don whitley scientific
excellence in microbiology

Whitley Workstations

Workstations with O2 and CO2 feedback

For all cell culture, anoxia and hypoxia applications

Whitley Workstations represent an innovative approach to workstation design and provide supreme operator comfort in use

The introduction of the Whitley Workstation is a direct result of Don Whitley Scientific's philosophy of listening and responding to customers.

A single type of workstation cannot satisfy every user requirement, so these workstations are modular and upgradeable, offering a completely unrivalled level of flexibility – you can specify a system tailored to meet your individual requirements.

Every aspect of system functionality is thoroughly considered – size, shape, proportions, internal dimensions, control panel layout, viewing panel and multi-functional port system – all designed to ensure maximum user efficiency and convenience.

The benefits of feedback control

Choose from two options to suit your sample throughput levels and laboratory requirements

In a departure from traditional microbiology applications, the Whitley VA Workstation is being used increasingly by researchers working with mammalian tissue cultures – typically to study the cellular changes associated with hypoxia.

The VA500 provides a generous working area

Up to three gases – nitrogen, carbon dioxide and air – can be combined to provide a specific atmosphere. A microprocessor controls and maintains the selected mixture in 0.1% increments. The selected concentrations of each gas are entered and displayed on the workstation control panel.

Each porthole is oval in shape for maximum comfort in use and, uniquely, provides a means of both sample transfer and operator entry and exit. The portholes can be used as mini airlocks to transfer 90mm Petri dishes and rectangular multiwell plates at the same time as an operator's arms are inserted or withdrawn from the workstation. The portholes are opened using a wireless footswitch – and an automated mechanism ensures a gas-tight seal after closing.

The VA500 with airlock allows bulk movement of items or equipment in and out of the workstation

Excellent illumination is provided within the chamber, the intensity of which is adjustable by the operator.

With more systems constantly under development we are continuing to strengthen our established lead in modified atmosphere workstation design

All internal fittings have been designed to make intelligent use of the available space, whilst ensuring unimpeded arm movement.

Whitley Workstation chambers are constructed primarily from acrylic sheet, offering excellent optical, insulative and corrosion-resistant properties.

Modular, upgradeable design ensures your capital investment is protected

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

Workstation and airlock features

Multi-functional porthole system used for both operator entry and sample transfer

Automated humidity control system with no user maintenance necessary

Low running-costs

Bare hands working – latex-free sleeves available

Dual intensity lighting

Bespoke trolley available

Most routine servicing is carried out whilst internal atmospheric conditions are maintained, avoiding down-time in busy laboratories

An airlock can be incorporated either when building a workstation or as an upgrade module to add to an existing Whitley VA workstation

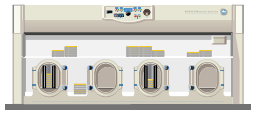
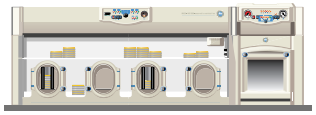
A pull-out tray permits easy transfer of samples from laboratory to workstation

Multi-functional porthole system with latex-free sleeve option

Careful attention to ergonomic design considerations ensures user comfort

With an airlock, a pull-out tray permits easy transfer of samples from laboratory to workstation

Whitley Variable Atmosphere Workstation System Variations

	Multi functional porthole system	Incubation capacity	Physical dimensions	Weight	Gas requirements	Automated humidity control	Wireless footswitch
 *Whitley VA500 Microaerophilic Workstation*	✓ Up to 20 plates per porthole with gas flush facility	✓ Maximum 540 plates	✓ 1040mm L 800mm H 760mm D *Bench depth requirement*	✓ 110kg	✓ Up to 3 separate cylinders: CO_2, N_2, Air	✓	✓
 *Whitley VA500 Microaerophilic Workstation with Airlock*	✓ Up to 20 plates per porthole with gas flush facility	✓ Maximum 540 plates	✓ 1570mm L 840mm H 760mm D *Bench depth requirement*	✓ 165kg	✓ Up to 3 separate cylinders: CO_2, N_2, Air	✓	✓
 *Whitley VA1000 Microaerophilic Workstation*	✓ Up to 20 plates per porthole with gas flush facility	✓ Maximum 1080 plates	✓ 1885mm L 840mm H 760mm D *Bench depth requirement*	✓ 185kg	✓ Up to 3 separate cylinders: CO_2, N_2, Air	✓	✓
 *Whitley VA1000 Microaerophilic Workstation with Airlock*	✓ Up to 20 plates per porthole with gas flush facility	✓ Maximum 990 plates	✓ 2415mm L 840mm H 760mm D *Bench depth requirement*	✓ 240kg	✓ Up to 3 separate cylinders: CO_2, N_2, Air	✓	✓

In the interests of a policy of continuous product and design improvement, the company reserves the right to alter product specifications, materials used or method of manufacture without prior notice.

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