

Anaerobic and Microaerobic Workstations



01 | Our Credentials



Don Whitley
Chairman & Founder

Because his early career had been as a 'working-at-the-bench' microbiologist, Don Whitley set out to improve the microbiologist's working life by removing as much tedium as he could and by seeking to reduce the risk of tests being compromised by human error.

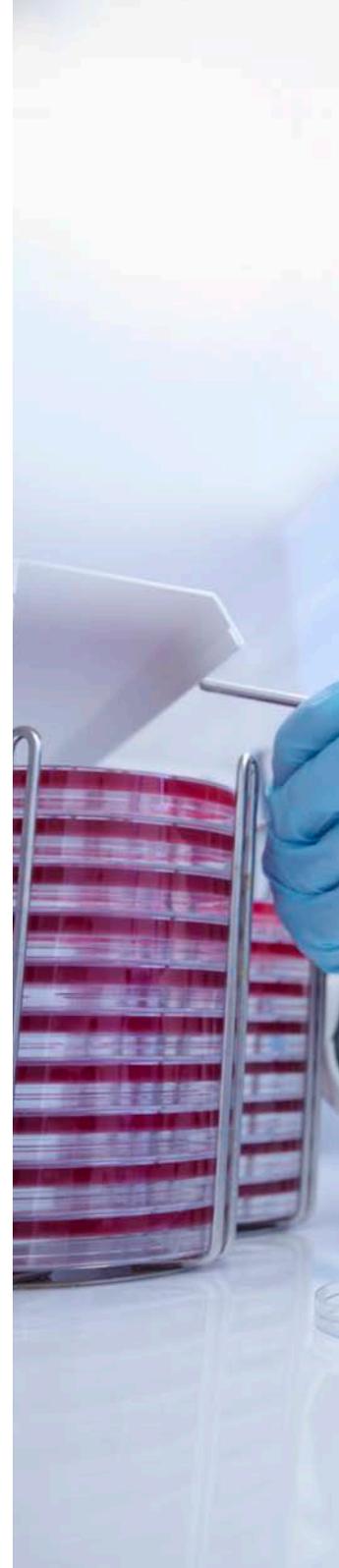
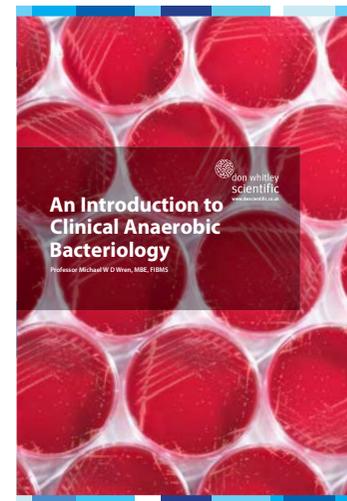
Don's laboratory experience helped him to develop novel ideas through the use of labour-saving equipment and automated solutions, leading to the formation of Don Whitley Scientific Limited in 1976.

Don's first product was an improved anaerobic jar. His work resulted in a stream of innovations in the early years – and a number of products incorporating his inventions are still in production today. We have now sold thousands of anaerobic and hypoxic workstations in over 50 countries and have a worldwide network of distributors.

Our patents include:

- Oval, sleeved ports
- Instant Access Porthole System
- Anaerobic Conditions Monitor

The publication, "**An Introduction to Clinical Anaerobic Bacteriology**", included a significant contribution from Don; a guide to enable the reader to isolate and identify 12 commonly occurring clinically important anaerobic bacteria. Considerable expert knowledge was combined to make this the most up-to-date reference guide for the modern clinical laboratory. Some of the images were kindly supplied by the Anaerobe Reference Unit, Cardiff.



Our greatest assets are our satisfied customers..

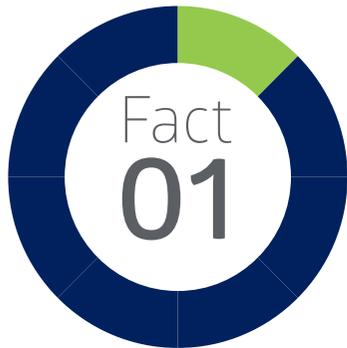
“ We grow both anaerobic and microaerobic bacteria and the Whitley Jar Gassing System has become a real asset. It has really improved our recovery of strict anaerobic organisms such as *Clostridium tetani*. We have been thoroughly satisfied with our recent results.”

Dr Joy Oloya

“ Both the high standard of the Whitley A35 Workstation and the helpful, easily approached staff at Don Whitley Scientific make recommending the company and their equipment a no-brainer.”

