

(PS60043 Illustrated).

GERNERAL PURPOSE STIR PLATFORMS

PS60057 - AS639
PS60042 - AS631
PS60043 - AS632
PS60044 - AS633

INSTRUCTION BOOK.

Please take your time to read this Instructions book in order to understand the safe and correct use of your new Bibby Scientific product.

It is recommended the responsible Body for the use of this equipment reads this instruction book and ensures the user(s) are suitably trained in its operation.

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In the interest of continued development Bibby Scientific Limited reserve the right to alter or modify the design and /or assembly process of their products without prior notification.

This product is manufactured in Great Britain by Electrothermal, part of the Bibby Scientific Group of companies.

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1. INTRODUCTION.

- 1.1. The Bibby Scientific range of single and multiple position stir Platforms are designed with either an on board controller or an external remote controller for adjusting the stir platforms speed. Stirring is achieved using a rotating magnet principal.

2. SYMBOLS AND USING THIS INSTRUCTION BOOK.

2.1. Throughout this Instruction book the following symbols are shown to identify conditions which pose a hazard to the user, or to identify actions that should be observed. These symbols are also shown on the product, or its packaging. When a symbol is shown next to a paragraph or statement it is recommended the user takes particular note of that instruction in order to prevent damage to the equipment or to prevent injury to one's self or other people.

The Responsible Body and the Operator should read and be familiar with this Instruction book in order to preserve the protection afforded by the equipment.

To prevent injury or equipment damage it is the manufacturer's recommendation that all persons using this equipment are suitably trained before use.

2.2. Symbols defined.



Caution, risk of danger. See note or adjacent symbol.



Protective conductor terminal to be earthed.
(Do not loosen or disconnect).



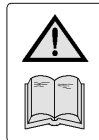
Caution / Risk of electric shock.



Recyclable Packaging Material.



Do not dispose of product in normal domestic waste.



Refer to Instruction book.

3. SAFETY INFORMATION.

This product has been designed for safe operation when used as detailed in accordance with the Manufacture's instructions.



ATTENTION:- The Stir platform will restart after a mains electrical supply interruption once the supply has been returned.

The magnetic stir bar may or may not be recaptured depending on the selected speed controller settings. (N.B. Slow speed stirrers should recapture the stir bar)

Take suitable precautions if a hazard could occur due to application.

NOTE: Failure to use this equipment in accordance with the manufacture's operating instructions may compromise your basic safety protection afforded by the equipment and may invalidate the warranty / guarantee. The warranty / guarantee does not cover damaged caused by faulty installation or misuse of the equipment.

3.1. Prevention of Fire and Electric shock.



To prevent a risk of fire or electric shock, **DO NOT** open your product case without authorisation. Only qualified Service personnel should attempt to repair this product.



Replace fuses only with the type as listed in section, Parts and Accessories and Technical Specifications. (See fuse type and rating).



Ensure the Mains Power Supply conforms to rating found on the data plate located on the base of this product.



Never Operate this equipment with out connection to earth / ground. Ensure the mains supply voltage is correctly earthed / grounded in accordance with current area legislation.

3.2. General safe Operating Practice.



Always follow good laboratory practice when using this equipment. Give due recognition to your company's safety and legislative health & safety procedures and all associated legislation applicable to your areas of operation. Check laboratory procedures for substances being heated and ensure all hazards (e.g. explosion, implosion or the release of toxic or flammable gases) that might arise have been suitably addressed before proceeding. When heating certain substances the liberation of hazardous gases may require the use of a fume cupboard or other means of extraction.



Do not position the product so that it is difficult to disconnect from the mains supply.



Do not immerse this product in water or fluids.



Do not spill substances onto this unit. If spillage does occur, disconnect the unit from mains supply and follow instructions as detailed in Section 9 'Maintenance'.



To prevent electronic overheat and potential fire **Do not** cover this product when connected to the mains power supply.



Only use Original Equipment manufacture's spares and accessories. Ref Section 11.



The equipment is not spark, flame or explosion proof and has not been designed for use in hazardous areas in terms of BSEN 60079-14:1997. Keep flammable, low flash point substances away from heating apparatus.



