

Anaerobic Incubator

ICB-AN-HYQIII



Features



It consists of a constant temperature incubator, anaerobic operation chamber, sampling chamber, gas and circuit control systems, cabinet stand, bottle rack, and wax melting sterilizer.



By using different components of mixed gases, it can create stable extreme anaerobic, microaerophilic, and low-oxygen environments, flexibly cultivating different microbial culture conditions.



Equipped with a microcomputer intelligent PID temperature controller, which accurately reflects and controls the temperature inside the incubator.



The front windows of the operation and sampling chambers are made of impact-resistant special transparent glass. Dedicated gloves are used for operation, ensuring flexibility, convenience, reliability, and comfort.



The operation chamber is equipped with a specialized inoculating loop sterilizer, wax melting disinfection device, and deoxygenation catalyst.



The inner chamber of the incubator is made of SUS304 stainless steel. The chamber is equipped with a UV germicidal lamp.

Optional

Independent external temperature protection device.

RS485 communication port.

Mini thermal printer or mini dot matrix printer.

Two sets of 0.22µm replaceable HEPA high-efficiency filters: Set A is used to remove trace impurities from the injected gas; Set B is used to remove harmful microorganisms and odors from the exhaust gas. (Based on actual usage, the recommended filter replacement interval is 3 to 6 months.)

Note:

(1)The external height (H) includes 8cm accessories.

(2)Customers are required to provide their own experimental gas cylinders, gases, pressure reducing valves, and catalysts.

Application

The anaerobic incubator is a specialized device for bacterial culture and operation under anaerobic conditions. It provides a strict anaerobic environment, constant temperature incubation conditions, and a systematic, scientific workspace. It is applied in the testing and research of pathogenic anaerobic bacteria, microbiological inspection for food hygiene, and other fields requiring hypoxic, microaerobic, and anaerobic experimental conditions.



Specification

Model	ICB-AN-HYQIII
Incubation Chamber Temperature Range	RT+3 C ~ 60 C
Temperature Uniformity	≤ ±1 C
Temperature Fluctuation	≤ ±0.3 C
Anaerobic Grade	Oxygen content in operation chamber ≤ 0.5%
Anaerobic State Formation Time (Sampling Chamber)	≤ 15 minutes
Anaerobic (Microaerophilic) Formation Method (Sampling Chamber)	Vacuum + Gas displacement (using 99.99% N ₂ or mixed gas of 5% H ₂ , 10% CO ₂ , and 85% N ₂) Vacuum + Gas displacement (using 99.99% N ₂ or mixed gas of 5% O ₂ , 10% CO ₂ , and 85% N ₂)
Anaerobic Process Operation (Sampling Chamber)	One-touch automatic execution
Anaerobic State Formation Time (Operation Chamber)	≤ 1.5 hours
Anaerobic (Microaerophilic) Formation Method (Operation Chamber)	Vacuum + Gas displacement (using 99.99% N ₂ or mixed gas of 5% H ₂ , 10% CO ₂ , and 85% N ₂) Vacuum + Gas displacement (using 99.99% N ₂ or mixed gas of 5% O ₂ , 10% CO ₂ , and 85% N ₂)
Anaerobic Maintenance Time (Operation Chamber)	> 12 hours (after stopping trace mixed gas supplementation)
Anaerobic Process Operation (Operation Chamber)	Manual button switching
Internal Dimensions of Incubation Chamber	42×29×47.5cm
Internal Volume of Incubator	57L
Sampling Chamber Dimensions	40×33×32cm
Operation Chamber Dimensions	94.4×67×74.4cm
External Dimensions	140×68.8×141.8cm
Temperature Controller	LCD display, PID temperature controller
Shelves	2
Electricity	1Ø 220V, 50Hz
Power	730W

Anaerobic Incubator

ICB-AN-HYQIII-Z



Features



It consists of a constant temperature incubator, anaerobic operation chamber, sampling chamber, gas and circuit control systems, cabinet stand, bottle rack, and wax melting sterilizer.



By using different components of mixed gases, it can create stable extreme anaerobic, microaerophilic, and low-oxygen environments, flexibly cultivating different microbial culture conditions.



Equipped with a microcomputer intelligent PID temperature controller, which accurately reflects and controls the temperature inside the incubator.



The front windows of the operation and sampling chambers are made of impact-resistant special transparent glass. Dedicated gloves are used for operation, ensuring flexibility, convenience, reliability, and comfort.