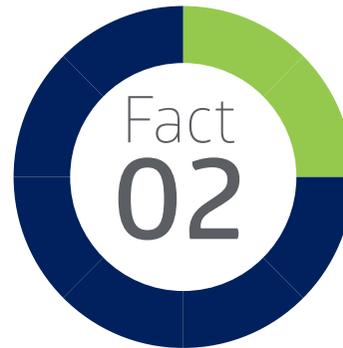
Samantha Yuille
University of the West of Scotland

03 | Unique Innovations



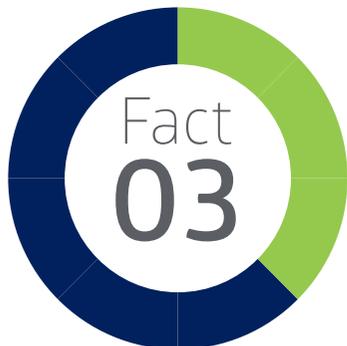
Instant Access Ports

The patented Whitley Instant Access Porthole System is available on many Whitley Workstations. Not only does it enable instant access to your samples, this sleeveless system uses eight times less gas when entering the workstation compared with a conventional porthole system.



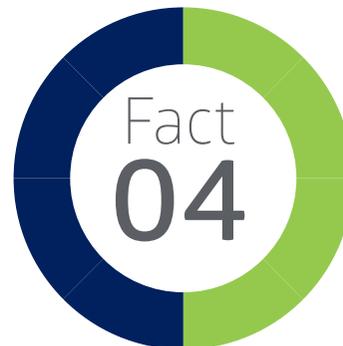
Anaerobic Conditions Monitor

With this option, an animated two-tone striped green icon confirms that suitable anaerobic conditions exist in the workstation. Yellow and red icons provide an early indication if conditions begin to vary. Combining the use of this facility with the Catalyst Monitoring System is the most reliable way of confirming that suitable anaerobic growth conditions exist within a Whitley Workstation.



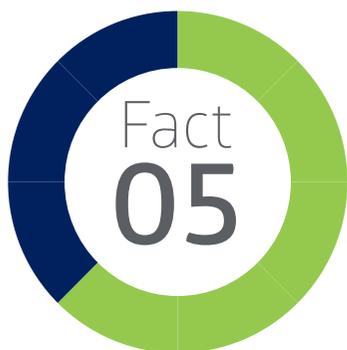
Colour Touchscreen

Operating conditions are configured and maintained by an intelligent, programmable logic controller in conjunction with an intuitive touchscreen interface. The touchscreen interface displays the status conditions of all controlled parameters and also allows the user to change operating parameters to suit specific test conditions. Alarm conditions are clearly displayed and pin code controlled user access levels protect user adjustable parameters.



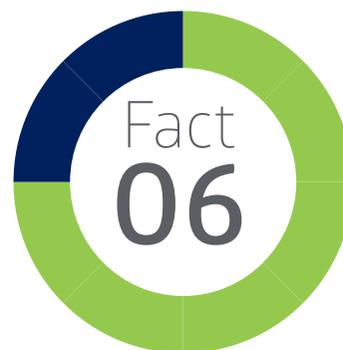
Catalyst Monitoring System

When strict anaerobic conditions are required, the patented Catalyst Monitoring System is an efficient and effective way of alerting users to both the condition of the catalyst and the anaerobic atmosphere in a Whitley Workstation. Automatically testing your catalyst/atmosphere on a daily basis reduces the need for control plates. The test may be operated manually if required.



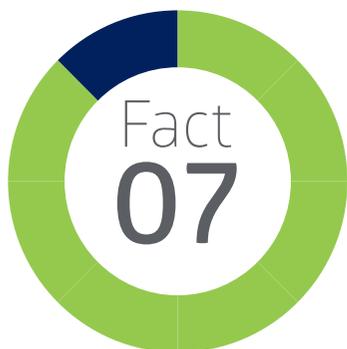
Three Gas Operation

Running your workstation on three gases can be very cost-effective in certain countries. Unique to DWS, some of our anaerobic workstations can operate on separate cylinders of N₂, H₂ and CO₂ to provide the most cost-effective anaerobic conditions (around 30% cheaper than a dual gas version).



HEPA Filtration

To quickly create and maintain a particle-free environment, some workstations are available with the unique Whitley Internal HEPA Filtration System. All the atmosphere in the chamber passes through the filter hundreds of times an hour. The HEPA system exceeds the requirements stipulated by ISO 14644 Class 3. Proof of atmospheric cleanliness can be provided. CO₂ monitoring and a removable front are supplied as standard on workstations fitted with HEPA filtration.



