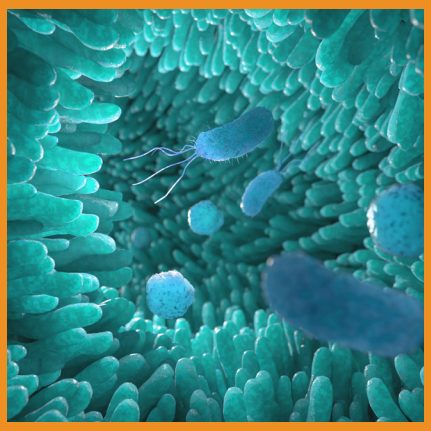
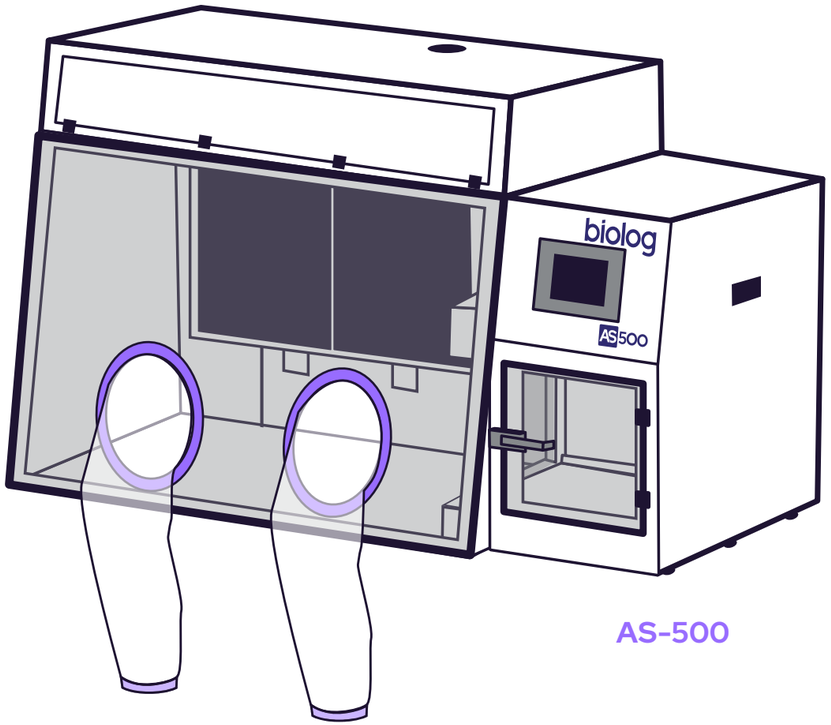


Biolog for Anaerobic Excellence

AS-500 Anaerobic Chamber

Maintaining an Oxygen-Free Environment

Our best-in-class anaerobic chambers provide an oxygen-free work area for the growth and handling of obligate and facultative anaerobic organisms. Our unique InstaSleeve™ technology allows an operator to work with their arms inside the oxygen-free environment, and perform tasks with the same dexterity as they would have on a standard laboratory bench, without exposing the microbes or culture media to oxygen. With flexible configuration options for accommodating multiple researchers or lab instrumentation, the AS-500 chamber can provide oxygen-free comfort for any throughput needs.



AS-500

Unmatched Anaerobic Expertise

Anaerobic organisms play critical roles in health and disease pathology of humans and animals, as well as important roles throughout Earth's ecosystems. Isolating and culturing these fastidious organisms with consistent results requires a specialized environment.

Researchers and clinicians working with anaerobic organisms in any sector benefit from Anaerobe Systems' decades of experience with designing, building, and working in anaerobic chambers.

With the purchase of every chamber, we perform on-site installation and basic user training. Also available is a 2.5 day hands-on lab-based training course. This is a unique way to learn from the experts all the most important considerations for successfully working with anaerobes inside the chamber.

