous. Always wear safety glasses, gloves, and a lab coat. The responsible person(s) (e.g., laboratory manager) must take the necessary precautions to ensure that the workplace is safe and that the instrument operators are suitably trained and not exposed to hazardous levels of toxic substances (chemical or biological), as defined in the applicable Safety Data Sheets (SDSs) or OSHA, ACGIH or COSHH documents. Venting of fumes and disposal of wastes must be in accordance with all national, state, and local health and safety regulations and laws.
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2.6. Maintenance safety

CAUTION 	Damage to the instrument Do not use spray bottles containing alcohol or disinfectant to clean the surface of the Poly Stainer instrument or its parts. Spray bottles should be used only to clean items that have been removed from the instrument.
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WARNING 	Risk of electric shock Do not open the panels on the instruments. Risk of personal injury and material damage Only perform maintenance that is specifically described in these Instructions for Use.
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2.7. Waste disposal

Used consumables, such as sample tubes or bags, may contain hazardous chemicals or infectious agents. Such waste must be collected and disposed of properly in accordance with local safety regulations.

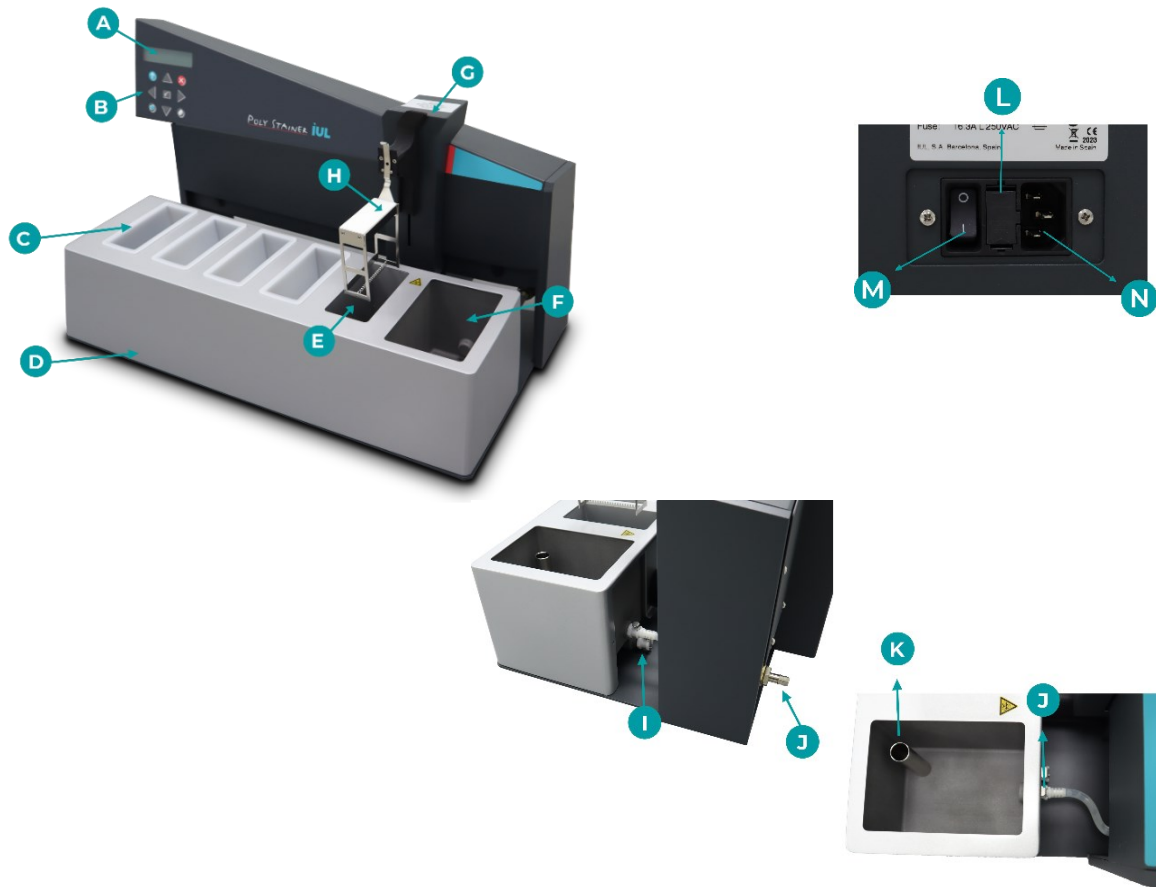
For disposal of waste electrical and electronic equipment (WEEE) see Ordering Codes .