Data Download/Traceability

There is an option to purchase data logging software for some models of Whitley Workstation. This feature allows the recording of workstation temperature, humidity and chamber pressure for traceability or reference. The information is displayed on the touch screen in graphical format. The recorded data can be downloaded via the USB interface to a memory stick and imported into a spreadsheet for further analysis.



Remote Access

Most Whitley Workstations can be Ethernet-enabled for remote access to the touchscreen control panel. This allows you to log into your workstation when you are away from the lab and check current operating parameters, making changes if necessary. This feature also allows DWS engineers to log into your workstation remotely to assess the situation should a fault occur. They will then be able to provide instant feedback and avoid any unnecessary downtime.

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Whitley Jar Gassing System

For those laboratories still using jars, the Whitley Jar Gassing System reduces the cost of creating microaerobic conditions by 98% and anaerobic conditions by 89% compared to using gas packs. Jars can be useful for transporting samples and when a low number of cultures does not warrant the cost of a workstation.

FEATURES

- Creates perfect conditions for growing anaerobes in less than 2 minutes and for microaerophiles in just 15 seconds. This compares to between 30 - 180 minutes to achieve suitable conditions using gas generation sachets or kits.
- A full colour touch screen control panel allows you to monitor, in real time, that the criteria necessary for the creation of either anaerobic or microaerobic conditions has been met.
- It is easy to use so no complicated operator training is required.
- Incorporates PIN code protected user access levels for additional security.
- The optional printer enables you to create a hard copy audit trail for accreditation purposes.
- If you already have anaerobic jars that you wish to use you can order the adaptor kit, which will enable you to connect the Whitley Jar Gassing System to your existing jars.



Whitley DG250

The DG250 is an entry-level workstation suitable for anaerobic and microaerophilic applications, providing you with a generous working area and large incubation capacity in the smallest possible footprint. For emergency anaerobic incubation it will hold up to 400 x 90mm Petri dishes.

FEATURES

- Perfect for laboratories growing anaerobes and microaerophiles where space is limited - only 810mm of bench width required with no compromise of conditions.
- The user portholes act as **two** mini-airlocks so you can transfer plates at the same time as entering/exiting the workstation.
- The complete interior is temperature controlled – and can be set between 5°C above ambient and 45°C.
- The Whitley DG250 has an impressive 33% more capacity than any other unit of comparable size so you get more for your money.
- The whole top can be lifted off for thorough cleaning and the transfer of samples in bulk and items of equipment.
- Automatic dehumidifier – no user maintenance necessary.



Note: All Whitley Anaerobic Workstations can be operated as microaerobic chambers, simply by connecting a cylinder of the relevant gas mixture.

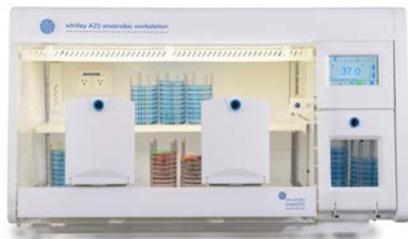
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Whitley A35

Sample manipulation within a secure anaerobic environment is now as easy as working aerobically at the laboratory bench. The Whitley A35 Anaerobic Workstation fulfils the diverse specifications of both research and clinical customers. This workstation accommodates up to 600 x 90mm Petri dishes.

FEATURES

- Optional Instant Access Porthole System eliminates the need for gloves and sleeves and uses eight times less gas on entry/exit than conventional porthole systems.
- Rapid, built-in airlock with mechanical and electrical interlocks - no risk of compromising conditions inside the chamber; flushed with nitrogen as an additional cost saving.
- Innovative colour touch screen interface with PIN code-protected user levels.
- Dual gas operation and automatic commissioning cycle as standard.
- Optional removable front.
- Automatic dehumidifier – no user maintenance necessary.
- Available with integrated Anaerobic Conditions Monitor.



Whitley A35 HEPA

The Whitley A35 HEPA Workstation is an anaerobic workstation with the addition of a unique internal HEPA filtration system. Like our other anaerobic workstations, the A35 HEPA provides excellent conditions for the processing, incubation and examination of samples without exposure to atmospheric oxygen.

FEATURES

- Fitted with the unique Whitley Internal HEPA Filtration System where all the atmosphere inside the chamber passes through the filter hundreds of times per hour. This ensures the chamber environment is cleaned quickly.
- Levels of atmospheric cleanliness inside the workstation exceed the requirements of ISO 14644 Class 3.
- Uses filters specially designed for Don Whitley Scientific.
- Fitted with patented, oval gloveports, equipped with sleeves and gloves, for greater freedom of movement and operator comfort.
- Automatic commissioning cycle to save time.
- Removable front, which aids cleaning and transfer of equipment, fitted as standard.



