Anaerobic Incubator Workstation, 57 L Incubator, O2 ≤0.5%, RT+3 to 60°C, Glove Box and Airlock

Model **MSICB-AN-HYQIIISWISS** | Brand **Master Science**





The Master Science Anaerobic Incubator Workstation combines a constant-temperature incubator, a glove-box operation chamber and a sampling airlock in one cabinet. Samples can be inoculated, handled and incubated without ever being exposed to air, which is essential for strict anaerobes.

KEY HIGHLIGHTS

- Never expose anaerobes to air
- Quick sample transfer
- Flexible atmospheres
- Clean working space

AT A GLANCE

RT+3 to 60°C INCUBATOR TEMPERATURE RANGE	**40 × 33 × 32 cm** SAMPLING CHAMBER DIMENSIONS
≤±1°C TEMPERATURE UNIFORMITY	**≤±0.3°C** TEMPERATURE FLUCTUATION

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Overview

Using nitrogen or a mixed gas, the operation chamber is brought down to 0.5% oxygen or less within about 1.5 hours, and the airlock is purged automatically in about 15 minutes at a single touch. Mixed gases also allow microaerophilic or low-oxygen conditions. The 57 L incubator runs from 3°C above ambient up to 60°C under PID control, and a UV lamp, loop sterilizer and wax melting device are built in.

For general cultures that need CO2 rather than an oxygen-free atmosphere, see our CO2 incubator 40-240 L beside the Master Science Anaerobic Incubator Workstation.

Anaerobic jars and bags expose samples whenever they are opened. The Master Science Anaerobic Incubator Workstation addresses:

Key Benefits

Never expose anaerobes to air
The Master Science Anaerobic Incubator Workstation links incubation, handling and transfer in one sealed system.

Quick sample transfer
The airlock reaches anaerobic conditions in about 15 minutes.

Flexible atmospheres
Mixed gases give anaerobic, microaerophilic or low-oxygen conditions.

Clean working space
UV lamp, loop sterilizer and wax melting device are built in.

Technical Specifications

GENERAL

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Incubator temperature range	**RT+3 to 60°C**
Temperature uniformity	≤±1°C
Temperature fluctuation	≤±0.3°C
Anaerobic grade	Oxygen ≤0.5% in operation chamber
Anaerobic formation time, sampling chamber	≤15 min, one-touch automatic
Anaerobic formation time, operation chamber	≤1.5 h, manual button switching
Formation method	Vacuum plus gas displacement with 99.99% N_2 or mixed gas (5% H_2, 10% CO_2, 85% N_2; or 5% O_2, 10% CO_2, 85% N_2 for microaerophilic)
Anaerobic maintenance	>12 h after stopping trace gas supply
Incubator volume	57 L
Controller	LCD display, PID
Shelves	2
Incubator chamber	SUS304 stainless steel
Windows	Impact-resistant transparent glass

DIMENSIONS & WEIGHT

Incubator internal dimensions	42 × 29 × 47.5 cm
Sampling chamber dimensions	40 × 33 × 32 cm
Operation chamber dimensions	94.4 × 67 × 74.4 cm
External dimensions	140 × 68.8 × 141.8 cm

POWER

Power supply	1 phase, 220 V, 50 Hz
Power	730 W

ANAEROBIC CULTURE PROBLEMS THE MASTER SCIENCE ANAEROBIC INCUBATOR WORKSTATION SOLVES	
Oxygen exposure during handling	Work through gloves inside an oxygen-free chamber.
Slow transfers in and out	The automatic airlock cycle takes about 15 minutes.
Separate incubator and workspace	Incubation and handling share one sealed system.
Contamination of the work area	UV lamp and loop sterilizer keep it clean.

Applications

The Master Science Anaerobic Incubator Workstation is used for: Research on pathogenic anaerobic bacteria Clinical anaerobic culture Microbiological food hygiene testing Gut microbiome studies Microaerophilic and low-oxygen experiments

Anaerobic system

- Operation chamber with dedicated gloves
- Sampling airlock with automatic purge
- Vacuum and gas displacement control
- Holds anaerobic state over 12 h after gas stops

Incubation

- 57 L SUS304 incubator
- PID temperature control with LCD
- RT+3 to 60°C, ±0.3°C fluctuation

Built-in tools

- Inoculating loop sterilizer
- Wax melting disinfection device
- UV germicidal lamp
- Cabinet stand and bottle rack

Standard Accessories Included

- Constant temperature incubator
- Anaerobic operation chamber with gloves
- Sampling chamber (airlock)
- Gas and circuit control system
- Cabinet stand
- Bottle rack
- Wax melting device
- Inoculating loop sterilizer
- UV germicidal lamp

Optional Accessories

- Independent external temperature protector
- RS485 port
- Mini thermal or dot-matrix printer
- Two sets of 0.22 μm replaceable HEPA filters for inlet and exhaust gas