



# Whitley Workstations M35 Variable Atmosphere Workstation

don whitley  
scientific



Uses 4 separate gases for the isolation and study of microaerophiles

Separate gases offer cheaper running costs compared to pre-mixed gas

Built-in gas sensing technology for improved accuracy

Temperature and humidity easily controlled

Unique hydrogen sensing offers real time feedback

Available with either of two patented porthole systems.

Colour touch screen operation with display of all set parameters

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

A range of additional options and accessories to tailor the system to your specific requirements

The M35 is a unique microaerobic workstation that is ideal for the isolation and study of *Campylobacter spp.*, *Helicobacter pylori* and other similarly fastidious organisms.

This workstation allows the use of four separate gases for total flexibility: CO<sub>2</sub>, nitrogen, air and a 10% hydrogen/90% nitrogen mix can be combined within safe and varying ratios to create specific atmospheres for your experiments. Built-in gas sensing technology allows you to programme precise gas concentrations for sample manipulation in a sustained microaerobic environment.

The M35 has a 12 litre airlock that can transfer up to 40 x 90mm Petri dishes at any one time in only 60 seconds. The chamber can accommodate 400-600 Petri dishes depending on how space is shared between incubation and working areas.



## Product details

The M35 Workstation has been designed primarily for the culture and study of microaerophiles.

- Full colour touch screen interface:
  - Allows you to monitor 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 Petri dish 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 or routine work.

## Specification

A08120	230V	<b>Whitley M35 Workstation</b> Product dimensions (L x D x H) 1255mm x 720mm x 710m
A08121	115V	

A08130	230V	<b>Whitley M35 Removable Front Version</b> Product dimensions (L x D x H) 1255mm x 720mm x 710m
A08131	115V	

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About  
Don Whitley Scientific

For over forty years we have pioneered the development and use of modified atmosphere workstations for microbiology and cell culture applications

Our workstations are used in more than fifty countries

Worldwide technical support

Scientific guidance available from our own in-house contract laboratories

[www.dwscientific.co.uk](http://www.dwscientific.co.uk)





(A) Intuitive operational software accessed via a full colour touch screen interface

(B) Optional easily removable front for equipment and bulk sample transfer and thorough cleaning

(C) Optional 9cm Front Loading or 15cm Side Entry Letterbox - Ideal for introducing individual samples quickly

(D) Remote monitoring and control over a secure internet link, unique to DWS

(E) An optional directional spotlight assists in sample examination



**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. The Instant Access Porthole System will be appreciated by users who need more frequent access to the chamber.

**Optional Single Sample Entry System**

Individual samples can be introduced in seconds into the workstation.

**Equipment Enclosure**

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

**Optional Removable Front Version**

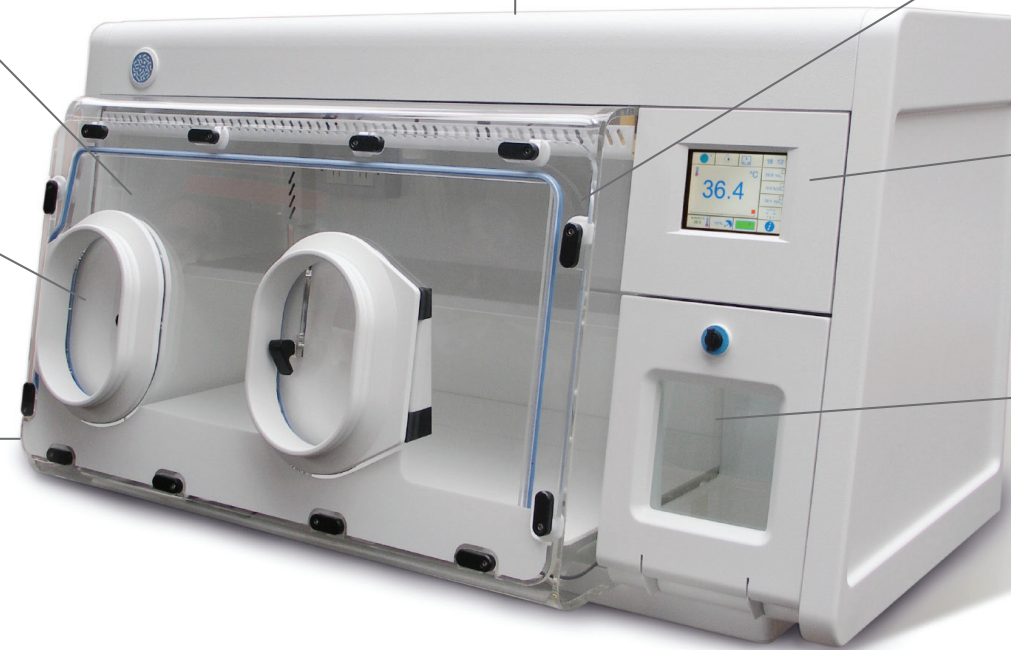
Easily removable front for equipment transfer, the introduction of bulk quantities of samples and thorough cleaning.