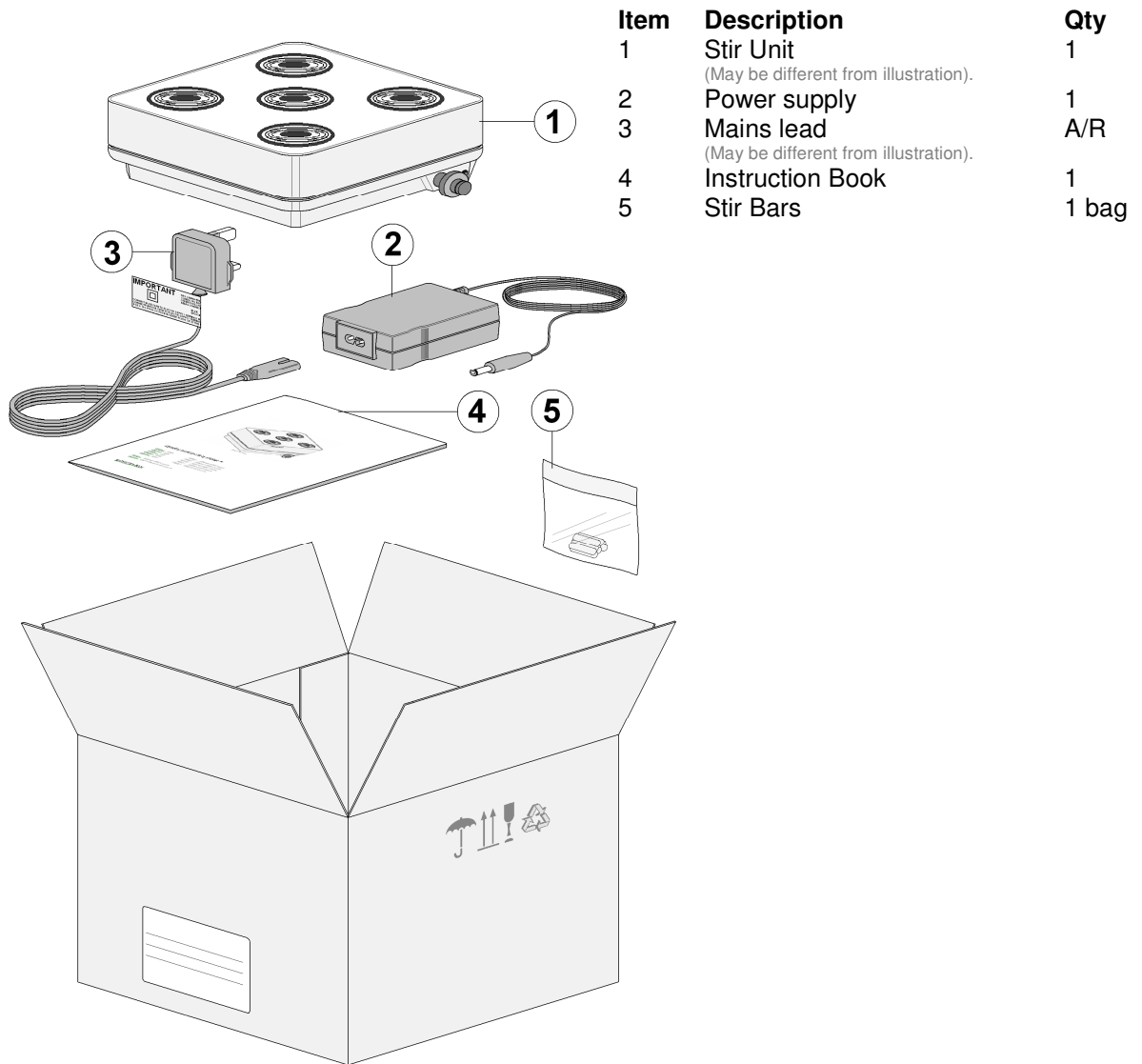
Do not operate or handle any part of this product with wet hands.



Keep the Mains Plug and Lead set cable away from the hot surface any heating apparatus being employed.

