Anaerobic and Microaerobic Workstations
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.
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

...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

Our greatest assets are our satisfied customers...

“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
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.
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.

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).

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
Whitley DG250 Workstation

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.

Please see pages 22-26 for a full list of features and options.
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.
- The automatic early warnings about the status of the anaerobic atmosphere and the catalyst function, which are only available on Whitley Workstations, were not previously available on our smaller workstations.
- With a wide selection of options available, the A25 can fulfil the needs of any laboratory requiring a compact anaerobic workstation.

Please see pages 22-26 for a full list of features and options.
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. An optional Anaerobic Conditions Monitor provides confirmation that anaerobic conditions exist inside the workstation and provides an early indication if optimal growth conditions begin to vary.

**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.

*Please see pages 22-26 for a full list of features and options.*
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. Accomodates 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.

Please see pages 22-26 for a full list of features and options.
Whitley A55 Workstation

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.  

*Please see pages 22-26 for a full list of features and options.*
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 N₂, H₂ and CO₂.

*Please see pages 22-26 for a full list of features and options.*
Whitley A95 Workstation

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 mini-airlock 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.

Please see pages 22-26 for a full list of features and options.
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 22-26 for a full list of features and options.*
The A135 Laminar Flow Workstation* combines the performance characteristics of an anaerobic workstation with those of a laminar flow cabinet to provide highly effective product protection. Each workstation is tested by an independent organisation to ensure compliance with ISO 14644-3. The 17 litre airlock provides effective transfer for up to 10 Duran bottles to and from the workstation in just 60 seconds. The patented oval glove ports provide maximum comfort when used over extended periods. With internal dimensions of (w x d x h): 1075 x 587 x 608mm, there is a generous amount of working space inside the workstation chamber to house equipment such as centrifuges and homogenisers.

FEATURES

- Maintains strict anaerobic conditions, operating from two gas supplies for the most effective and efficient running costs.
- HEPA filter face velocity, uniformity of laminar flow and Dispersed Oil Particulate (DOP) tests are carried out to validate system integrity and performance.
- Removable front fitted as standard.
- Full colour touch screen interface allows easy monitoring of all parameters simultaneously.
- Ethernet-enabled for remote access review and control.
- Fully automated de-humidification system included as standard.
- A bespoke trolley with heavy-duty castors is provided as standard.
- Optional Data Logging and Anaerobic Conditions Monitor options.

* Patent applied for

Please see pages 22-26 for a full list of features and options.
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.

*Please see pages 22-26 for a full list of features and options.*
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.

Please see pages 22-26 for a full list of features and options.
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.

The M45 is used in the study and isolation of fastidious anaerobes such as *Campylobacter* spp. and *Helicobacter pylori*.

**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.

*Please see pages 22-26 for a full list of features and options.*
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.

*Please see pages 22-26 for a full list of features and options.*
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 touchscreen 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.

*Please see pages 22-26 for a full list of features and options.*
The M135 HEPA is a tall, wide, deep microaerobic chamber ideal for the study and isolation of fastidious microaerophiles where HEPA filtration is required. It has an internal volume of 950 litres and can accommodate a variety of items of equipment such as imaging devices, microscopes, plate readers, spiral platers, etc. A rapid 12 litre airlock ensures no risk of compromising conditions inside the chamber. Fitted with the unique Whitley Internal HEPA Filtration System, all the atmosphere passes through the filter hundreds of times an hour, which ensures the chamber environment is cleaned quickly.

**FEATURES**

- Two patented oval ports enable you to work comfortably, gloved or bare handed.
- This 4-gas system has built in oxygen, CO2 and hydrogen sensors allowing users to programme precise gas concentrations, perfect for manipulating samples in a sustainable microaerobic environment.
- The generous internal height facilitates easy pipetting and allows all your work to be performed without removing your samples from the required conditions.
- DWS has worked with one of the world’s leading filter manufacturers to develop a filter specifically tailored to suit this workstation.
- A Refrigeration System could be useful if you are working with organisms that need low temperature incubation. Alternatively, the Heat Removal System allows the workstation to maintain ambient temperatures at all times.
- Levels of atmospheric cleanliness inside the workstation exceeds the requirements of ISO 14644 Class 3 (equivalent to Class 1 of the US Fed Std 209E Cleanroom Standards and exceeds the particle counts attained at rest’ (without an operator) of Grade A as set out in the GMP Guidelines). We can provide test results confirming particulate levels inside the workstation.

*Please see pages 22-26 for a full list of features and options.*
The Whitley M155 HEPA variable atmosphere workstation is ideal for the study and isolation of fastidious microaerophiles where HEPA filtration is required. This workstation has a capacity of 1,840 litres; two airlocks; and two removable fronts. The huge capacity of this workstation means that it can accommodate a variety of laboratory equipment, e.g. cell sorters, colony pickers, high throughput bioreactors, microscopes and spiral platers, such as the Whitley WASP Touch. DWS also offers two optional cooling methods for this workstation.