2.8. Symbols on the Poly Stainer instrument

Symbol	Location	Description
	Type plate on the back of the equipment	Waste Electrical and Electronic Equipment (WEEE).
	Type plate on the back of the equipment	CE Mark, Declaration of Conformity, see EU Declaration of Conformity.
	Type plate on the back of the equipment	FCC Mark, see FCC Statement.
	Type plate on the back of the equipment	China RoHS, see China RoHS Statement.
	Plate on the back of the equipment	DC Jack output for the Quick Drain System (12V@2A).
	Plate on the upper part of the container tray	Biological risk if samples contain infectious agents.

3. GENERAL DESCRIPTION

3.1. Device Overview



- A. Display
- B. Keyboard
- C. Plastic container with a cover
- D. Stainless Steel container tray
- E. Drying vat
- F. Rinsing vat
- G. Lifting unit
- H. Basket for slides lateral load
- I. Outlet fitting
- J. Water inlet
- K. Stainless steel overflow level
- L. Fuse Holder
- M. Main Switch
- N. Power cord socket

3.1.1. Power cord considerations

The Poly Stainer is equipped with a power cable with a plug suitable for the destination country. See the packing list for details.

WARNING 	Risk of electric shock In case of replacement or a loosening of the mains power cord, this must be replaced <u>only</u> with one of the power cords listed in Appendix A: Ordering Codes, delivered by IUL SA.
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4. INSTALLATION

4.1. Unpack the instrument



CAUTION 	Damage to the instrument When unpacking or moving do not pull the instrument by taking the lifting unit (yellow circle in the above picture). Do not transport, remove or store the unit without its packaging.
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The packaging of the Poly Stainer can be stored for reuse.