Whitley A45

The Whitley A45 Anaerobic Workstation is 50% larger than a Whitley A35 and has three ports to provide convenient access to the entire incubation and working areas. Even with a relatively small footprint incubation capacity is maximised and creates the perfect controlled environment for small or large sample numbers. Accommodates over 750 x 90mm Petri dishes leaving a generous working area.

FEATURES

- The choice of an Instant Access Porthole System or our unique oval porthole system.
- Rapid, built-in airlock with mechanical and electrical interlocks - no risk of compromising conditions inside the chamber; flushed with nitrogen as an additional cost saving.
- Innovative colour touch screen interface with password-protected user levels.
- Dual gas operation and automatic commissioning cycle as standard.
- Optional removable front on the right hand side with either 2x Instant Access Ports or 2x conventional, oval ports.
- Automatic dehumidifier – no user maintenance necessary.
- Available with integrated Anaerobic Conditions Monitor.



Whitley A45 HEPA

The A45 HEPA Workstation, like our other anaerobic workstations, enables the processing, incubation and examination of samples without exposure to atmospheric oxygen. This workstation is fitted with a unique internal HEPA filtration system and has three ports for convenient user access to the entire incubation and working areas.

FEATURES

- Fitted with the unique Whitley Internal HEPA Filtration System where all the atmosphere inside the chamber passes through the filter hundreds of times an hour, which ensures the chamber environment is cleaned quickly.
- Levels of atmospheric cleanliness inside the workstation exceed the requirements of ISO 14644 Class 3.
- Removable front fitted as standard to facilitate the transfer of items of equipment.
- 2x conventional oval ports with sleeves and 1x Whitley Instant Access Port.
- Colour touchscreen interface that displays all monitored parameters and has PIN protected user levels.
- Rapid, built-in airlock that is flushed with nitrogen – a cycle takes only 60 seconds – ensuring no risk of compromising conditions inside the chamber.



Whitley A55

The Whitley A55 has a chamber size twice the width of an A35, with a huge working and incubation area and an airlock at either end. Petri dishes and samples can be introduced through either airlock creating a natural, Lean rhythm for your laboratory workflow. The A55 is ideal for the busy lab where organisation of samples and cultures is key.

FEATURES

- The choice of conventional oval sleeved ports or a mixture of oval and Instant Access Ports.
- 2x Rapid, built-in airlocks; flushed with nitrogen as an additional cost saving.
- Innovative colour touch screen interface with PIN code-protected user levels.
- Dual gas operation for real savings on gas.
- Comfortable to work in and excellent visibility.
- Available with integrated Anaerobic Conditions Monitor.
- Available as a dual temperature version allowing different temperatures in each half.



Whitley A55 HEPA

The A55 HEPA provides the same huge working capacity as the A55 but is fitted with the unique Whitley Internal HEPA Filtration System. This workstation also features 2 x 12 litre airlocks, one at either end of the chamber. This workstation accommodates up to 1,400 x 90 mm Petri dishes.

FEATURES

- Levels of atmospheric cleanliness inside the workstation exceed the requirements of ISO 14644 Class 3.
- Four oval, sleeved ports provide greater freedom of movement and operator comfort.
- Two built-in airlocks take only 60 seconds each and are flushed with nitrogen as an additional cost saving.
- Removable front is fitted as standard on the right hand side of the unit to facilitate the transfer of bulk samples or larger pieces of equipment for use inside the workstation.
- Ethernet-enabled for remote access to touchscreen.
- Comes complete with custom-designed trolley.



Whitley A85

The Whitley A85 Anaerobic Workstation has been created to enable both research and clinical scientists to carry out microbial manipulation within a secure anaerobic environment. Every aspect of system functionality has been thoroughly considered - a 30 litre airlock, environmental control systems, touch screen interface, workspace visibility, fabrication quality, the unique gloveport system and maximum incubation capacity. It provides the ideal controlled environment for small or large numbers of samples.

FEATURES

- Innovative touch screen interface with PIN code-protected user access.
- Control temperature from 5°C above ambient up to 45°C.
- Modern, ergonomic design.
- Dual gas operation.
- Automatic commissioning cycle.
- Automatic de-humidification system - no user maintenance necessary.
- Patented multi-functional gloveports.
- Optional refrigeration unit available.- another unique option from DWS.



Whitley A85TG

This workstation is an extremely cost-effective option as it operates using three separate gases (N_2 , H_2 , CO_2). Running costs are 30% less than a dual gas version (which uses cylinders of ANO_2 and N_2). The Whitley A85TG Workstation has a capacity of up to 700 x 90mm Petri dishes and a huge 30 litre airlock.

