



MOPEC USER MANUAL

SLIDE DRYING MINI WORKSTATION - BK225



SLIDE DRYING MINI WORKSTATION

BK225

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INTRODUCTION

Mopec's Slide Drying Mini Workstation for Flotation Baths was specifically designed to fit directly over our Illuminated Tissue Flotation Bath and take up minimal bench-top space. This workstation features a mini hotplate to remove wrinkles from tissue sections as well as a sloped drying area that holds up to 12 slides.

GENERAL NOTES

1. This product is designed for laboratory use only. Always follow good laboratory practice.
2. If this product is not used in accordance with these instructions then basic safety protection may be affected.
3. The main supply cord fitted to this product is heat resistant and should be replaced with an equivalent type.

4. Before using any cleaning or decontamination method please refer to the Maintenance and Cleaning section to ensure the proposed method will not damage the unit.
5. Connect only to a power supply with the corresponding voltage to that specified on the rating label positioned on the rear of the unit.
6. Ensure that the power supply has a ground terminal.

SPECIMEN SAFETY

It is the users responsibility to ensure that the temperature set on the instrument is at a level where no damage is caused to diagnostic specimens used with the equipment. In the event of this instrument malfunctioning, all specimens within the device should be checked to ensure no harm or damage to the specimen has been caused.

Amendments:

Issue I: May 2018

Symbols:



This symbol appears in documents and on equipment to warn the user that there are hot surfaces on the equipment.



This symbol appears in documents and on equipment to warn the user that instructions must be followed to ensure correct or safe operation.

USER SAFETY

The equipment you have purchased complies with the European EMC Directives and Low Voltage Directive as indicated in the EC Declaration of Conformity included in the document. This instrument has been designed and constructed in a manner which minimises the risk of electrical shock to the operator, offers maximum protection from overheating and provides clear and adequate labeling of instrument controls.

The instrument requires no regular servicing, but CellPath Ltd do recommend an annual inspection, as detailed in the manual, which will prolong the life of the instrument to ensure continued safety.



Do not touch any electrical contacts or open any closure plates. RISK OF ELECTRIC SHOCK!

DO NOT:

1. Allow molten wax to accumulate on the surface of the slide drying hotplate or the section orientator.
2. Use metal instruments or scouring agents to clean the surface of the slide drying hotplate or the section orientator.
3. Place fluid containers on the surface of the hotplate without an adequate spillage tray.
4. Do not immerse in water to clean.

DO:

1. Position the unit so it can be disconnected from the power supply with ease.
2. Unfold the supplementary support legs, if the instrument is not used in conjunction with:
 - a. BK200: Illuminated Tissue Flotation Bath

POWER LEAD & CONNECTION TO ELECTRICAL SUPPLY



Check the electrical supply is compatible with the rating label. IF IN DOUBT CONSULT AN ELECTRICIAN. THE PRODUCT MUST BE EARTHED!

Where the mains supply or plug connection differs refer to local regulations or consult an electrician. Before use, check voltage is compatible with supply.

SPECIFICATION

The Mopec Slide Drying Mini Workstation is designed to dry paraffin tissue sections efficiently whilst taking up a minimum of bench space in the laboratory. The hotplate features a matte black heated surface which is digitally controlled at a constant temperature. The hotplate design consists of two beveled slide drying locations (capacity of 6 slides in each location) which are sloped to facilitate drying of the section and to enable a user to pick up sections without touching the hotplate surface. The Slide Drying Mini Workstation features a digital temperature control, over temperature thermal cut out and miniature circuit breakers for safety.

Dimensions: Width 290mm x Depth 160mm (excluding fold out legs) x Height 182mm

Weight: 2.95 Kgs

Safety: Class 1 cut out

Heater power: 300 watts

Power Supply: Dual Voltage 110V/230V a.c. 50-60Hz

Slide Drying Hotplate:

Capacity: 12 slides (2 rows of 6 slides)

Temperature Range: ambient to 80°C (+/- 1°C at 60°C)

Display: Digital display with 0.5°C accuracy

Section Orientator:

Dimensions: 48mm x 64mm

Temperature range: 60°C (+/-3°C depending on ambient temperature)

LOCATION

The product must be placed on a smooth, level and sturdy work surface. Suitable for use in ambient temperatures 5°C to 40°C with a maximum humidity of 80% (temperature 31°C) decreasing to 50% (temperature 40°C).