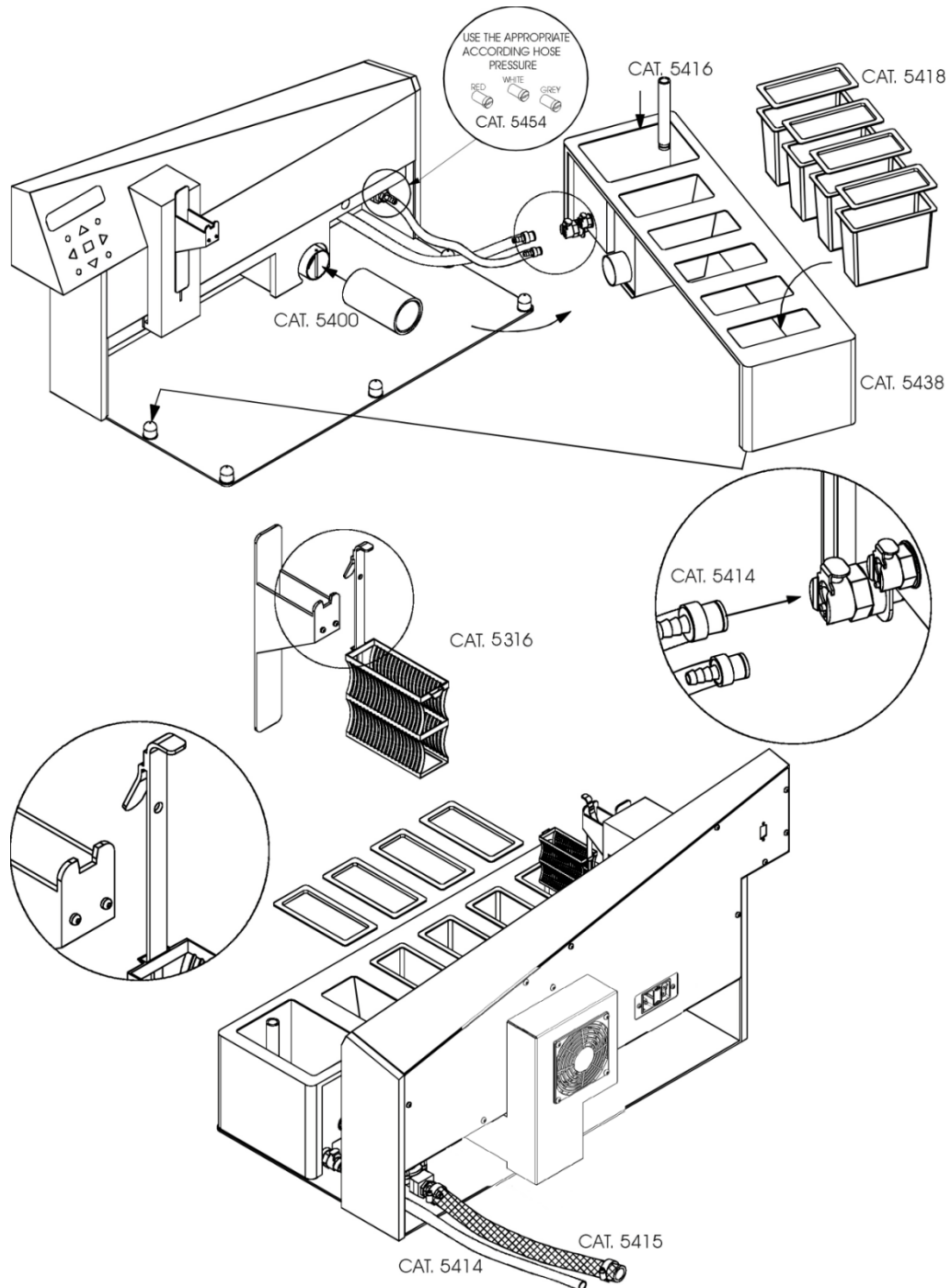
4.2. Site requirements

Place the Poly Stainer instrument on a level, stable surface, ideally a firmly secured bench top, near an earthed/grounded electrical outlet. Allow at least 10 cm (4 in) of clearance on all sides of the unit for proper ventilation. While operating, make sure that the instrument does not touch other objects. Locate it away from vibration-sensitive instruments, such as an analytical balance.

Ensure that there are no special difficulties to operate the ON/OFF switch located at the rear part of the instrument.

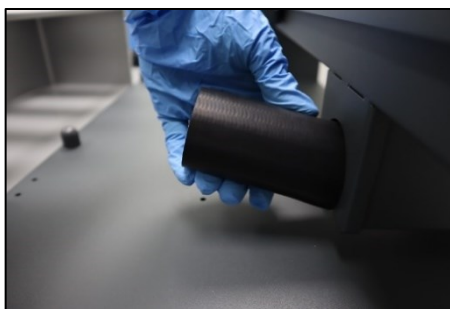
4.3. Parts assembling

Before switching on the instrument, assemble all parts according to this drawing:



Below, you will find the step-by-step instructions for assembling the instrument:

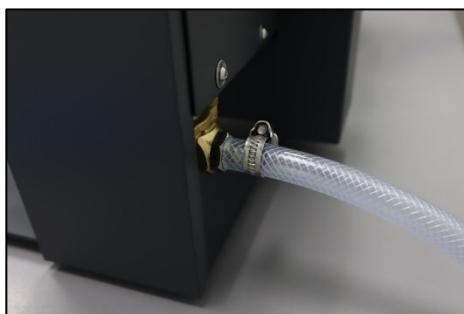
- 1- Place the air duct tube (Cat. 90005400) at a slight angle on the hot air outlet



- 2- Attach the inox container tray (Cat. 900005438) to the instrument base by aligning the air duct tube and snapping the tabs on the instrument's base together.

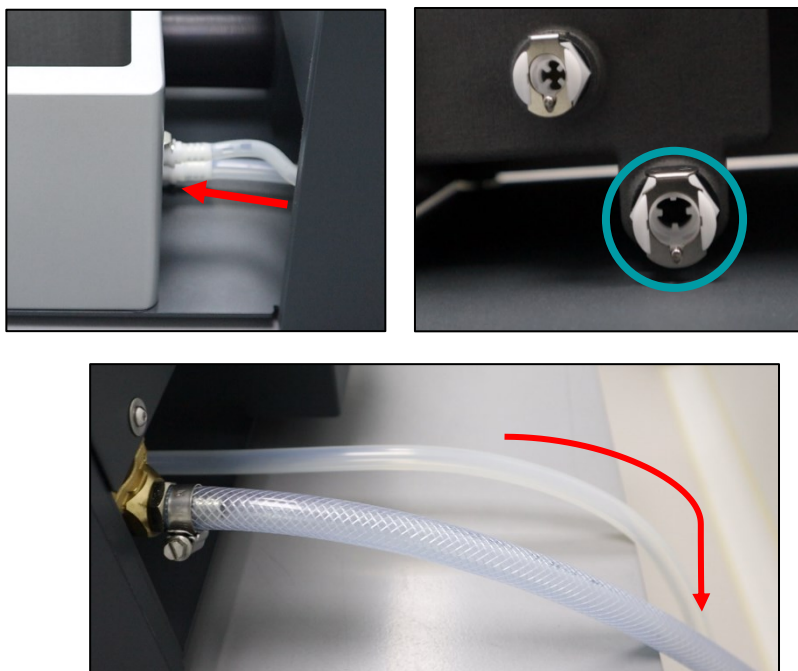


- 3- Connect the water inlet tube (Cat. 90005415) to the designated water inlet position and on the water rinse container.