FEATURES

- Manual, oval ports enable gloved or bare handed working. Each porthole also allows the transfer of up to 10 plates each as you insert your arms.
- Full colour touchscreen control panel for ease of use and for visual display of parameters such as temperature, humidity and airlock cycle status.
- Large airlock accommodates up to 90 x 90mm Petri dishes.
- Fitted with an automatic de-humidification system to save time and resources.
- Comprehensive range of options available to tailor the workstation to your needs, ie single plate entry system, internal power socket, etc.



Whitley A95

The A95 Workstation is the largest anaerobic chamber in the Whitley range with a huge capacity of up to 1400 x 90mm Petri dishes, depending upon the way you choose to configure your working and incubation areas. This is ideal for tutoring or for very busy laboratories. Each port also acts as a mini-airlock so you can transfer 10 plates through each time you insert or withdraw your arms, reducing gas usage and the number of airlock cycles required.

FEATURES

- Innovative touch screen interface, which allows the incorporation of some unique features and benefits.
- The four manually operated, oval glove ports enable two people to operate within the same controlled atmosphere simultaneously.
- Rapid, built-in airlock with mechanical and electrical interlocks - no risk of compromising conditions inside the chamber, flushed with nitrogen as an additional cost saving.
- Available with integrated Anaerobic Conditions Monitor.
- Dual gas operation.
- Automatic commissioning cycle.
- Automatic de-humidification system – no user maintenance necessary.



Whitley A95TG

The Whitley A95TG is the second of our cost-effective, three gas workstations. Operating from separate cylinders of N₂, H₂, CO₂, this cabinet's operating costs are 30% less than the dual gas version. The huge double chamber can accommodate up to 1,400 x 90mm Petri dishes.

FEATURES

- Four manual, oval gloveports enable two people to work in the chamber, gloved or bare handed, simultaneously.
- Each gloveport acts as a mini-airlock for the transfer of 10 plates each at the same time as the operator's arms.
- The large 30 litre airlock can transfer up to 90 x 90mm Petri dishes.
- An ideal workstation for high throughput laboratories and for training purposes.
- Full colour touchscreen operation and visual display of parameters such as temperature, humidity and airlock cycle status.
- Available with integrated Anaerobic Conditions Monitor.



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Whitley M35

The Whitley M35 is a microaerobic workstation ideal for the study and isolation of *Campylobacter ssp.*, *Helicobacter pylori* and other similarly fastidious organisms. It is a key component for any microbiology laboratory. This chamber provides the perfect way of manipulating samples in a sustainable microaerobic environment.

FEATURES

- For total flexibility, up to four gases – nitrogen, carbon dioxide, air and a 10% hydrogen/90% nitrogen mix – can be combined within safe and varying ratios to provide a specific atmosphere for your experiments.
- Accommodates up to 600 Petri dishes.
- Supplied with an automated dehumidification control system with no user maintenance necessary.
- Allows bare hand working.
- Intuitive colour touch screen interface with PIN-code protected user levels.
- Rapid integral airlock - no risk of compromising conditions inside the chamber.
- Airlock flushed with nitrogen as an additional cost saving.

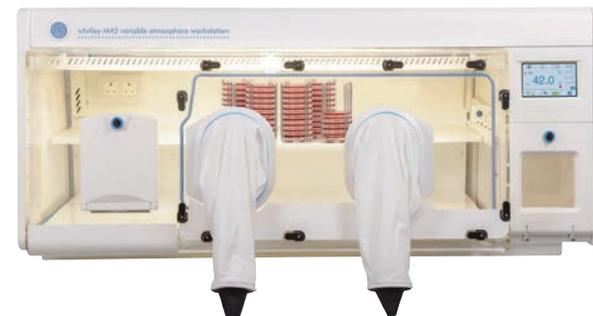


Whitley M45

The M45 variable atmosphere workstation is ideal for the study and isolation of *Campylobacter spp.*, *Helicobacter pylori* and other similarly fastidious microaerophiles. The M45 has three ports for convenient user access to the entire incubation and working areas. This workstation can accommodate over 750 x 90mm Petri dishes whilst still providing a generous working area.

FEATURES

- For total flexibility, up to four gases – nitrogen, carbon dioxide, air and a 10% hydrogen/90% nitrogen mix – can be combined within safe and varying ratios to provide a specific atmosphere for your experiments.
- Optional removable front (with instant access or traditional sleeved ports) to enable the transfer of larger batches of samples or pieces of equipment for use inside the chamber.
- Built-in rapid airlock allows the transfer of plates in just 60 seconds.
- Colour, touch-screen control panel for ease of use and for visual display of parameters such as temperature, humidity, and airlock cycle status.
- Save time with the automatic commissioning cycle.



