

Anaerobic and Microaerobic Workstations













O1 Our Credentials

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.

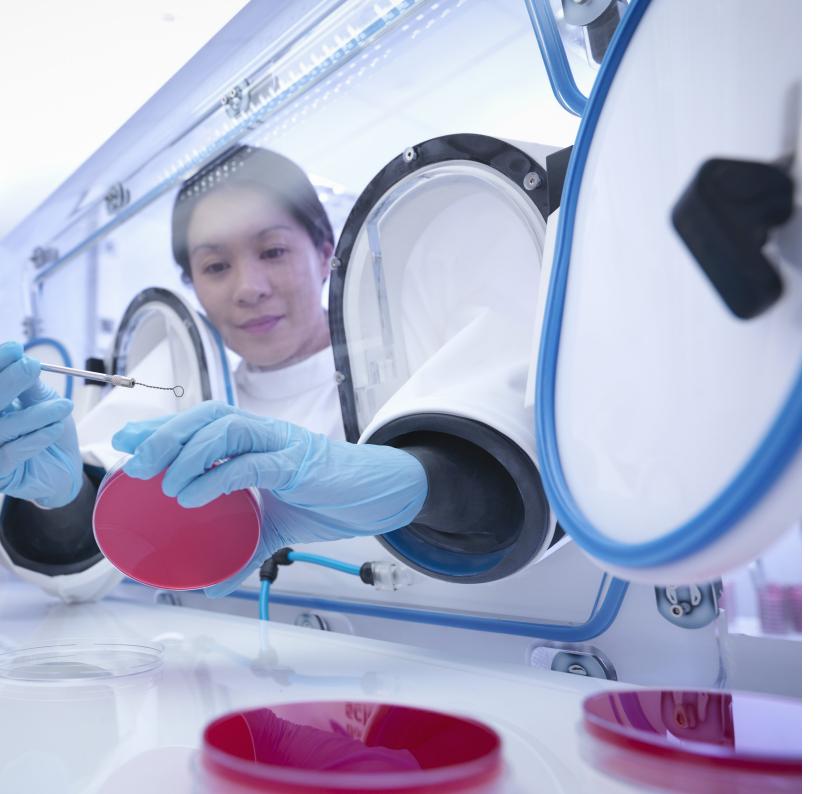
We have now sold thousands of anaerobic and hypoxic workstations in over 50 countries and have a worldwide network of distributors.

The publication, "An Introduction to Clinical Anaerobic Bacteriology", is 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 including a significant contribution from Don. Some of the images were kindly supplied by the Anaerobe Reference Unit, Cardiff.









Our greatest assets are our satisfied customers...

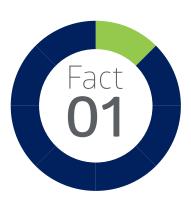
"...there is a tremendous change in our results from when we used jars. Almost every day we are reporting anaerobic organisms now that we are using the A35. This workstation has made a real difference and we are now very confident in reporting anaerobic organisms."

Sree Ambal KPJ Lablink Central, Kuala Lumpur

"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."

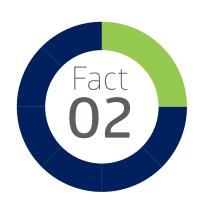
Samantha Yuille University of the West of Scotland

03 Unique Innovations



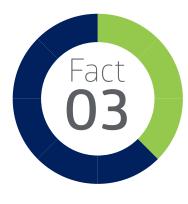
Instant Access Ports

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



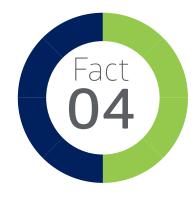
Anaerobic Conditions Monitor

With this option, an animated 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 requirements 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.



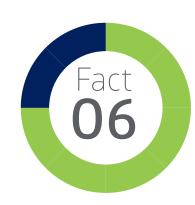
Catalyst Monitoring System

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.



Data Download/Traceability

There is an option to purchase data logging software for some Whitley Workstations. This feature allows the recording of workstation temperature, humidity, chamber pressure and other parameters 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 and archiving.



Remote Access

Whitley Workstations can be Ethernet-enabled for remote access to the touchscreen panel. This allows you to log into your workstation when you are away from the lab and check current operating parameters, making changes if desirable. This feature also allows DWS engineers to log into your workstation remotely to assess the situation should a fault occur. Whitley Workstations also offer an email alert option that allows emails to be sent to designated recipients alerting users to workstation alarm conditions.

05 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. The optional printer enables you to create a hard copy audit trail for accreditation purposes.

