

SLS1170: 8 Litre Lab Pro Stirred Bath
SLS1172: 14 Litre Lab Pro Stirred Bath
SLS1174: 22 Litre Lab Pro Stirred Bath

Dear Customer

Thank you for purchasing this piece of Lab Pro temperature control equipment. To get the best performance from your equipment and for your own safety please read these instructions carefully before use.

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 mains supply cord fitted to this product is heat resistant and should be replaced with an equivalent type by a qualified electrician.
4. Ensure that the power supply has a safety earth (ground) terminal.
5. Ensure that the mains switch and power supply connector are accessible during use.
6. 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.
7. Connect only to a power supply with the corresponding voltage to that specified on the rating label positioned on the rear of the unit.
8. Do not block ventilation slots during use and always follow installation instructions.
9. Ensure substances being heated present no risk of a hazard (explosion, implosion or release of toxic or flammable gases) or that these have been addressed. When heating substances where liberation of gases occurs suitable extraction should be used.
10. Use only liquids specified within this Instruction Manual within their specified temperature range.
11. Drain before moving the bath.

LOCATION

The product must be placed on a smooth, level and sturdy work surface. Use in a ventilated room. Suitable for use in ambient temperatures 5°C to 40°C with a maximum humidity 80% (temperature 31°C) decreasing to 50% (temperature 40°C). DO NOT block or restrict ventilation slots. DO NOT place directly next to hot heat surfaces. ENSURE that there is sufficient space around the product to allow it to provide optimum temperature control.

SAFETY



Do not touch any electrical contacts or open any closure panels.
RISK OF ELECTRIC SHOCK!!
Class 1 (IEC519-Part 2) low liquid level protection, ref to over temperature condition.

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

LIQUID LEVEL



Always ensure the product is disconnected from the electrical supply before filling and emptying.

LOW LIQUID LEVEL FLOAT SWITCH "FiLL" MESSAGE

The bath features a low liquid level alarm - display will read "FiLL". Heating will be switched off if the liquid falls below the recommended level. Stirring action will continue. To reset top up the liquid carefully as spitting may occur.

POWER INTERRUPT DURING TIMER MODE

If the power is interrupted during the timer mode, the display shows "P.OFF" when resumed. To clear press and hold the RUN key until display reverts to actual temperature. Timer mode will then continue. To deactivate the timer press and hold the RUN key.

OVER TEMPERATURE ALARM

The over temperature alarm is automatically set 4°C above set temperature. When in alarm condition the over temperature alarm" warning indicator illuminates and actual bath temperature is shown. All heating is switched off. Once temperature has fallen below alarm setting then the indicator clears and actual bath temperature is displayed.

Note: when in over temperature alarm condition the motor remains on but the heater is switched off.



Always investigate the cause of the over temperature alarm.

PORTABLE APPLIANCE TESTING

These tests should be conducted by a qualified person.



DO NOT PAT test unless the tank contains water.
DO NOT Flash Test!!

WARRANTY INFORMATION

For warranty assistance please contact our Service Dept at Scientific Laboratory Supplies Limited at Wilford Industrial Estate, Ruddington Lane, Wilford, Nottingham NG11 7EP. Telephone 01159 821111, Fax 01159 825275. Please visit the warranty section of our website www.scientificlabs.co.uk for email contact.

NON WARRANTY INFORMATION

There is a comprehensive stock of chargeable spare parts maintaining working life of equipment or alternatively units can be returned for quotation before repairs are undertaken.

OPERATING INSTRUCTIONS

Switch the unit on using the mains switch located on the rear. The switch will illuminate and the controller will perform a self test. When the unit is switched off all time and temperature values remain in memory.

SETTING TEMPERATURE

1. Press and hold the DOWN arrow, or the FUNCTION key to display SP1: the set temperature. The set temperature indicator will illuminate.
2. Use the UP and DOWN arrow keys to select required temperature.
3. After setting the temperature the display flashes between SP1 and set temperature value and will then revert to show actual liquid temperature. Heater indicator will illuminate.
4. The Lab Pro Circulator is now set and will heat and control the liquid to set temperature.

SETTING TIME

1. Press FUNCTION key until "t" appears on the display. Display will alternate between "t" and time displayed as h:mm.
2. Use the UP and DOWN arrows to select time required. Minimum 0 hours 01 minutes: 00:01 and maximum 99 hours 59 minutes: 99:59.
3. Press FUNCTION key to confirm. Display will flash 4 times then revert to actual liquid temperature.

TIMER OPERATION

1. To start the timer press the RUN key for more than 1.5 seconds. The timer will automatically start once the bath has reached set temperature. Heater indicator will illuminate continuously while liquid temperature is being raised to set point.
2. Heater indicator will flash when set temperature has been reached and is being maintained. Timer indicator will flash showing the timer is running.
3. To view time remaining press UP arrow until "t" appears and time remaining is displayed as h:mm.
4. An audible beeping and "END" message indicates timed period has finished. Press the RUN key to deactivate the beep and clear the "END" message.

CARE AND MAINTENANCE



Please ensure that the washing agent and sanitizing agent are BSI accredited and approved by the H&S department for use on laboratory equipment and stainless steel within your laboratory.

DISCONNECT THE BATH FROM THE POWER SUPPLY PRIOR TO CLEANING

BASIC CLEANING

The water bath should be cleaned at regular intervals by wiping external surfaces with a cloth or sponge soaked in warm water with a mild detergent. **DO NOT USE STRONG SOLVENTS OR SOLUTIONS CONTAINING CHLORINATED HYDROCARBONS, ESTERS, KETONES OR ABRASIVE CLEANERS AS THIS MAY DAMAGE THE BUILT IN ANTI BACTERIAL PROPERTIES.**

The “anti-bacterial” paint finish inhibits the growth of bacteria. It has been tested by independent specialist houses using internationally recognised test methods and proven to be effective against a wide range of bacteria including Escherichia Coli and Staphylococcus Aureus (MRSA).

We recognise hygienic coatings are part of a controlled approach to a cleaner working environment. Within the paint formulation is an active ingredient with proven anti-bacterial properties which is maintained throughout its life span. In a laboratory environment this is one less source of contamination. Unlike detergents the anti-bacterial paint finish does not offer an instantaneous action, but is intended for long term general protection against bacterial growth.

Moisture on the painted surface is necessary for the bacterium to absorb the agent and be affected by it. The coating is therefore less active in very dry conditions although moisture in the atmosphere will maintain some activity. Areas where moisture is trapped are difficult to clean and allow bacteria to proliferate but these areas are most active for the anti-bacterial coating improving defence against bacterial growth.



EC Declaration of Conformity

We herewith confirm the following product, designed and manufactured in the UK:

LAB PRO RANGE STIRRED WATER BATHS

Conforms with the 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 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

FINAL INSPECTION AND ELECTRICAL SAFETY TEST REPORT

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