



# INSTRUCTION MANUAL

**ST5191/ST5193**

Steri-Lite Bead Sterilizer

The Steri-Lite Micro Bead Sterilizer is for the sterilization of small research instruments (forceps, scissors, etc.). The instrument chamber is filled with glass beads, set to a high temperature (up to 300°C). The high temperature eliminates bacteria, spores and other microorganisms. The typical exposure time is about 10 seconds for sterilization of commonly used items, such as forceps, scissors, tweezers, scalpels, inoculation loops, etc.

## DISPLAY

The control panel has an LED display that displays the status of the instrument.

- LED is Flashing–The instrument is heating.
- LED is On–The instrument is holding the set temperature.
- LED is Off–The instrument is off.



## SETUP

Prior to sterilization, make sure the surgical instruments to be sterilized are free of tissue and other debris. They should be clean.

1. Place the sterilizer on a clean, flat, stable surface with at least 7.5 cm of ventilation on all sides.
2. Fill the chamber with the dry glass beads. The chamber should be filled to approximately 5 mm from the top of the chamber. The chamber should be filled with **glass beads only!** Other materials used to fill the chamber void the warranty.
3. Press the power switch on the back of the instrument to power it on. The actual chamber temperature displays.
4. Press the knob, and the set temperature light flashes. Turn the knob to the desired temperature setting, and then press the knob for 2 seconds to set the temperature. To stop the instrument from heating, press the knob for 2 seconds.
5. After the desired temperature is reached, insert the surgical instruments into the glass beads.

**NOTE:** The top 2.5 cm of beads may not be within the recommended temperature for proper sterilization. To decontaminate 5 cm of an instrument, it must be inserted 7.5 cm into the beads.

To sterilize small instruments, place the instruments into the beads in the chamber for 15 seconds. For larger surgical instruments, the recommended time is one minute.

## SPECIFICATIONS

	ST5191	ST5193
Temperature Range	Adjustable, 100 to 300°C	
Temperature Accuracy	± 5°C	
Ramping Time to Max.	Approximately 25 min.	
Dimensions (w x d x h)	13 x 14.5 x 15.5 cm	14 x 14.5 x 21.5 cm
Weight	2 kg	2.5 kg
Chamber Dimensions	40 x 80 mm (Φ x H) mm	40 x 140 mm (Φ x H) mm
Chamber Bead Capacity	150 g	300 g
Electrical	115 VAC or 230 VAC, 50-60 Hz	
Power	120 W (B1201) / 250 W (B1202)	
Operating environment	4° C to 45° C	
Warranty	2 years	

## CARE AND MAINTENANCE



**WARNING: THE INSTRUMENT CHAMBER HEATS TO VERY HIGH TEMPERATURES (UP TO 300°C). THEREFORE, THE HOUSING MAY GET HOT (UP TO 60°C). AVOID CONTACT WITH THE HOUSING OF THE STERILIZER AFTER THE CHAMBER IS HEATED.**

The instrument comes with a cover/lid. When not in use, we recommend covering the chamber to prevent dust and unwanted debris from entering the chamber.

Clean the instrument with a damp cloth and light detergent. DO NOT use solvents, as they may attack the steel or plastic housing.

## Warranty

WPI (World Precision Instruments) warrants to the original purchaser that this equipment, including its components

**NOTE:** This product is designed for RESEARCH USE ONLY. It is not intended for clinical use.

and parts, shall be free from defects in material and workmanship for a period of 2 years from the date of receipt. WPI's obligation under this warranty shall be limited to repair or replacement, at WPI's option, of the equipment or defective components or parts upon receipt thereof f.o.b. WPI, Sarasota, Florida U.S.A. Return of a repaired instrument shall be f.o.b. Sarasota.

The above warranty is contingent upon normal usage and does not cover products which have been modified without WPI's approval or which have been subjected to unusual physical or electrical stress or on which the original identification marks have been removed or altered. The above warranty will not apply if adjustment, repair or parts replacement is required because of accident, neglect, misuse, failure of electric power, air conditioning, humidity control, or causes other than normal and ordinary usage.

To the extent that any of its equipment is furnished by a manufacturer other than WPI, the foregoing warranty shall be applicable only to the extent of the warranty furnished by such other manufacturer. This warranty will not apply to appearance terms, such as knobs, handles, dials or the like.

WPI makes no warranty of any kind, express or implied or statutory, including without limitation any warranties of merchantability and/or fitness for a particular purpose. WPI shall not be liable for any damages, whether direct, indirect, special or consequential arising from a failure of this product to operate in the manner desired by the user. WPI shall not be liable for any damage to data or property that may be caused directly or indirectly by use of this product.

## Claims and Returns

- Inspect all shipments upon receipt. Missing cartons or obvious damage to cartons should be noted on the delivery receipt before signing. Concealed loss or damage should be reported at once to the carrier and an inspection requested. All claims for shortage or damage must be made within 10 days after receipt of shipment. Claims for lost shipments must be made within 30 days of invoice or other notification of shipment.

Please save damaged or pilfered cartons until claim settles. In some instances, photographic documentation may be required. Some items are time sensitive; WPI assumes no extended warranty or any liability for use beyond the date specified on the container.

- WPI cannot be held responsible for items damaged in shipment en route to us. Please enclose merchandise in its original shipping container to avoid damage from handling. We recommend that you insure merchandise when shipping. The customer is responsible for paying shipping expenses including adequate insurance on all items returned.
- Do not return any goods to WPI without obtaining prior approval and instructions (RMA#) from our returns department. Goods returned unauthorized or by collect freight may be refused. The RMA# must be clearly displayed on the outside of the box, or the package will not be accepted. Please contact the RMA department for a request form.
- Goods returned for repair must be reasonably clean and free of hazardous materials.
- A handling fee is charged for goods returned for exchange or credit. This fee may add up to 25% of the sale price depending on the condition of the item. Goods ordered in error are also subject to the handling fee.
- Equipment which was built as a special order cannot be returned.
- Always refer to the RMA# when contacting WPI to obtain a status of your returned item.
- For any other issues regarding a claim or return, please contact the RMA department

***Warning: This equipment is not designed or intended for use on humans.***