FEATURES

- Creates perfect conditions for growing anaerobes in less than 2 minutes and for microaerophiles in just 15 seconds. This compares to 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 have been met.
- Easy to use, so no complicated operator training is required.
- Incorporates PIN code protected user access levels for additional security.
- 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.

"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 / Dick White Referrals*



Optional printer



Underside of lid showing catalyst sachet clip









DG250 Port and Letterbox



The DG250 is an entry-level workstation, 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. This workstation can be used for both anaerobic and microaerobic applications simply by changing the gas supplies.

FEATURES

- Perfect for laboratories growing anaerobes and microaerophiles where space is limited - only 810mm of bench width required.
- Each user porthole acts as a mini-airlock 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, for bulk sample transfer and to introduce/remove equipment.
- Automatic dehumidifier no user maintenance necessary.

07 Whitley **A25** Workstation

The A25 is a truly compact workstation equipped with many unique features to ensure easy and efficient use and to guarantee that the very best anaerobic conditions are maintained. It has a capacity of over 200 Petri dishes while still leaving more than adequate space to process samples in a strictly controlled anaerobic environment. Fitted with the Instant Access Porthole System to provide rapid access to and egress from the chamber. A versatile system, the A25 can also be used as a microaerobic workstation by simply connecting the relevant pre-mixed gas. The perfect alternative to Anaerobic Jars!

FEATURES

- Fitted with the patented Whitley Instant Access Porthole System to provide rapid access to and egress from the chamber.
- The rapid airlock can accommodate 20 x Petri dishes or 3 x 500 ml Duran bottles and a cycle takes 20 seconds.
- Airlock doors are interlocked so cannot be opened simultaneously.
- A side loading letterbox entry system is also available, providing a straightforward way to quickly introduce individual samples into the workstation.
- Fitted with a colour touch screen providing the user with an intuitive interface to control and operate the workstation.
- Previously unavailable on a workstation of this size, Whitley
 Workstations are the only workstations to provide automatic early
 warnings about the status of the anaerobic atmosphere and catalyst
 function.
- With a wide selection of options available, the A25 can fulfil the needs of any laboratory requiring a compact anaerobic workstation.







New, Slimline Airlock







Instant Access Ports

A35 Touchscreen



FEATURES

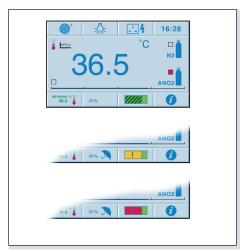
- Rapid, built-in airlock with mechanical and electrical interlocks no risk of compromising conditions inside the chamber. The airlock is flushed with nitrogen as an additional cost saving.
- Innovative colour touch screen interface with PIN code-protected user levels.
- Available with the Instant Access Porthole System that allows rapid access to the chamber or with the unique oval, sleeved ports.
- Dual gas operation and automatic commissioning cycle as standard.
- Automatic dehumidifier no user maintenance necessary.
- Both the working and storage areas of the chamber are temperature controlled, allowing the full internal volume to be used for incubation.
- Bright, even illumination ensures sufficient light for any tasks performed inside the chamber.
- Available with HEPA Filtration System that ensures levels of atmospheric cleanliness inside the workstation that exceed the requirements of ISO 14644 Class 3.

O9 Whitley **A45** Workstation

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 while providing 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. The airlock is
 flushed with nitrogen as an additional cost saving.
- Innovative colour touch screen interface with password-protected user levels.
- 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.
- Optional Anaerobic Conditions Monitor.
- HEPA model features the unique Whitley Internal HEPA Filtration System. 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.





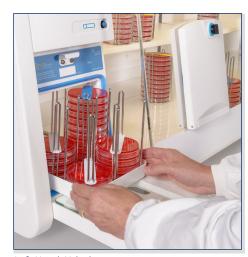


HEPA Filtration









Left Hand Airlock



The Whitley A55 has a chamber size twice the width of an A35, with a huge working and incubation area and airlocks at both ends. Petri dishes and samples can be introduced and removed 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.
- Optional Anaerobic Conditions Monitor.
- Available as a dual temperature version allowing different temperatures in each half.
- Also available with the Whitley Internal HEPA Filtration System.

11 Whitley A85 Workstation

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.
- Dual gas operation to minimise running costs.
- Massive 30 litre airlock that can accommodate 90x 90mm Petri dishes.
- Automatic commissioning cycle.
- Automatic de-humidification system no user maintenance necessary.
- Patented multi-functional gloveports.
- Optional refrigeration unit available for growing organisms that thrive in lower temperatures.
- Three Gas (TG) version available that operates using separate cylinders of N_2 , H_2 and CO_2 .