The operation chamber is equipped with a specialized inoculating loop sterilizer, wax melting disinfection device, and deoxygenation catalyst.

The inner chamber of the incubator is made of SUS304 stainless steel.



The chamber is equipped with a UV germicidal lamp.

Uses a Cubigel refrigeration compressor, high efficiency and low consumption; uses fluorine-free environmentally friendly refrigerant.

Optional

Independent external temperature protection device.

Two sets of 0.22 μ m replaceable HEPA high-efficiency filters: Set A is used to remove trace impurities from the injected gas; Set B is used to remove harmful microorganisms and odors from the exhaust gas. (Based on actual usage, the recommended filter replacement interval is 3 to 6 months.)

Note:

(1)The external height (H) includes 8cm accessories.

(2)Customers are required to provide their own experimental gas cylinders, gases, pressure reducing valves, and catalysts.

Application

The anaerobic incubator is a specialized device for bacterial culture and operation under anaerobic conditions. It provides a strict anaerobic environment, constant temperature incubation conditions, and a systematic, scientific workspace. It is applied in the testing and research of pathogenic anaerobic bacteria, microbiological inspection for food hygiene, and other fields requiring hypoxic, microaerobic, and anaerobic experimental conditions.



Specification

Model	ICB-AN-HYQIII-Z
Incubation Chamber Temperature Range	15 C ~ 60 C
Temperature Uniformity	$\leq \pm 1$ C
Temperature Fluctuation	$\leq \pm 0.3$ C
Anaerobic Grade	Oxygen content in operation chamber $\leq 0.5\%$
Anaerobic State Formation Time (Sampling Chamber)	≤ 15 minutes
Anaerobic (Microaerophilic) Formation Method (Sampling Chamber)	Vacuum + Gas displacement (using 99.99% N ₂ or mixed gas of 5% H ₂ , 10% CO ₂ , and 85% N ₂) Vacuum + Gas displacement (using 99.99% N ₂ or mixed gas of 5% O ₂ , 10% CO ₂ , and 85% N ₂)
Anaerobic Process Operation (Sampling Chamber)	One-touch automatic execution
Anaerobic State Formation Time (Operation Chamber)	≤ 1.5 hours
Anaerobic (Microaerophilic) Formation Method (Operation Chamber)	Vacuum + Gas displacement (using 99.99% N ₂ or mixed gas of 5% H ₂ , 10% CO ₂ , and 85% N ₂) Vacuum + Gas displacement (using 99.99% N ₂ or mixed gas of 5% O ₂ , 10% CO ₂ , and 85% N ₂)
Anaerobic Maintenance Time (Operation Chamber)	> 12 hours (after stopping trace mixed gas supplementation)
Anaerobic Process Operation (Operation Chamber)	Manual button switching
Internal Dimensions of Incubation Chamber	Operation chamber/Incubation chamber
Internal Volume of Incubator	339L
Sampling Chamber Dimensions	40×33×32cm
Operation Chamber Dimensions	85.2×56.9×70cm
External Dimensions	140×68.8×141.8cm
Temperature Controller	LCD display, PID temperature controller
Shelves	2
Electricity	1 \varnothing 220V, 50Hz
Power	1000W

Anaerobic Incubator

ICB-AN-HYQIII-T ICB-AN-HYQIII-TD ICB-AN-HYQIII-TZ



ICB-AN-HYQIII-TZ

Features



It consists of a constant temperature incubator, anaerobic operation chamber, sampling chamber, gas and circuit control systems, cabinet stand, bottle rack, and wax melting sterilizer.

The chamber is equipped with a UV germicidal lamp.

The inner chamber is made of SUS304 stainless steel, which is wear-resistant, prevents powder shedding, and has a smooth surface for easy cleaning.

Application

The anaerobic incubator is a specialized device for bacterial culture and operation under anaerobic conditions. It provides a strict anaerobic environment, constant temperature incubation conditions, and a systematic, scientific workspace. It is applied in the testing and research of pathogenic anaerobic bacteria, microbiological inspection for food hygiene, and other fields requiring hypoxic, microaerobic, and anaerobic experimental conditions.

Features



By using different components of mixed gases, it can create stable extreme anaerobic, microaerophilic, and low-oxygen environments, flexibly cultivating different microbial culture conditions.

Uses the preset oxygen concentration as the control parameter, eliminating the need for constant mixed gas replenishment and significantly reducing gas consumption.



