

Mini Slide Drying Hot Plate

User Manual

SI-SDH-MINI



StatLab.com | 1-800-442-3573

ON YOUR TEAM



Mini Slide Drying Hot Plate

Thank you for purchasing StatLab laboratory equipment. To get the best performance from your equipment and for your own safety please read these instructions carefully before use.

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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 If damaged or in case of failure the power supply unit supplied with this product should be replaced with an equivalent power supply unit.
- 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 an earth (*ground*) terminal.

Specimen Safety

It is the user's 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 7: Sept 2022

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 following European Directives EMC Directive 2014/30/EU Electromagnetic Compatibility and Low Voltage Directive 2014/35/EU 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 labelling of instrument controls. The instrument requires no regular servicing, but StatLab does 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 melted paraffin to accumulate on the surface of the hot plate.
- 2 Use metal instruments or scouring agents to clean the surface of the hot plate.
- 3 Place fluid containers on the surface of the hot plate without an adequate spillage tray.
- 4 Do not immerse in water.

DO:

- 1 Position the unit so it can be disconnected from the power supply with ease.

Power Lead and Connection to Electrical Supply

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

Where the mains supply or plug connection differs refer to local regulations or consult an electrician.

Specification

The Mini Slide Drying Hot Plate is designed for use at the microtome to remove stubborn wrinkles from tissue slides and re-orientating embedded tissue. The mini hot plate is designed for rapid warm up and operates to a maximum temperature of 167°F (75°C). The lower casing is manufactured from anti-microbial powder coated steel and the hob is manufactured from powder coated aluminium.

Dimensions:	Width 5.7in (145mm) Depth 4.5in (115mm) Height 2.5in (65mm)
Capacity:	Up to 6 Slides (2 rows of 3 slides)
Weight:	1.6 lbs (0.742Kg)
Temperature Range:	Ambient to ~167°F (75°C) at 68°F (20°C)
Power Supply:	110V/230V a.c. 50-60Hz
Safety:	Fuse: T, 500mA, 5 x 20mm
Heater Power:	33 watts

Location

The product must be placed on a smooth, level and sturdy work surface. Suitable for use in ambient temperatures 41°F to 104°F (5°C to 40°C) with a maximum humidity 80% (temperature 88°F) decreasing to 50% (temperature 104°F).

Operating Instructions

- 1 Place the mini hot plate on a smooth and level surface.
- 2 Connect the mains plug to the electrical supply and switch on the socket (*Ensure the power supply is properly grounded*).
- 3 Turn on the Mini Hot plate. The backlit 'ON/OFF' switch will illuminate.
- 4 Allow the instrument to heat for 30 minutes before use.
- 5 The temperature will stabilise at a peak temperature.
- 6 The Mini hot plate can be used to remove stubborn wrinkles from tissue by touching the slide within a section against the mini hot plate for between 2 - 12 seconds. As the paraffin softens and becomes transparent the slide relaxes removing or improving the appearance of stubborn wrinkles. Once the slide is removed from the Mini Hot plate the paraffin solidifies with the stubborn wrinkle removed.

Example:



Note

Use of the mini hot plate 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 slide is picked up from the water bath.

Cleaning Instructions

- 1 The case work of the mini hot plate including the control panel, may be wiped using small quantities of mild detergent or polishes applied with a soft cloth.
- 2 Paraffin on the surface of the hot plate hob maybe wiped off using an absorbent tissue while the hot plate is operating.
- 3 The heated surface of the mini hot plate will require cleaning at regular intervals, using a minimal quantity of mild domestic detergent applied with a soft synthetic sponge.



SCOURING PADS OR DE-SCALING AGENTS MUST NOT BE USED TO CLEAN THIS INSTRUMENT.

Portable Appliance Testing

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



THIS EQUIPMENT MUST NOT BE FLASH TESTED!

Heating Performance

- 1 Turn on the Mini Hot plate.
- 2 Let the instrument reach working temperature and leave for 30 minutes before checking the temperature of the hot plate has equilibrated.
- 3 Check temperature with a calibrated digital thermometer fitted with a surface probe. The temperature should be measured in the centre of the hot plate.
- 4 The temperature should read between 60°C and 70°C after 30 minutes at an ambient temperature in the lab of 20°C. The maximum temperature obtained by the hot plate will be roughly 75°C dependent upon the ambient temperature of the lab.

Routine Inspection Recommendations

StatLab recommend that a simple annual inspection be made for all StatLab laboratory equipment in order that any malfunction can be identified and rectified as early as possible. This is to ensure user safety and prolong instrument life span.

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 Hot plate surface.
Surface of the hot plate should be free of scratches and dents.

Troubleshooting Guide

Symptoms	Possible Cause	Action Required
<p>1. Unit does not operate/ No power to the instrument. (Illuminated On/Off button not lit, temperature controller not lit.)</p>	<p>A: Unit is not switched on. B: Unit not plugged into power supply. C: Fuse in instrument lead plug has failed. D: Power supply failure.</p>	<p>A: Switch On B: Plug in, and switch on unit. C: Replace fuse or use a new lead set. D: Check that other electrical instruments on the same circuit are working. Check distribution board for a triggered circuit breaker or blown fuse.</p>
<p>2. Power is supplied to the instrument, but the hot plate does not heat. (Temperature does not rise on the controller and the orange heater light does not operate.)</p>	<p>A: Heating element has failed.</p>	<p>A: Instrument should be checked by a competent person.</p>
<p>3. Instrument does not reach working temperature as quickly as expected.</p>	<p>A: Voltage selector set to the incorrect voltage.</p>	<p>A: Set the voltage selectors at the rear of the instrument to the correct voltage for your country.</p>

Warranty Terms and Conditions

- 1 StatLab 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, StatLab undertakes to remedy any original defects arising from faulty materials or workmanship, in any goods manufactured/supplied by StatLab, 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 StatLab will accept no liability, where in the opinion of the company the defect has been caused by damage due to the Customer's 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 StatLab or which are recommended by StatLab, the defect has been caused by alterations or repairs being undertaken by a person(s) other than an authorized representative of StatLab.
- 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 StatLab*) at a StatLab location. The product to be repaired shall be delivered shipping paid back to StatLab by the customer at the Customer's risk and expense. Any such goods or parts will be delivered by StatLab to the Customer free within the US. All faulty parts removed from the equipment will become property of StatLab. Any other repairs or work by StatLab 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 cost involved, including a charge for inspection, handling and the return shipping must be paid by the sender. In no circumstances shall any of the goods be returned to StatLab without its prior written consent.
- 9 Please retain the original packaging over the warranty period. Any equipment returned under warranty should be in the original packaging. Any damages in transit resulting from using any packaging other than that originally supplied will be the responsibility of the Customer.



EC Declaration of Conformity

We herewith confirm the following products:

Mini Slide Drying Hot Plate 110V/230V a.c. 50-60Hz -SI-SDH-MINI

Conforms with requirements outlined by the following European Directives:

Low Voltage Directive 2014/35/EU

EMC Directive 2014/30/EU

RoHS Directive 2011/65/EU

Conforms with requirements outlined by the following United Kingdom Directives:

Electromagnetic Compatibility Regulations 2016

Electrical Equipment (Safety) Regulations 2016

RoHS Directive 2011/65/EU

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 61326-1:2013

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

We confirm the declaration:

Nickel Electro Ltd
Oldmixon Crescent
Weston Super Mare
North Somerset
BS24 9BL
United Kingdom

Non Warranty Information

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

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