Note: Ensure that the tube is tightly fastened.

- 4- Connect the water outlet tube (Cat. 90005414) to the designated water outlet position on the water rinse container.



Note: Ensure that the water outlet tube slopes downward and is free from any kinks or obstructions.

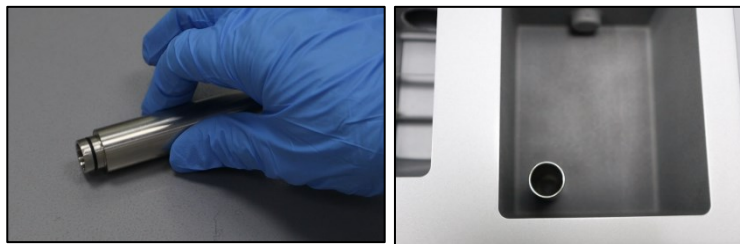
Note: Depending on the water quality, it is recommended to install a filter on the water inlet to prevent potential damage to the electro valve

- 5- The Poly Stainer delivery includes three plastic jets (Cat. 90005454) with different colors and diameters. These jets allow adjustment of the instrument according to the water flow pressure. Screw in the appropriate jet to the water valve output based on the following conditions::
- If the water flow has excessive pressure and splashes, use the white jet (1.25 mm $\varnothing$).
 - If the water flow has low pressure and filling takes a long time, use the grey jet (1.75 mm $\varnothing$), or even the red jet (2.00 mm $\varnothing$).



Note: The standard black jet (1.50 mm $\varnothing$) is pre-installed by default.

- 6-** Place the stainless-steel overflow pipe (Cat. 90005416) into the water rinse container.



- 7-** Insert the four reagent containers (Cat. 90005418) into their designated positions.



- 8-** Install the stainless-steel basket (Cat. 90005316) for side loading of slides into the lift assembly unit.



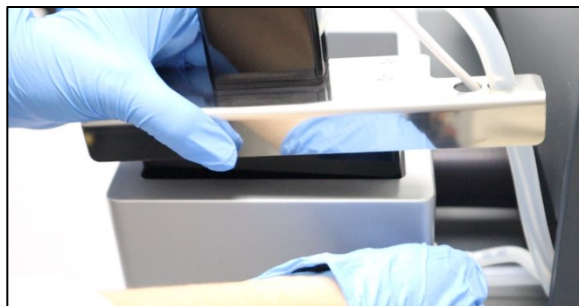
- 9-** Connect the provided power cord to the socket on the instrument, plug the instrument into an electrical outlet, and power ON the Poly Stainer device.

10- Optionally, attach the methacrylate cover accessory (Cat. 900011135).



11- Optionally, install the quick drain accessory (Cat. 900011846).

Place the Quick drain accessory (Cat. 900011846) inside the water rinse container.



Note: Ensure that the water outlet tube slopes downward and is not kinked or pinched.

12- Connect the cable to the designated plug located on the back of the instrument.



4.4. Power cord connection

The socket for connecting the power cable is on the back of the Poly Stainer instrument.

1. Connect the supplied power cord to the socket on the instrument.
2. Plug the instrument into the electrical outlet.

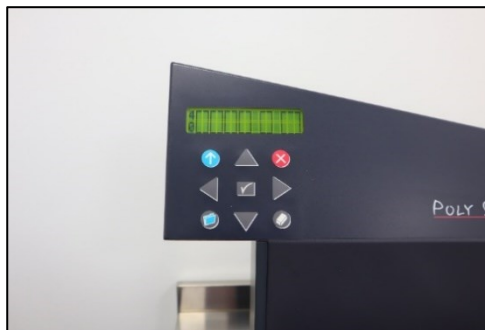
When the Poly Stainer is not in use for a longer period, we recommend disconnecting the power cable.

