



## **Bugbox · Concept**

### **Anaerobic & Microaerophilic Workstations**

A range of easy-to-use anaerobic and microaerophilic incubated workstations for growing obligate or facultative anaerobes.

**BAKER**

*RUSKINN*

# See Things Differently

## Experience Ruskin Anaerobic Workstations

For 20 years Ruskin anaerobic workstations have been the trusted choice for laboratories around the world. More than 1000 anaerobic workstations are installed in more than 40 countries - and more than 200 research publications feature the Ruskin anaerobic technology.

Our anaerobic workstations are designed specifically to help microbiologists cope with rising workloads and provide the best primary isolation rates.

## Ultimate Control for Optimum Cell Environment

- Accurate temperature control—from ambient + 5°C to 45°C.
- Accurate and automated humidity control—no dry spots.
- Palladium catalyst maintains anaerobic environment—plus anaerobic color-indicator strips verify anoxic conditions.
- Ezee Sleeve™ entry system allows access without disrupting the atmosphere within the chamber.

## Convenient & Comfortable User Experience

- **Quick and easy direct access.** Gloveless, cuffed sleeve system (Ezee Sleeve™) takes just seconds to get inside the workstation with hands. (40 seconds with Ezee Plug™ and 10 seconds with Ezeeyin™ port.)
- **Shortest airlock cycle time in the industry**—as little as 15 seconds.
- **Single plate entry system (SPES).** Standard on most models, this mailbox-like slot allows quick side entry or exit of individual plates, bypassing the interlock cycling process.
- **Energy-saving lighting.** Read plates easily under perfect illumination without O<sub>2</sub> exposure.
- **High-intensity inspection spot lamp** for close sample analysis is foot-operated for ease of use.
- **Automatic controls** are easy to access.
- **Petri dish holders** for quick plate transfer are included.
- **Microaerophilic options available.** Bugbox M and Concept 400M include the I-CO<sub>2</sub>N<sub>2</sub>IC gas mixing system to create the perfect environment for growing facultative anaerobes.



*Ezee Sleeve™ entry system provides access in seconds without disrupting the workstation atmosphere.*

See a video introduction to the full range of Ruskin anaerobic workstations!

Scan the code to the right or visit <http://info.bakerco.com/anaerobic-workstation-video>



*Single plate entry system – allows quick entry or exit of individual plates.*

## Economic and Reliable for Long Term Savings

- Standard dual gas operation - low gas consumption and running costs.
- Lower cost per plate compared to anaerobic jars.
- Minimal maintenance and downtime - with annual or biennial preventative maintenance kits available.

## Designed to Protect Your Results

- The acrylic airtight chamber is flooded with anaerobic gas mix ( $H_2$  in  $N_2$ ) and  $O_2$  is displaced.
  - If any  $O_2$  remains or is allowed to enter, it is "scavenged" by a palladium catalyst, situated under the floor tray - the  $O_2$  reacts with the  $H_2$  to form water.
- Interlock uses an  $N_2$  purge, so when a user brings in plates through the interlock, no  $O_2$  enters the main chamber - inner and outer interlock doors cannot be opened simultaneously.
- Ezee Sleeves™ are purged using  $N_2$  gas via foot pedals, so no  $O_2$  enters the main chamber when the glove ports are opened.

## Versatile and Flexible to Fit Your Workload

Multiple models and a variety of options are available to fit your specific needs.

### Bugbox - Your Personal Workstation

- Up to 200 90-mm plate capacity
- Interlock transfer - 10 plates in 15 seconds

### Bugbox PLUS - Compact Workstation with Larger Interlock

- Up to 180 90-mm plate capacity
- Interlock transfer - 18 plates in 35 seconds

### Concept 400 - Perfect for Mid-Size to Large Workloads

- Up to 471 90-mm plate capacity
- Interlock transfer - 26 plates in 45 seconds

### Concept PLUS - Larger Interlock For Transfer of Small Equipment

- Up to 520 90-mm plate capacity
- Programmed to automate an interlock transfer - 78 plates in 5 minutes

### Concept 1000 - Dual Chambers for Multi-User Access

- Up to 942 90-mm plate capacity
- Shared interlock for workload transfers - 78 plates in 5 minutes