NOTE: *if this product is not used in accordance with the Manufacturers Instructions then the basic safety protection afforded by the equipment may not be preserved and the guarantee invalidated.*

4. UNPACKING AND CONTENTS.



Item	Description	Qty
1	Stir Unit <small>(May be different from illustration).</small>	1
2	Power supply	1
3	Mains lead <small>(May be different from illustration).</small>	A/R
4	Instruction Book	1
5	Stir Bars	1 bag

<p>For future reference please record your products Serial and Model Numbers.</p>	<i>Serial Number</i>	<i>Model Number</i>

5. INSTALLATION.

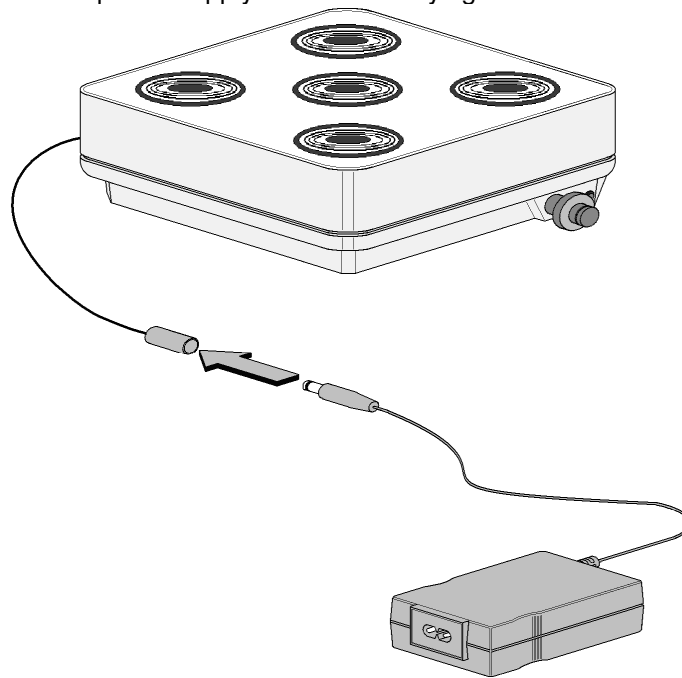
5.1. Electrical safety and installation.

5.1.1. This equipment is designed for safe operation under the following conditions:-

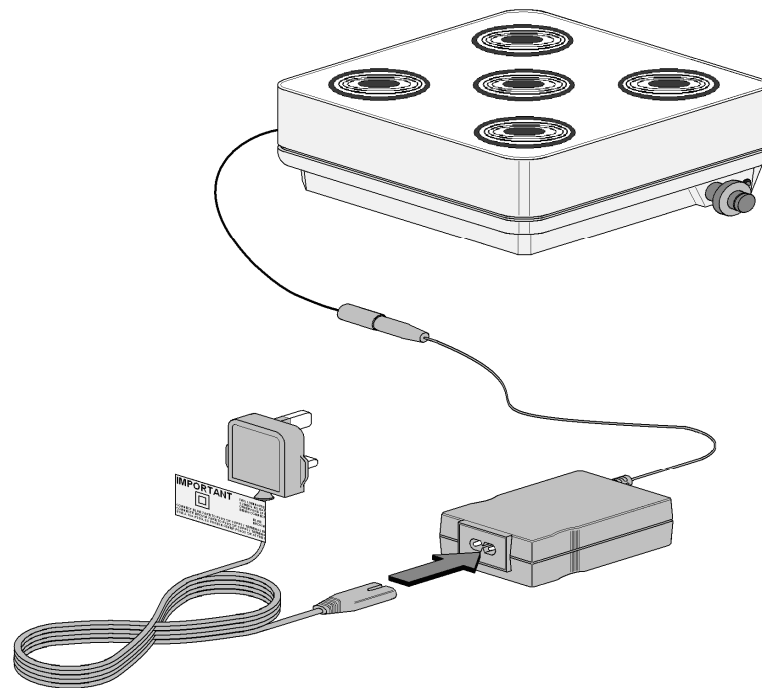
- Indoor use.
- Altitude up to 2000 meters.
- Temperatures between 5°C and 40°C.
- Maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.
- Mains supply voltage fluctuations up to $\pm 10\%$ of the nominal voltage.
- Transient over voltages typically present on the mains supply.
- Applicable rated pollution degree 2.