WARNING 	Risk of electric shock In case of replacement or a loosening of the mains power cord, this must be replaced <u>only</u> with one of the power cords listed in Appendix A: Ordering Codes, delivered by IUL SA.
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5. OPERATING PROCEDURES

5.1. Functions of the Keyboard

- Use the up/down scrollers ▲▼ to increase or decrease any value.
- Push ✓ key to accept one state.
- Use the left/right scrollers ◀▶ to set the destination container of the slides.
- Push 📄 key to enter a new program. This key is also used to save a new or edited program once entered all settings.
- Use ⚙ key to enter into the settings of the active program. This key is also used to edit one line of program once entered in its settings or pushed twice to erase this entire program.
- Push ⬆ key to execute a program.
- Push ✖ key to pause or stop a program.



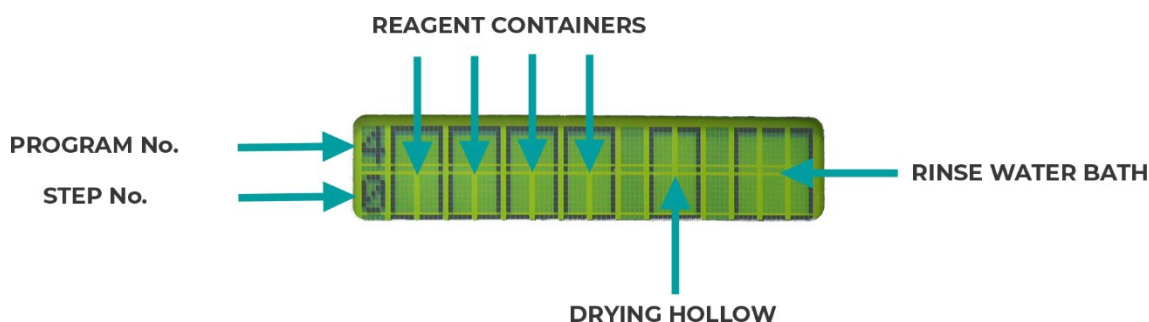
5.2. Setting a Program

The stain sequence must be established before doing any operation.

Up to ten different programs (0-9) can be stored in the internal non-volatile memory of the Poly Stainer.

Every programmed sequence can do up to ten operations (0-9).

When you start the instrument, these icons appear on the screen, which represents:



5.2.1. Create a new program

We recommend the use of the table in Appendix C: Program's recipe template for a more straightforward operation.

To create a new program, push the icon . Select the program number using   and push  to edit an already created program.

5.2.2. Programing reagent container stations

- 1- Move through all different stations using  , and place the active rectangle to the position of one of the four rectangles on the left (corresponding to the reagent containers). Then, push  to select the station.
- 2- Select the total diving time. The icon of the basket will appear on the screen blinking in the down position. Using  , set the seconds for the total time that basket will be inside the container. To accept the Total Time (down) value, push .
- 3- Select the dripping time. The icon of the basket will appear on the screen blinking in the up position. Using  , set the seconds that the basket will remain above the container dripping after sinking. To accept the dripping time (up) value, push .
- 4- Select the rest dipping time. The icon of the basket will appear on the screen steady in the down position. Using  , set the seconds that the basket will remain dipped without movement at the beginning of the operation. To accept the rest dipping (initial) value, push .
- 5- Select the oscillating dipping time. The icon of the basket will appear on the screen moving up and down in the down position. Using  , set the seconds that the basket will remain dipped and oscillating. To accept the oscillating dipping value, push .

NOTE: If the sum of set times in 'rest dipping time (initial)' and 'oscillating dipping time' is less than 'total diving time (down)', after the oscillating stage the basket will remain dipped without movement during this extra period of time.

5.2.3. Programing drying station

- 1- Move through all different stations using  , place the active square to the penultimate position (drying hollow). Then, push  to select the station.
- 2- Select the drying time. The icon of the basket will appear blinking on the screen in the lower position. Using  , set the seconds (30 seconds intervals) that the slides will remain down at this position. To accept the value, push .
- 3- The drying can be selected with forced warm air or at room temperature. To select the warming, push   keys until 0001 appears next to . Selecting 0000 implies using room temperature air.

5.2.4. Programing rinse container station

- 1- Move through all different stations using  , and place the active square in the last position (rinse water bath). Then, push  to select the station.
- 2- Select the plunging time in the water bath. The icon of the basket will appear blinking on the screen in the lower position. Using  , set the seconds that the basket will remain plunged in the water. To accept the value, push .
- 3- Select the dripping time after plunging. The icon of the basket will appear blinking on the screen in the upper position. Using  , set the seconds that the basket will remain above the bath station dripping after plunging. To accept the value, push .
- 4- An animated cross appears on the screen that represents the option of Quick Drain System (Cat. 90005310). If the mentioned system is installed, select 0001 to enable and select 0000 to disable. To accept the value, push .

