

Anaerobic and Microaerophilic Workstations



I N N O V A T I O N I N M I C R O B I O L O G Y A R O U N D T H E W O R L D

BIOTRACE
INTERNATIONAL

The Ruskinn brand was founded in 1993 and is now part of Biotrace International's portfolio of microbiology and life sciences products. Ruskinn has always led the way in innovation and is established as a brand leader in gas controlled incubation systems. We pride ourselves on striving to bring you the latest and best innovations from around the world, innovations that make your job easier and improve the quality of your results. Our products are continuously refined to meet the changing and varied needs of our customers.

Ruskinn products key features:

- Rapid transfer interlock
- Single plate entry system
- Convenient "bare hand" Ezee Sleeve™ system
- Intelligent humidity control

PRODUCTS

Ruskinn products are designed to meet the needs of most laboratories, however, if required we can tailor our systems to meet your precise specification. The range incorporates both anaerobic and microaerophilic workstations, with the following key features summarised below:

Anaerobic Workstations

BUGBOX

The world's favourite compact anaerobic workstation - 200 plate capacity / 10 plate interlock

CONCEPT 400

400 plate working capacity / 45 plate interlock - perfect growth conditions for anaerobes

CONCEPT PLUS

600 plate capacity / 100 plate interlock and many innovative features

CONCEPT 1000

The ultimate dual chamber workstation for larger laboratories

Microaerophilic Workstations

BUGBOX-M

Microaerophilic incubation system - 200 plate capacity / 10 plate interlock

CONCEPT 400-M

Microaerophilic incubation system - 400 plate working capacity / 45 plate interlock

SERVICE AND SUPPORT

Ruskinn products are used in over 30 countries, on four continents, so we understand the need to provide a high level of technical support. Professionals manage our local service networks and Ruskinn engineers place great emphasis on service training. As we do not compromise on build quality, our products are designed to last, with the minimum of service requirements. This leaves you, the scientist, to work without annoying and expensive interruptions.

BUGBOX

The world's favourite compact anaerobic workstation

Perfect for the smaller microbiology laboratory or as a personal workstation, the popular Bugbox shares the innovative features of the larger Ruskinn workstations yet takes up a smaller area of bench space.

Innovative plate transfer

Ruskinn recognises that most general laboratories inoculate samples for anaerobic cultures on the open bench. That is why we allow up to 10 plates to be transferred at a time in the colour coded petri tubes. Fifteen seconds is all it takes to transfer and guarantee the best isolation rates for your anaerobes. Complement this with the optional single plate entry system and you have the most convenient system available.

Justifiable technology

The Bugbox is the perfect way to improve isolation rates and is easy to justify as an alternative to anaerobic jars due to its low capital and operating costs. With low gas consumption, many laboratories can justify the switch from jars to Bugbox on consumable savings alone!



KEY FEATURES

- Ultra compact
- Dual gas operation; ANO₂ gas mix and N₂
- Low gas consumption and operating costs
- Rapid interlock - just 15 seconds to transfer up to 10 plates
- Incubates up to 200 x 90 mm plates
- Single plate entry system - instant access without using a port or interlock (optional)
- Ezee Sleeve™ port entry system for quick bare hand access
- Gas low alarms
- Energy saving fluorescent lamp for perfect illumination
- Foot operated high intensity halogen lamp for close inspection of samples
- Excellent temperature stability throughout the entire work area
- Humidity control
- Excellent capacity to footprint ratio

BUGBOX-M

Microaerophilic incubation system

The Bugbox-M includes all the familiar and proven features of the Bugbox, but is tailored to interface with a gas mixing system that incorporates patented technology. The gas mixing module provides accurate control over oxygen (0.1% - 20% in 0.1% increments), carbon dioxide (0% - 12% in 1% increments) and hydrogen (0% - 10% in 1% increments) components of the mix, with integral oxygen sensor and calibration port. As with the Bugbox anaerobic system, the Bugbox-M is an excellent alternative to jars and gas packs, providing a more stable incubation environment. Additionally, there is the option of a single plate entry system.

CONCEPT 400

Popular by design

With a spacious 400 plate working capacity, the Concept 400 is the choice of many hospital and general microbiology laboratories. Providing a perfect combination of capacity, speed and innovation, the Concept 400 delivers simple sophistication and new levels of comfort and convenience. The Concept 400 is simply the best product in its class.

