

BACTRON Anaerobic Chambers

The Complete Environmental Microbiology Workstation
Anaerobic, Hypoxic, & other Gas Environments



Introducing!
The NEW BacBASIC!

No gloves. No jars or bags. Room temperature working conditions. True comfort.

Constant thinking.



BACTRON Anaerobic/Environmental Chambers

A Cost Saving Solution for Improved Anaerobe Culture & Identification



Patented BACTRON anaerobic/environmental systems allow efficient and dexterous glove-free handling and inspection of samples. Comfortable arm cuffs, which are available in three sizes, fit snugly around the user's forearm. The convenient foot pedals are used to evacuate oxygen and add anaerobic gas to the sleeves while the airlock auto-cycle facilitates

oxygen-free transfer of samples and supplies in the chamber. Indicator lights will signal that the air-lock is anaerobic and ready to be opened into the chamber. Simply open arm port doors and place on the convenient shelf or racks for out-of-the-way storage. Samples and supplies can then be brought into the chamber with ease from the sliding airlock shelf.

Cost Comparison: Anaerobic Jars vs. BACTRON III

The bottom line in operating costs:



Anaerobic jars cost \$0.27 per day, per plate.

The **BACTRON III** costs only **\$0.05** per day per plate to operate.



300 Plates/Day	Anaerobic Jars		BACTRON III Anaerobic Chamber	
	Annual Cost	Five Year	Annual Cost	Five Year
Consumables:				
30 Jars per day @ \$2.46 (gas generating kit, strips catalyst sachets)	\$26,937.00	\$134,685.00		
Gas, test strips, sleeves, catalyst			\$2,007.50	\$10,037.50
Equipment:				
Jars				
30 - 10 Plate Jars @ \$312.43 ea.	\$9,372.90	\$9,372.90		
2 Incubators	\$6,500.00	\$6,500.00		
Bactron III Anaerobic Chamber			\$16,000.00	\$16,000.00
Total: Five Year Equipment and Operating Costs		\$150,557.90		\$26,037.50
Per Day Cost Per Plate		\$0.27		\$0.05

BACTRON Anaerobic/Environmental Chambers

Overview of the Unique BACTRON Features



Features/Benefits:

- Gloveless design for dexterous, easy handling of samples
- Separate incubator and work chamber for increased efficiency and user comfort
- Condensate controller for virtually condensation-free work area and fog-free viewing
- Catalyst cartridge increases anaerobic results and efficiency
- System ready for out-of-the-box use, just add gas
- Airlock can be operated manually or via unique auto-cycle
- Microprocessor temperature controller with accurate and user-friendly keypad calibration
- Independent over-temperature safety controller
- Easy-to-use sliding airlock shelf preserves work space
- Chamber pressure relief system featuring BACTRON manometer for comfort and maintenance of anaerobic environment

Included with each system:

- Vacuum pump with fittings and hoses
- Two year warranty*
- Two catalyst cartridges
- Petri plate racks
- Sleeve assembly with small cuffs (large and medium cuffs are also available)

Education:

Each BACTRON purchase within the USA includes set-up and on-site training by a local SHEL LAB Sales Representative. One staff member is eligible to attend a seminar on anaerobe identification procedures and techniques.**

*Excludes Bactron BacBASIC. Parts and labor in US. Parts only for international sales.

**Seminar is held in Portland, OR. Sheldon Manufacturing covers tuition and hotel expenses; attendee is responsible for transportation to Portland (OR) Airport.

BACTRON Anaerobic/Environmental Chambers

Overview of the Unique BACTRON Features

Value

The BACTRON Anaerobic Chamber systems are just that: a system. All components for trouble-free use are included with your initial purchase, including a vacuum pump, sleeves, cuffs and all the necessary tubing.