Notes: The Quick Drain System consists in a water pump that drains quickly the water holder once any operation is finished at this position, increasing the productivity of the Poly Stainer.

As an optional accessory, a shorter overflow tube (Cat. 900011286) is available.

5.2.5. Finish the edition

- 1- Store the program by pushing .

5.2.6. Modify a program

To edit an already created program, select the program number using   and push  to start the edition.

Push  repeatedly to get to the wished point, correct and push again  repeatedly to finish (the totally black icon will appear on the screen), push .

5.2.7. Erase a program

To erase a program, select the program number using  .

Push 2 times  and , then the program will be removed.

5.3. Running a program

1. Select the right program using  .
2. Push the  key to execute this program.
 - a. Push the  key to pause the execution.
 - b. Push the  key for more than two seconds to stop the execution.
3. Once the program is finished, the Poly Stainer makes an acoustic signal indicating the end of operation.

5.4. Internal Parameters

Power On the instrument with the  key pushed to enter the internal parameters set up.

5.4.1. Fan

- Select "ON" to enable the function of forced air when the basket goes to the drying hollow.
- Select "OFF" to disable the fan.

5.4.2. Water Open

- Select "Previous S2" to activate the running water valve when the instrument goes to the rinse water position. (Default value)
- Select "always" to activate the running water valve while the instrument is powered ON.
- Select "all program" to activate the running water valve while the instrument is executing any program.

5.4.3. Shaking Speed

- Select any value from 1 (slow) to 4 (fast). The default value is 2.

5.4.4. Shaking Amplitude

- Select any value from 1 to 100 millimeters. The default value is 15.

5.4.5. Empty Time

- Select any value from 1 to 16 seconds to set the empty time of the rinse water container when the quick drain system is installed. The default value is 14.

5.4.6. Fill Time

- Select any value from 1 to 255 seconds to set the fill time of the rinse water container once finished the quick drain operation. The default value is 28.

5.4.7. Buzzer Time

- Select any value from 1 to 16 seconds. The default value is 5.

As soon as all the changes are done push  to end.

5.4.8. Default Settings

To leave the instrument with all default parameters:

- Start the instrument pressing .

6. TROUBLESHOOTING

Symptom	Probable cause	Recommended actions
The rinse water drain does not work (without the quick drain system).	The dirty water does not flow through the tubes.	Make sure that the tubes are not crushed or clogged. Ensure that no part of the drain hose is higher than the rinsing bath.
The rinse water drain does not work (using the quick drain system).	The quick drain system is not enabled in the current program.	Enable the quick drain system in the rinse water bath (see section 5.2.4).
	The dirty water does not flow through the tubes.	Make sure that the tubes are not crushed or clogged.
	The pump of the quick drain system is damaged.	Replace the quick drain system.
The water in the rinse container is not clean enough.	The volume of clean water used after each rinse is too small.	Increase the internal parameter named "Fill time" (see section 5.4.6), change the PVC Jet to a wider one or increase the water pressure of the inlet.
The water in the rinse container is not clean enough (using the quick drain system).	The dirty water is not drained properly.	Increase the internal parameter named "Empty time" (see section 5.4.5).
	The rinse water bath is not properly filled.	Increase the internal parameter named "Fill time" (see section 5.4.6).
The rinse water bath is always empty.	The overflow tube is not installed.	Install the overflow tube.
Water is continuously supplied in the rinse water bath.	The water pressure in the inlet is below 0.3 bar.	Increase the water pressure of the inlet above 0.3 bar.
	The electro valve is damaged or clogged by lime or pebbles.	Change the electro valve (needs Technical Service) and add a filter before the water inlet of the device.
The Poly Stainer does not start (no light on the screen).	The device has no power supply.	Check the connection of the main lead and the fuse placed on its rear side.
Just after switching on, the screen displays "Error Code 0001".	One of the end-of-travel sensors is pressed.	Switch off the device, hold the lifting unit from its bottom, and move it a little towards the center.

If the instrument is showing an error code, please write down this code along with the serial number (on the rear label) and send them to the Technical Service in your country or send an email to: support@iul-inst.com.