CLINICAL DIAGNOSTICS

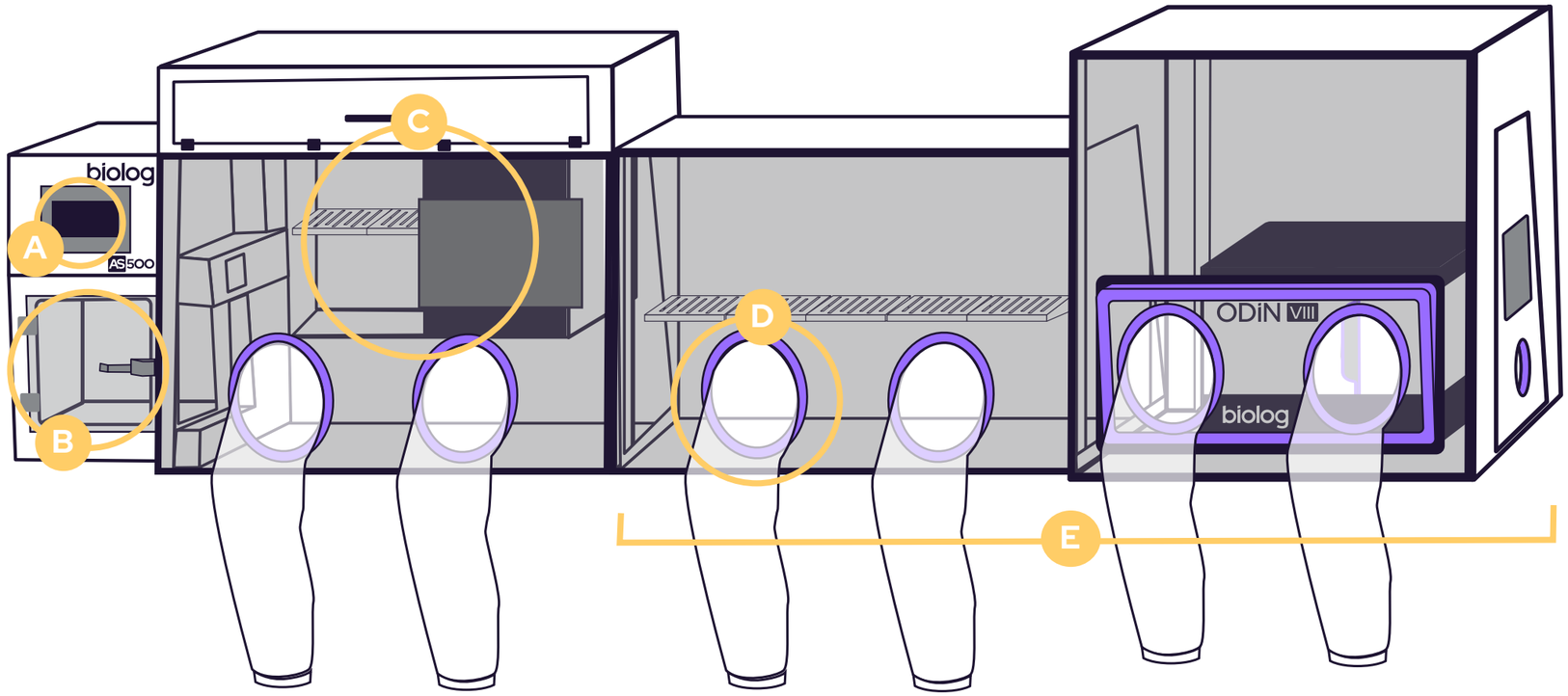
VETERINARY/ANIMAL HEALTH

BASIC RESEARCH

INDUSTRIAL MICROBIOLOGY

Key Features of AS-500

AS-500
with Expansion Module (EX)
and Instrument Module (IMO)



Environmental Conditioning

Circulation system includes oxygen removal, HEPA filtration, hydrogen sulfide and odor removal, as well as excess humidity removal. Palladium catalyst has a built-in heater and does not need to be baked or replaced regularly.

Lab Integration

Data and power ports allow analytical equipment to be used inside the chamber while interfacing with an external computer. An optional touch-screen computer monitor can be installed inside the chamber.

Compact

Smaller footprint while still providing a large and versatile anaerobic work environment.

A Touchscreen Controls

A large LCD touchscreen provides for operator interaction with the chamber to run processes and monitor chamber conditions. A smaller interior touchscreen allows the operator to start a passbox cycle from inside the chamber.

B Airlock

Large vacuumless passbox with automatic sliding inner door and a slide-out tray runs an automatic cycle to remove oxygen, allowing you to bring supplies into the chamber. Can be configured on either side of the chamber.

C Built-in Incubator

500-plate capacity incubator inside the anaerobic work area keeps the rest of the workspace at room temperature. Multiple removable shelves allow for taller items to be incubated.

D InstaSleeve™ Technology

Gloveless design improves sample handling and processing dexterity, while providing instant access to the chamber without waiting for a sleeve purge cycle. Positive pressure inside the chamber and arm seals ensure a continuous anaerobic environment with easy and comfortable access, even allowing for small items and supplies to be brought directly into the chamber. Change the sleeve cuff size as needed for different operators, while maintaining an anaerobic environment.

E Modular Expansion

Additional continuous workspace can be attached to the chamber, to provide space for a second person to work in the chamber, or to accommodate additional analytical equipment. The Instrument Module adds increased floor-space and height as well as an additional armport and viewing window on the side of the chamber for increased access and visibility for larger equipment.

Monitoring and Alarms

Sensors monitor a variety of chamber functions to notify you when systems are not functioning optimally, including oxygen level, gas usage, incubator temperature, gas line pressure, incubator and circulation fans, and catalyst activity.

Ergonomic Design

Bright LED lighting, adjustable and removable shelves, and large oval armports all lead to efficient and comfortable work conditions inside the chamber.

