

About Don Whitley Scientific

For over thirty years we have pioneered the worldwide development and use of workstations.

Worldwide technical support.

More than 2500 of our workstations are in use in fifty countries.

Scientific guidance available from our own in-house contract laboratory facilities.



Image courtesy of BD Biosciences

'Hypoxystation' and 'Your environment defined' are registered trademarks owned by Don Whitley Scientific Limited

Product details

The Hypoxystation is the ideal product for cell culture research. Our new workstation replicates conditions comparable to those occurring in vivo.

You will have the option to:

- Control O<sub>2</sub> in 0.1% increments from 0.1% to 20% with closed loop feedback
- Control CO<sub>2</sub> in 0.1% increments from 0.1% to 15% - fixed level of approximately 5% when the optional feedback system is not specified
- Carry out straightforward calibration of gas sensors
- Control temperature from 5°C above ambient up to 45°C
- Switch easily between hypoxic and anoxic environments
- Use each porthole as a small airlock for rapid sample transfer

The H85 Hypoxystation has been designed to combine functional reliability with operational comfort.

- Touch screen interface
  - Allows you to easily monitor all parameters simultaneously
  - Eliminates the need for any other dials, switches and gauges.
- Large, 30 litre airlock with powered internal door provides effective sample and equipment transfer in the fastest possible time.
- Patented oval gloveports operated by wireless footswitch, allow gloved or bare hand working.
- Optional refrigeration unit designed to operate at 8°C (other set temperatures are available).

Every chamber is heat-treated during manufacture to increase the durability of the fabricated structure and ensure a long working life.

Specification

A06002	230V	Whitley H85 Hypoxystation
A06003	115V	External dimensions (L x H x D) 1570mm x 840mm x 760mm

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Whitley Workstations  
H85 Hypoxystation



Your environment defined®

Specifically designed to create normoxic, hypoxic and anoxic conditions within a controlled and sustained workstation environment, this workstation is ideal for all research requiring the ability to accurately control oxygen, carbon dioxide, temperature and humidity.

With such accurate control and the ability to manipulate cells in situ without altering the incubation environment, cell biology research can be performed over a comprehensive range of oxygen tensions with precision and total confidence.

Every aspect of system functionality has been thoroughly considered – a 30 litre airlock, environmental control systems, touch screen layout, workspace visibility, fabrication quality and our unique motorised gloveport system.

The H85 Hypoxystation has been designed in conjunction with cell biology researchers to ensure ultimate performance combined with user comfort, convenience and reliability.



Designed specifically for hypoxia and anoxia research applications

O<sub>2</sub> levels monitored continually to provide you with better control and more confidence in your results

CO<sub>2</sub> monitoring is available as an option

Remote controlled motorised gloveports

Precise and stable temperature and humidity control

Integrated gas control equipment minimises bench space requirements – no bulky external gas mixing system

Optional refrigeration unit available

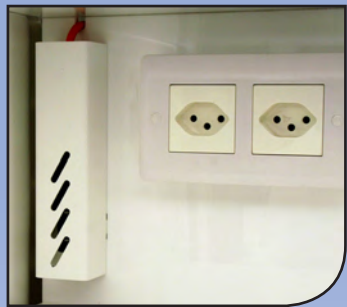






The unique patented portholes provide both sample transfer and operator entry and exit

Optional internal power sockets and CO<sub>2</sub> feedback



Equipment and bulk sample transfer is very convenient using the 30 litre airlock



### Touch Screen

Full-colour 7" touch screen display featuring intuitive software to access a sophisticated microprocessor-based operating system.

### Equipment Enclosure

Contains all instrumentation to control oxygen, carbon dioxide, temperature and humidity.

### Oxygen Sensor and Calibration

Simple oxygen sensor calibration without removal from the chamber.

### Optional Internal Socket

Some users need to operate electrical instrumentation inside the workstation. A fused mains power supply and country-specific electrical socket is available as an option.

### Chamber

High quality, clear acrylic structure annealed during fabrication providing generous incubation and working areas.



### Airlock

Equipment and bulk sample transfer is very convenient using the 30 litre airlock.

### Portholes

Patented motorised multi-functional portholes for operator ingress and egress and sample transfer. Fitted with our unique sleeve system.

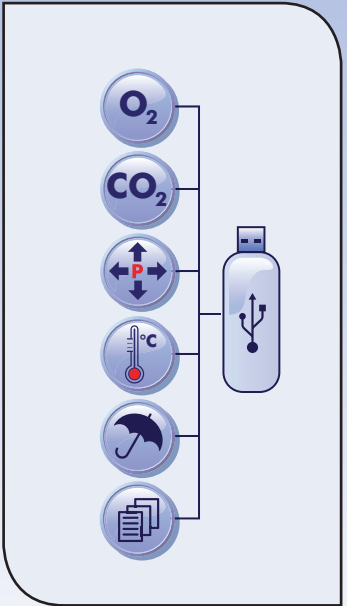


Simple oxygen sensor calibration without removing the sensor from the chamber

Wireless footswitch for convenient operation of porthole sequences



Convenient USB memory stick download of stored environmental parameters



## Factory-Fitted Options

- Ao7320 Refrigeration Unit** - The standard refrigeration unit is designed to operate at  $8 \pm 1.5^{\circ}\text{C}$  when located in an ambient temperature of  $21 \pm 2^{\circ}\text{C}$ . Other set temperatures can be achieved by discussion with our product development staff.
- Ao6102 Vacuum Take-off** - Provides a method of aspirating used liquid media from inside the workstation, safely and without risk of spillage or contamination.
- Ao6106 Double Internal Socket** - (1 Amp maximum)
- Ao6107 Gas Sample Port** - This allows the user to take a sample of the atmosphere inside the workstation for further analysis.
- Ao3113 Automatic Sleeve Gassing System** - Automated system for evacuating as much air as possible from the sleeves to maintain internal conditions before entering the workstation.
- Ao2945 Spare Cable Gland** - This allows the user to take a sample of the atmosphere inside the workstation for further analysis.
- Ao6128 Large Spare Cable Gland (32mm)**

## Software Options

- Ao6109 Data Logging** - Allows the data recording of environmental parameters inside the workstation - oxygen, carbon dioxide, temperature and humidity levels and cabinet internal pressure. The collected data can be down loaded via a USB interface to a memory stick and transferred to a PC for further analysis.
- Ao6108 Data Logging with Oxygen Profiling** - Allows the user to pre-programme different oxygen levels. The user can determine how long the workstation atmosphere remains at a particular oxygen level, when to return to a previous level, remain static or adjust to a different gas concentration.
- Ao6100 CO<sub>2</sub> Monitoring** - Hardware and software to monitor and control CO<sub>2</sub> in 0.1% increments from 0.1% to 15%

In the interests of a policy of continuous product improvement the company reserves the right to alter product specifications without prior notice.

## Upgrades and Accessories

- Ao7216 Trolley** - Custom-designed trolley frees up bench space and allows the Hypoxystation to be moved easily between laboratories.
- Ao3125 Letterbox** - Ideal for quickly transferring small quantities of samples.
- Ao3225 Letterbox** - With long support tray for larger items
- Ao3325 Letterbox** - With a folding tray
- Ao6104 Humidification System** - Adds moisture in minute droplet form enabling rapid, sustained and accurate humidity control.
- Ao3120 Catalyst** - Required when you want to create anoxic conditions in the workstation.
- Ao2129 Anotox** - Use in conjunction with Catalyst to maintain anoxic conditions.
- Ao2490 Airlock Transfer Tray** - Required when you want to create anoxic conditions in the workstation.