Each Whitley Microaerobic Workstation combines up to four gases – nitrogen, carbon dioxide, air and a 10% hydrogen/90% nitrogen mix – within safe and varying ratios to provide a specific atmosphere. A sophisticated feedback system constantly samples the internal chamber atmosphere and adjusts input gases as necessary

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Whitley M85

The Whitley M85 Workstation accommodates between 500 and 700 x 90mm plates. This variable atmosphere workstation is ideal for the study and isolation of microaerophiles. The M85 has a large 30 litre airlock with powered internal door, which provides effective sample and equipment transfer in the fastest possible time whilst ensuring the internal chamber conditions are not compromised.

FEATURES

- For total flexibility, up to four gases – nitrogen, carbon dioxide, air and a 10% hydrogen/90% nitrogen mix – can be combined within safe and varying ratios to provide a specific atmosphere for your experiments.
- Two oval ports enable you to work gloved or bare handed.
- Each porthole also acts as a mini-airlock so you can transfer up to 10 plates each time you insert or withdraw your arms, so reducing airlock cycles and gas usage.
- Colour, touch-screen control panel for ease of use and for visual display of parameters such as temperature, humidity, and airlock cycle status.
- Optional refrigeration unit available if you are working with organisms that need low temperature incubation or storage conditions.
- Automatic commissioning cycle to save you time and resources.



Whitley M95

The Whitley M95 Microaerobic Workstation is ideal for the study and isolation of *Campylobacter* spp, *Helicobacter pylori* and other similarly fastidious organisms. This workstation has a huge capacity of between 1000 and 1400 x 90mm Petri dishes, depending upon the way you choose to configure your working and incubation areas. With the latest in touch screen technology, other unique features and benefits are now possible.

FEATURES

- For total flexibility, up to four gases – nitrogen, carbon dioxide, air and a 10% hydrogen/90% nitrogen mix – can be combined within safe and varying ratios to provide a specific atmosphere for your experiments.
- Large, integral 30 litre airlock with automatic internal door (no awkward manual locking mechanism) - 20% faster than previous models.
- Four oval glove ports enable two people to operate within the same controlled atmosphere simultaneously. This is ideal for tutoring or very busy laboratories.
- Each porthole also acts as a mini-airlock so you can transfer 10 plates each time you insert or withdraw your arms, so reducing airlock cycles and gas usage.
- A range of other options are available so you can tailor the system to your specific requirements.



Features	Whitley DG250 Workstation	Whitley A35 Workstation	Whitley A35 HEPA Workstation
*Chamber Capacity	270 / 400	400 / 600	400 / 600
Port / Airlock Capacity	10 plates per port (20)	40 plates via airlock	40 plates via airlock
Porthole System	Manual Ports	Instant Access or Manual Ports	Manual Ports
Gas Supplies	ANO ₂ / N ₂	ANO ₂ / N ₂	ANO ₂ / N ₂
Footswitch	Hardwired	Wireless	Wireless
Auto Sleeve Gassing	○	○	○
Internal Mains Socket	○	○	○
Storage Trays	○	○	○
Lighting	○	●	●
Inspection Lamp	●	○	○
Single Sample Entry	○	○	○
ANO ₂ Indicator	Optional Liquid-based System	-	-
ANO ₂ Conditions Monitor	-	○	○
Refrigeration	-	-	-
Data Logging	-	○	○
Airlock Cycle Time	15 second sample transfer via ports	60 seconds	60 seconds
Extra Cable Glands	○	○	○
HEPA Filtration	-	○	○
Microscope	-	-	-
Automatic Dehumidifier	●	●	●
Automatic Humidifier	-	○	○
Chilled Incubation Compartment	-	○	○
Removable Front	Full lift off lid	○	○
Workstation Trolley	○	○	○
Remote Access	-	●	●
Catalyst Monitoring System	-	○	○
Dimensions (w/d/h)	810 / 760 / 635	1255 / 720 / 710	1255 / 810 / 710
Weight (lbs/kg)	141 / 64	220 / 100	220 / 100
KEY:	● Fitted as standard	○ Option available	- Not applicable

