

Bacti-cinerator Sterilizer

Cat. No. BT1701, BT1702

Thanks for choosing BT Lab Systems' Bacti-cinerator Sterilizer. This operation manual describes the function and operation of the instrument. In order to use the instrument properly, please read this manual carefully.

IMPORTANT SAFETY INFORMATION

- The operator should never open or repair the instrument. Opening or repairing the instrument will void the guarantee and can cause accidents.
- The power plug should safeguard against an electric shock. The 3-pin plug supplied with the instrument should be matched with a suitable grounded socket.
- If the power cord is damaged, it must be replaced by the same type cord. Make sure there is nothing else plugged into the same outlet. Do not plug the cord in where it is a tripping hazard. Hold the plug when pulling out the power line.
- During the normal operation, the instrument's temperature will be very high. Don't touch the surface of the instrument to avoid burns.

- **MAINTENANCE**

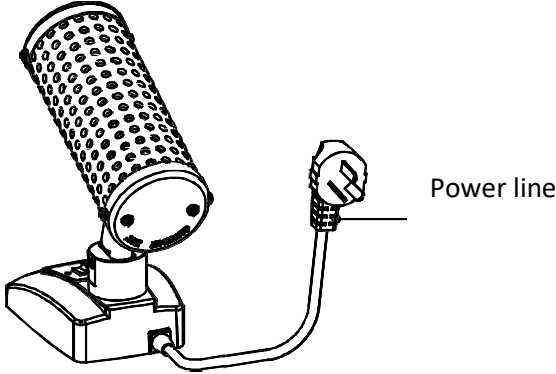
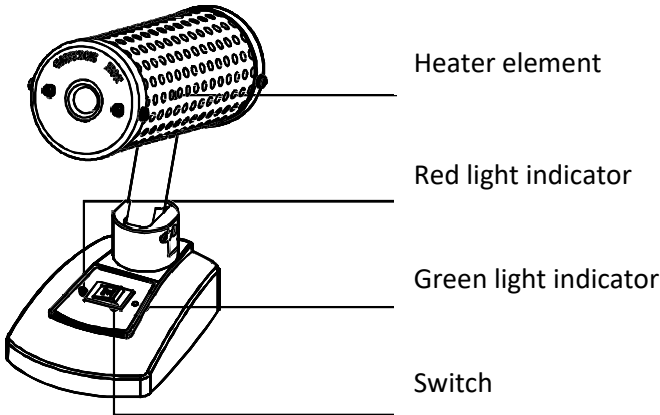
- Only insulated loop holders should be used when inserting inoculating loops or needles into the heater element.
- The Bacti-Cinerator Sterilizer is not intended for use with scalpels, forceps or any sharp objects. The use of such objects can cause element malfunction and void the heater element warranty.
- Visual inspection of the heater element should be performed periodically to determine if the heater element core is worn. Inspect for small cracks and residue buildup in both cool and heated conditions. In heated condition, cracks can be seen as small, intensely yellow-orange fissures. If any defects are noted, the heater element should be replaced before element malfunction occurs.
- The inoculating loops and needles should not be allowed to set in the heater element for extended periods of time. It will cause the loop holder to become extremely hot and increase the wearing of the loops and needles.
- The red indicator light will come on when the switch is in the "High" position. Twenty minutes after the Bacti-Cinerator Sterilizer is plugged in, the optimum sterilizing temperature (825°C) will be reached.

Notice: If the net power output voltage is greater than 10% of the rated voltage, turn off the power and stop using the machine.

INTRODUCTION

The Bacti-Cinerator Sterilizer is a gasless, flameless sterilizer for use with inoculating loops and needles. Sterilization is accomplished through infrared heat without dangerous spattering of microorganisms.

OVERVIEW



TECHNICAL SPECIFICATIONS

	BT-1701	BT-1702
Power supply	AC110 V~ 50-60Hz	AC110 V~ 50-60Hz
Power	135W	350W
Highest temperature at core	825° C +/- 50° C	825° C +/- 50° C
Largest possible diameter of item to be sterilized	Φ14mm	Φ35mm
Length of heating area	150mm	100mm
Heating time	20min	20min
Fuse	250V 3A 5X20	250V 4A 5X20
Ambient temperature	5° C ~40° C	5° C ~40° C
Dimension (W×D×H)	151×87×160 mm	101×92×170 mm
Net weight	1.3kg	1.5kg

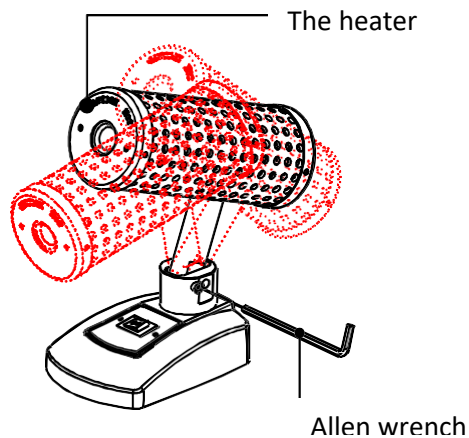
This section mainly describes the instrument's mechanical structure, the keyboard and functions of each key. Please learn this chapter well before the instrument is operated for the first time.

OPERATION

1. Remove any packaging that protects the Bacti-Cinerator Sterilizer from being damaged during shipping.
2. Plug the electrical cord into the appropriate outlet. The unit must be properly grounded.
3. The red indicator will light up when the switch is set to the "High" side. The optimum sterilizing temperature (825° C) will be reached in 20 minutes.

Note: If the unit remains in the sterilizing temperature (825° C) over three hours, please set the switch to "Low" for half an hour. After 30 minutes, it can be switched to "High" side again. This will conserve the life of the heater element. The green indicator will light up when the switch is to the "Low" setting.

4. Gently insert the loop or needle, attached to an insulated loop holder, into the heater element. Avoid scraping the sides of the element to ensure the longevity of your loop and heater element. The loop should not remain in the heater element too long, 5-7 seconds is enough. Make sure your glass culture tube has nothing in it.
5. Keep the input voltage between AC210-230V. When the input voltage exceeds 230V, please stop using the equipment. It will conserve the life of the heater element.



Adjusting the heating body angle

6. Loosen the screw by rotating the allen wrench counterclockwise.
7. Adjust the angle of the heating body
8. After adjusting the angle, tight the screw by rotating it clockwise

TROUBLE SHOOTING

Issue	Possible Causes	Solution
No signals on the display when power on.	No power	Check the power
	Broken fuse	Contact BT Lab Systems
	Broken switch	Contact BT Lab Systems
	Other	Contact BT Lab Systems
The actual and displayed temperatures are much different.	Broken sensor	Contact BT Lab Systems
“OPEN” in the temperature display with a beep alarm.	Temperature sensor is broken or ambient temperature is below 0°C	Contact BT Lab Systems
“SHORT” in the temperature display with a beep alarm.	Temperature sensor is broken or ambient temperature is below 0°C	Contact BT Lab Systems
No heating	Broken sensor	Contact BT Lab Systems
Button does not work	Broken button	Contact BT Lab Systems

WARRANTY

The instrument is warranted against defects in materials and workmanship for 1 year. If any defects occur in the instrument or accessories during this warranty period, BT Lab Systems will repair or replace the defective parts at its discretion without charge.

For any inquiry or request for repair service, contact your local BT Lab Systems office. Inform BT Lab Systems of the model and serial number of your instrument.

TECHNICAL SUPPORT

BT Lab Systems offers technical support for all of its products. If you have any questions about the product’s use or, operation, please contact BT Lab Systems at the following:

E-Mail: info@BTLabSystems.com