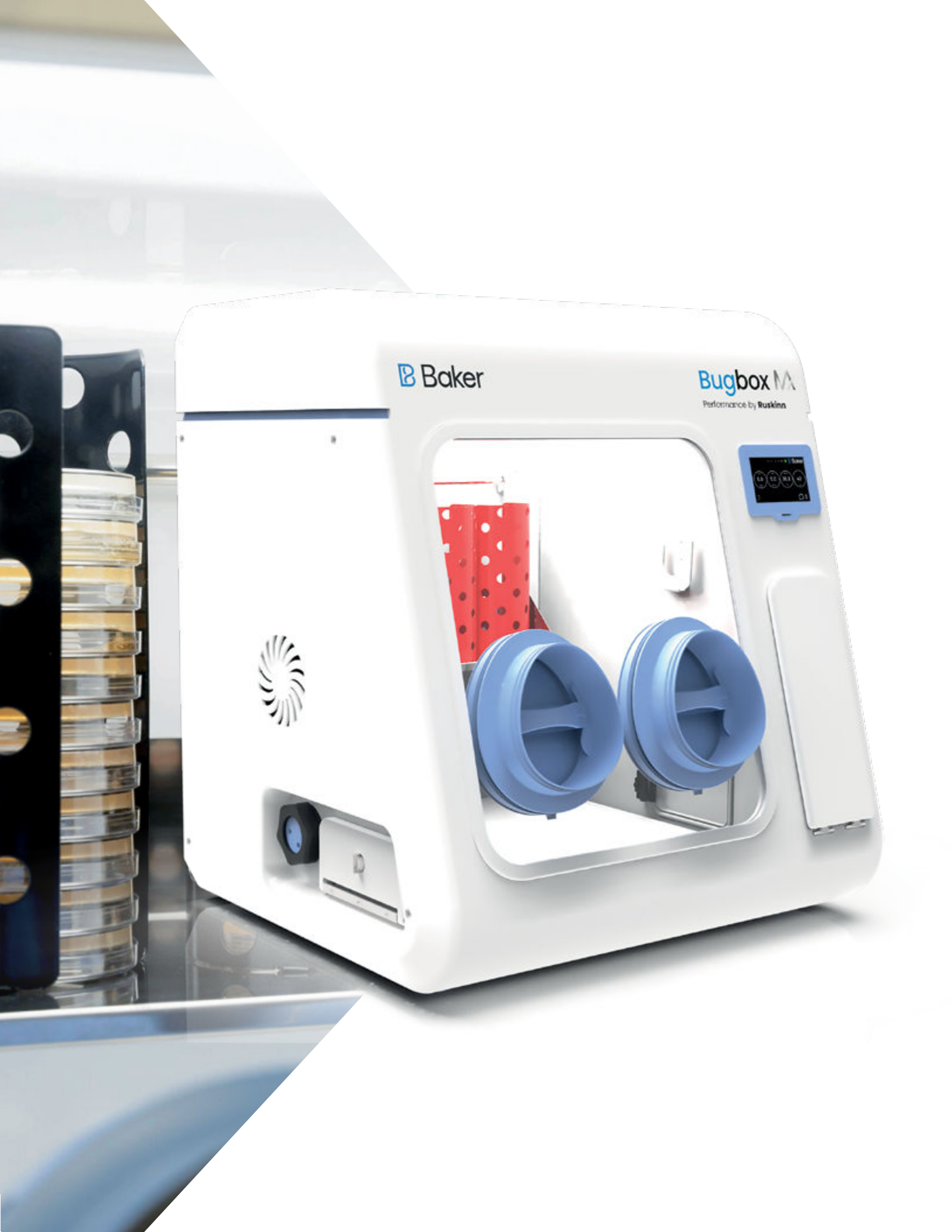
Bugbox

A new level of *versatility*, *efficiency* & *power* in a compact space

Baker


Baker
Bugbox M
Performance by Ruskinn

Versatile & Flexible to Fit Any Lab Space

BUGBOX

Anaerobic & Microaerophilic Workstations

For over 25 years Baker 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 300 research publications feature the Baker anaerobic technology.

Available as anaerobic or microaerophilic chambers, our workstation are the most versatile tool for various microbiology application areas.

Designed to help with rising workloads and increase primary isolation rates, Bugbox provides quick and easy access via the Ezee Sleeve™ Glove ports, energy-saving lighting that provides perfect illumination, and is easy to use. The interlock system allows simple and fast transfer of plates into the anaerobic chamber. Adjustable temperature and humidity provide a stable and strictly controlled anaerobic environment that is optimal for obligate anaerobes, and plates can be examined without exposing them to oxygen.

Its compact size meets the needs of the smallest laboratory spaces, and compared to approximately 20 anaerobic jars per week, Bugbox is economical with a lower cost per plate, is more reliable, and provides a stable atmosphere, with minimal maintenance.

PRECISION CONTROL FOR OPTIMAL 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. Optional real time O_2 monitoring available.
- Ezee Sleeve™ Direct Hand entry system allows access without disrupting the atmosphere within the chamber.

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.