High-impedance motor cross-flow fan with horizontal air outlet and arc-shaped circulation design; features power-balanced temperature regulation and a self-protecting heater. This ensures superior temperature uniformity and minimal fluctuation.



Front windows of the operation and sampling chambers are made of impact-resistant special transparent glass, offering excellent light transmission and pressure resistance. Dedicated gloves are used for flexible and comfortable operation.



Microcomputer fuzzy P.I.D temperature controller with automatic gas displacement procedures provides precise control to meet diverse temperature requirements.



7" TFT 65K color touch screen provides high-definition display of parameters (temperature, oxygen concentration, pressure, etc.), making it intuitive and easy to operate.



One-touch automatic execution for establishing anaerobic environments in both the sampling and operation chambers, significantly reducing labor and time costs.



Features a safety monitoring function; users can set temperature protection limits. In case of abnormalities, power to functional components is automatically disconnected and an alarm is triggered.



Equipped with a specialized inoculating loop sterilizer, wax melting disinfection device, and deoxygenation catalyst inside the operation chamber.

Utilizes an oil-free vacuum pump to ensure no oil vapor is generated during operation.



The spacious sampling chamber allows for the transfer of more Petri dishes or instruments at once, with a sliding track for easier transport. The operation chamber baseplate is removable to accommodate larger instruments and facilitate cleaning.

Standard

USB data logging port for easy recording and storage of experimental data; supports automatic USB firmware updates for the control program.

Equipment includes two sets of 0.22µm replaceable HEPA filters: Set A removes trace impurities from injected gases; Set B removes harmful microorganisms and odors from exhaust gases. (Recommended replacement interval is 3-6 months depending on usage.)

Optional

Independent external temperature protection device.



ICB-AN-HYQIII-T



ICB-AN-HYQIII-TD



ICB-AN-HYQIII-TZ

Specification

Note:

(1)The external height (H) includes 8cm accessories.

(2)Customers are required to provide their own experimental gas cylinders, gases, pressure reducing valves, and catalysts.

Model	ICB-AN-HYQIII-T	ICB-AN-HYQIII-TD	ICB-AN-HYQIII-TZ
Incubation Chamber Temperature Range (°C)	RT+3~60	RT+3~60	15~60
Temperature Uniformity (°C)	≤±1		
Temperature Fluctuation (°C)	≤±0.3		
Anaerobic Grade		Oxygen content in operation chamber ≤ 0.1% (without palladium catalyst); Oxygen content in operation chamber ≤ 0.01% (with palladium catalyst).	
Anaerobic State Formation Time (Sampling Chamber)		≤ 15 minutes	
Anaerobic (Microaerophilic) Formation Method (Sampling Chamber)		Vacuum + Gas displacement (using 99.99% N ₂ or mixed gas of 5% H ₂ , 10% CO ₂ , and 85% N ₂) Vacuum + Gas displacement (using 99.99% N ₂ or mixed gas of 5% O ₂ , 10% CO ₂ , and 85% N ₂)	
Anaerobic Process Operation (Sampling Chamber)		One-touch automatic execution	
Anaerobic State Formation Time (Operation Chamber)		≤ 1.5 hours (O ₂ concentration ≤ 0.3%)	
Anaerobic (Microaerophilic) Formation Method (Operation Chamber)		Gas displacement (using 99.99% N ₂ or mixed gas of 5% H ₂ , 10% CO ₂ , and 85% N ₂)+Micro-flow control Gas displacement (using 99.99% N ₂ or mixed gas of 5% O ₂ , 10% CO ₂ , and 85% N ₂)+Micro-flow control	
Anaerobic Maintenance Time (Operation Chamber)		Automatic maintenance	
Anaerobic Process Operation (Operation Chamber)		One-touch automatic execution	
Internal Dimensions of Incubation Chamber (cm)	42×29×47.5	42×29×47.5	Operation chamber/Incubation chamber
Internal Volume of Incubator (L)	57	57	339
Sampling Chamber Dimensions (cm)	40×33×32	40×33×32	40×33×32
Operation Chamber Dimensions (cm)	94.4×67×74.4	94.4×67×74.4	85.2×56.9×70
External Dimensions (cm)	140×68.8×141.8	140×68.8×75	140×68.8×141.8
Temperature Controller	7-inch color touch screen, PID temperature controller		
Shelves	2		
Electricity	1Ø 220V, 50Hz		