



Anaerobic and Microaerophilic Workstations

innovation in incubation



Ruskinn Anaerobic and Microaerophilic Workstations

A Workstation Range to Cover All Needs

From the 'personal' Bugbox with a capacity of 300 plates to the 'ultimate' Concept 1000 with a capacity of 1200 plates, you will find the ideal workstation for your laboratory.

The Ruskinn range of anaerobic and microaerophilic workstations are designed specifically to help microbiologists cope with rising workloads.

- ⌘ Ruskinn has over 10 years of customer feedback & experience refined into developing the ultimate range of workstations.
- ⌘ Ruskinn boasts over 200 research publications featuring our range of controlled atmosphere workstations.
- ⌘ Ruskinn has over 1000 workstations installed in more than 40 countries.
- ⌘ Ruskinn offers the widest range of workstations to suit individual needs.
- ⌘ Ruskinn's optional advanced gas mixing system (GMQ) facilitates accurate and precise microaerophilic atmosphere (available for Bugbox and Concept 400 models only).
- ⌘ Ruskinn realizes the importance of volatile organic compounds so all our workstations are voc tested & validated.
- ⌘ Ruskinn provides enhanced flexibility by offering imaging options (available on larger workstation models).

Ruskinn Workstations proudly feature strict anaerobic conditions, standard dual gas operation (provides cost savings over single gas incubators) accurate O₂ control (above 0.0%)*, accurate CO₂ control*, cycle programming*, accurate temperature control, accurate humidity control, direct hand access, rapid interlock, 15cm single plate entry system, internal mains power, removable front panel*, efficient gas consumption, VOC filtration, HEPA filtration*, UV filtration*, imaging ready*.

*Available only on certain models.

BUGBOX

Your Personal Workstation

Key Features and Benefits

- Up to 300 x 10cm plate capacity to maximize workflow
- Interlock transfers 10 x 90mm plates in 15 seconds
- Low gas consumption therefore low running costs
- Accurate incubation control from ambient + 5°C to 45°C
- Accurate humidity control
- Convenient Ezee™ Sleeve bare-hand system provides access without disrupting atmosphere within chamber
- Halogen inspection spot lamp for close sample analysis
- Optional internal mains socket for powering accessories
- Optional single plate entry system to allow direct introduction of individual plates without the interlock cycle

The world's smallest anaerobic workstation, Bugbox packs the most innovative features into a compact bench footprint.



BUGBOX PLUS

Compact Workstation - Larger Interlock

Key Features and Benefits

- Up to 270 x 10cm plate capacity to maximize workflow
- Interlock transfers 18 x 90mm plates in 35 seconds
- Interlock is wide enough to accommodate 15cm plates
- Low gas consumption therefore low running costs
- Accurate incubation control from ambient + 5°C to 45°C
- Accurate humidity control
- Convenient Ezee™ Sleeve bare-hand system provides access without disrupting atmosphere within chamber
- Halogen inspection spot lamp for close sample analysis
- Optional internal mains socket for powering accessories
- Optional single plate entry system to allow direct introduction of individual plates without the interlock cycle

Retaining the compact bench footprint of the Bugbox, Bugbox Plus has the added advantage of a larger interlock to facilitate the transfer of larger plates and flasks.



CONCEPT 400

For Larger Workloads

Key Features and Benefits

- Up to 620 x 10cm plate capacity to maximize workflow
- Interlock transfers 39 x 90mm plates in 45 seconds
- Low gas consumption therefore low running costs
- Accurate incubation control from ambient + 5°C to 45°C
- Accurate humidity control
- Convenient Ezee™ Sleeve bare-hand system provides access without disrupting atmosphere within chamber
- Halogen inspection spot lamp for close sample analysis
- Optional internal mains socket for powering accessories
- Standard single plate entry system to allow direct introduction of up to 1 x 15cm plate without the interlock

Concept 400 is perfect for mid-sized laboratories that require more space than afforded by Bugbox.



CONCEPT PLUS

Facilitates Transfer of Small Equipment

Key Features and Benefits

- Up to 740 x 10cm plate capacity to maximize workflow
- Automated interlock transfers 78 x 10cm plates in 3.5 minutes (economy cycle) or 5 minutes (full cycle)
- Low gas consumption therefore low running costs
- Accurate incubation control from ambient + 5°C to 45°C
- Accurate humidity control
- Convenient Ezee™ Sleeve bare-hand system provides access without disrupting atmosphere within chamber

- Halogen inspection spot lamp for close sample analysis
- Optional internal mains socket for powering accessories
- Standard single plate entry system to allow direct introduction of up to 1 x 15cm plate without the interlock

Concept Plus provides a large workarea and a large automated interlock ideal for introducing small equipment



CONCEPT 1000

The Best Choice for Large Labs

Key Features and Benefits

- Dual chambers for multi-user access
- Up to 600 x 10cm plate capacity per chamber to maximize workflow
- Automated interlock transfers 78 x 10cm plates in 3.5 minutes (economy cycle) or 5 minutes (full cycle)
- Low gas consumption therefore low running costs
- Accurate incubation control from ambient + 5°C to 45°C

- Accurate humidity control
- Convenient Ezee™ Sleeve bare-hand system provides access without disrupting atmosphere within chamber
- Halogen inspection spot lamp for close sample analysis
- Standard internal mains socket for powering accessories
- Standard single plate entry system to allow direct introduction of up to 1 x 15cm plate without the interlock
- Removable front panels facilitate easy cleaning and loading of large equipment

The ideal solution for large laboratories, Concept 1000 boasts a 1200 x 10cm plate capacity and provides convenient multi-user access.