A85 Front Loading Letterbox



Large Airlock



Whitley A95 Workstation







90 Petri dishes in a transfer tray



The A95 Workstation has 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 model is ideal for tutoring or for very busy laboratories. As well as having a huge 30 litre airlock, each port also acts as a miniairlock so you can transfer 10 plates when you insert or withdraw each arm, 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.
- Optional Anaerobic Conditions Monitor.
- Dual gas operation for real savings on gas.
- Automatic commissioning cycle.
- Automatic de-humidification system no user maintenance necessary.
- Three Gas (TG) version available to help reduce running costs and provide additional flexibility.

13 Whitley A135 Workstation

The A135 is ideal for studies where a variety of equipment needs to be used within an anaerobic environment. This workstation operates from two gas supplies to achieve the most cost-effective running conditions. The A135 is supplied Ethernet-enabled for remote access to the touchscreen. The rapid airlock ensures samples can be transferred into the workstation atmosphere as soon as possible – takes only 60 seconds.

FEATURES

- Removable front to facilitate cleaning and to aid the transfer of bulk quantities of samples and larger items of equipment.
- Fitted with the unique Whitley Internal HEPA Filtration System ensuring that levels of atmospheric cleanliness inside the workstation exceed the requirements of ISO 14644 Class 3.
- Colour touchscreen interface for ease of use and visual display of parameters such as temperature, humidity and airlock cycle status.
- Includes automatic commissioning cycle to save you time and resources.
- Heat removal system available to reduce heat generated by equipment used inside the chamber.
- A range of options is available to tailor the workstation to your requirements, eg. single sample entry system, chilled incubation compartment and Anaerobic Conditions Monitoring.
- Fully integrated gas control reduces the need for additional bench space.
 Please see pages 19-22 for a full list of features and options.



Remote Access



Chilled Incubation Compartment







A155 Touchscreen

Right Hand Airlock



The A155 is the largest workstation in the Whitley Workstation range – 350mm taller than the A55. It has a capacity of 1,840 litres and has been designed to allow the use of a variety of laboratory equipment inside the chamber and still leave more than adequate space to process samples in a strictly controlled anaerobic environment. The A155 is usually sold with HEPA filtration to reduce particle counts inside the chamber to levels exceeding the requirements of ISO 14644 Class 3. There are many unique, optional features to ensure easy and efficient use and to guarantee that the very best anaerobic conditions are maintained.

FEATURES

- Two deep airlocks, one at either end of the workstation, can be operated independently and take only 60 seconds to run a cycle.
- Each airlock can accommodate up to 10 x 500 ml Duran bottles and is the perfect size for introducing serological pipettes.
- Two removable fronts to enable the transfer of larger batches of samples or pieces of equipment for use inside the chamber.
- A new, cool white / daylight LED lighting system provides excellent illumination.
- Optional refrigeration system (operates at less than 10°C) to achieve lower temperatures.
- A front loading letterbox entry system is also available, providing a straightforward way to quickly introduce individual samples into the workstation.
- Options available to tailor the workstation to your requirements, including the Whitley Anaerobic Conditions Monitoring System; data logging/download; cable glands; Rotating Turntables mounted on the shelves; and the Movable Platform that facilitates optimal positioning of equipment inside the chamber.

15 Whitley M35 Workstation

The Whitley M35 is a microaerobic workstation ideal for the study and isolation of *Campylobacter* spp., *Helicobacter pylori* and other similarly fastidious organisms. It is a key piece of equipment for any microbiology laboratory. Although this chamber provides the perfect way of manipulating samples in a sustainable microaerobic environment it can also be operated as an anaerobic workstation - providing you with ultimate flexibility.

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.
- For additional cost-efficiency, the airlock is flushed with nitrogen.



A Removable Front



40 Petri dishes in a Transfer Tray









Instant Access Port



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.
- A reminder to perform calibration can be set for between 7 and 21 days.

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Whitley M85 Workstation

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 a 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, thereby 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.







Refrigeration System



Whitley M95 Workstation







Colour Touchscreen



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.
- The large, integral 30 litre airlock with automatic internal door has no awkward manual locking mechanism and is 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 per porthole each time you insert or withdraw your arms, thereby reducing airlock cycles and gas usage.
- A range of other options are available so you can tailor the system to your specific requirements.

