Large-Capacity Anaerobic Incubator, 339 L, 15 to 60°C with Cooling, O2 ≤0.5%, Glove Box and Airlock

Model **MSICB-AN-HYQIII-ZSWISS** | Brand **Master Science**





The Master Science Large-Capacity Anaerobic Incubator gives far more culture space than a standard workstation: its incubation area is 339 litres. A refrigeration compressor lets it hold 15 to 60°C, so incubation is possible below room temperature as well as at 37°C.

KEY HIGHLIGHTS

- Much more culture space
- Works below room temperature
- Stable anaerobic hold
- Fast sample transfer

AT A GLANCE

15 to 60°C
INCUBATION TEMPERATURE RANGE

40 × 33 × 32 cm
SAMPLING CHAMBER DIMENSIONS

≤±1°C
TEMPERATURE UNIFORMITY

Compressor cooling holds lower setpoints.
WARM ROOMS RAISING CULTURE TEMPERATURE

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Overview

Like the smaller model, it pairs a glove-box operation chamber with a sampling airlock. The airlock reaches anaerobic conditions in about 15 minutes with one touch, the operation chamber drops to 0.5% oxygen or less within 1.5 hours, and conditions hold for more than 12 hours after the trace gas supply stops. Mixed gases also allow microaerophilic work.

For automatic oxygen control and USB logging, see our touch-screen anaerobic workstation as an alternative to the Master Science Large-Capacity Anaerobic Incubator.

Standard anaerobic workstations run out of space quickly and cannot cool. The Master Science Large-Capacity Anaerobic Incubator addresses:

Key Benefits

Much more culture space
The Master Science Large-Capacity Anaerobic Incubator offers a 339 L incubation area for large batches.

Works below room temperature
Compressor cooling allows incubation from 15°C.

Stable anaerobic hold
Conditions last over 12 hours after gas supply stops.

Fast sample transfer
One-touch airlock purge in about 15 minutes.

Technical Specifications

GENERAL	
General	Specifications of the Master Science Large-Capacity Anaerobic Incubator:
Brand	Master Science
Model Number	MSICB-AN-HYQIII-ZSWISS
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Model	MSICB-AN-HYQIII-ZSWISS
SKU	MSICB-AN-HYQIII-ZSWISS
Incubation temperature range	**15 to 60°C**
Temperature uniformity	≤±1°C
Temperature fluctuation	≤±0.3°C
Anaerobic grade	O_2 ≤0.5% in operation chamber
Sampling chamber anaerobic time	≤15 min, one-touch automatic
Operation chamber anaerobic time	≤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)
Anaerobic maintenance	>12 h after stopping trace gas supply
Incubation volume	339 L (combined operation and incubation chamber)
Controller	LCD display, PID
Cooling	Refrigeration compressor, fluorine-free refrigerant
Shelves	2
Chamber	SUS304 stainless steel

DIMENSIONS & WEIGHT	
Sampling chamber dimensions	40 × 33 × 32 cm
Operation chamber dimensions	85.2 × 56.9 × 70 cm
External dimensions	140 × 68.8 × 141.8 cm

POWER	
Power supply	1 phase, 220 V, 50 Hz
Power	1000 W

ANAEROBIC CULTURE PROBLEMS THE MASTER SCIENCE LARGE-CAPACITY ANAEROBIC INCUBATOR SOLVES	
Limited incubation space	A 339 L area holds many more plates.
Warm rooms raising culture temperature	Compressor cooling holds lower setpoints.
Oxygen exposure during transfer	The airlock keeps samples anaerobic.
Contamination of the work area	UV lamp and loop sterilizer keep it clean.

Applications

The Master Science Large-Capacity Anaerobic Incubator is used for: High-volume anaerobic bacteria culture Pathogenic anaerobe research Food hygiene microbiology Microaerophilic and low-oxygen studies Culture work needing below-ambient temperatures

Anaerobic system

- Glove-box operation chamber with dedicated gloves
- Sampling airlock with one-touch purge
- Vacuum and gas displacement control

Incubation

- 339 L incubation space
- 15-60°C with refrigeration compressor
- PID control with LCD display

Built-in tools

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

Standard Accessories Included

- Anaerobic operation chamber with gloves
- Sampling chamber (airlock)
- Incubation chamber with cooling
- Gas and circuit control system
- Cabinet stand and bottle rack
- Wax melting device and inoculating loop sterilizer
- UV germicidal lamp

Optional Accessories

- Independent external temperature protector
- Two sets of 0.22 μm replaceable HEPA filters for inlet and exhaust gas