The Bugbox Family

ANAEROBIC & MICROAEROPHILIC WORKSTATIONS

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

DESIGNED FOR STRICT, STABLE, ANAEROBIC CONDITIONS

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.

Gloveless 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.

Bugbox A

- 270 Plate Capacity
- 0.5m² /5.77ft² bench footprint
- 30 Plate Capacity Interlock
- Intuitive Touchscreen Interface

Bugbox M

- Allows for chamber conditions to be anaerobic or microaerophilic (O_2 to 0.1%)
- Especially suited for example for microbiome research and studying the complex interaction of mammalian cells and bacteria

CONVENIENT & COMFORTABLE USER EXPERIENCE

- Compact Footprint

  Elegant design allows for 270 plate capacity (90 mm plates) without taking up valuable bench space. (W 790 mm, D 679 mm)

- Quick and Easy Direct Access

  Gloveless, cuffed sleeve system (Ezee Sleeve™) takes less than 40 seconds for direct hand access to the chamber.

- Single Plate Entry System

  Optional SPES is a mailbox like slot allowing for quick side entry or exit of individual plates, bypassing the interlock.

- Energy Saving Lighting

  Reads plates under perfect illumination without O_2 exposure.

- Innovative Interlock System

  Allows for convenient loading of plates with 30 plate capacity (90 mm plates) and interlock cycle of just 30 seconds.

- O_2 Conditions Monitor

  Optional Oxygen conditions monitor gives you real time O_2 display.

Standard Features Ax

- Detox advanced carbon filtration system
- Automatic Humidity Control
- Temperature Control
- Low Gas Alarm
- Palladium Catalyst
- Anaerobic Indicator Strips
- Touchscreen Interface
- Interlock
- Ezee Sleeve™ Direct Hand Entry System
- Energy Saving LED Illumination
- 2 x Large Petri Dish Holders
- Data logging
- User defined control of CO_2 from 0.1% to 30.0%.

Standard Features Mx

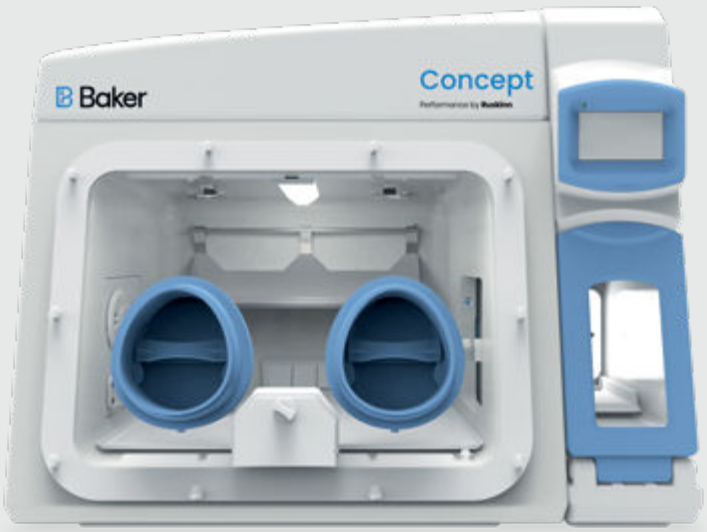
- Detox advanced carbon filtration system
- Automatic Humidity Control
- Temperature Control
- Low Gas Alarm
- Palladium Catalyst
- Touchscreen Interface
- Interlock
- Ezee SleeveTM Direct Hand Entry System
- Energy Saving LED Illumination
- 2x Large Petri Dish Holders
- Data Logging
- User defined control of CO2 from 0.1% to 20.0% and O2 control from 0.1% to 23.0%.
- Anaerobic Conditions Monitor
- Internal Electric Socket
- Single Plate Entry System (SPES)

Optional Features

- Anaerobic Conditions Monitor (Standard on Mx)
- Vacuum Line Port
- Gas Sample Port
- Cable Gland Port
- Multi-cable gland (up to 6 individual cables)
- Internal Electric Socket (Standard on Mx)
- Gas Tank Regulators and Filter Modules
- Workstation Stand
- Power Failure Back up System,
- Single Plate Entry System (SPES) (Standard on Mx)

Technical Specifications – Bugbox

Model		Bugbox Ax	Bugbox Mx
External Dimensions	Width	790 mm	790 mm
	Depth	679 mm	679 mm
	Height	872 mm	872 mm
Internal Dimensions	Width	540 mm	540 mm
	Depth	546 mm	546 mm
	Height	535 mm	535 mm
Working Capacity	90mm / 96-well Plates	270 / 152 Plates	270 / 152 Plates
Interlock Dimensions	Width	149 mm	149 mm
	Depth	253 mm	253 mm
	Height	285 mm	285 mm
Interlock Capacity	90mm / 96-well Plates	30 / 26 Plates	30 / 26 Plates
Interlock Time Cycle		30 sec.	15 sec.
Interlock Door Operation		Manual	Manual
Weight		53 kg / 117 lbs	59kg / 130 lbs
Interlock Petri Dish Holder Capacity		2	2



ANAEROBIC & MICROAEROPHILIC WORKSTATIONS

If you are looking for more robust processing power and capacity, the modular Concept range of workstations are the perfect addition to any lab.

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