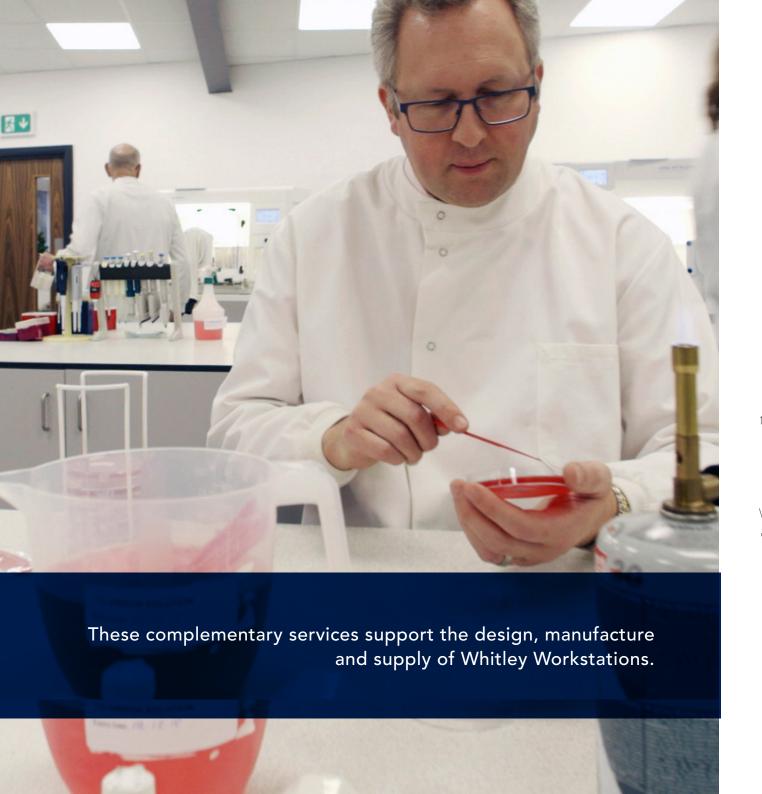
Features	Whitley DG250 Workstation	Whitley A25 Workstation	Whitley A35 Workstation
*Chamber Capacity	270 / 400	200	400 / 600
Port / Airlock Capacity	10 plates per port (20)	20 plates via airlock	40 plates via airlock
Porthole System	Manual Ports	Instant Access Ports	Instant Access or Manual Ports
Gas Supplies	ANO ₂ / N ₂	ANO ₂ / N ₂	ANO ₂ / N ₂
TG Version			
Footswitch	Hardwired	N/A	Wireless
Auto Sleeve Gassing	0		0
Internal Mains Socket	0	0	0
Storage Trays	0	0	0
Lighting	0	•	•
Inspection Lamp	•	0	0
Single Sample Entry	0	0	0
ANO ₂ Conditions Monitor		0	0
Catalyst Monitoring System		0	0
Refrigeration			
Data Logging		0	0
Airlock Cycle Time	15 second sample transfer via ports	20 seconds	60 seconds
Extra Cable Glands	0	0	0
HEPA Filtration	-	-	0
Microscope			
Automatic Dehumidifier	•	•	•
Automatic Humidifier			0
Chilled Incubation Compartment			0
Removable Front	Full lift off lid	-	0
Workstation Trolley	0	0	0
Remote Access		•	•
Dimensions (w/d/h)	810 / 760 / 635	790 / 720 / 710	1255 / 720 / 710
Weight (lbs/kg)	141 / 64	163 / 74	220 / 100
KEY:	Fitted as standard	Option available	- Not applicable

Whitley A45 Workstation	Whitley A55 Workstation	Whitley A85 Workstation	Whitley A95 Workstation	Features
600 / 900	800 / 1400	540 / 610	1080 / 1400	*Chamber Capacity
40 plates via airlock	40 plates via each airlock (2 airlocks)	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
ANO ₂ / N ₂	ANO ₂ /N ₂	ANO ₂ / N ₂	ANO ₂ / N ₂	Gas Supplies
-	-	0	0	TG Version
Wireless	Wireless	Wireless	Wireless	Footswitch
0	0	0	0	Auto Sleeve Gassing
0	0	0	0	Internal Mains Socket
0	0			Storage Trays
•	•	•	•	Lighting
0	-	0	0	Inspection Lamp
0	O (front loading version only)	0	0	Single Sample Entry
0	0	0	0	ANO ₂ Conditions Moni
0	0	0	0	Catalyst Monitoring Sy
-		0		Refrigeration
0	0	0	0	Data Logging
60 seconds	60 seconds per airlock (2 airlocks)	5 minutes	5 minutes	Airlock Cycle Time
0	0	0	0	Extra Cable Glands
0	0			HEPA Filtration
-	-	0	0	Microscope
•	•	•	•	Automatic Dehumidifi
0	-			Automatic Humidifier
0	-	0	0	Chilled Incubation Comp
0	● (Right-hand side only)			Removable Front
0	•	0	0	Workstation Trolley
•	•	•	•	Remote Access
1660 / 720 / 710	2510 / 720 / 710	1570 / 760 / 840	2415 / 760 / 840	Dimensions (w/d/h)
286 / 130	440 / 200	330 / 150	506 / 230	Weight (lbs/kg)

