

Dual-Chamber Anaerobic Workstation

Advanced Solution for Precision Anaerobic Cultivation & Research



Left Instrumentation Chamber

- Dedicated Anaerobic Integration Zone

● O₂ & H₂ Sensing System

- ☆ Real-time O₂ and H₂ monitoring for precise gas regulation
- ☆ Automatic intake adjustment based on O₂ and H₂ levels to sustain optimal anaerobic conditions

● Stable & Rapid Anaerobic Control

- ☆ Seamless auto/manual control switching for flexible operation
- ☆ One-touch anaerobic activation for instant environment setup
- ☆ Continuous stability maintenance with real-time monitoring
- ☆ Low gas consumption after stabilization for cost efficiency
- ☆ Real-time USB data recording for experiment documentation

Direct Entry System (DES)

- ☆ Soft and skin-friendly gloves ensure quick and easy entry to the chamber
- ☆ Provide complete isolation between the chamber and the external environment, ensuring stability within the chamber
- ☆ Detachable gloves facilitate effortless cleaning and replacement, ensuring optimal hygiene and functionality



Intuitive and User-Friendly Interface

- ☆ Simple and clear interface displays all chamber features on a single page
- ☆ Effortless operation ensures a seamless and user-friendly experience



Right Cultivation Chamber

- Integrated Cultivation & Manipulation Platform

ACCURACY

Micro Pressure & O₂ Sensing System

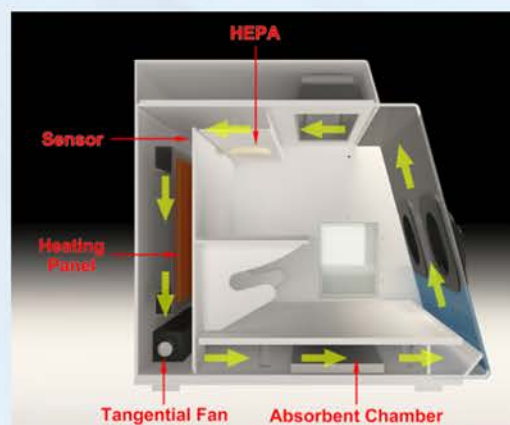
- ☆ Real-time oxygen monitoring ensures precise gas regulation
- ☆ Accurate micro-pressure detection with a precision of 0.1 KPA
- ☆ Low gas consumption post-anaerobic environment

Precise Temp and Humidity Control

- ☆ Temperature Control: 3°C above ambient up to 45°C, in 0.1°C increments (Optional high/low temperature control)
- ☆ Humidity Control: Room humidity to 85%

Advanced Gas Circulation Design

- ☆ Ensures an exceptional level of homogeneity in gas distribution throughout the workstation
- ☆ Consistent airflow contributes to accurate and reliable experimental outcomes



CLEANLINESS

Enhanced Filtration System

- ☆ HEPA 14 filter available for superior particle removal and a pristine environment



Innovative Acrylic Construction

- ☆ Panels molded from a single piece of acrylic to reduce condensation and microbial growth
- ☆ Enhanced acrylic Integrity with Annealing Process for enhanced durability



CONVENIENCE

Quick O₂ Sensor Calibration

- ☆ Rapid calibration of the O₂ sensor ensures precise gas concentration detection



Seamless Entry System (SES)

- ☆ Efficient vacuum system removes sleeve air completely, ensuring a controlled atmosphere within the workstation and allowing direct access in 12 seconds
- ☆ Operable with lab gloves, ensuring seamless and convenient handling
- ☆ Glove port caps easily "parked" in special holders, optimizing workspace utilization



Before vacuuming



After vacuuming

- ☆ Option to switch to the Glove Entry System (GES) for faster and cost-effective access



Glove Entry System (GES)

Detachable Front Panel

- ☆ Quick access to the interior by removing the front panel for equipment setup

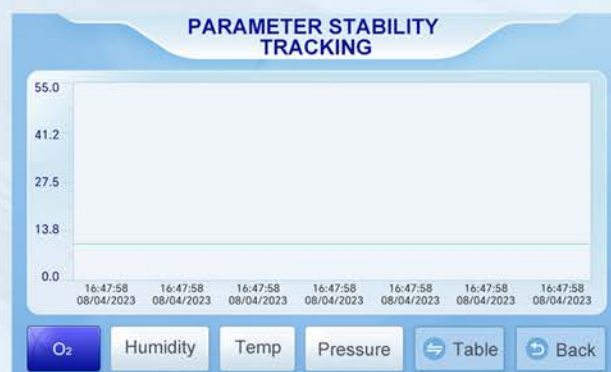


Automatic Generation of Parameter Curves

- ☆ Parameters can be automatically plotted on charts, simplifying data analysis and interpretation

Efficient Data Recording

- ☆ Effortlessly record experiment data, including O₂, CO₂, Humidity, Temperature and Pressure
- ☆ Easily access and monitor data logs, aiding in optimizing experimental parameters



SAFETY

Remote Control with Alarm

- ☆ Standard voice alarms for O₂, temp, humidity, cylinder low pressure, and gas leak
- ☆ Optional remote control and alarms for added convenience



Enhanced User Security

- ☆ Three-tiered user password protection for controlled access and robust data security
- ☆ User-defined User name & Password



Real-time Pressure Monitoring

- ☆ Continuous pressure monitoring to ensure optimal pressure levels within the workstation

Dual Pressure Relief System

- ☆ Equipped with a classic pressure relief valve and a special pressure relief tank for enhanced safety and precise pressure regulation



Optional H₂ Monitor with Alarm

- ☆ Integrated hydrogen sensor for proactive gas leak detection and immediate response
- ☆ Ensures an optimal and safe experimental environment

Optional CO₂ Control with Alarm

- ☆ 0.1% - 20.0%, in 0.1% increments
- ☆ 0.1% - 99%, in 0.1% increments



Left Chamber Specifications

Internal Dimension (W/D/H mm)	690/590/550	Internal Capacity	224L
Capacity (petri dishes)	950/850	Interlock Capacity (petri dishes)	44x90mm
Gas Supplies	ANO ₂ /N ₂	Real-Time O ₂ & H ₂ Detection	Available
Sensor Calibration	Available	Direct Entry System (DES)	Available
Interlock Purge	Available	Data Logging System	Available
Palladium Catalyst	Available	12 Months Warranty	Available

Right Chamber Specifications

Internal Dimension (W/D/H mm)	800/470/420	External Dimension (W/D/H mm)	1100/710/605
Capacity (petri dishes)	600/539	Interlock Capacity (petri dishes)	44x90mm
Gas Supplies	ANO ₂ /N ₂	Real-Time Oxygen & Pressure Detection	Available
Temp & Humidity Control	Available	Gas Sensor Calibration	Available
Seamless Entry System	Available	Quick Interlock Purge	Available
Detachable Front Panel	Available	Dual Pressure Relief System	Available
Internal Socket & Light	Available	Real-time Data Graphing	Available
Data Logging System	Available	Three-Tiered User Password	Available
Cylinder Low Pressure System	Available	Activated Carbon Sachet & Catalyst	Available