5.2. Non Remote Models.

5.2.1. Connect the power supply lead into the flying lead from the stir platform.

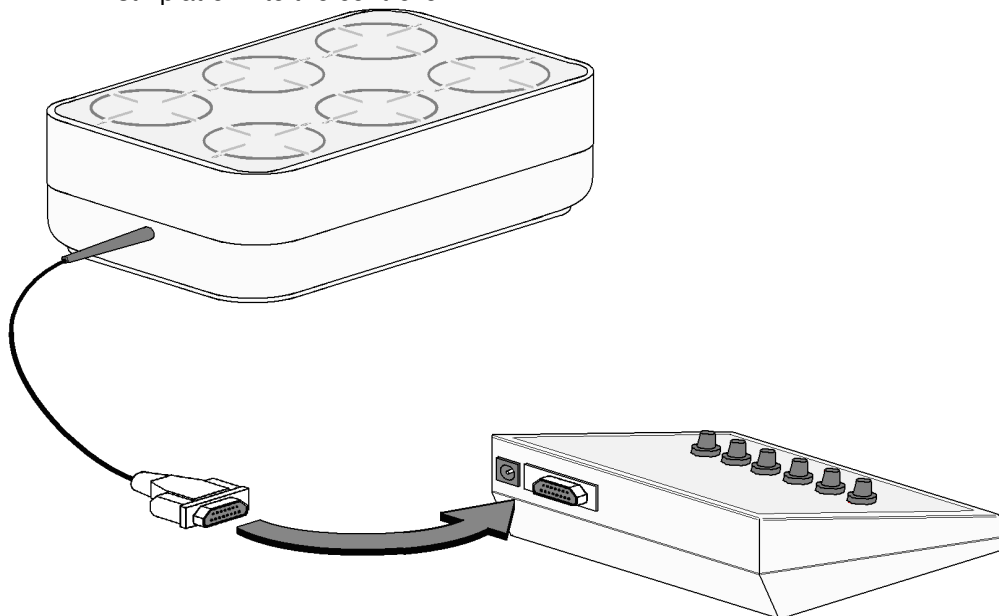


5.2.2. Connect the mains lead to the power supply.

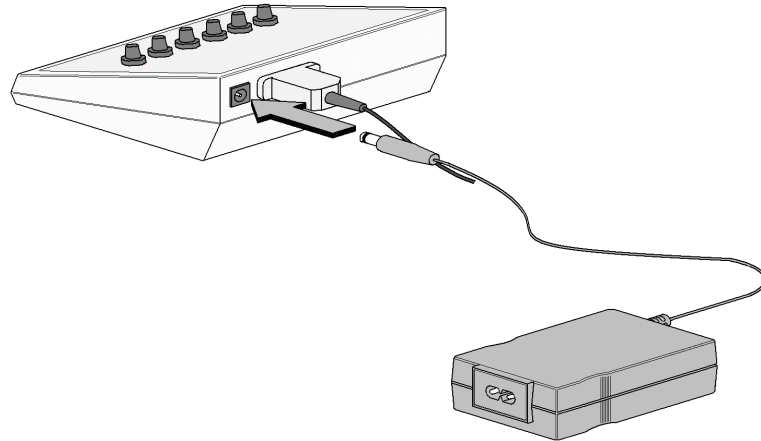


5.3. Connecting 6 Place with controller. (Note: AS601 controller not supplied with Stir Platform).

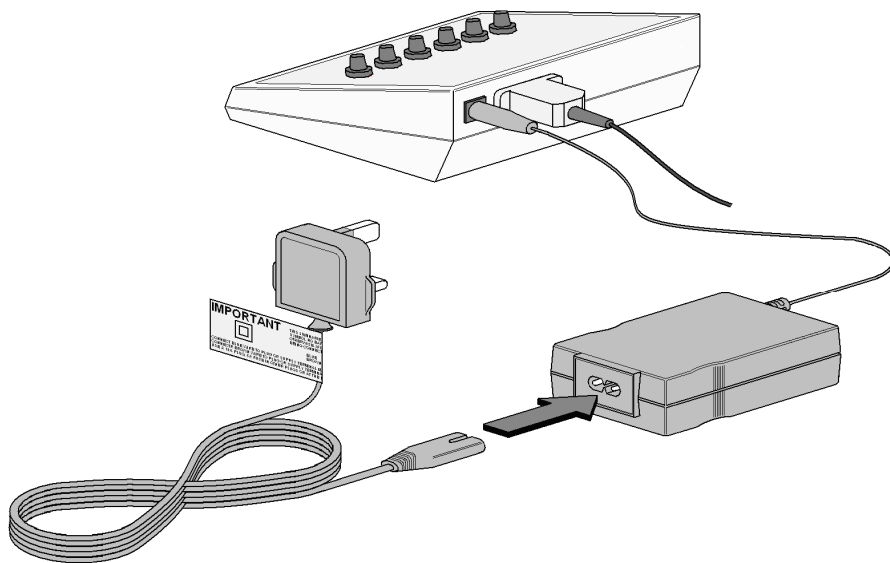
5.3.1. Take remote controller and AS601 and connect the multi plug lead from the stir platform to the controller.



5.3.2. Connect the power supply lead into the flying lead from the stir platform



5.3.3. Connect the mains lead to the power supply.



6. ENVIRONMENTAL PROTECTION.

- 6.1. Electrothermal has given due consideration to environmental issues within the design and manufacturing process without compromising end product performance and value.



- 6.2. Packaging materials have been selected such that they may be sorted for recycling.