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

Features	Whitley A135 HEPA Workstation	Whitley A155 HEPA Workstation	
*Chamber Capacity	560 Litres	1840 Litres	
Port / Airlock Capacity	40 plates via airlock	40 plates via each airlock (2 airlocks)	
Porthole System	Manual Ports	Manual Ports	
Gas Supplies	ANO ₂ / N ₂	ANO ₂ / N ₂	
TG Version		· ·	
Footswitch	Wireless	Wireless	
Auto Sleeve Gassing	0	0	
Internal Mains Socket	0	0	
Storage Trays	0	0	
Lighting	•	•	
Inspection Lamp	0	0	
Single Sample Entry	0	0	
ANO ₂ Conditions Monitor	0	0	
Catalyst Monitoring System	-		
Refrigeration / Cooling	0	0	
Data Logging	0	0	
Airlock Cycle Time	60 seconds	60 seconds	
Extra Cable Glands	0	0	
HEPA Filtration	•	•	
Microscope	-		
Automatic Dehumidifier	•	•	
Automatic Humidifier	0	0	
Chilled Incubation Compartment		-	
Removable Front	•	•	
Workstation Trolley	•	•	
Remote Access	•	•	
Dimensions (w/d/h)	1452 / 1056 / 1063	2875 / 1056 / 1911 (inc. trolley)	
Weight (lbs/kg)	386 / 175	TBA	
	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		
-	-	-		TG Version		
Wireless	Wireless	Wireless	Wireless	Footswitch		
-			-	Auto Sleeve Gassing		
0	0	0	0	Internal Mains Socket		
0	0	-		Storage Trays		
•	•	•	•	Lighting		
0	0	0	0	Inspection Lamp		
0	0	0	0	Single Sample Entry		
-	-	-	-	ANO2 Conditions Monitor		
-				Catalyst Monitoring System		
-		0		Refrigeration / Cooling		
0	0	0	0	Data Logging		
60 seconds	60 seconds	60, 120, 180, 240 or 300 seconds	60, 120, 180, 240 or 300 seconds	Airlock Cycle Time		
0	0	0	0	Extra Cable Glands		
0	0			HEPA Filtration		
-	-	0	0	Microscope		
•	•	•	•	Automatic Dehumidifier		
0	0	-	-	Automatic Humidifier		
-	-	-	-	Chilled Incubation Compartment		
0	•			Removable Front		
0	0	0	0	Workstation Trolley		
•	•	•	•	Remote Access		
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						





MICROBIOLOGY LABORATORY

In-house laboratory services

It's not every laboratory equipment manufacturer that has its own in-house GLP compliant laboratory with experience in food, water, environmental, pharmaceutical and clinical work. A major area of expertise is antimicrobial drug development, including human food safety of antibiotic residues. We are able to work with fastidious organisms such as *Brachyspira* and *Mycoplasma*. 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 DWS products.

What Can We Do For You? 24



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 non-DWS equipment they service.

Engineer coverage across the UK

All our overseas distributors are factory trained and fully supported

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.



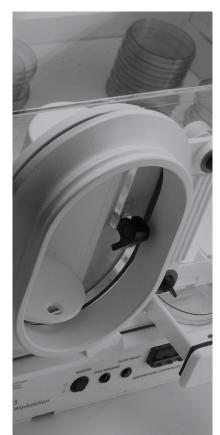
TEMPERATURE MAPPING

On-going compliance

It is part of laboratory life that in today's increasingly regulated environment, there is the need to demonstrate on-going compliance with a range of quality and safety standards, eg for those working to ISO 15189:2012.

DWS is UKAS accredited to provide temperature mapping of Whitley Workstations and other anaerobic/modified atmosphere chambers. This is useful if you need to identify whether or not any temperature gradients are 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 the prompt supply of certification.

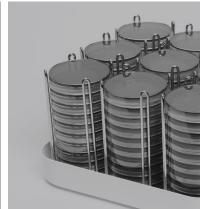














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