

HYPOXIA ENCLOSURE FOR AGILENT SEAHORSE

The Seahorse XF Analyzer detects OCR and ECAR in mammalian cells to determine key cell functions such as mitochondrial respiration and glycolysis. The combination of a Maworde GC-CS and a Seahorse XF Analyzer provides an O₂ environment for various cells during observation studies, providing insight into cell metabolism under hypoxic conditions and characterising metabolic phenotype.



Specifications

- **Incubator Construction** made of acrylic, which retains moisture and temperature inside the incubator.
- **External Dimensions(mm):** 700(H)*700(W)*600(D)
- **Precise O₂ Control:** 0.1% to 23.0% , in 0.1% increments
- **One-touch Calibration:**O₂ sensor calibration can be conducted quickly (zero-point and known-point calibration)
- **Cooling & Dehumidification:**
Apply the more effective method of semiconductor cooling. Preventing the Seahorse Analyzer from being left in a high-temperature, high-humidity environment all the time.
- **Removable side panel for transporting equipment**
- **USB Data logging system holds 3 months of continuous data storage**

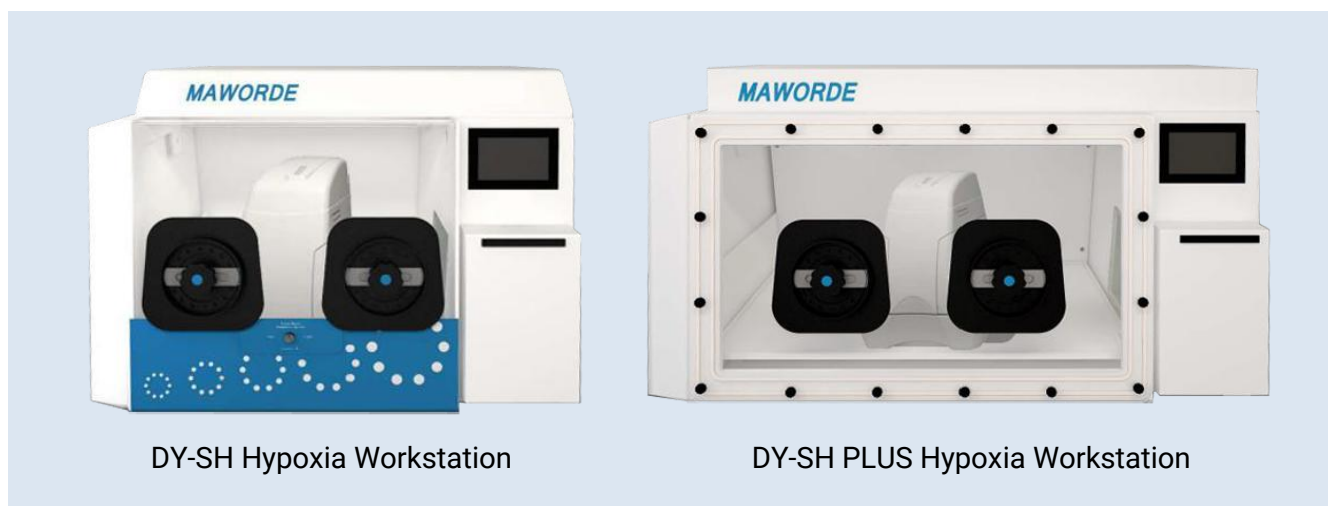
GC-CS vs GC-CS Plus

	GC-CS	GC-CS PLUS
Cooling Mechanism	Condensation fan	Semi-Conductor cooling
O ₂ Sensor	No calibration	One-touch calibration

MAWORDE DY-SH INSTRUMENT WORKSTATION

The combination of a Maworde DY-SH Instrument Workstation and a Seahorse XF Analyzer permits simultaneous, real-time analysis of mitochondrial respiration and glycolysis in mammalian cells under precisely controlled hypoxic conditions.

The workstation has been developed in response to a rising number of inquiries from scientists who desire to use Seahorse Extracellular Flux (XF) Analyzers in hypoxic conditions but are dissatisfied with the solutions available. The built-in incubator allows you to precondition the cellular and incubate and media at 37°C in the same atmospheric conditions as the cellular.



Specifications

- **Incubator Construction** made of acrylic, which retains moisture and temperature inside the incubator.
- **Interlock:**
Positioned on the RHS of the main cabinet, ease of transferring petri-dish and etc.
It can accommodate 40 x 90mm petri dish or 20 x 96-well plates.
Short interlock purge time - 40s
- **Flexible Solutions:**
Main cabinet size-160L, interlock size-13L (DY-SH Hypoxia Workstation)
Main cabinet size-350.3L, interlock size-13L(DY-SH Hypoxia Workstation)
This can set up to 37°C to enhance the culturing performance.
- **Accurate O₂ Control:** 0.1% to 23.0% , in 0.1% increments
- **One-touch Calibration:** O₂ sensor calibration can be conducted quickly (zero-point and known-point calibration)
- **Humidity Control:** advanced semi-conductor cooling and Dehumidifier

Specifications

- **Removable Front Panel:**
Front panel is removable for hypoxia workstation
Both front screen and left-hand side panels are removable (standard feature)
- **Glove Ports:**
The direct access operation system can access the workstation quickly and easily.
- **Standard Internal Socket**
- **USB data logging system holds 3 months of continuous data storage**
- **Culturing & Monitoring as a whole:**
 - DY-SH-D hypoxia workstation dual: DY-SH connects to DY-SH via the interlock of DY-SH. The right-hand side cabinet can do preparatory and culturing work, while the left-hand side can undergo inspection and monitoring operations under the Seahorse XF. This configuration separates the "culturing room" from the "inspection room."
 - Maworde DY-SH allows user achieve microaerophilic environment
 - O₂ control : 0.1% to 23%, in 0.1% increments
 - CO₂ control: 0.1% to 20%, in 0.1% increments
 - Temperature control:
5°C above ambient up to 45°C, in 0.1°C increments
 - Humidity control: Ambient to 75% RH



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