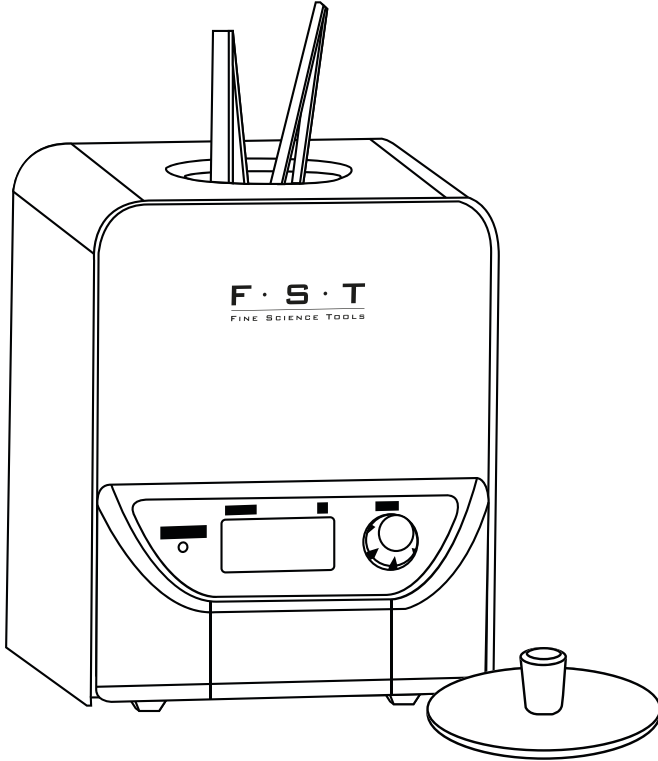


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FINE SCIENCE TOOLS



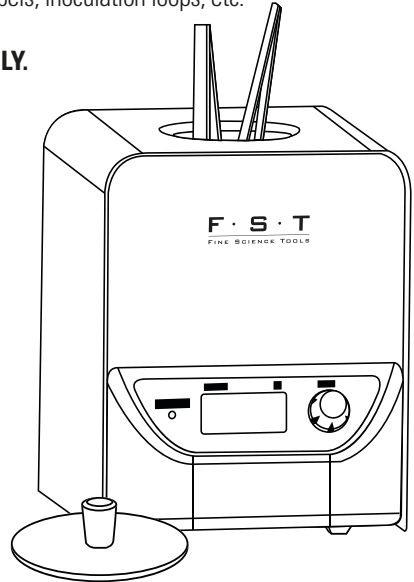
Operations Manual
Item No. 18090-45, 18090-46,
18090-50 & 18090-51

Micro Bead Sterilizer™

Introduction:

FST's Micro Bead Sterilizer is generally used for the sterilization of small research tools (forceps, scissors, etc.). When the instrument chamber is filled with glass beads, high temperatures (up to 300°C) can be used to eliminate 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.

This product is designed for **RESEARCH USE ONLY**.
Not intended for clinical use.



I. Specifications:

Temperature Range: Adjustable, 100 to 300°C

Temperature Accuracy: +/-5°C

Ramping Time to Max.: Approximately 25 min.

Dimensions (w x d x h):

18090-45 & 18090-46: 13 x 14.5 x 15.5 cm 2 kg

18090-50 & 18090-51: 14 x 14.5 x 21.5 cm 2.5 kg

Chamber Dimensions:

18090-45 & 18090-46: 40 x 80 mm (Φ x H) mm

18090-50 & 18090-51: 40 x 140 mm (Φ x H) mm

Chamber Bead Capacity:

18090-45 & 18090-46: 150 g

18090-50 & 18090-51: 300 g

Electrical: 115VAC or 230VAC, 50-60Hz

Power: 120W (18090-45 & 18090-50) / 250W (18090-46 & 18090-51)

Operating environment: 4° C to 45° C

Warranty: 2 years

II. Product Set-Up:

Place the sterilizer on a clean, flat, stable surface with at least 3 inches of ventilation on all sides.

Fill the dry glass beads into the chamber. The chamber should be filled approximately 5mm from the top of the chamber. It's only recommended to fill the chamber with glass. No other materials should be used to fill the chamber.

Press the power switch on the backside on the backside of the instrument to power on. The actual chamber temperature is displayed. Press the knob and set the temperature flashes. Adjust the knob to choose the desired temperature setting and press and hold the knob for 2 seconds to store. To stop the instrument (disable the heating), press the knob by 2 seconds.

You can now insert the items to be sterilized into the chamber. They should be pressed down fully into the chamber and allowed to sterilize, generally, for at least 10 seconds.

III. The Indicator LED:

The control panel features an indicator LED that signifies the status of the instrument:

LED is Flashing: The instrument is heating

LED is On: The instrument is holding the set temp.

LED is Off: The instrument is not running

IV. Care and Maintenance:

The instrument chamber heats to very high temperatures (as high as 300°C). This can result in the outer body getting hot (up to 60°). Please avoid contact with the body of the sterilizer when the chamber is heated.

The instrument comes complete with a cover/lid. When not in use, it is recommended to attach the cover. This will avoid dust and unwanted debris from entering the chamber.

Cleaning can be accomplished with a damp cloth. Avoid the use of solvents as they may attack the steel or plastic housing.

Service and Contact:

In the event that service or technical support is required, please contact **Fine Science Tools**.



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