New technology

Ruskinn has focused on providing high quality incubation conditions combined with ease of use. The Concept 400 features the unique Ezee Sleeve™ port entry system and rapid transfer interlock to provide controlled and repeatable conditions every time. With the addition of the optional single plate entry system, which offers instant access to the work chamber, you have one of the most flexible anaerobic workstations available.



At your service

With surprisingly low service and operating costs, the Concept 400 combines operating excellence with affordability - essential features for any laboratory. Just ask your local representative for comparisons and details.

CONCEPT 400-M

Microaerophilic incubation system

The Concept 400-M includes all the familiar and proven features of the Concept 400, but is tailored to interface with a gas mixing system that incorporates patented technology. The gas mixing module provides accurate control over oxygen (0.1% - 20% in 0.1% increments), carbon dioxide (0% - 12% in 1% increments) and hydrogen (0% - 10% in 1% increments) components of the mix with integral oxygen sensor and calibration port. Additionally, there is the option of a single plate entry system.



KEY FEATURES

- 400 plate working capacity – 560 plates maximum capacity
- Controlled and repeatable rapid transfer interlock - just 25 seconds in economy mode or 45 seconds in standard mode to transfer up to 45 plates
- Economical dual gas operation; ANO₂ gas mix and N₂
- Low operating costs
- Excess gas consumption alarm
- Gas low alarms
- Unique integral auto gas changeover should the anaerobic gas supply fail
- Perfect ergonomics
- 15 cm single plate entry system (optional)
- Ezee Sleeve™ port entry system with bare hand access
- Pull forward storage shelf for easy reach
- Energy saving fluorescent lamp for perfect illumination
- Foot operated high intensity halogen lamp for close inspection of samples
- Excellent temperature stability throughout the entire work area
- Humidity control
- Optional removable front
- Excellent capacity to footprint ratio

CONCEPT PLUS

The Concept Plus is designed to meet the needs of the larger laboratories, where sample throughput and incubation capacity are paramount. As with all Ruskinn workstations, the Concept Plus combines excellent performance and ergonomics without compromising quality.

Capacity for all

The incubation chamber can accommodate 600 plates with ease and still provide a large working area. The Concept Plus also allows the user to transfer large bottles, flasks and other equipment, quickly and efficiently. The front-loading interlock features class leading “one touch” operation and easy access for loading / unloading.

Perfectly designed for you

Concept Plus cleverly combines a large capacity with a small footprint, providing an easily accessed working environment. A pull forward storage shelf, port holders and colour coded petri-dish holders help to improve the ergonomics of working with anaerobes in your laboratory.



KEY FEATURES

- 600 plate capacity
- Fully automated interlock - transfers 100 plates in 5 minutes in standard cycle
- Interlock economy cycle for smaller loads
- 15 cm single plate entry system
- Ezee Sleeve™ port entry system with bare hand access
- Economical dual gas operation; ANO₂ gas mix and N₂
- Excess gas consumption alarm
- Gas low alarms
- Unique integral auto gas changeover should the anaerobic gas supply fail
- Perfect ergonomics
- Humidity control
- Intelligent humidification system optional
- Energy saving fluorescent lamp for perfect illumination
- Foot operated high intensity halogen lamp for close inspection of samples
- Excellent temperature stability throughout the entire work area
- Pull forward storage shelf for easy reach
- Excellent capacity to footprint ratio

CONCEPT 1000

The ultimate workstation!

Designed for larger laboratories or research applications, the Concept 1000 boasts some superior features.

Two in one

The dual chamber system is accessed through a central interlock. Each work chamber features independent control of temperature and humidity and has independent user access so two people can work at once. An optional gas mixing module can be interfaced with one chamber to create two independent environments.

Ultimate capacity

With a 1000 plate capacity and an interlock transfer rate of 100 plates in 5 minutes, the Concept 1000 is the incubator of choice for larger workloads. There is even a removable front option to allow access for equipment such as a digital microscope, stirrer or to thoroughly clean the work area.