Whitley A45 Workstation	Whitley A45 HEPA Workstation	Whitley A55 Workstation	Whitley A55 HEPA Workstation	Features
600 / 900	600 / 900	800 / 1400	800 / 1400	*Chamber Capacity
40 plates via airlock	40 plates via airlock	40 plates via each airlock (2 airlocks)	40 plates via each airlock (2 airlocks)	Port / Airlock Capacity
Instant Access or Manual Ports	Instant Access or Manual Ports	Instant Access or Manual Ports	Manual Ports	Porthole System
ANO ₂ / N ₂	ANO ₂ / N ₂	ANO ₂ / N ₂	ANO ₂ / N ₂	Gas Supplies
Wireless	Wireless	Wireless	Wireless	Footswitch
○	○	○	○	Auto Sleeve Gassing
○	○	○	○	Internal Mains Socket
○	○	○	○	Storage Trays
●	●	●	●	Lighting
○	○	-	-	Inspection Lamp
○	○	○ (front loading version only)	○ (front loading version only)	Single Sample Entry
-	○	-	-	ANO ₂ Indicator
○	○	○	○	ANO ₂ Conditions Monitor
-	-	-	-	Refrigeration
○	○	○	○	Data Logging
60 seconds	60 seconds	60 seconds per airlock (2 airlocks)	60 seconds per airlock (2 airlocks)	Airlock Cycle Time
○	○	○	○	Extra Cable Glands
○	●	-	●	HEPA Filtration
-	-	-	-	Microscope
●	●	●	●	Automatic Dehumidifier
○	○	-	-	Automatic Humidifier
○	○	-	-	Chilled Incubation Compartment
○	●	● (Right-hand side only)	● (Right-hand side only)	Removable Front
○	○	●	●	Workstation Trolley
●	●	●	●	Remote Access
○	○	○	-	Catalyst Monitoring System
1660 / 720 / 710	1660 / 810 / 710	2510 / 720 / 710	2510 / 810 / 710	Dimensions (w/d/h)
286 / 130	330 / 150	440 / 200	463 / 210	Weight (lbs/kg)

*Capacity based upon using 90mm Petri dishes. Shown as working / short term maximum with limited working space

Features	Whitley A85 Workstation	Whitley A85 TG Workstation	Whitley A95 Workstation	Whitley A95 TG Workstation
*Chamber Capacity	540 / 610	540 / 610	1080 / 1400	1080 / 1400
Port / Airlock Capacity	10 plates per port + 90 plates via airlock (110)	10 plates per port + 90 plates via airlock (110)	10 plates per port + 90 plates via airlock (130)	10 plates per port + 90 plates via airlock (130)
Porthole System	Manual Ports	Manual Ports	Manual Ports	Manual Ports
Gas Supplies	ANO ₂ / N ₂	H ₂ / N ₂ / CO ₂	ANO ₂ / N ₂	H ₂ / N ₂ / CO ₂
Footswitch	Wireless	Wireless	Wireless	Wireless
Auto Sleeve Gassing	○	○	○	○
Internal Mains Socket	○	○	○	○
Storage Trays	-	-	-	-
Lighting	●	●	●	●
Inspection Lamp	○	○	○	○
Single Sample Entry	○	○	○	○
ANO ₂ Indicator	-	-	-	-
ANO ₂ Conditions Monitor	○	○	○	○
Refrigeration	○	○	-	-
Data Logging	○	○	○	○
Airlock Cycle Time	5 minutes	5 minutes	5 minutes	5 minutes
Extra Cable Glands	○	○	○	○
HEPA Filtration	-	-	-	-
Microscope	○	○	○	○
Automatic Dehumidifier	●	●	●	●
Automatic Humidifier	-	-	-	-
Chilled Incubation Compartment	-	-	-	-
Removable Front	-	-	-	-
Workstation Trolley	○	○	○	○
Remote Access	●	●	●	●
Catalyst Monitoring System	○	○	○	○
Dimensions (w/d/h)	1570 / 760 / 840	1570 / 760 / 840	2415 / 760 / 840	2415 / 760 / 840
Weight (lbs/kg)	330 / 150	330 / 150	506 / 230	506 / 230
	KEY:	● Fitted as standard	○ Option available	- Not applicable