7. MAINTENANCE

7.1. Cleaning procedure

Disconnect the Poly Stainer from the power supply for cleaning. Use a lightly moistened cloth or an antistatic cloth. Do not use cleaning agents or abrasive solvent products.

CAUTION 	Damage to the instrument Do not use spray bottles containing alcohol or disinfectant to clean the surfaces of the Poly Stainer instrument or its parts. Spray bottles should be used only to clean items that have been removed from the instrument.
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7.2. Replacing the main fuse

To replace the main fuse, follow the next steps:

The power switch, the mains plug, and the fuse holder can be found on the backside of the unit.

The fuse holder contains a functional fuse (engaged into a metallic socket) and an additional spare fuse.

If the spare fuse is not available, make sure you have a new fuse with identical characteristics (see Ordering Codes Ordering Codes).

WARNING 	Risk of electric shock In case of replacement of the mains fuse, this must be replaced <u>only</u> with the one listed in Appendix A: Ordering Codes, delivered by IUL, SA
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1- Unplug the Poly Stainer



2- Remove the fuse box with the help of a screwdriver.



3- Replace the fuse and fit the fuse box back into its housing.



APPENDIX A: ORDERING CODES

Spare parts

Product	Contents	Cat. #
Bath tray supplement	1 unit	90005311
Basket for slides lateral load	1 unit	90005316
Drying rubber tube	1 unit	90005400
Outlet silicon tube	1 unit	90005414
Inlet water tube	1 unit	90005415
Container with cover	1 unit	90005418
PVC Jets (diameters of 1.25, 1.75 and 2 millimeters)	1 set	90005454
Fuse 3.15 A (5x20mm) IEC60127-2/5	1 unit	90001638
EU Power Cord (Schuko CEE 7/4) 1.5m	1 unit	90004017
UK Power Cord (BS 1363) 2.5m	1 unit	90004019
US Power Cord US / Japan (NEMA 5-15P) 1.8m	1 unit	90004018
CN Power Cord China / Australia (GB 1002, GB 2099.1) 1.8m	1 unit	90004027
AR Power Cord Argentina (IRAM 2073) 2.5m	1 unit	90004026

Optional Accessories

Product	Contents	Cat. #
Methacrylate cover	1 unit	900011135
Quick drain pump set	1 unit	900011846

APPENDIX B: TECHNICAL DATA

IUL SA reserves the right to change specifications at any time.

Specifications

Slides per basket:	Up to twenty.
Reagent Containers:	Four (Polypropylene).
Rinse Water Bath:	One with overflow. Optional bottom drain can be installed.
Drying Container:	12°C-15°C higher than the room temperature.
Programming:	Time to dip the slides basket in each container. During this time, resting periods and shaking periods. Time to maintain the basket on top of each container after dipping.
Number of programs:	Up to 10 in non-volatile memory.
Positions per program:	The basket can go to ten different positions. At each of them the total dipping time, resting and shaking, and drain over the container can be selected.

Operating conditions

Power range	100 - 240VAC
Frequency range	50 - 60Hz
Max Input AC Current	4A / 115VAC 2A / 230VAC
Maximum power	240W
Overvoltage category	II
Air temperature	15-30°C (59-86°F)
Relative humidity	10-75% (non-condensing)
Altitude	Up to 2000m (6500ft)
Place of operation	For indoor use only
Pollution level	2
Quick Drain Output	12VDC 2A

Transportation conditions

Air temperature	5°C to 40°C (41°F to 104°F) In manufacturer's packaging
Relative humidity	Maximum of 75% (non-condensing)

Storage conditions

Air temperature	5°C to 40°C (41°F to 104°F) In manufacturer's packaging
Relative humidity	Maximum of 75% (non-condensing)

Dimensions and Weight

Dimensions (LxWxH)	700x440x400 mm
Weight	23 kg (50.7 lb)

APPENDIX C: PROGRAM'S RECIPE TEMPLATE

Prg. No. _____ 	CONTAINER 1	CONTAINER 2	CONTAINER 3	CONTAINER 4	DRYING		RINSE WATER BATH				
					 1	 0					
<u>STEP No.</u>											
<u>TOTAL TIME DOWN</u>											
<u>TIME DRIPPING (up)</u>											
<u>REST DIPPING (initial)</u>					Quick Drain						
<u>OSCILLATING DIPPING</u>					END 						

Time = seconds

APPENDIX D: WARRANTY

The Poly Stainer instrument has a 12-month warranty period which starts when the instrument is purchased to IUL SA

The warranty is void when misuse of the equipment can be proved. Damage or manufacturing faults caused by impacts, chemical or corrosive products, liquids, damp, or other external factors, such as radiation, fire, or inadequate transport are not included.