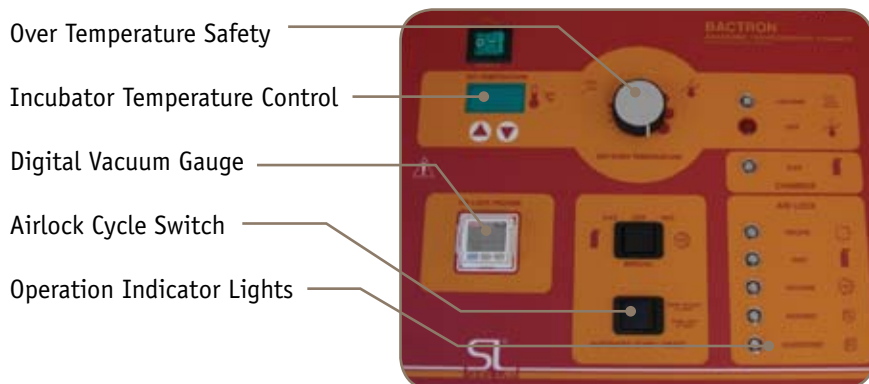
Versatility

The SHEL LAB BACTRON anaerobic & environmental chamber line offers multiple high-value features and essential benefits. Incubator Petri plate capacities and chamber dimensions accommodate varied laboratory needs and budgets. Ranging from 100 to 900 Petri plate incubator capacities, the BACTRON chamber line can address a myriad of anaerobic, hypoxic or other special gas environment applications.

Innovation

The dedicated incubators mean that all BACTRON chambers have an ambient-temperature workspace. This allows users to work inside the chamber for extended periods of time without becoming uncomfortable. Our innovative humidity control system provides a condensation free environment that allows for clear, easy inspection of cultures.

The BACTRON Chamber is constructed of highly resilient materials. The sturdy Plexiglas hood and durable stainless steel body ensure years of long, trouble-free use. The BACTRON line of anaerobic chambers features a unique pressure management system inside the chamber for comfortable use and strict anaerobic conditions. A manometer is located inside the chamber to provide a visual reference and to relieve pressure during use for comfort and convenience.



Quick Tip



Many BACTRON users have learned to save time, and conserve gas by bringing small items into the chamber using the gloveless sleeve system.

Airlock Tray



The interior airlock of the BACTRON II, III, and IV is equipped with a sliding tray to easily bring items into the anaerobic workspace.

Applications:

- Anaerobic Microbiology Assays
- Clinical Microbiology
- Anaerobic Tissue Culture Research
- Anaerobic Bacteriology
- Hypoxic Tissue Culture Research
- Microaerophilic/Hypoxic
- Quality Control
- Packaging
- R&D
- Industrial Research

BACTRON Anaerobic/Environmental Chambers

BACTRON Specification

The Culmination of Over 40 Years of Industry Experience -

Combining our market experience and manufacturing excellence provides a solid foundation for our life science product offering. We are constantly evolving our products and manufacturing technology to keep the SHEL LAB name at the forefront of our industry.