Whitley M35 Workstation	Whitley M45 Workstation	Whitley M85 Workstation	Whitley M95 Workstation	Features
400 / 600	600 / 900	540 / 610	1080 / 1400	*Chamber Capacity
40 plates via airlock	40 plates via airlock	10 plates per port + 90 plates via airlock (110)	10 plates per port + 90 plates via airlock (130)	Port / Airlock Capacity
Instant Access or Manual Ports	Instant Access or Manual Ports	Manual Ports	Manual Ports	Porthole System
H ₂ + N ₂ / CO ₂ / N ₂ / Air	H ₂ + N ₂ / CO ₂ / N ₂ / Air	H ₂ + N ₂ / CO ₂ / N ₂ / Air	H ₂ + N ₂ / CO ₂ / N ₂ / Air	Gas Supplies
Wireless	Wireless	Wireless	Wireless	Footswitch
-	-	-	-	Auto Sleeve Gassing
○	○	○	○	Internal Mains Socket
○	○	-	-	Storage Trays
●	●	●	●	Lighting
○	○	○	○	Inspection Lamp
○	○	○	○	Single Sample Entry
-	-	-	-	ANO2 Indicator
-	-	-	-	ANO2 Conditions Monitor
-	-	○	-	Refrigeration
○	○	○	○	Data Logging
60 seconds	60 seconds	60, 120, 180, 240 or 300 seconds	60, 120, 180, 240 or 300 seconds	Airlock Cycle Time
○	○	○	○	Extra Cable Glands
○	○	-	-	HEPA Filtration
-	-	○	○	Microscope
●	●	●	●	Automatic Dehumidifier
○	○	-	-	Automatic Humidifier
-	-	-	-	Chilled Incubation Compartment
○	●	-	-	Removable Front
○	○	○	○	Workstation Trolley
●	●	●	●	Remote Access
-	-	-	-	Catalyst Monitoring System
1255 / 720 / 710	1660 / 720 / 710	1570 / 760 / 840	2415 / 760 / 840	Dimensions (w/d/h)
220 / 100	286 / 130	330 / 150	507 / 230	Weight (lbs/kg)

*Capacity based upon using 90mm Petri dishes. Shown as working / short term maximum with limited working space

17 | What Can We Do For You?



SERVICE AND MAINTENANCE

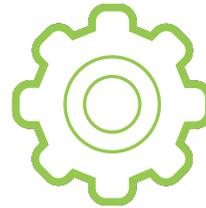
Comprehensive service plans

We offer UK customers comprehensive maintenance and repair contracts on a variety of laboratory equipment from many different manufacturers.

We are the only company able to take advantage of training from our in-house colleagues who design and manufacture Whitley products – and, of course, have their day-to-day support.

We also ensure all our engineers have been trained by the manufacturers of any equipment they service.

- Engineer coverage across the UK
- Fast response time
- Extensive stocks of parts carried to ensure a first time fix



UKAS CALIBRATION/ VALIDATION

100% confidence

To provide you with 100% confidence in your processes and ensure your equipment and procedures will stand up to scrutiny,

DWS offers UKAS calibration and validation services for heat sterilisation equipment, temperature controlled processes and temperature indicators. This flexible onsite and offsite service is undertaken by our team of experts who will take the time to explain the work they carry out.

If you are a service contract customer, we can schedule your UKAS calibration/validation work to take place at the same time as routine servicing to save you time and money.



TEMPERATURE MAPPING

On-going compliance

In today's increasingly regulated environment, the need to demonstrate on-going compliance with quality and safety standards is part of laboratory life.

DWS is UKAS accredited to provide temperature mapping of Whitley Workstations, other anaerobic chambers, incubators, ovens, fridges or freezers using up to 12 thermocouples. This is useful when you need to identify any temperature gradients that may be present and need to be avoided when carrying out particularly sensitive incubation tasks.

Our on-site service means the work can be carried out at your convenience with prompt supply of certification.



MICROBIOLOGY LABORATORY

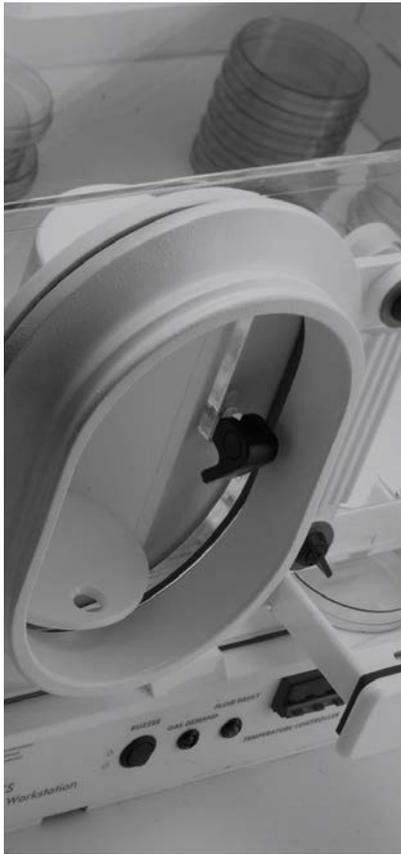
In-house laboratory services

It's not every laboratory equipment manufacturer that has its own in-house laboratory with experience in food, water, environmental, pharmaceutical and clinical work. As well as having developed a great deal of experience in culturing anaerobic and microaerophilic bacteria, the team of DWS scientists have a key role in new product development.

They are also on hand to help customers with the best practical, productive ways of using products supplied by DWS.



To support the design, manufacture and supply of Whitley Workstations, we have a range of complementary services:



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