- 6.3. At the end of your product and accessories life, it must **not be** discarded as domestic waste. Ref: EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment Directive (WEEE). Please contact your distributor / supplier for further information. For end users outside of the EU consult applicable regulations.

- 6.4. This product should only be dismantled for recycling by an authorised recycling company.

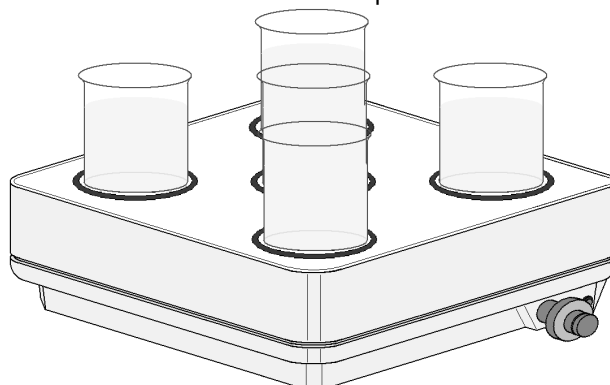


This product and accessories must be accompanied by a completed Decontamination Certificate prior to any disposal. Copies of the Certificate are available from your distributor of Bibby Scientific products, or you may copy and enlarge from 'Appendix A' of this instruction book.

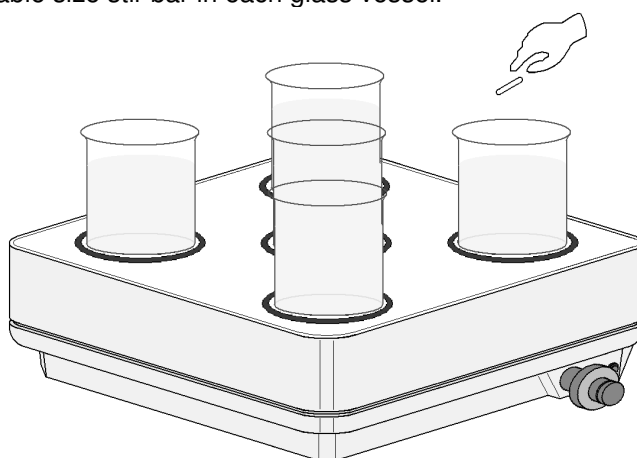
Bibby Scientific's Electrothermal branded product range is registered with the Environment Agency under the name of as Electrothermal Engineering Limited as being a producer of WEEE (Waste Electronic and Electrical Equipment) through b2b Compliance, an authorised waste collection compliance scheme.

7. PRODUCT OPERATION.

- 7.1. Take charged glass vessel(s) and place it carefully onto the stir platform surface in the centre of stir area as indicated on the stir pad.



