



EXPLORING IN VIVO ANEROBIC ENVIRONMENT

Guide Your Microbial
Research Environment



ANAEROBIC WORKSTATION

Advanced Technology for Seamless Observation Operation and Cultivation

01



CLEANLINESS

01 Enhanced Dual Filtration System

- Filter membranes to purify gases upon entry into the workstation
- HEPA 14 filter available for superior particle removal and a pristine environment

02 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
- Clear acrylic front panel ensures unobstructed visibility eliminating vapor-induced blur

ACCURACY

03 Oxygen Sensing System

- Real-time oxygen monitoring for precise gas regulation
- Adapts intake based on oxygen levels to achieve desired anaerobic state

04 Precise Control of Temperature and Humidity

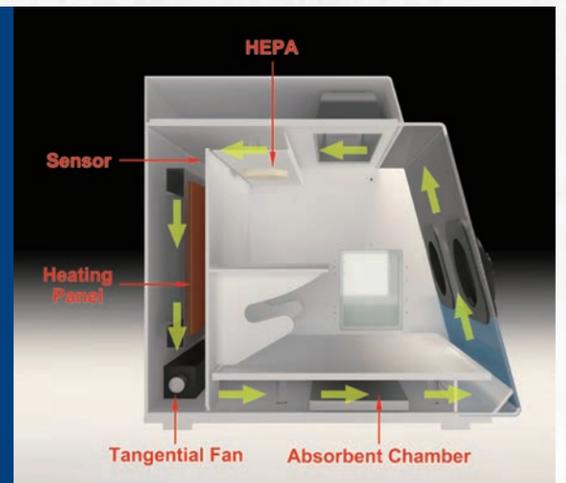
- Temperature Control:
3°C above ambient up to 45°C, in 0.1°C increments
(Optional high/low temperature control: 4 - 70°C)
- Humidity Control:
Room humidity to 80%

05 Enhanced Anaerobic Capability

- Achieve anaerobic conditions in 25-35 minutes
- Maintains a stable anaerobic environment consistently
- Low gas consumption post-anaerobic environment

06 Advanced Airway Design

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



07 Real-time Pressure Monitoring

- Continuous Surveillance:
Ensures optimal pressure levels within the workstation through constant monitoring
- Micro-Positive Pressure Assurance:
Maintains a micro-positive pressure to safeguard gas integrity and sample security



CONVENIENCE

08

Intuitive and User-Friendly Interface

Streamlined screen pages for a simple and effortless user experience



09

Seamless Entry System

- Efficient vacuum pump grants direct workstation access in around 12 seconds
- Operable with lab gloves, ensuring seamless and convenient handling
- Glove port caps easily "parked" in special holders, optimizing workspace utilization



Pre-Vacuum

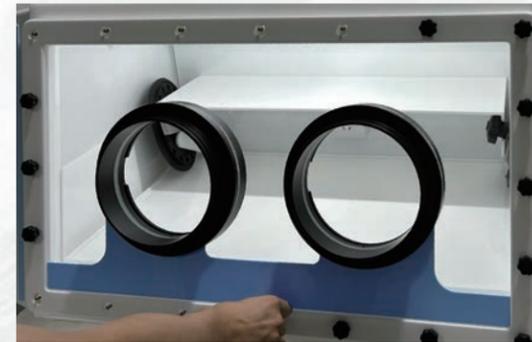


Post-Vacuum

10

Detachable Front Panel

Conveniently access the workstation's interior by detaching the front panel, facilitating the installation of diverse laboratory equipment



12

Quick Sensor Calibration

Automatic calibration of O₂ sensors to ensure precise gas concentration detection



14

USB Data Logging System

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

11

Optional H₂ Gas Monitoring

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



13

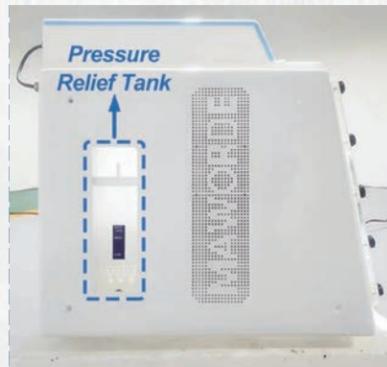
Real-time Data Graphing

Parameters can be automatically visualized in charts, facilitating data analysis and interpretation



SAFETY

15 Dual Pressure Relief System



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

16 Three-Tiered User Password Security



Implements a three-tiered password protection system to ensure a secure culture environment