BACTRON Model <i>*-2 denotes 230V</i>	BACTRON I BACTRON I-2	BACTRON II BACTRON II-2	BACTRON III BACTRON III-2	BACTRON IV BACTRON IV-2	BACTRON IV 900 BACTRON IV 900-2
Exterior Dimensions (w x d x h)	48.75" x 31" x 26.5" 124 x 79.5 x 67 cm	61.3" x 31" x 26.5" 155.7 x 79.5 x 67 cm	48.75" x 31.5" x 32.5" 124 x 79.5 x 82.5 cm	88" x 31.25" x 26.5" 223 x 79.5 x 67.25 cm	88.25" x 32.5" x 29.5" 224.2 x 82.6 x 74.9 cm
Interior Dimensions*	33" x 28.5" x 25.25" 83.8 x 72.4 x 64 cm	42.5" x 28.5" x 25" 107.4 x 72.4 x 64 cm	33" x 28.5" x 25.25" 87 x 73.7 x 64.1 cm	42.5" x 28.5" x 25.25" 107.5 x 72.5 x 64 cm	42.5" x 28.5" x 25.25" 107.5 x 72.5 x 64 cm
Volume	14 cu. ft. / 396 L	17.3 cu. ft. / 490 L	12.25 cu. ft. / 346.4 L	17.3 cu. ft. / 490 L	17.3 cu. ft. / 490 L
Air Lock (Access)	9" x 10.75" x 9" 23 x 27.5 x 23 cm	12" x 13.5" x 12" 30.5 x 34.5 x 30.5 cm	9" x 10.75" x 8.5" 23 x 27.5 x 22 cm	12" x 13.5" x 12" 30.5 x 34.5 x 30.5 cm	12" x 13.5" x 12" 30.8 x 42 x 30.8 cm
Volume	0.6 cu. ft. / 17 L	1.3 cu. ft. / 37.8 L	0.6 cu. ft. / 17.3 L	1.4 cu. ft. / 39.6 L	1.4 cu. ft. / 39.6 L
Incubator (w x d x h)	26.5" x 9.25" x 8.25" 67.3 x 23.5 x 21 cm	36" x 8.75" x 8" 91 x 22 x 19.5 cm	27.5" x 8" x 13.5" 70 x 20 x 34 cm	23.5" diam x 18.5" 58.4 diam x 47 cm	Side: See Bactron IV Rear: See Bactron III
Volume	1 cu. ft. / 29 L	1.4 cu. ft. / 45.3 L	1.7 cu. ft. / 52.1 L	5.4 cu. ft. / 153 L	7.1 cu. ft. 205 L
Electrical					
Voltz/Hertz	120-230/50-60	120-230/50-60	120-230/50-60	120-230/50-60	120-230/50-60
Watts	1100	1100	1100	1350	1350
Phase/amps	Single/9	Single/9	Single/9	Single/11	Single/16
Interior Outlets	2** 1amp. Max	2** 1amp. Max	2** 1amp. Max	2** 1amp. Max	2** 1amp. Max
Exterior Outlet, vacuum	5 amp. Max	5 amp. Max	5 amp. Max	5 amp. Max	5 amp. Max
Circuit breakers main/vacuum	2	2	2	2	2
TUV Approved	Yes	Yes	Yes	Yes	Yes
Incubator Performance					
Temp. range	Amb +5° to 70°C	Amb +5° to 70°C	Amb +5° to 70°C	Amb +5° to 70°C	Amb +5° to 70°C
Temp. uniformity	(+/-) .5° C	(+/-) .5° C	(+/-) .5° C	(+/-) 1° C	(+/-) 1° C at 37°C
Weight					
Shipping Weight lb (kg)	480 (218)	610 (277)	480 (218)	760 (345)	760 (345)
With optional stand lb (kg)	710 (323)	760 (346)	710 (323)	1310 (596)	1310 (596)
Miscellaneous					
Petri plate racks included	6	8	7	10	10
Optional stand dimensions	49" x 30" x 30" 124.5 x 76.2 x 78.7 cm	61.5" x 30" x 30" 156 x 76.2 x 78.7 cm	49" x 30" x 30" 124.5 x 76.2 x 78.7 cm	88.5" x 30" x 31" 225 x 76.2 x 78.7 cm	88.5" x 30" x 31" 225 x 76.2 x 78.7 cm
Plate capacities	150	208	308	600 (900 with upgrade)	900

*The height dimension of the interior is a subjective working height. This measurement reflects the dimension from the floor of the chamber to the top of the body without regard for shelves, interfering incubators or the airlock door.

**220 volt units are supplied with one interior outlet. Specifications subject to change without notice.

Catalyst Oven
This accessory oven heats the catalyst cartridge at the correct temperature and duration, so you can be sure your catalysts are always regenerated properly.



CAT180

Optional Accessories

Cuffs 3600502 (L)/3600501 (M)/3600500 (Sml)
 9990514 Sleeve Assembly
 9990515 BAC I & BAC III microscope adapter
 9990535 BAC II microscope adapter
 9990511 BAC IV microscope adapter
 9990516 Stereo microscope assembly
 CAT180 Catalyst Regeneration Oven
 Caster stands are available for each model
 Additional accessories are available at www.shellab.com

BACTRON Anaerobic/Environmental Chambers

The Bactron Product Offering

BACTRON I



The **BACTRON I & II** are very similar units that differ in size but not in performance. The **BACTRON I** is the smallest of the line with a 100 plate capacity. Our most popular seller, the **BACTRON II**, provides a larger workspace and plate capacity.

BACTRON II



The **BACTRON III** uses a rear wall incubator with sliding doors to increase plate capacity to 300. This compact design provides the most incubation room with the smallest footprint.