OPERATING INSTRUCTIONS

1. The Slide Drying Mini Workstation is a dual voltage instrument which can operate in regions utilizing both 110V 50/60Hz and 230V 50/60Hz mains voltage. Please check that the instrument is set to the correct mains voltage before use. The current mains voltage is indicated by two switches at the rear of the instrument which are covered by a security plate to prevent accidental changes. Both switches should be set to correct mains voltage for your region. The voltage can be changed by removing the security plate.
2. The Slide Drying Mini Workstation is designed to be used in conjunction with the Mopec instruments:
 - a. BK200: Illuminated Tissue Flotation Bath
 - b. The Slide Drying Mini Workstation is designed to be positioned directly against the rear of the section bath, so that the top work stage of the Slide Drying Mini Workstation overlaps the rear of the section bath as shown below. If the Slide Drying Mini Workstation is used in conjunction with another make/model of tissue section bath please ensure that the supplementary support legs are unfolded to ensure the stability of the instrument.



3. Connect the mains plug to the electrical supply and switch on - ensure the power supply is properly earthed.
4. Turn on the hotplate.
5. Select the desired temperature.
 - a. Press the DOWN arrow then release it (do not hold DOWN arrow for 5 seconds).
 - b. The display will show SP1 alternating between the current set temperature.
 - c. To change the set temperature press the UP key to increase the value or the DOWN key to decrease it. These keys increase or decrease the value one degree at a time, but if the button is pressed for more than one second the value increases/decreases rapidly, and after two seconds pressed, the speed increases even more to allow the desired values to be reached rapidly.
 - d. Exiting the Set mode is achieved by pressing the P key or automatically if no key is pressed for 15 seconds. After that time the display returns to the normal function mode.
6. The heater indicator will illuminate to show heater activity.
7. The instrument will then warm up to the desired temperature, you will observe the temperature rise on the display.
8. The instrument is designed to warm up quickly (roughly 10 minutes to reach a set temperature of 60°C). Each time the instrument is turned on it will undergo a tuning cycle exercise before the instrument reaches set temperature. This tuning cycle enables the instrument to learn how best to maintain the set temperature based on local conditions in the lab. The tuning cycle is signified by a flashing light marked as TUN on the temperature controller. (under the TUNE indicator). When the tuning exercise is complete TUN will disappear from the display. Temperature of the hotplate will rise to set temperature and maintain (at +/-1°C).
9. The Section Orientator hotplate begins to heat up as soon as the instrument is switched ON. The Section Orientator can be used to remove stubborn wrinkles from tissue sections by touching the slide within a section against the mini hotplate for between 2 - 12 seconds. As the wax softens and becomes transparent the section relaxes removing or improving the appearance of stubborn wrinkles. Once the slide is removed from the mini hotplate the wax solidifies with the stubborn wrinkle removed.
 - a. Note: use of the Section Orientator will remove or improve the appearance of most stubborn wrinkles in tissue sections. The Section Orientator is not able to remove or improve tissue sections which have folded as the section is picked up from the water bath.

CLEANING INSTRUCTIONS

1. The lower case work of the Slide Drying Mini Workstation, including the control panel, may be wiped using small quantities of mild detergent or polishes applied with a soft cloth.

2. The heated surface of the Slide Drying Hotplate and Section Orientator will require cleaning at regular intervals, using a minimal quantity of mild detergent applied with a soft cloth and then allowed to dry.

WARNING:



SCOURING PADS OR DESCALING AGENTS MUST NOT BE USED TO CLEAN THIS INSTRUMENT.

MINIATURE CIRCUIT BREAKERS

Located on the rear of the bath. In the event of a fault, push back in to reset. If the fault situation continues, please contact your Service Engineer or Mopec.

LATCHING SAFETY CUT OUT



**Disconnect from electrical supply before continuing.
Always investigate the cause for safety device operation.**

Located on the rear of the unit. In the event of a fault, push back in to reset. If fault situation continues, please contact your service engineer or Mopec.

PORTABLE APPLIANCE TESTING

Portable appliance testing should be carried out by a qualified person.



THIS EQUIPMENT MUST NOT BE FLASH TESTED!