17 Optional Remote Control with Alarms

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



PRODUCT DIMENSION

Model		YY-M Plus		YY-L Plus		YY-XL Plus		YY-XXL Plus	
Internal Size	H(mm)	420		420		550		550	
	W(mm)	500	97L	800	155L	760	238L	760	238L
	D(mm)	460		460		570		570	
Interlock Internal Size	H(mm)	245		245		245		350	
	W(mm)	257	14L	257	14L	257	14L	365	36L
	D(mm)	220		220		220		280	
External Size	H(mm)	600		600		770		770	
	W(mm)	860		1160		1120		1120	
	D(mm)	660		660		660		660	
Capacity (Petri Dishes)	Max Capacity	350		520		720		720	
	Recommend	300		400		580		580	
	Interlock	44		44		44		171	

Model		YY-TM Plus		YY-D Plus		YY-XD Plus		YY-TMD Plus	
Internal Size	H(mm)	550		420		550		550	
	W(mm)	1100	345L	800	155L	760	238L	1100	345L
	D(mm)	570		460		570		570	
Interlock Internal Size	H(mm)	245		245		295		295	
	D(mm)	220	14L	280	18L	280	30L	280	30L
	W(mm)	257		257		365		365	
External Size	H(mm)	770		600		770		770	
	W(mm)	1460		2000		2020		2700	
	D(mm)	660		660		780		780	
Capacity (Petri Dishes)	Max Capacity	1000		1040		700		2000	
	Recommend	800		800		550		1600	
	Interlock	44		44		99		99	



ANAEROBIC WORKSTATION

Precision Excellence In Achieving & Maintaining Anaerobic Conditions

02



CLEANLINESS

01 Enhanced Dual Filtration System

- Filter membranes to purify gases upon entry into the workstation
- HEPA 14 filter available for superior particle removal and a pristine environment

02 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
- Clear acrylic front panel ensures unobstructed visibility eliminating vapor-induced blur

ACCURACY

03 Micro Pressure Monitoring System

- Utilizes precise micro pressure detection system with an accuracy of 0.1 KPA
- Continuously monitors and auto-adjusts the intake system based on pressure

04 Precise Control of Temperature and Humidity

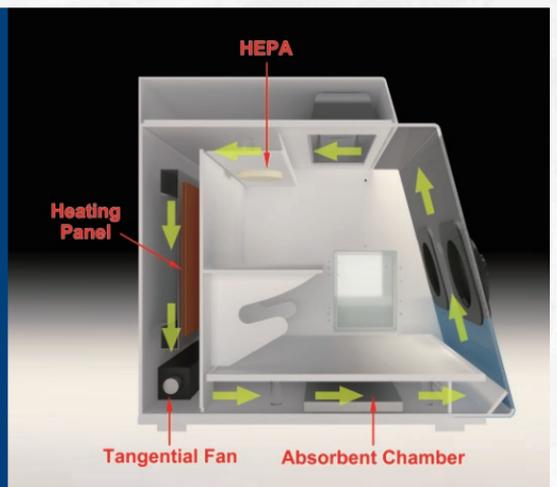
- Temperature Control: 3°C above ambient up to 45°C, in 0.1°C increments (Optional high/low temperature control: 20 - 55°C)
- Humidity Control: Room humidity to 80%

05 Enhanced Anaerobic Capability

- Achieve anaerobic conditions in 25-30 minutes
- Maintains a stable anaerobic environment consistently
- Low gas consumption post-anaerobic environment

06 Advanced Airway Design

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



07 Seamless Entry System

- Efficient vacuum pump grants direct workstation access in around 12 seconds
- Operable with lab gloves, ensuring seamless and convenient handling
- Glove port caps easily "parked" in special holders, optimizing workspace utilization

08 Dual Pressure Relief System

09 Optional O₂ Monitor for Data Recording



ANAEROBIC CHAMBER

Affordable Solution Achieving Anaerobic Conditions With Flexible Slim Chamber Design



ACCURACY

01 Oxygen Sensing System

- Real-time oxygen monitoring for precise gas regulation
- Adapts intake based on oxygen levels to achieve desired anaerobic state

02 Enhanced Anaerobic Capability

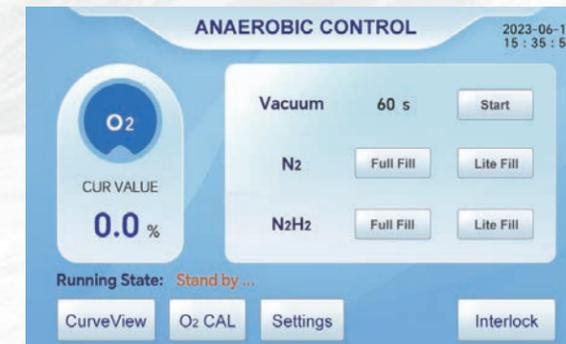
- Achieve anaerobic conditions in 25-35 minutes
- Maintains a stable anaerobic environment consistently
- Low gas consumption post-anaerobic environment