- 7.2. Place suitable size stir bar in each glass vessel.



- 7.3. Plug the power supply mains plug into your mains power and turn on.
- 7.4. Rotate the control knob clock wise on the stir platform to commence stirring. The further the knob is rotated the more the stir speed will increase.
- 7.5. Rotate the control knob anti clockwise to reduce the stir speed.

8. TECHNICAL SPECIFICATIONS.

Mains Supply Power

The stirrer is supplied with a universal power supply unit and plug set.

115/230~AC@50/60Hz

Consumption Voltage

12VDC

Power Consumption

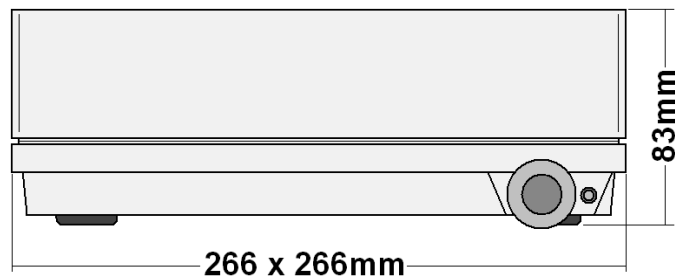
7 Watts per stir position.

Display

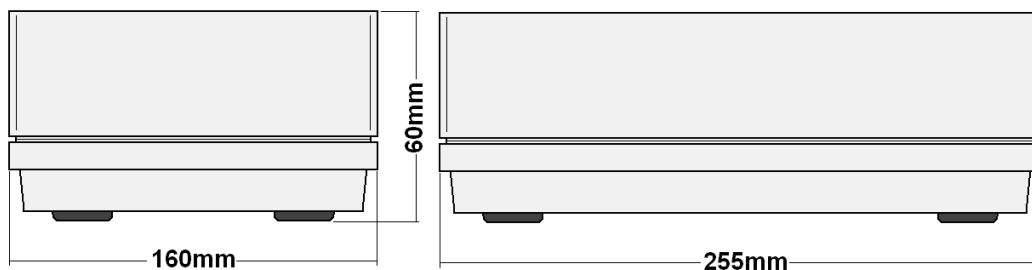
Power 'On' Green LED

Operating RPM Range.

350 – 2000 RPM- unloaded motor speed.
Maximum stirring speed is affected by stir bar selection, vessel shape, stir volume and media viscosity.





4, 5 and 9 Way Stir Platforms.



6 Way Stir Platform.

Ingress Protection Rating for all Stir Pads is IPX1.

9. MAINTENANCE.

- 9.1.   Unplug the Power Supply from the mains voltage and remove all glass vessels and their contents prior to maintenance inspection.

- 9.1.1. All Stir Pads / Controller and Power Supply units **are not** serviceable.
- 9.1.2. Routine maintenance should include inspection of the Power Supply Unit Cord, Stir Pad lead and case for damage.
- 9.1.3. Use a dry cloth for cleaning.
- 9.1.4. Responsible body should confirm with manufacturer that any intended method of decontamination will not damage the equipment.

DO NOT USE SOLVENTS FOR CLEANING ANY PART OF THIS EQUIPMENT.

- 9.2. Servicing.

This product should only be serviced by Bibby Scientific or by an agent acting on behalf of the manufacturer. If in doubt contact Customer Support. See Section 10.

- 9.3. Exposure to Contamination.



If the equipment has been exposed to contamination, the Responsible Body is responsible for carrying out appropriate decontamination. If hazardous material has been spilled on or inside the equipment, decontamination should only be undertaken under the control of the Responsible Body with due recognition of possible hazards. Before using any cleaning or decontamination method, the Responsible Body should check with the manufacturer the proposed method will not damage the equipment.

Prior to further use, the Responsible Body shall check the electrical safety of the unit. Only if all safety requirements are met can the unit be used again. The above procedure is intended as a guide. Should spillage occur with a toxic or hazardous fluid then special precautions may be necessary.

Decontamination Certificate.