BACTRON III

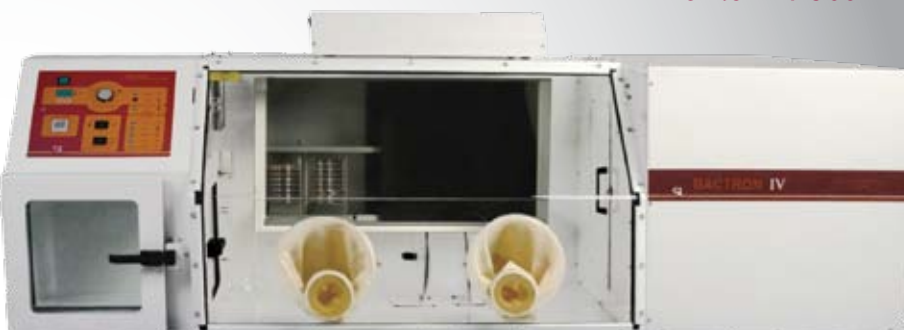


The **BACTRON IV** offers a 600 plate capacity by using a space saving rotating shelf design. Two rear mounted shelves help keep your workspace organized.

BACTRON IV



BACTRON IV 900



The **BACTRON IV 900** has the same specifications as the standard **BACTRON IV** with the addition of a rear wall incubator. With a capacity of 900 plates, this unit is ideal for even the busiest lab.

SHEL LAB *BacBASIC*

Environmental Work Station & Incubator for Anaerobic Applications



The only thing “basic” about the SHEL LAB **BacBASIC** is its reasonable price.

The **BacBASIC** is the ideal, entry level chamber for performance of truly anaerobic microbiology. Move beyond jars and the unnecessary exposure of your anaerobes to deadly oxygen.

Already have an anaerobic chamber?

The **BacBASIC** is the perfect auxiliary chamber option for overflow work, extra plate storage and emergency back-up for your primary chamber!



Ergonomically designed arm port doors offer maximum reach & comfort!*

***Patent Pending**

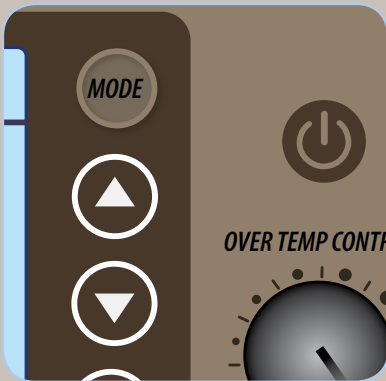


Removable viewing shield for introduction of equipment, cleaning, decontamination or maintenance.

SHEL LAB *BacBASiC*

The SHEL LAB *BacBASiC* offers:

- An ample, ergonomic, user-friendly work station with a space-saving exterior footprint.
- Excellent lighting and visibility.
- A quick-entry, gloveless sleeve system.
- A rapid Auto-Purge Pass Box for introducing Petri plates, specimens and supplies. Purge time is less than 50 seconds.
- Incubated storage capacity for up to 150 Petri plates.
- Incubation temperature range from ambient temperature to 42°C.
- Easy change anatox.



Simple Push Button Operation



Easy Change Anatox & Catalyst Packs



Central Pass Through Box



Interior Auto-Purge Button

For more information on the
SHEL LAB *BacBASiC*:
Call: (503) 640-3000
Go To: www.shellab.com

SHEL LAB *BacBASiC*

Exterior Dimensions (w x d x h)	34.75" x 28" x 29.75" 88.5 x 71 x 75.5 cm
Interior Dimensions (w x d x h)	32.5" x 19" x 21.25" 82.5 x 48.5 x 54 cm
Weight (kg)	230 lbs (104)
Plate Capacity	150
Temperature Range	Ambient to 42°C
Temperature Uniformity	+/- 0.5°C

SHELDON MFG., INC.

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Visit our web site at www.shellab.com

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Low Temperature Incubators • Humidity Test Chambers • Shaking Incubators
Bactron Anaerobic Chambers • Hybridization Ovens • Shaking Water Baths

Constant thinking.
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