Infrared Loop Sterilizer - Bacti-cinerator for Inoculation Loops - 900°C - Flame-Free

Model **MSBCS-ISWISS, MSBCS-IISWISS** | Brand **Master Science**







The Master Science Infrared Loop Sterilizer uses infrared heat to sterilize inoculation loops, needles, test tube mouths and bottle necks without an open flame. It is safe to use inside biological safety cabinets, laminar flow hoods and near extraction systems, and air currents do not affect its performance.

KEY HIGHLIGHTS

- No open flame
- Seconds per loop
- No spatter
- Long element life
- Adjustable angle

AT A GLANCE

900 ±30 °C	600 °C
MAXIMUM TEMPERATURE	STANDBY TEMPERATURE

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Overview

A high-purity alumina ceramic heating chamber reaches up to 900 °C, sterilizing a loop in seconds, and the heater can be tilted to treat tube and bottle mouths without spilling liquid.

Key Benefits

No open flame
the Master Science Infrared Loop Sterilizer removes the fire risk of Bunsen burners inside safety cabinets.

Seconds per loop
high chamber temperature sterilizes loops and needles almost instantly.

No spatter
enclosed heating prevents aerosol and splatter of contaminated material.

Long element life
automatic voltage regulation keeps temperature steady and protects the ceramic.

Adjustable angle
tilting heater handles tubes and bottles containing liquid.

For larger loads, see the Master Science vertical autoclave.

Technical Specifications

GENERAL

General	Specifications of the two Master Science Infrared Loop Sterilizer models:
Brand	Master Science
Model Number	MSBCS-ISWISS, MSBCS-IISWISS
SKU	MSBCS-ISWISS, MSBCS-IISWISS
Models	MSBCS-ISWISS, MSBCS-IISWISS
Port Diameter	Ø36 mm (I); Ø22 mm (II)
Item Diameter	< Ø35 mm (I); < Ø20 mm (II)
Maximum Temperature	900 ±30 °C
Standby Temperature	600 °C
Heat-up Time	About 20 min to maximum
Heating Element	95 % alumina ceramic
Heater Angle	Down to 45°, up to 75°
Ambient Conditions	-10 to 40 °C, humidity ≤ 95 %

DIMENSIONS & WEIGHT

Heating Zone Depth	8.5 cm (I); 15.2 cm (II)
Package Size	265 × 230 × 155 mm
Net / Gross Weight	1.2 kg / 1.5 kg

POWER

Voltage Regulation	Automatic, stable from 180 to 240 V
Power Supply	180 to 240 V, 50 Hz, 200 W
Gas supply not available	it runs on mains power only.
Voltage fluctuations	automatic regulation keeps temperature stable.

COMMON LABORATORY PROBLEMS AND HOW THIS STERILIZER HELPS

Common Laboratory Problems and How This Sterilizer Helps	How the Master Science Infrared Loop Sterilizer improves aseptic technique:
Bunsen burners disrupting cabinet airflow	flameless heating keeps laminar flow intact.
Splatter from loops	enclosed infrared heating contains residue.
Spilling tube contents	the tilting heater fits tube mouths at an angle.

The Master Science Infrared Loop Sterilizer is used in

- **Microbiology inoculation work**
- **Biological safety cabinets and clean benches**
- **Clinical and food testing labs**
- **Mobile carts and field labs**
- **Teaching laboratories**

Heating

- Infrared heating up to 900 °C
- 600 °C standby mode
- 95 % alumina ceramic chamber

Design

- Adjustable tilt from -45° to +75°
- Two port sizes and depths
- Compact and lightweight

Electronics

- Digital microchip control
- Automatic voltage compensation 180 to 240 V