Note: In the event of this equipment or any part of the unit becoming damaged or requiring service, the item(s) should be returned to the manufacturer for repair accompanied by a decontamination certificate. **Copies of the Certificate are available from Distributor/Manufacturer. Appendix A of this instructions book may be copied and enlarged.**

At the end of life, this product must be accompanied by a Decontamination Certificate. See section 6.3 and 6.4.

10. CUSTOMER SUPPORT

For help and support in using this product, please contact Customer Services at the following address.

Bibby Scientific Limited.

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- General enquiries :
info@bibby-scientific.com
- Order enquiries :
sales@bibby-scientific.com
- Technical support :
electrothermalhelp@bibby-scientific.com
- www.electrothermal.com

For the America's and Canada, contact:

Techne Incorporated, 3 Terri Lane,
Suite 10 Burlington, NJ 08016 USA.

Toll free:800-225-9243Tel: 609-589-2560

Fax: 609-589-2571

Email: labproducts@techneusa.com

Http www.techneusa.com

11. PARTS AND ACCESSORIES.

Integrated controllers, simultaneous speed on all positions.

PS60057	AS639, 1 x 24 Litre Stir Platform.
PS60042	AS631, 4 x 1 Litre Stir Platform.
PS60043	AS632, 5 x 400 Millilitre Stir Platform.
PS60044	AS633, 9 x 250 Millilitre Stir Platform.

Remote Controllers, Individual speed control on all positions.

PS60087	6 X 250ml stir platform and 6 channel remote controller
PS60001	AS602, 6 x 250 Millilitre Stir Platform for use with AS601 controller.
PS60006	AS601 6 Channel remote controller.

General.

PS50037	Power Supply Unit 12V-DC (UK type).
PS50038	Power Supply Unit 12-DC (European type).
PS60081	Power Supply Unit 12-DC (115V USA).

Magnetic Stir Bars.

AT60064	PTFE™ coated stir bar 60mm x 10mm (Pack of 5 off).
AT60065	PTFE™ coated stir bar 40mm x 8mm (Pack of 5 off).
AT60066	PTFE™ coated stir bar 25mm x 6mm (Pack of 5 off).
AT60067	PTFE™ coated stir bar 15mm x 4mm (Pack of 10 off).

APPENDIX 'A'. DECONTAMINATION CERTIFICATE.

Bibby Scientific Limited. Beacon Road, Stone, Staffordshire ST15 0SA. Great Britain Tel: +44(0)1785 812121. Fax: +44(0)1785 810405 E-mail: electrothermalhelp@bibby-scientific.com		
<u>DECONTAMINATION CLEARANCE CERTIFICATE</u>		
For the Inspection, Repair or Return of Medical, Laboratory or Industrial Equipment.		
Prior to a Service Engineer working on equipment that has been in an environment where substances hazardous to health may have been used, you are requested to provide the following information:		
CUSTOMER DETAILS		
Company:- Department:- Contact Name:- Tel No:- Fax No:-	Address:- Post Code:-	
<u>Product Description</u>		
Model No:-	Serial No:-	
Has the equipment been exposed to any of the following, Please answer all questions by deleting YES/NO as applicable and by providing details in section 2 below.		
A. Blood, body fluids, Pathological specimens	YES/NO	Provide details if YES
B. Biodegradable material that could become a hazard	YES/NO	Provide details if YES
C. Other biohazard	YES/NO	Provide details if YES
D. Chemical or substances hazardous to health	YES/NO	Provide details if YES
E. Radioactive substances State name(s) and quantities of isotopes and checks made for residual activity	YES/NO	Provide details if YES
F. Other hazards	YES/NO	Provide details if YES
2. Please provide details of any hazard present as indicated above. Include details of names and quantities of agents as appropriate:-		
3. Your method of decontamination (please describe):-		
4. Are there likely to be any areas of residual contamination (please specify)		
I declare that the above information is true and complete to the best of my knowledge and belief.		
Authorised signature:- Title/Position:- For and behalf of:-	Name (please print):- Date:-	

12. NOTES.

13. EC DECLARATION OF CONFORMITY.

CE marked products and associated accessories covered by this Instruction book conform to the essential requirements of the following directives:

EMC Directive.
Low Voltage Directive.

A full copy of the EC Declaration / Conformity document can be obtained from the manufacture at the email address : info@bibby-scientific.com



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