Durable

Rigid metal and plexiglass construction is easy to clean, and holds up for 15+ years

Create Your Configuration

Part	Options
Main chamber	Passbox on the right or left (AS-500 or AS-500-L)
Modules	Expansion Module (AS-500-EX) Instrument Module (AS-500-IM or –IMO, with different front panels) Up to 2 modules can be attached to each main chamber
Multi-chamber configurations	Join 2 chambers together for more incubator space Up to 4 modules can be attached together between 2 chambers

AS-500 SPECIFICATIONS

Chamber Dimensions & Weight		Airlock / Passbox	
Exterior Dimensions	Std: 61" W x 32" D x 39" H (155 cm W x 81 cm D x 99 cm H) EX: 43" W x 32" D x 32" H (109 cm W x 81 cm D x 81 cm H) IM(O): 41" W x 41" D x 42" H (104 cm W x 104 cm D x 107 cm H)	**Outer Opening Dimensions**	11.2" W x 11.6" H (28.4 cm W x 29.5 cm H)
Inside Work Surface	Std: 42" W x 28" D x 30" H (107 cm W x 71 cm D x 76 cm H) EX: 42" W x 28" D x 30" H (107 cm W x 71 cm D x 76 cm H) IM(O): 36" W x 39" D x 39" H (91 cm W x 99 cm D x 99 cm H)	**Inner Opening Dimensions**	11.2" W x 11.8" H (28.4 cm W x 30.0 cm H)
Incubator Height Above Floor	10.5" (26.7 cm)	**Airlock Interior Dimensions**	14" W x 11" D x 12" H (36 cm W x 28 cm D x 30 cm H)
Storage	Std: 2 adjustable shelves EX: 3 large adjustable shelves	**Cycle Time**	3 minutes
Armports	10" (25cm) dia. Equivalent	**Cycle Operation**	Vacuumless, auto cycle
Weight	Std: 300 lbs (136 kg) EX: 100 lbs (45 kg) IM(O): 100 lbs (45 kg)	**Accessibility**	Slide out tray & automatic motorized inner door
Incubator		**Electrical**	
Interior Dimensions	26" W x 12" D x 15.75" H (66 cm W x 30 cm D x 40 cm H)	**Voltage**	120-240VAC, 50/60Hz
Plate Capacity	500 petri plates	**Power**	1,300 watts
Temperature Range	Room Temp to 45 °C	**Interior Power**	Standard 4 120-240 VAC outlets (4A max) EX/IM/IMO 3 additional 120-240 VAC outlets (10A max)
Temperature Control	+/- 1.0 °C throughout 0.1 °C setpoint resolution	**Power Cable**	Country and voltage appropriate
Storage	3 removeable shelves	**Interior Connections**	HDMI, USB, Ethernet
Monitoring	External display with alarms	**Lighting**	Integrated LED lights

Optional Parts and Services

	Part Number for AS-500	Short Description
MODULES	**AS-500-L**	AS-500 with reverse configuration, with passbox on left
	AS-500-EX	Expansion Module for AS-500; adds continuous work area measuring 42"W x 28"D x 30"H
	AS-500-IM	Instrument Module for AS-500; adds continuous work area measuring 36"W x 39"D x 39"H
	AS-500-IMO	Instrument Module for AS-500 with special front panel for Odin VIII; adds continuous work area measuring 36"W x 39"D x 39"H
BENCHES*	**AS-500-HYBENCH**	Hydraulic bench with adjustable up/down lift function for standard AS-500 chamber
	AS-500-BENCH-29 or -36	Bench for standard AS-500 chamber, fixed at desk-height (29") or counter-height (36")
	AS-500-MBENCH-29 or -36	Bench for AS-500 modules, fixed at desk-height (29") or counter-height (36")
SERVICES	**AS-CHMB-INSTALL**	Installation and on-site training
	AS-CHMB-AM	Preventative Maintenance service
	AS-500-EW1	1 year extended warranty; must be quoted with AS-CHMB-PM1
	AS EXTD TRAINING	2.5 day hands-on lab-based anaerobic bacteriology course
ACCESSORIES	**UPG-HYPOX****	Enables hypoxic control of atmosphere in any AS-500 chamber from 0.1% to 10% Oxygen (+/- 0.1%)
	AS-500-02	Integrated Touchscreen Monitor (15.6") mounted inside chamber
	B900312	Annual Preventative Maintenance parts for the AS-500 Chamber including: 1 pair sleeves, 6 pairs cuffs, chamber cleaner, Anascrub, HEPA filter
	B900313	Annual Preventative Maintenance parts for AS-500 Modules including: 1 pair sleeves, 6 pairs cuffs
	B08115-XX	1 pair Butyl cuffs attached at end of sleeves; specify size in part number: -7S (small), -8S (medium), -9L (large); replace every 1-2 months
	B08108-10W	1 pair sleeves; replace every 9-12 months
	AS-972	Benzalkonium Chloride Disinfectant for cleaning chamber (1 gal)
	C500-850	HEPA Filter Element; replace annually
	B900310	Odor and H2S Filter granules (1 kg); purchase annually
	C100702	Palladium Catalyst replacement pellets, per gram. Replace every 2-3 years with 200 g.

For customers outside the US and Canada, please contact **sales@biolog.com for shipping information.*

***For field upgrades to existing AS-500 chambers, please contact **info@biolog.com** for more details*

For additional chamber parts & accessories details, please visit **www.biolog.com/chamber-parts-accessories**

MKT 139 Rev B

Biolog for Anaerobic Excellence

Find out how at biolog.com

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