**Touch Screen**

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

**Airlock**

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

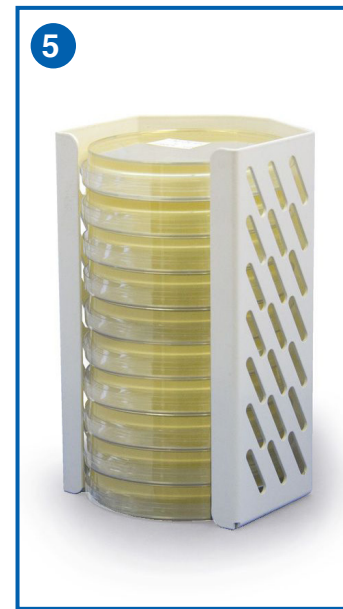


Instant Access Portholes - just three easy steps to use



Chilled incubation Compartment

Rack for use with the Chilled Incubation Compartment



**M35 Variable Atmosphere Workstation fitted with the Instant Access Porthole System** - The integral 12 litre, rapid-cycle airlock has the capacity to introduce up to 40 Petri dishes or small items of equipment into the workstation in 60 seconds. Two types of letterbox can be specified, ideal for quickly transferring dishes and small items.

Factory-Fitted Options	Upgrades & Accessories	Upgrades & Accessories
<b>Ao7208 9cm Front Loading Letterbox</b> - Ideal for quickly introducing small quantities of samples.	<b>Ao6110 Trolley</b> - Custom-designed trolley frees up bench space and allows the workstation to be moved easily between laboratories.	<b>Ao6109 Data Logging</b> - Allows the data recording of environmental parameters inside the workstation. The collected data can be downloaded via a USB interface to a memory stick and transferred to a PC for further analysis.
<b>Ao6103 15cm Letterbox</b> - Ideal for quickly introducing small quantities of samples.	<b>Ao6114 Internal Storage Trays</b> - One or two trays can be positioned under the shelf.	<b>Ao6108 Data Logging with Oxygen Profiling</b> - 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.
<b>Ao6104 Whitley Automatic Humidification System</b> - Adds sterile moisture and maintains a sterile environment.	<b>Ao7211 Workstation Spotlight</b> - Provides directional lighting to assist in the early identification of sample growth or other specimen examination.	
<b>Ao6106 Double Internal Socket</b> - (1 Amp maximum)		
<b>Ao6107 Gas Sample Port</b> - Allows the user to take a sample of the workstation atmosphere for analysis.		
<b>Ao2945 Spare Cable Gland</b> - Allows cables and probes (3mm-7mm Ø) to be introduced without compromising internal conditions.		
<b>Ao6128 Large Additional Cable Gland</b> - Allows cables and probes (19mm-23mm Ø) to be introduced without compromising internal conditions.		
<b>Loo040 Temperature Mapping</b> - Confirms precise temperature measurements at twelve positions inside the chamber, providing independent, UKAS-accredited calibration and supporting certification. This is a factory test.		
<b>Loo050 Single Point Calibration</b> - Confirms precise temperature measurements taken from a single position within the workstation incubation area.		

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**Other variable atmosphere models are available with larger capacities. Please contact Don Whitley Scientific for details.**