KEY FEATURES

All the features of the Concept Plus and more

- 1000 plate capacity, 500 in each work chamber
- Dual chamber facilitates multi-user access and different temperature and humidity environments as required
- Central interlock serves both chambers independently
- Fully automated interlock - transfers 100 plates in 5 minutes in standard cycle
- Interlock economy cycle for smaller loads
- 15 cm single plate entry system to each work chamber
- Ezee Sleeve™ port entry system with bare hand access
- Economical dual gas operation; ANO₂ and N₂
- Excess gas consumption alarm
- Gas low alarms
- Unique integral auto gas changeover should the anaerobic gas supply fail
- Humidity control
- Intelligent humidification system optional
- Energy saving fluorescent lamp for perfect illumination
- Foot operated high intensity halogen lamp for close inspection of samples
- Pull forward storage shelf for easy reach
- Optional removable front
- Excellent capacity to footprint ratio

Ruskinn Product Specification Summary

	Bugbox	Bugbox-M	Concept 400	Concept 400-M	Concept Plus	Concept 1000
Technical Specification/ Feature						Dual atmosphere/ incubation system with central interlock
Gas Mixer Module	N/A	Yes	N/A	Yes	N/A	Optional (Dual Atmosphere)
Workstation Dimensions (mm)	700 W x 575 H x 650 D	1100 W x 575 H x 600 D	1100 W x 700 H x 700 D	1500 W x 720 H x 700 D	1600 W x 720 H x 700 D	2575 W x 720 H x 700 D
Bench Space Footprint (mm)	800 W x 650 D	1200 W x 600 D	1200 W x 700 D	1600 W x 700 D	1700 W x 700 D	2700 W x 700 D
Interlock	Yes	Yes	Yes	Yes	Yes	Yes
Interlock Capacity	10 Plates	10 Plates	45 Plates	45 Plates	100 Plates	100 Plates
Interlock Cycle Time	15 Seconds	15 Seconds	45 seconds	45 Seconds	5 minutes	5 minutes
Economy Interlock Cycle	N/A	N/A	25 seconds	25 Seconds	3.5 minutes	3.5 minutes
Interlock Outer Door Operation	Manual	Manual	Manual	Manual	Automatic	Automatic
Maximum Work Chamber Capacity	180 plates	180 plates	560 plates	560 plates	600 plates	1100 plates
Port Entry System	Yes	Yes	Yes	Yes	Yes	Yes
Single Plate Entry System	Optional	Optional	Optional	Optional	Standard	Standard
Work Chamber Illumination	Yes	Yes	Yes	Yes	Yes	Yes
Inspection Spotlamp	Yes	Yes	Yes	Yes	Yes	Yes
Automated Humidity Control	Yes	Yes	Yes Intelligent humidity control optional	Yes Intelligent humidity control optional	Yes Intelligent humidity control optional	Yes Intelligent humidity control optional
Gas Low Alarms	Yes	Yes	Yes	Yes	Yes	Yes
Excess Gas Use Alarm	N/A	N/A	Yes	Yes	Yes	Yes
Minimum Incubation Temperature	Ambient + 5°C	Ambient + 5°C	Ambient + 5°C	Ambient + 5°C	Ambient + 5°C	Ambient + 5°C
Maximum Incubation Temperature	45°C	45°C	45°C	45°C	45°C	45°C
Removable Front	N/A	N/A	Optional	Optional	Optional	Optional
Gas Supply	Dual Gas (N ₂ + ANO ₂)	Up to 4 separate gas cylinders: H ₂ / N ₂ ; CO ₂ ; N ₂ ; Air	Dual Gas (N ₂ + ANO ₂)	Up to 4 separate gas cylinders: H ₂ / N ₂ ; CO ₂ ; N ₂ ; Air	Dual Gas (N ₂ + ANO ₂)	Dual Gas (N ₂ + ANO ₂)
Work Chamber Fabrication	One piece Acrylic	One piece Acrylic	One piece Acrylic	One piece Acrylic	One piece Acrylic	One piece Acrylic
Mains Socket	Optional	Optional	Optional	Optional	Standard	Standard
Ezee Sleeve™ barehand system	Yes	Yes	Yes	Yes	Yes	Yes
Weight	66 Kg	115 Kg	115 Kg	150 Kg	160 Kg	240 Kg

ANO₂ = Anaerobic gas mixture containing 10% H₂, 10% CO₂ and 80% N₂

For workstations required with an incubation temperature outside of the stated range, please contact your local distributor

Biotrace International supplies a wide range of microbiology equipment, products and services, including:

- Biotrace rapid hygiene monitoring systems
- Cogent end product screening systems
- Ruskinn anaerobic and modified atmosphere workstations
- Biotrace pre-prepared environmental monitoring media
- Biotrace high performance air samplers

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