

About Don Whitley Scientific

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

More than 3000 of our workstations are in use in fifty countries.

Worldwide technical support.

Scientific guidance available from our own in-house laboratories.

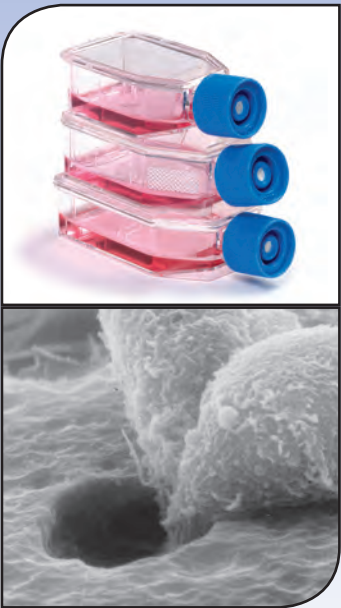


Image courtesy of BD Biosciences

'Hypoxystation' is a registered trademark owned by Don Whitley Scientific Limited

"I bought a Whitley Workstation when I worked in London. I was so pleased with the product that when I moved to Denmark, I ordered another one. It is a beautifully well thought through and reliable product – it simply does what it says it does."

Janine Erler, Biotech Research and Innovation Centre, University of Copenhagen, Denmark.

Product details

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

- Full colour touch screen interface:
 - Allows you to monitor easily all parameters simultaneously
 - Eliminates the need for any other dials, switches and gauges
- With the optional Automatic Humidification System you can add sterile moisture to control specific humidity levels. The only user maintenance required is to top up the reservoir with deionised water when prompted. Reduce the loss of culture medium volume due to evaporation or cell death due to dehydration and pH change.
- Airlock provides effective cell ware transfer to and from the workstation environment in the fastest possible time
- Patented, ergonomic portholes allowing gloved or bare hand working
- Each unit manufactured to suit the needs of your particular area of research

Specification

A06500	230V	Whitley H45 Hypoxystation Product dimensions (L x H x D) 1660mm x 710mm x 720m
A06501	115V	

In the interests of a policy of continuous product improvement the company reserves the right to alter product specifications without prior notice. All rights reserved. © 2014 Don Whitley Scientific Limited.

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H45 Hypoxystation/1024-3/January 2015



Whitley Workstations
H45 Hypoxystation



A 3-port hypoxic workstation with easy access to the whole incubation area

Specifically designed to create normoxic, hypoxic and anoxic conditions within a controlled and sustained 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.

The H45 Hypoxystation features an integral airlock, environmental control systems, full colour touch screen layout, two oval sleeved ports on a removable front and one unique Instant Access Port.

You can:

- Control O2 in 0.1% increments from 0.1% to 20%
- Control CO2 in 0.1% increments from 0.1% to 15%
- Carry out straightforward calibration of gas sensors
- Control temperature easily and precisely
- Control relative humidity up to 80%

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

CO2 monitoring provides accuracy within ± 0.4% within the range 0-15%.

O2 and CO2 levels monitored and adjusted continually to provide you with better control and more confidence in your results

Whitley Internal HEPA Filtration Model H35 - exceeds the requirements of ISO 14644 Class 3

Designed specifically for researching cell biology under strictly maintained normoxic, hypoxic and anoxic conditions

Precise control designed to establish and maintain the environmental conditions you require throughout the entire incubation and working areas

Gas mixing achieved instantly via a unique, fully integrated control system - rapidly create your selected environmental conditions and minimise bench space requirements

Optional maintenance-free Automatic Humidification System provides a sterile source of additional humidity

Easy, accurate, 2-point oxygen sensor calibration



Go online to see our workstations in operation:

www.hypoxystation.co.uk

Easily removable front for equipment transfer and thorough cleaning



15cm Letterbox - Ideal for introducing individual samples quickly.



Instant Access Port



12 litre rapid cycle airlock



Equipment Enclosure

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

Chamber

High quality clear acrylic structure provides optical clarity. The chamber is annealed (heat treated) at least twice during and after manufacture the annealing process relieves the stresses induced as a natural consequence of machining, forming and polishing acrylic. The chamber provides generous incubation and working areas.

Portholes

Unique oval portholes for operator ingress and egress, providing greater freedom of movement and operator comfort.

Optional Single Plate Entry System

Individual samples can be introduced in seconds into the workstation.

Oxygen Sensor and Calibration

Simple oxygen sensor calibration without taking the sensor out of the chamber.

Optional Removable Front

Easily removable front for equipment transfer, the introduction of bulk quantities of samples and thorough cleaning.

Touch Screen

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

HEPA Filtration System

The Whitley Internal HEPA Filtration System ensures that particulate contamination is swiftly removed. Atmospheric cleanliness levels inside the workstation exceeds the requirements of ISO 14644 Class 3.

Airlock

Equipment and sample transfer is very convenient using the 12 litre airlock. The airlock cycle takes only 60 seconds.



For HEPA filtration that exceeds the atmospheric cleanliness requirements of ISO 14644 Class 3, order the H45 HEPA model. This option is *not* retrofittable

Factory-Fitted Options

- Ao6102 Vacuum Take-off** - Provides a method of aspirating used liquid media from inside the workstation in safety and without the risk of spillage or contamination.
- Ao6103 15cm Letterbox** - Ideal for quickly introducing small quantities of samples.
- Ao6104 Whitley Automatic Humidification System** - Adds sterile moisture and maintains a sterile environment.
- Ao6106 Double Internal Socket** - (1 Amp maximum)
- Ao6107 Gas Sample Port** - Allows the user to take a sample of the workstation atmosphere for analysis.
- Ao2945 Spare Cable Gland** - Allows cables and probes (3mm-7mm Ø) to be introduced without compromising internal conditions.
- Ao6128 Large Additional Cable Gland** - Allows cables and probes (19mm-23mm Ø) to be introduced without compromising internal conditions.
- L00040 Temperature Mapping** - Confirms precise temperature measurements at twelve positions inside the chamber. This is a factory test.

Upgrades and Accessories

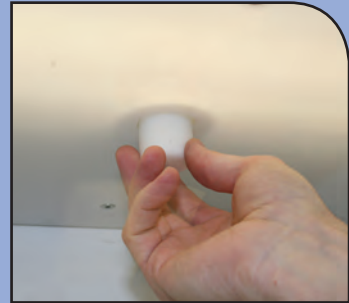
- Ao7202 Trolley** - Custom-designed trolley frees up bench space and allows the Hypoxystation to be moved easily between laboratories.
- Ao6114 Internal Storage Trays** - One or two trays can be positioned under the shelf. This is either a factory-fitted option or trays can be fitted on-site.
- Ao6116 Automated Sleeve Gassing System** - Automated system for evacuating as much air as possible from the sleeves to maintain internal conditions before entering the workstation.
- Ao7211 Workstation Spotlight** - Provides directional lighting to assist in the early identification of sample growth or other specimen examination.

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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 downloaded 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.

Simple oxygen sensor calibration without taking the sensor out of the chamber



Wireless footswitch for convenient operation of porthole sequences



Convenient USB memory stick download of stored environmental parameters

