Touch-Screen Anaerobic Workstation, O2 ≤0.1%, 57 or 339 L, Automatic Gas Control, USB, HEPA

Model **MSICB-AN-HYQIII-TSWISS,MSICB-AN-HYQIII-TDSWISS,MSICB-AN-HYQIII-TZSWISS** | Brand **Master Science**









The Master Science Touch-Screen Anaerobic Workstation automates the whole anaerobic routine. Both the sampling airlock and the main operation chamber are brought to anaerobic conditions at a single touch, and the controller then holds a preset oxygen level instead of feeding mixed gas constantly, which cuts gas consumption.

KEY HIGHLIGHTS

- Fully automatic set-up
- Lower gas use
- Very low oxygen
- Traceable runs

AT A GLANCE

42 × 29 × 47.5 cm (T, TD)
INCUBATOR INTERNAL DIMENSIONS

40 × 33 × 32 cm
SAMPLING CHAMBER DIMENSIONS

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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Overview

Oxygen in the operation chamber falls to 0.1% or less, or to 0.01% with a palladium catalyst. A 7 inch colour touch screen shows temperature, oxygen and pressure, and USB logging records each run. An oil-free vacuum pump avoids oil vapour, and two sets of 0.22 µm HEPA filters clean the incoming and exhaust gas as standard. Three versions are offered: floor-standing with a 57 L incubator, benchtop with a 57 L incubator, and a model with a 339 L incubation space.

Specifications of the Master Science Touch-Screen Anaerobic Workstation range (T / TD / TZ):

For a simpler manual system, see our anaerobic incubator workstation, a basic version of the Master Science Touch-Screen Anaerobic Workstation.

Manual anaerobic chambers need constant attention and lots of gas. The Master Science Touch-Screen Anaerobic Workstation addresses:

Overview

- One-touch purge for airlock and operation chamber
- Preset O_2 control with micro-flow gas supply
- Oil-free vacuum pump
- Deoxygenation catalyst, loop sterilizer and wax melting device

Key Benefits

Fully automatic set-up
The Master Science Touch-Screen Anaerobic Workstation purges both chambers at a single touch.

Lower gas use
Oxygen-based control replaces constant gas flushing.

Very low oxygen
Down to 0.01% O_2 with a palladium catalyst.

Traceable runs
USB logging stores temperature, oxygen and pressure data.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSICB-AN-HYQIII-TSWISS,MSICB-AN-HYQIII-TDSWISS,MSICB-AN-HYQIII-TZSWISS
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Incubation temperature range	**RT+3 to 60°C (T, TD); 15 to 60°C (TZ)**
Temperature uniformity	≤±1°C
Temperature fluctuation	≤±0.3°C
Anaerobic grade	O_2 ≤0.1% without palladium catalyst; ≤0.01% with catalyst
Sampling chamber anaerobic time	≤15 min, one-touch automatic
Operation chamber anaerobic time	≤1.5 h to O_2 ≤0.3%, one-touch automatic
Formation method	Vacuum (sampling chamber) and gas displacement with micro-flow control, using 99.99% N_2 or mixed gas
Anaerobic maintenance	Automatic, controlled by preset O_2 level
Incubator volume	57 / 57 / 339 L
Controller	7 inch colour touch screen, fuzzy PID
Shelves	2
Vacuum pump	Oil-free
Filters	2 sets of 0.22 μm replaceable HEPA filters (inlet and exhaust)
Chamber	SUS304 stainless steel

DIMENSIONS & WEIGHT	
Incubator internal dimensions	42 × 29 × 47.5 cm (T, TD)
Sampling chamber dimensions	40 × 33 × 32 cm
Operation chamber dimensions	94.4 × 67 × 74.4 / 94.4 × 67 × 74.4 / 85.2 × 56.9 × 70 cm
External dimensions	140 × 68.8 × 141.8 / 140 × 68.8 × 75 / 140 × 68.8 × 141.8 cm

DISPLAY & DATA	
Data	USB logging and firmware update
Missing run data	USB logging keeps a full record.

POWER	
Power supply	1 phase, 220 V, 50 Hz
High mixed-gas consumption	O_2-based control supplies gas only as needed.

ANAEROBIC LAB PROBLEMS THE MASTER SCIENCE TOUCH-SCREEN ANAEROBIC WORKSTATION SOLVES	
Hands-on purging	One-touch cycles handle both chambers.
Oil contamination from pumps	An oil-free pump keeps the system clean.

Applications

The Master Science Touch-Screen Anaerobic Workstation is used for: Culture of strict anaerobic bacteria Clinical and pathogenic anaerobe research Gut microbiome and probiotic studies Food hygiene microbiology Microaerophilic and hypoxia experiments

Temperature

- Cross-flow fan with arc-shaped air circulation
- Fuzzy PID control with self-protecting heater
- User-set temperature protection with automatic cut-off and alarm

Usability

- 7 inch TFT colour touch screen
- Large airlock with sliding tray
- Removable operation chamber baseplate
- UV germicidal lamp; SUS304 chamber; impact-resistant glass windows

Standard Accessories Included

- Constant temperature incubator
- Anaerobic operation chamber with gloves
- Sampling chamber (airlock)
- Gas and circuit control system
- Cabinet stand and bottle rack (floor models)
- Wax melting device and inoculating loop sterilizer
- UV germicidal lamp
- 2 sets of 0.22 μm HEPA filters

Optional Accessories

- Independent external temperature protector