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.
- Four patented oval ports enable you to work comfortably, gloved or bare handed.
- The M155 HEPA is fitted with the unique Whitley Internal HEPA Filtration System.
- Levels of atmospheric cleanliness inside the workstation exceed the requirements of ISO 14644 Class 3.
- Fitted with a fan that circulates the internal atmosphere continuously contributing to even temperature distribution and ensuring any internal particulate will be in motion.
- Colour, touch screen control panel for ease of use and for visual display of parameters such as temperature, humidity and airlock cycle status.

Please see pages 22-26 for a full list of features and options.

<table>
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<tr>
<th>Whitley DG250 Workstation</th>
<th>Whitley A25 Workstation</th>
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KEY: ● Fitted as standard ○ Option available - Not applicable
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<tr>
<td>Internal Mains Socket</td>
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<td>Storage Trays</td>
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<td>Lighting</td>
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<tr>
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<tr>
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</tr>
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<tr>
<td>Microscope</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Automatic Dehumidifier</td>
<td></td>
<td></td>
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<tr>
<td>Automatic Humidifier</td>
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<tr>
<td>Chilled Incubation Component</td>
<td></td>
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</tr>
<tr>
<td>Removable Front</td>
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<td></td>
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</tr>
<tr>
<td>Workstation Trolley</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Remote Access</td>
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<td></td>
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</tr>
<tr>
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<td>2415 / 760 / 840</td>
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<tr>
<td>Weight (lbs/kg)</td>
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<td>330 / 150</td>
<td>506 / 230</td>
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**KEY:**
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- Option available
- Not applicable
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<td>ANO₂ / N₂</td>
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<td>Auto Sleeve Gassing</td>
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<td>○</td>
<td>Internal Mains Socket</td>
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<td>Storage Trays</td>
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<td>Refrigeration / Cooling</td>
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<td>Airlock Cycle Time</td>
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<td>Extra Cable Glands</td>
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</tr>
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<td>●</td>
<td>●</td>
<td>Microscope</td>
</tr>
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<td>●</td>
<td>Automatic Dehumidifier</td>
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<td>●</td>
<td>Automatic Humidifier</td>
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<tr>
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<td>●</td>
<td>Chilled Incubation Compartment</td>
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<td>Removable Front</td>
</tr>
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<td>●</td>
<td>Workstation Trolley</td>
</tr>
<tr>
<td>●</td>
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<td>●</td>
<td>Remote Access</td>
</tr>
<tr>
<td>1452 / 1056 / 993</td>
<td>1470 / 1100 / 1080</td>
<td>2875 / 1056 / 993</td>
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<td>386 / 175</td>
<td>375 / 170</td>
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<td>Weight (lbs/kg)</td>
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</table>

*Capacity based upon using 90mm Petri dishes. Shown as working / short term maximum with limited working space.
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<th>Whitley M35 Workstation</th>
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<th>Whitley M85 Workstation</th>
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<td>Chamber Capacity</td>
<td>400 / 600</td>
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<td>Port / Airlock Capacity</td>
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<td>H₂ + N₂ / CO₂ / N₂ / Air</td>
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<tr>
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<td>Wireless</td>
<td>Wireless</td>
</tr>
<tr>
<td>Auto Sleeve Gassing</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Internal Mains Socket</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Storage Trays</td>
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<tr>
<td>Lighting</td>
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<td>●</td>
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<tr>
<td>Inspection Lamp</td>
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<tr>
<td>Single Sample Entry</td>
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<tr>
<td>ANO₂ Conditions Monitor</td>
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<tr>
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<td>Refrigeration / Cooling</td>
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<tr>
<td>Data Logging</td>
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<tr>
<td>Airlock Cycle Time</td>
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<td>60, 120, 180, 240 or 300 seconds</td>
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<tr>
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<tr>
<td>HEPA Filtration</td>
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</tr>
<tr>
<td>Microscope</td>
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<tr>
<td>Automatic Dehumidifier</td>
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<td>●</td>
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</tr>
<tr>
<td>Automatic Humidifier</td>
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<td>○</td>
</tr>
<tr>
<td>Chilled Incubation Compartment</td>
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<tr>
<td>Removable Front</td>
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<td>Workstation Trolley</td>
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<td>Remote Access</td>
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<tr>
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**KEY:**
- ● Fitted as standard
- ○ Option available
- - Not applicable
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<td>Port / Airlock Capacity</td>
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*Capacity based upon using 90mm Petri dishes. Shown as working / short term maximum with limited working space.
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.

These complementary services support the design, manufacture and supply of Whitley Workstations.
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.

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.