WARRANTY TERMS AND CONDITIONS

1. Mopec warrants to the Customer that the product purchased is free from defects in materials and workmanship.

2. Provided the terms of payment are duly complied with, Mopec undertakes to remedy any original defects arising from faulty materials or workmanship, in any goods manufactured/supplied by Mopec, which under proper and normal conditions of use, may develop within a period of twelve months from the date of delivery.
3. In the case of components which by their nature of application have an unpredictable life, this guarantee shall only be to the extent of the guarantee given by the manufacturers of these articles.
4. Mopec will accept no liability, where in the opinion of the company the defect has been caused by damage due to the Customers failure to follow operating instructions, correct installation, wear and tear, or damage due to the use of spare parts other than those spare parts of Mopec or which are recommended by Mopec, the defect has been caused by alterations or repairs being undertaken by a person(s) other than an authorized representative of Mopec.
5. Any damage claim must be in writing, and give the serial number and description of the goods, order number and date of delivery, and will not apply where any names or serial numbers or other information which may be attached to or inscribed upon the goods have been removed, covered up or defaced in any way.
6. Any goods or parts thereof, which may require repair or replacement, shall be repaired or replaced (at the election of Mopec) at the works of Mopec. The product to be repaired shall be delivered to Mopec by the customer at the Customer's risk and expense. Any such goods or parts will be delivered by Mopec to the Customer free within the United States but if required to be borne by the Customer. All faulty parts removed from the equipment will become Mopec's property. Any other repairs or work by Mopec will be carried out under the terms and conditions for specialist engineers currently in force.
7. In the event of replacement with a new or reconditioned model, the replacement unit will continue the warranty period of the original equipment.
8. If any goods or parts thereof are returned unnecessarily all costs involved, including a charge for inspection, handling and the return carriage must be paid by the sender.
9. Please retain the original packaging over the warranty period.
10. Mopec offers an Extended Warranty Option for instruments in the Mopec equipment range. This includes all parts and labor (exceptions may apply dependent upon the type of equipment) and supply a swap out instrument whilst the customers equipment is repaired.

The extended warranty is only available at the date of purchase of the equipment. The warranty is immediately upgraded to a "swap out" service and is increased to 24 or 36 months depending on how long the warranty is extended for.

The "swap out" service covers a loan unit being sent to the customer whilst the faulty unit is returned for repair (or replacement if necessary). A response to a customer request will normally be within 24 hours.

If equipment is returned and the fault is found to be due to misuse or abuse, this falls outside the terms of the extended warranty and therefore a quotation for the inspection and repair of the equipment will be issued prior to any work being carried out.

On return of the repaired equipment to the customer, it is the customer's responsibility to ensure that the loan equipment is returned in the same condition as it was received and if required decontaminated with a signed decontamination sheet enclosed with the instrument.

It is the customer's responsibility to ensure that the loan equipment is packed in the packaging provided by Mopec, in order that Mopec can arrange collection of the loan instrument. If the loan instrument is not packed and ready for collection within 48 hours of a repaired instrument being returned to the customer, costs for collection and equipment rental fee will be applied.

NON-WARRANTY INFORMATION

Spare parts shall be made available for a period of 5 years after a piece of equipment is discontinued.

Mopec
800 Tech Row
Madison Heights, MI 48071



EC DECLARATION OF CONFORMITY

We herewith confirm the following products:

Slide Drying Mini Workstation - BK225

Conforms with requirements outlined by the following European Directives:

Low Voltage Directive 2014/35/EU
EMC Directive 2014/30/EU

We confirm the declaration:

Mopec
800 Tech Row
Madison Heights, MI 48071

Conforms with the requirements of the following standards:

BS EN 61010-1:2010

BS EN 61010-2-010:2014

Safety requirements for electrical equipment for measurement, control and laboratory use.

BS EN 61236-1:2013

Electrical equipment for measurement control and laboratory use - EMC requirements.

ROUTINE INSPECTION RECOMMENDATIONS

Mopec recommends that a simple annual inspection be made for all Mopec laboratory appliances in order that any malfunction can be identified and rectified as early as possible. This is to ensure user safety and prolong instrument lifespan.

Recommended checks to be made:

1. Condition of Power Lead: A visual inspection to ensure the insulation is not damaged and that the correct fuse is fitted.
2. Functioning of Heater On Lamp: Heater lamp should be on when the instrument is warming up.
3. Condition of the surface of the Slide Drying Mini Hotplate and Section Orientator: Surface of the hotplate and orientator should be free of scratches and dents.
4. Calibration: The accuracy of the temperature of the hotplate should be checked yearly. Any temperature measurement should be made at the specified calibration point using a calibrated surface probe.