GAS MIXER Q

GMQ Module for Microaerophilic Work

Key Features and Benefits

- Oxygen stability from 0.0% to 20.9% in 0.1% increments
- CO₂ stability from 0.0% to 30.0% in 0.1% increments
- Cycle programming allows user-defined timed sequences of up to 4 different O₂ and CO₂ concentrations
- Communications USB port allows download of event data and diagnostics

If microaerophilic conditions are required, the Gas Mixer Q module must be purchased in conjunction with a new Ruskin anaerobic workstation. The Gas Mixer Q cannot be retro-fit to any existing anaerobic workstations.



Product Specification Summary (imperial units)

Model		BB	BB +	C 400	C Plus	C 1000	GMQ
Bench Space (in)	Width	32"	33"	45"	64"	95"	11"
	Height	26"	26"	26"	30"	31"	16"
	Depth	26"	26"	26"	29"	29"	24"
Internal Dimensions (in)	Width	19"	22"	31"	39"	31"	N/A
	Height	16"	16"	18"	18"	18"	N/A
	Depth	18"	18"	19"	19"	19"	N/A
Maximum Capacity (10cm plates)		300 plates	270 plates	620 plates	740 plates	1200 plates	N/A
Working Capacity (10cm plates)		220 plates	200 plates	470 plates	585 plates	890 plates	N/A
Weight (lbs)		100 lbs	125 lbs	180 lbs	265 lbs	330 lbs	25 lbs
Interlock Dimensions (in)	Width	4"	6"	4"	12"	12"	N/A
	Height	8"	7"	10"	12"	12"	N/A
	Depth	8"	9"	11"	12"	12"	N/A
Interlock Capacity (10cm plates)		10 plates	18 plates	39 plates	78 plates	78 plates	N/A
Interlock Cycle Time		15 sec	35 sec	45 sec	5 min	5 min	N/A
Interlock Door Operation		Manual	Manual	Manual	Auto	Auto	N/A
Detox (Advanced Carbon Filtration System)		✓	✓	✓	✓	✓	N/A
Removable Front		N/A	N/A	0	0	✓	N/A
Internal Mains Socket		0	0	0	0	✓	N/A
Single Plate Entry System		0	0	✓	✓	✓	N/A
Ezee™ Sleeve Bare-hand Access		✓	✓	✓	✓	✓	N/A
Petri Dish Holders		3 holders	3 holders	3 holders	5 holders	10 holders	N/A
Wire Racks		N/A	N/A	1 racks	2 racks	4 racks	N/A
Energy Saving Fluorescent Illumination		✓	✓	✓	✓	✓	N/A
Inspection Spotlamp		✓	✓	✓	✓	✓	N/A
Gas Low Alarm		✓	✓	✓	✓	✓	N/A
Excessive Gas Use Alarm		N/A	N/A	✓	✓	✓	N/A
Alarms (Gas / Temperature / Humidity)		N/A	N/A	N/A	N/A	N/A	✓
Cable Gland Port		0	0	0	0	0	N/A
Vacuum Line Port		0	0	0	0	0	N/A
Gas Sample Port		0	0	0	0	0	N/A
Automatic Humidity Control		✓	✓	✓	✓	✓	N/A
Ultrasonic Humidity Control		0	0	0	0	0	N/A
Workstation Stand		0	0	0	0	0	N/A
Palladium Catalyst		✓	✓	✓	✓	✓	N/A
Anaerobic Indicator Strips		✓	✓	✓	✓	✓	N/A
Gas Tank Regulators		0	0	0	0	0	0
Gas Tank Filter Modules		0	0	0	0	0	0
External Docking Facility		0	0	0	0	0	N/A
Power Failure Back Up System		0	0	0	0	0	0
Data Logging Connection		0	0	0	0	0	N/A
O ₂ Control 0.0% - 20.9%		N/A	N/A	N/A	N/A	N/A	✓
CO ₂ Control 0.0% - 30.0%		N/A	N/A	N/A	N/A	N/A	✓
USB Communications Port		N/A	N/A	N/A	N/A	N/A	✓
5 Day Continuous Data Storage		N/A	N/A	N/A	N/A	N/A	✓
One Touch Calibration (O ₂)		N/A	N/A	N/A	N/A	N/A	✓
On-Screen Fault Assistance		N/A	N/A	N/A	N/A	N/A	✓
Cycle Programming		N/A	N/A	N/A	N/A	N/A	✓
Fabrication		Solvent Bonded Acrylic					N/A
Temperature Control		Ambient + 5°C to 45°C					N/A
Humidity Control		Ambient to 85%					N/A
Gas Supply		Dual Gas: N ₂ & ANO ₂					Up to 4: H ₂ /N ₂ ; CO ₂ ; N ₂ ; Air
		✓ Standard		0 Optional		N/A Not Applicable	