03

CONVENIENCE

03 User-Friendly Interface

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



05 Optional H2 Monitor

Integrated hydrogen sensor for proactive gas leak detection and immediate response

07 Quick Interlock Purge

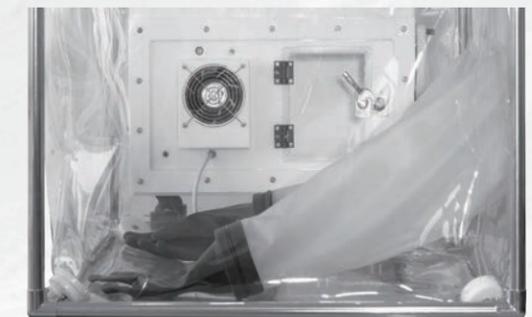
Interlock quickly transitions to microaerophilic conditions. For anaerobic environments, insert a catalyst into the interlock to eliminate oxygen entirely.

08 Real-time Data Graphing & Recording

- Effortlessly record experiment data, including O₂, Gas Inject Time, and Temperature
- Parameters can be automatically plotted on charts, simplifying data analysis

04 Direct Entry System (SES)

- 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



06 Quick Sensor Calibration

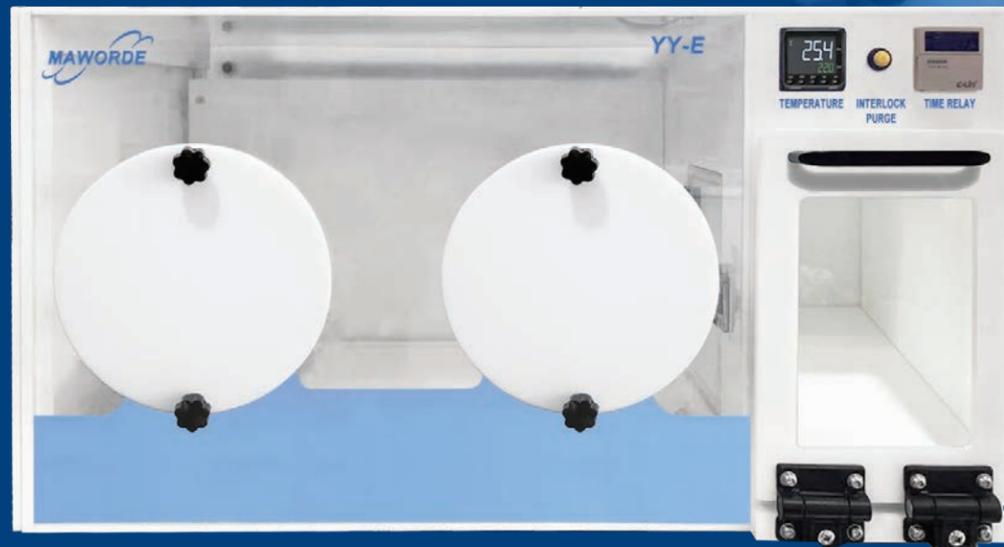
Rapid calibration of the O₂ sensor ensures precise gas concentration detection



ANAEROBIC GLOVE BOX

Affordable Efficiency for Integrated Observation Operation and Cultivation

04



CLEANLINESS

01 Optional Filtration System

- Filter membranes to purify gases upon entry into the workstation
- HEPA 14 filter available for superior particle removal and a pristine environment

02 Innovative Acrylic Construction

- Enhanced acrylic Integrity with Annealing Process for enhanced durability
- Clear acrylic front panel ensures unobstructed visibility eliminating vapor-induced blur

ACCURACY

03 Oxygen Sensing System

- **Accurate Timing Control:**
Precisely regulate gas intake timing for optimal anaerobic conditions
- **Interval Management:**
Control air intake intervals to achieve desired anaerobic states

04 Precise Control of Temperature and Humidity

- **Temperature Control:**
3°C above ambient up to 45°C, in 0.1°C increments (Optional high/low temperature control: 20 - 55°C)
- **Humidification System:**
Water Pan for Humidification, capable of reaching up to 99% relative humidity

05 Enhanced Anaerobic Capability

- Achieve anaerobic conditions in 16-30 minutes
- Maintains a stable anaerobic environment consistently
- Low gas consumption post-anaerobic environment

