anaerobic microaerobic workstation with two gloves for use

Anaerobic microaerobic workstation is a high-precision culture equipment specially designed for the experimental operation of microorganisms under anaerobic or micro-oxygen conditions.

Anaerobic Microaerobic Workstation Overview

The anaerobic microaerobic workstation is able to meet various needs of bacterial inoculation, continuous cultivation, passaging, medium conversion and observation and identification.

Working Conditions

- Power requirements: 220V AC, 50/60Hz, rated current about 2.5A, suitable for conventional laboratory power supply.
- Environmental temperature and humidity: Recommended 25°C, humidity <90%, ensuring stable operation and preventing condensation or damage to components.

Main Configuration

1. Host: Provides stable culture environment and gas regulation system.
2. Vacuum pump: Removes chamber oxygen to ensure anaerobic conditions.
3. Long cuffs (1 pair) & rigid cuffs (1 pair): Ensure sealing/comfort, prevent air entry.

4. O-rings: For wrist/cuff sealing, maintaining airtightness.
5. Anaerobic indicator pump (A&B liquid): Real-time anaerobic state indication for operational judgment.
6. Petri dish rack (3pcs): Optimized sample placement, ventilation, observation.
7. Fluorescent lamp & UV lamp: Provide experimental lighting, UV for sterilization.
8. Catalyst (400g/bag) & regulator (400g/bag): Oxygen decomposition and gas purification.
9. Lubricating powder: Ensures sleeve/seal flexibility and durability.
10. Internal power socket & power cord: For auxiliary equipment connection.
11. Operation manual & installation/debugging tools: Guide correct setup and use.

Features

1. Precise gas regulation system, flexible control of O_2 and CO_2 concentration.
2. High-quality sealing for long-term stable anaerobic environment.
3. Automatic indication/monitoring for real-time culture status.
4. Multiple sterilization/disinfection measures to prevent cross contamination.
5. Easy operation, ergonomic design for fatigue-free long-term use.

Advantages

1. Adapts to various anaerobic/microaerobic microbial culture needs.
2. Energy saving and high efficiency, reduced consumption, stable operation.
3. Precise environmental control, high culture success rate, strong repeatability.
4. Multi-functional combination for complex microbiological research.

Working Principle

The workstation extracts chamber air via vacuum pump, uses catalyst for rapid oxygen reduction, and regulators to remove harmful gases, ensuring safe and pure environment. Digital oxygen sensors provide real-time feedback to regulate gas ratio. Long sleeves & rigid cuffs ensure airtight hand protection. Fluorescent & UV lamps offer lighting and UV sterilization for sterile culture environment.