About Don Whitley Scientific

For over forty 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.

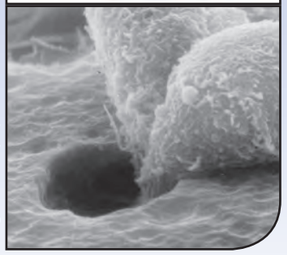

Image courtsey of BD Biosciences

Product details

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

You will have the option to:

- **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%**

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

The touchscreen interface:

- Allows you to monitor all parameters simultaneously
- Eliminates the need for any other dials, switches and gauges

12 litre airlock provides effective cell ware transfer to and from the workstation environment in the fastest possible time

Patented, ergonomic gloveports fitted with sleeves for user comfort and ease of movement

Specification

A06070	240V	**Whitley H135 HEPA Hypoxystation** Product dimensions (W x D x H) 1452mm x 1056mm x 993m
A06071	110V	

H135 HEPA Hypoxystation/1018-1/July 2015

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Whitley Workstations
H135 HEPA Hypoxystation

don whitley scientific
your environment defined®

Your environment defined®

The H135 HEPA was developed for the study of cells under hypoxic and anoxic atmospheric conditions. With such accurate control and the ability to manipulate cells in situ without altering the incubation parameters, cell biology research can be performed over a comprehensive range of oxygen tensions with precision and total confidence.

The tallest, deepest, widest cell culture workstation in the current Hypoxystation range, the H135 HEPA has a huge internal capacity of 826 litres. The additional height and depth provide the ideal environment for the accommodation of a variety of items of laboratory equipment such as live cell imaging devices, microscopes and plate readers.

This Hypoxystation comes complete with internal HEPA filtration, environmental control systems, removable front, bespoke trolley and CO2 monitoring, full colour touchscreen interface and our unique oval glove port system that is fitted with sleeves for user comfort and ease of movement.

For users who wish to use a Seahorse XF Analyzer in their work, the H135 HEPA can connect to a Whitley i2 Instrument Workstation, which can house the Seahorse in an ideal, CO2 free working environment (as specified by the manufacturers). Plates can be passed from one chamber into the other via the Whitley Transfer Tunnel without subjecting cells to ambient conditions.

For more information on the i2, please see our website or contact sales@dwscientific.co.uk

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 H135 - 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

Fully automated O2 calibration routine

Go online to see our workstations in operation:

www.hypoxystation.co.uk

Easily removable front for equipment transfer and thorough cleaning

15cm Single Sample Entry System - Ideal to introduce individual samples quickly.

Oval Sleeved 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 fitted with isolators providing the ability to use only one port at a time saving time and conserving gas

Optional Single Sample Entry System
Individual samples can be introduced in seconds into the workstation.

Oxygen Sensor and Calibration
Automatic oxygen sensor calibration without taking the sensor out of the chamber.

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 is swiftly removed.

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

Whitley Internal HEPA Filtration System

All the atmosphere in the chamber passes through the filter hundreds of times an hour, which ensures the chamber environment is cleaned quickly. Placing the filter inside the workstation prevents the filter becoming saturated with moisture. Levels of atmosphere cleanliness inside the workstation exceed the requirements of ISO 14644 Class 3.

Options and Accessories

A06102 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.

A06104 Humidification System
Adds sterile moisture and maintains a sterile environment.

A06106 Double Internal Power Socket

A06109 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.

A06108 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 or adjust to higher or lower gas concentrations.

A02945 Small Cable Gland

A06128 Large Cable Gland

A06103 Single Sample Entry System (15cm)
Ideal for quickly introducing small quantities of samples (situated on left hand side panel).

A07208 Single Sample Entry System (9cm)

A07211 Spotlight
Provides directional lighting to assist in the early identification of sample growth or other specimen examination.

A07218 Enhanced Biological Containment

L00040 Multi-Point Temperature Mapping

L00050 Single Point Temperature Mapping

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

Remote monitoring and control over a secure internet link

Oxygen profiling allows the user to pre-programme different oxygen levels.

Convenient USB memory stick download of stored environmental parameters