06 Advanced Airway Design

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



07 Effortless Purging System

- **Interval Management:**
Activate the interlock purge instantly with the press of a button for quick and smooth operations



CONVENIENCE & SAFETY

08 Direct Entry System

- Soft and skin-friendly gloves ensure quick and easy entry to the glove box without the need for purging
- Designed to allow direct operation for utmost convenience



09 Optional Seamless Entry System

- Efficient vacuum pump grants direct workstation access in around 12 seconds
- Operable with lab gloves, ensuring seamless and convenient handling
- Glove port caps easily "parked" in special holders, optimizing workspace utilization



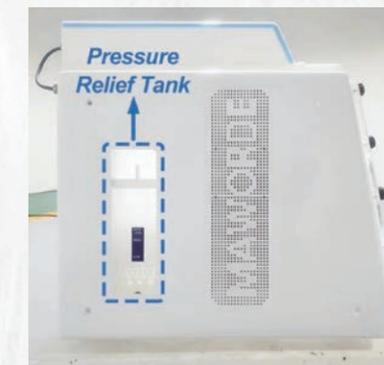
Pre-Vacuum



Post-Vacuum

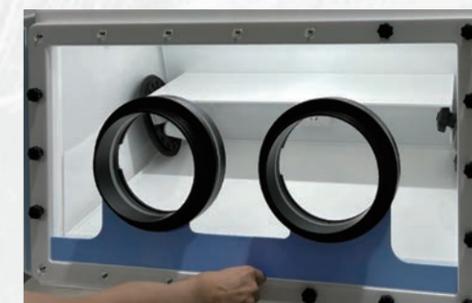
10 Dual Pressure Relief System

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



11 Optional Detachable Front Panel

Conveniently access the workstation's interior by detaching the front panel, facilitating the installation of diverse laboratory equipment



12 Optional O₂ Monitor for Data Recording

13 Product Dimension

Model		YY-E	YY-LE	YY-XLE	YY-TME				
Internal Size	H(mm)	341	420	550	550				
	W(mm)	532	74L	800	155L	760	238L	1100	345L
	D(mm)	408	460	570	570				
Interlock Internal Size	H(mm)	255	255	245	245				
	W(mm)	173	11L	173	11L	257	14L	257	14L
	D(mm)	250	250	220	220				
External Size	H(mm)	420	600	770	770				
	W(mm)	740	1160	1120	1460				
	D(mm)	570	660	660	660				
Capacity (Petri Dishes)	Max Capacity	143	520	720	1000				
	Recommend	100	400	580	800				
	Interlock	33	33	33	33				



05

ANAEROBIC INCUBATOR

Swift Attainment of Anaerobic Environment



Anaerobic Incubator (GC-Y)



Anaerobic Incubator with Temperature Control (GC-YT)



Multi-channel Anaerobic Incubator (GC-YD/YDT)

01 Intuitive User Interface

- Intuitive user interface for a seamless and effortless user experience
- Streamlined operations for enhanced efficiency and productivity



02 Oxygen Sensing System

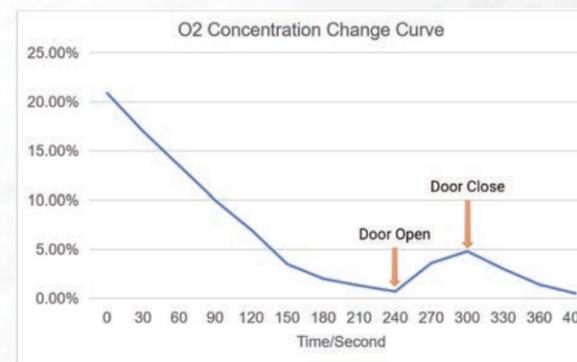
- Real-time oxygen monitoring for precise gas regulation
- Adapts intake based on oxygen levels to achieve desired anaerobic state

03 Precise Temperature Control with Humidification System

- Temperature control: 2°C above ambient up to 45°C, in 0.1°C increments
- Water Pan for Humidification: Capable of reaching up to 85% relative humidity
- Optional Humidity Control: Room humidity to 85%

04 Swift Parameter Attainment and Recovery

Quickly achieve and restore desired gas concentrations and temperature upon door closure