In addition, the warranty will not apply if the equipment has been handled, repaired, or modified by not qualified or specifically designated personnel.

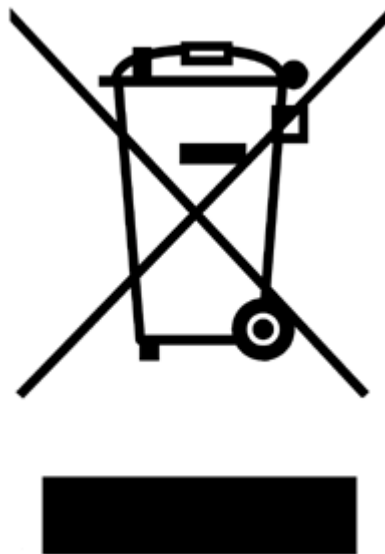
As part of this warranty, all shipping costs to the selected technical service are the responsibility of the Buyer.

APPENDIX E: WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

This section provides information about disposal of waste electrical and electronic equipment by users.

The crossed-out wheeled bin symbol (see below) indicates that this product must not be disposed of with other waste; it must be taken to an approved treatment facility or to a designated collection point for recycling, according to local laws and regulations.

The separate collection and recycling of waste electronic equipment at the time of disposal helps to conserve natural resources and ensures that the product is recycled in a manner that protects human health and the environment.



APPENDIX F: EU DECLARATION OF CONFORMITY

Manufacturer Name:

IUL, SA



Manufacturer Address:

C/ Ciutat d'Asunción, 4 08030 Barcelona (SPAIN)

Declares that the product Name:

Poly Stainer

Catalog Number:

90005100

Conforms the Council Directives:

- Directive [2014/30/EU](#) of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast).
- Directive [2014/35/EU](#) of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (recast).
- Directive [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 and its amendments (Directive [2015/863/EU](#)).

Standards which Conformity is Declared:

- [EN 61326-1:2013](#) Electrical equipment for measurement, control and laboratory use - EMC requirements -- Part 1: General requirements (IEC 61326-1:2012)
- [EN 61010-1:2010](#) Safety requirements for electrical equipment for measurement,

Barcelona, May the 1st 2017



A handwritten signature in black ink, appearing to read 'Diego Moreno'.

Diego Moreno / Hardware Manager

APPENDIX G: CHINA ROHS STATEMENT

The following information has been made available to comply with SJ/T11364-2006 Marking for Control of Pollution Caused by Electronic Information Products as required by China's Management Methods for the Control of Pollution from Electronic Products.

Part Name - 部件名称	Toxic or hazardous Substances and Element - 有毒或有害的物质成分					
	Lead (Pb) 铅	Mercury (Hg) 汞	Cadmium (Cd) 镉	Hexavalent Chromium (Cr6+) 六价铬	Polybrominated biphenyls (PBB) 多溴联苯	Polybrominated diphenyl ethers (PBDE) 多溴联苯醚
Plastics - 塑料						
Enclosure / Plastics parts - 外壳/塑料部件	O	O	O	O	O	O
Mechanical units - 机械部分						
Chassis / Moving parts - 底盘/可动部分	O	O	O	O	O	O
Electrical Units - 电器部分						
PCB's a. components / Sensors - 印刷电路板部分/传感器	O	O	O	O	O	O
Power Supply – 电源	X	O	O	O	O	O
Cables - 电缆						
Connecting cables – 连接电缆	O	O	O	O	O	O
Motors - 电机						
Motors / Pumps / Fans - 电机/泵/风扇	X	O	O	O	O	O
O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11364-2006. O : 代表用于此部件的所有同类型的包含该种有毒或者有害物质的材料均在 SJ/T11364-2006 的规定界限以下 X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part may be above the limit requirement in SJ/T11364-2006. (EU RoHS2 Exemption). X : 代表用于此部件的至少一种此类型的包含该种有毒或者有害物质的材料可能在 SJ/T11364-2006 的规定界限以上 (属于欧盟 RoHS2 豁免项)						

The Environment Friendly Using Period for the Poly Stainer is:



APPENDIX H: FCC STATEMENT

FCC Declaration of Conformity

Responsible party:

IUL SA
C/ Ciutat d'Asunción, 4
08030 Barcelona (SPAIN)



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the device. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.

Notes