Product Specification Summary (metric units)

Model		BB	BB +	C 400	C Plus	C 1000	GMQ
Bench Space (mm)	Width	800 mm	830 mm	1120 mm	1620 mm	2400 mm	260 mm
	Height	650 mm	650 mm	650 mm	750 mm	780 mm	405 mm
	Depth	660 mm	660 mm	660 mm	720 mm	720 mm	590 mm
Internal Dimensions (mm)	Width	500 mm	560 mm	800 mm	1000 mm	800 mm	N/A
	Height	420 mm	420 mm	480 mm	480 mm	480 mm	N/A
	Depth	460 mm	460 mm	500 mm	500 mm	500 mm	N/A
Maximum Capacity (90mm plates)		300 plates	270 plates	620 plates	740 plates	1200 plates	N/A
Working Capacity (90mm plates)		220 plates	200 plates	470 plates	585 plates	890 plates	N/A
Weight (kg)		45 kg	55 kg	80 kg	120 kg	150 kg	10 kg
Interlock Dimensions (mm)	Width	100 mm	150 mm	120 mm	320 mm	320 mm	N/A
	Height	200 mm	190 mm	260 mm	300 mm	300 mm	N/A
	Depth	200 mm	230 mm	280 mm	300 mm	300 mm	N/A
Interlock Capacity (90mm plates)		10 plates	18 plates	39 plates	78 plates	78 plates	N/A
Interlock Cycle Time		15 sec	35 sec	45 sec	5 min	5 min	N/A
Interlock Door Operation		Manual	Manual	Manual	Auto	Auto	N/A
Detox (Advanced Carbon Filtration System)		✓	✓	✓	✓	✓	N/A
Removable Front		N/A	N/A	0	0	✓	N/A
Internal Mains Socket		0	0	0	0	✓	N/A
Single Plate Entry System		0	0	✓	✓	✓	N/A
Ezee™ Sleeve Bare-hand Access		✓	✓	✓	✓	✓	N/A
Petri Dish Holders		3 holders	3 holders	3 holders	5 holders	10 holders	N/A
Wire Racks		N/A	N/A	1 racks	2 racks	4 racks	N/A
Energy Saving Fluorescent Illumination		✓	✓	✓	✓	✓	N/A
Inspection Spotlamp		✓	✓	✓	✓	✓	N/A
Gas Low Alarm		✓	✓	✓	✓	✓	N/A
Excessive Gas Use Alarm		N/A	N/A	✓	✓	✓	N/A
Alarms (Gas / Temperature / Humidity)		N/A	N/A	N/A	N/A	N/A	✓
Cable Gland Port		0	0	0	0	0	N/A
Vacuum Line Port		0	0	0	0	0	N/A
Gas Sample Port		0	0	0	0	0	N/A
Automatic Humidity Control		✓	✓	✓	✓	✓	N/A
Ultrasonic Humidity Control		0	0	0	0	0	N/A
Workstation Stand		0	0	0	0	0	N/A
Palladium Catalyst		✓	✓	✓	✓	✓	N/A
Anaerobic Indicator Strips		✓	✓	✓	✓	✓	N/A
Gas Tank Regulators		0	0	0	0	0	0
Gas Tank Filter Modules		0	0	0	0	0	0
External Docking Facility		0	0	0	0	0	N/A
Power Failure Back Up System		0	0	0	0	0	0
Data Logging Connection		0	0	0	0	0	N/A
O ₂ Control 0.0% - 20.9%		N/A	N/A	N/A	N/A	N/A	✓
CO ₂ Control 0.0% - 30.0%		N/A	N/A	N/A	N/A	N/A	✓
USB Communications Port		N/A	N/A	N/A	N/A	N/A	✓
5 Day Continuous Data Storage		N/A	N/A	N/A	N/A	N/A	✓
One Touch Calibration (O ₂)		N/A	N/A	N/A	N/A	N/A	✓
On-Screen Fault Assistance		N/A	N/A	N/A	N/A	N/A	✓
Cycle Programing		N/A	N/A	N/A	N/A	N/A	✓
Fabrication		Solvent Bonded Acrylic					N/A
Temperature Control		Ambient + 5°C to 45°C					N/A
Humidity Control		Ambient to 85%					N/A
Gas Supply		Dual Gas: N ₂ & ANO ₂					Up to 4: H ₂ /N ₂ ; CO ₂ ; N ₂ ; Air
		✓ Standard		0 Optional		N/A Not Applicable	



Ruskinn Technology Ltd

The Ruskinn brand was founded in 1993 and rapidly became established as one of the world's leading suppliers and manufacturers of anaerobic and modified atmosphere workstations.

Ruskinn's purpose built factory is located within the Sony Technology Centre near Pencoed in South Wales, UK. Ruskinn's range of high quality workstations is available worldwide through a global network of carefully selected distributors.



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BAKER **BIO**SCIENCE SOLUTIONS

Sold exclusively in the United States by Baker BioScience Solutions
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