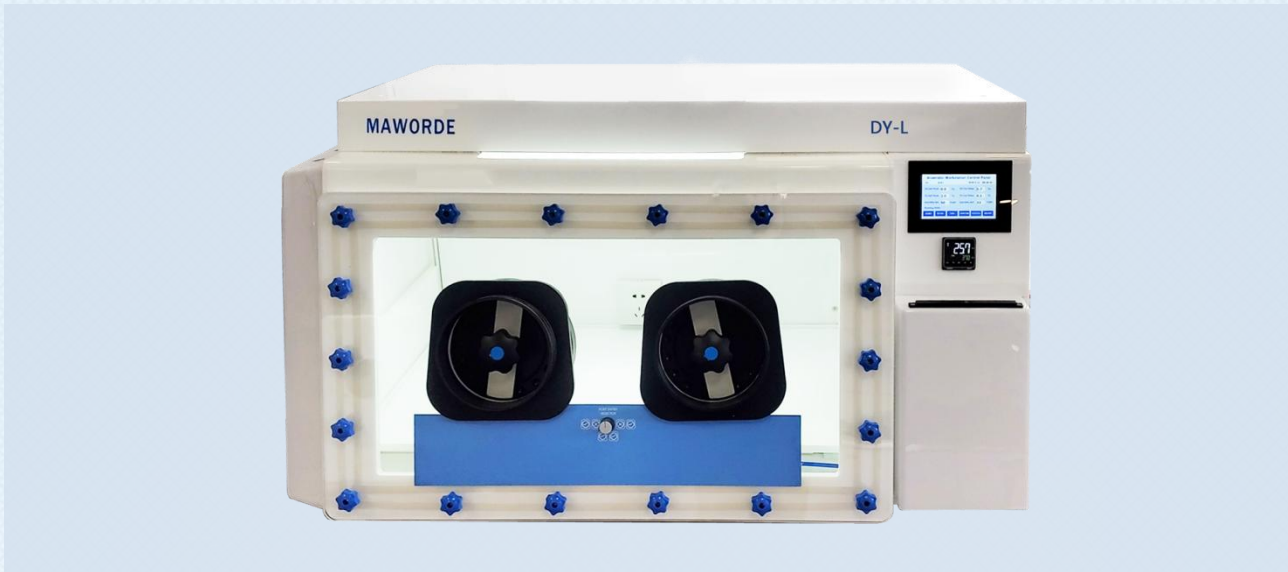# HYPOXIC WORKSTATION

01 ACCURACY

- Precise Control of O_2 and CO_2
  - √ Range of O_2 Control: 0.0% - 20.9%, in 0.1% increments
  - √ Range of CO_2 Control: 0.03% - 20.0%, in 0.1% increments

- Precise Control of Temperature and Humidity
  - √ Range of Temperature Control: 5°C above ambient up to 45°C, in 0.1°C increments
    (Optional high/low temperature control chamber)
  - √ Range of Humidity Control: Room humidity to 75%, in 0.1% increments

- Advanced Airway Design
  - √ Ensures a high level of homogeneity in the workstation's gas distribution
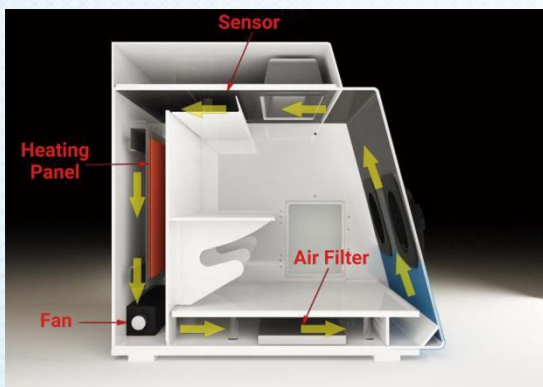
- Accurate Gas Control System
  - √ High precision O_2 and CO_2 sensor
  - √ Precise mixing and control of the internal atmosphere

02 CLEANLINESS

- High efficiency HEPA filtration system.

- The top, front and bottom panels are moulded from a single piece of acrylic to reduce condensation and microbial growth.

- The clear acrylic front panel of the workstation effectively avoids front panel blur caused by vapour condensation.

03 SAFETY

- A double pressure relief system consisting of a pressure relief tank and various pressure relief valves ensures the safety of the workstation.
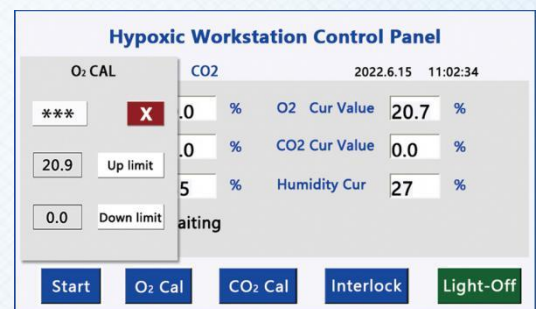

Pressure Relief Tank

04 CONVENIENCE

- Direct-access operation system
  - √ The sleeves are made of a soft, skin-friendly material and an efficient vacuum pump direct access to the workstation only 8-12 seconds.
  - √ Can be operated directly with lab gloves.
  - √ Glove port caps can be "parked" in special holders and do not take up valuable working space.