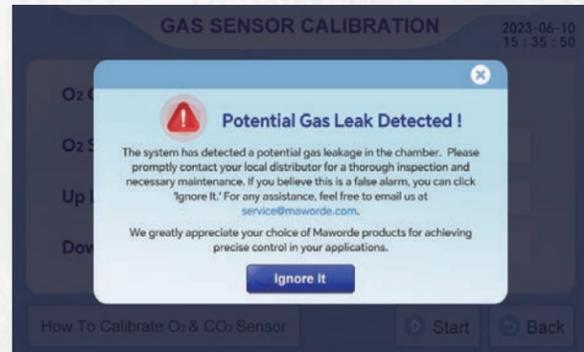
05 One-Touch Sensor Calibration

Automatic calibration of O₂ sensors to ensure precise gas concentration detection



06 Wireless Monitoring and Alarms

- Standard voice alarms for O₂, temp, and gas leak
- Optional wireless control and alarms for added convenience



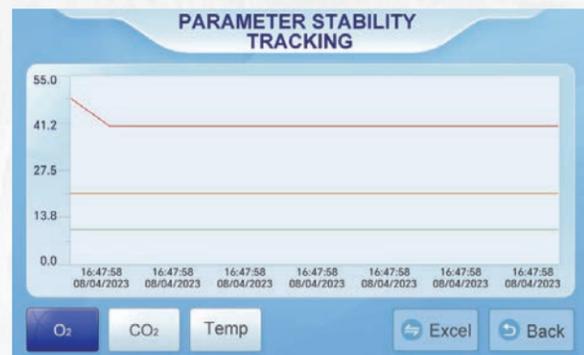
07 Enhanced User Security

Implements a three-tiered password protection system to ensure a secure culture environment



08 Real-time Data Graphing

Parameters can be automatically visualized in charts, facilitating data analysis and interpretation



09 Streamlined Data Recording

Effortlessly record and retrieve experimental data with the integrated USB data logging system

No.	TIME	DATE	O2 SP	O2 CP	Humidity SP	Humidity CP	Temp SP	Temp CP	Pressure
481	14:59:02	10/15/2023	0.0	19.8	0.0	29.0	0.0	28.6	0.25
482	14:58:02	10/15/2023	0.0	19.9	0.0	29.0	0.0	28.6	0.26
483	14:57:02	10/15/2023	0.0	19.9	0.0	28.0	0.0	28.5	0.26
484	14:56:02	10/15/2023	0.0	19.9	0.0	29.0	0.0	28.5	0.26
485	14:55:02	10/15/2023	0.0	19.9	0.0	29.0	0.0	28.5	0.26
486	14:54:02	10/15/2023	0.0	19.9	0.0	29.0	0.0	28.5	0.26
487	14:53:02	10/15/2023	0.0	19.9	0.0	29.0	0.0	28.5	0.26
488	14:52:02	10/15/2023	0.0	19.9	0.0	28.0	0.0	28.5	0.26
489	14:51:02	10/15/2023	0.0	20.0	0.0	29.0	0.0	28.5	0.25
490	14:50:02	10/15/2023	0.0	20.0	0.0	28.0	0.0	28.5	0.25

10 Product Dimension

Model		GC-Y01 (Black/Clear)		GC-Y02 (Black/Clear)		GC-Y03 (Black/Clear)		GC-YT (Black)		GC-YTL (Black)	
Internal Size	H(mm)	140	210	270	270	300					
	W(mm)	320	320	350	350	400	12.5L	18.8L	27.4L	400	36L
	D(mm)	280	280	290	290	300					
External Size	H(mm)	185	255	315	315	345					
	W(mm)	340	340	370	445	495					
	D(mm)	380	380	390	420	430					
Capacity (Petri Dishes)	Max Capacity	72	108	144	144	216					
	Recommend	72	108								

ANAEROBIC JAR GASSING SYSTEM



Achieving Rapid and Affordable Anaerobic Conditions

01 Efficient Operation

- Rapidly achieve a 0% O₂ environment within 50 seconds
- Customize air intake time to suit your experiment needs

02 Gas Control Systems

Choose between two gas control systems to match your experimental setup: Gas Mixer and Simple Gas Control System

03 Operating Modes for Precise Environmental Control

- Anaerobic Mode:
 - Achieve a complete anaerobic environment within 70 seconds using the integrated catalyst
- Microaerophilic Mode:
 - O₂ Control Range: 0.1% to 23.0% in 0.1% increments
 - CO₂ Control Range: 0.1% to 20.0% in 0.1% increments



Customization Examples

Tailored Solutions for Varied Needs

07

01 Anaerobic Enclosure/Incubator for Shaker



02 Anaerobic Enclosure/Incubator for Tecan Microplate Reader



03 Anaerobic Workstation for Imaging System



04 Anaerobic Workstation for Automated Workstation



05 Anaerobic Workstation for Multi-Instrument



06 Tailored Anaerobic Workstation for Your Unique Workflow