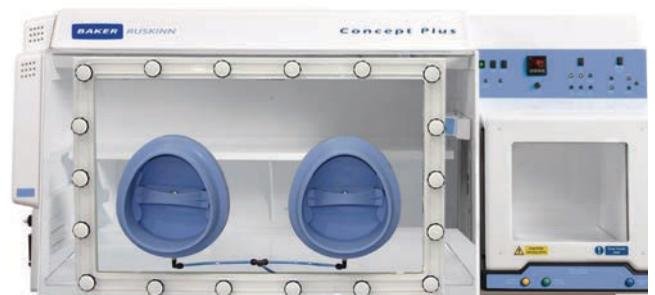
Bugbox



Bugbox PLUS



Concept 400



Concept PLUS



Concept 1000

# Bugbox and Concept Workstation Specification Summary

Model		Bugbox / Bugbox M	Bugbox PLUS	Concept 400 / 400 M	Concept PLUS	Concept 1000
External Dimensions	Width	31.5"	33"	44"	64"	95.5"
	Depth	26"	26"	28"	28"	28"
	Height	25.5"	25.5"	29.5"	29.5"	31"
Internal Dimensions	Width	19.5"	19.5"	31.5"	39"	31.5" (per chamber)
	Depth	18"	18"	19.5"	19.5"	19.5" (per chamber)
	Height	16.5"	16.5"	19"	19"	19" (per chamber)
Maximum Capacity	90-mm Plates	270	234	536 / 676	650	1072
Working Capacity	90-mm Plates	200	180	471 / 520	520	942
Interlock Dimensions	Width	4"	6"	5"	12.5"	12.5"
	Depth	4"	9"	11"	12"	12"
	Height	8"	7.5"	10"	12"	12"
Interlock Capacity	90-mm Plates	10	18	26 / 28	78	78
Interlock Time Cycle		15 sec.	35 sec.	45 sec.	5 min.	5 min.
Interlock Door Operation		manual	manual	manual	automatic	automatic
Weight		99 lbs. / 143 lbs.	121 lbs.	176 lbs. / 220 lbs.	265 lbs.	331 lbs.
Petri Dish Holders (Standard)		3	3	3	5	10
Wire Racks (Standard)		0	0	1	2	4

## Standard Features

- Removable front (not available on the Bugbox or Bugbox Plus)
- Internal electrical outlet (optional on Bugbox/Bugbox Plus)
- Detox advanced carbon filtration system
- Ezee Sleeve™ direct hand entry system
- Energy-saving fluorescent illumination
- Inspection spot lamp
- Low gas alarm
- Automatic humidity control
- Palladium catalyst
- Anaerobic indicator strips
- Petri dish holders and wire racks (Quantity varies by model, see table above)
- Single Plate Entry System (SPES) (optional on Bugbox)
- Excessive gas use alarm (not available on the Bugbox or Bugbox PLUS)

## Options and Accessories

- Vacuum line port
  - Gas sample port
  - Cable gland port
  - Ultrasonic humidity control (not available in Bugbox/Bugbox Plus)
  - Gas tank regulators and filter modules (US only)
  - Workstation stand
  - External docking facility for anaerobic jars (Bugbox only)
  - Power failure back-up system
  - Data logging connection
- For a microaerophilic environment - Bugbox, Concept 400 and Concept 1000 can be built with I-CO<sub>2</sub>N<sub>2</sub>IC gas mixing system. Please enquire about Bugbox M and Concept 400 M. I-CO<sub>2</sub>N<sub>2</sub>IC allows:
    - User to control O<sub>2</sub> from 0.0% to 23.0% in 0.1% increments
    - User to control CO<sub>2</sub> from 0.1% to 30.0% in 0.1% increments
    - Automatic calibration of the O<sub>2</sub> sensor through screen control
    - Microaerophilic cycling, facilitating up to 4 different O<sub>2</sub> and CO<sub>2</sub> concentrations through a user-defined sequence of time



Baker Ruskinn is a global leader and supplier of anaerobic and precision low oxygen culture systems for microbiology and tissue/cell culture applications. Its advanced line of anaerobic chambers, hypoxia workstations and media conditioning solutions help improve research results by providing precisely controlled conditions for anoxic and low-oxygen studies. To learn how Baker Ruskinn products can benefit your research, visit [www.bakerruskinn.com](http://www.bakerruskinn.com).

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