Before vacuuming   After vacuuming

- One-touch calibration for O_2 and CO_2 sensor
  - √ The O_2 and CO_2 sensors can be automatically calibrated to guarantee the accuracy of gas concentration detection.

Hypoxic Workstation Control Panel

O_2 CAL		CO2		2022.6.15 11:02:34
***	X	.0 %	O2 Cur Value	20.7 %
20.9	Up limit	.0 %	CO2 Cur Value	0.0 %
	5 %	aiting	Humidity Cur	27 %
0.0	Down limit			

Start O_2 Cal CO_2 Cal   Interlock   Light-Off

- Thoughtful lighting configurations: Daylight lamps and fluorescent detection lamps

- Programmable four-stage hypoxic cycle
  - √ Can stimulate the sample by change of O_2 and CO_2 concentration automatically.

- During the interlock purge the user can select the oxygen concentration required in the interlock

- An optional built-in air pump and filter are used to provide the oxygen supply, avoiding the need for a compressed air cylinder

- USB data logging system holds 3 months of continuous data storage

- Optional anaerobic system: hypoxic and anaerobic system in one workstation: a very low O_2 level of <5 PPM O_2 can be achieved
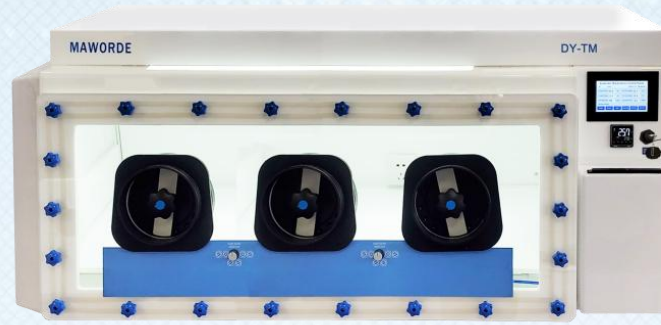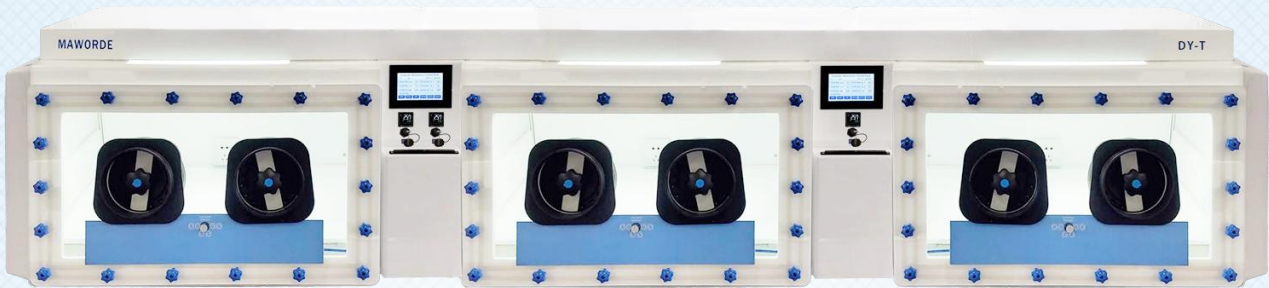
05 CUSTOMISED PRODUCTS

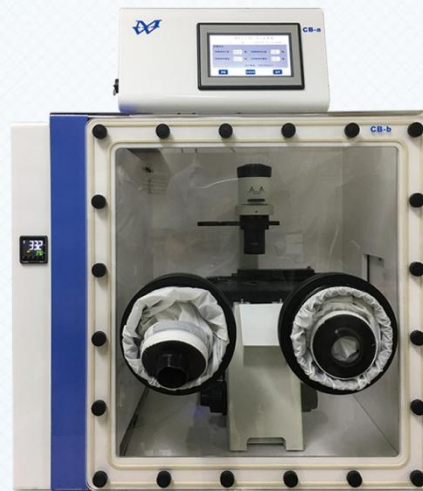Dual Hypoxic Workstation DY-D (Large Interlock)
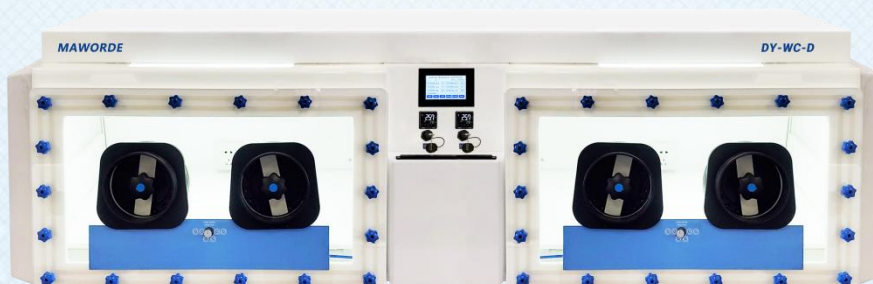
Hypoxic Workstation For Animal & Cell Research DY-WC-D (L: Animal; R: Cell)

Hypoxic Workstation with a Larger Workspace DY-TM

Hypoxic Workstation with Three Large Chambers DY-T

Integration of Microscopes into a Hypoxic Glove Box