

EN 12469 Biosafety Class II, Type A2 - Dual Fan System

Specifically designed to comply with European laboratory safety requirements. Protects laboratory personnel, the environment, and sensitive biological processes involving potentially hazardous biological agents.

Dual ECM fan system with dedicated inflow and downflow fans, providing quiet, energy-efficient operation and automatic VAV-based compensation for filter loading

Control system: The cabinet is operated via an intuitive 10.1" touchscreen control system that provides real-time status information, critical safety alerts, and preventive maintenance reminders.

The cabinet is CE certified and complies with EN 12469 requirements.

- **Safety sash stop mechanism**
- **Protective intake grille**
- Two service ports for gas and vacuum connections
- Height-adjustable stand with casters and ergonomic armrest
- Optional - motorized stand
- Two universal electrical outlets located on the right side wall
- Inflow and downflow alarms, sash position alarm, critical safety alarm, filter status alarm, and preventive maintenance reminders
- Real-time filter status monitoring and display
- Real-time display of date, time, temperature, and humidity
- Germicidal UV-C (254 nm) lamp with safety interlock and programmable timer (1-999 minutes)
- Easily accessible DOP/PAO filter integrity test ports
- Protective paper grille
- Unique Active Pressure Sash Gasket system



EN 12469 Biosafety Class II, A2 - Dual Fan System



CLASS II TYPE A2 BIOLOGICAL SAFETY CABINET - EUROPEAN SERIES

Spec/ Model	BO-090-D	BO-120-D	BO-150-D	BO-180-D
Outer Dimensions W x D x H	36 * 31.5 * 57" 915 x 800 x 1450 mm	48 * 31.5 * 57" 1220 x 800 x 1450 mm	60 * 31.5 * 57" 1525 x 800 x 1450 mm	72 * 31.5 * 57" 1830 x 800 x 1450 mm
Work Area (W x D x H)	32.6 * 24.4 * 25.6" 830 x 620 x 650 mm	44.7 * 24.4 * 25.6" 1135 x 620 x 650 mm	56.7 * 24.4 * 25.6" 1440 x 620 x 650 mm	68.5 * 24.4 * 25.6" 1745 x 620 x 650 mm
Front Sash	1/4" (6 mm) tempered safety glass maximum opening and 7.87" (200mm) working height (550mm) "21.7			
Certifications	CE Certified Biological Safety Cabinet complying with EN 12469 and AS 2252.2:2025			
Control system	Advanced microprocessor-based control system with a 10.1" color touchscreen display, air velocity monitoring, sash position monitoring, UV and lighting control, electrical outlet control, multilingual interface, metric/imperial unit selection, and optional IPMS integration			
Fan System	Dual ECM fan system with dedicated inflow and downflow fans, providing quiet operation and automatic VAV-based compensation for filter loading			
Performance Data	All Models			
Downflow Velocity	66 fpm (0.33 m/s)			
Inflow Velocity	100 fpm (0.50 m/s)			
Airflow Pattern	70% downflow recirculation, 30% exhaust			
Cleanliness Level	ISO Class 5 (Class 100) in accordance with ISO 14644-1 and US Federal Standard 209E			
Cabinet Construction	Chemical-resistant epoxy-coated steel exterior with Stainless Steel 304 interior work zone			
Adjustable Stand Height	27.5", 31.4", or 35.4" (70, 80, or 90 cm)			
Power Supply	115/230 VAC, 50/60 Hz, Single-Phase			
Noise Level*	<58 dBA	<61 dBA	<62 dBA	<62 dBA
Illumination	1,000 lux LED lighting system and integrated germicidal UV-C lamp (254 nm)			
Filtration	Dual ULPA U15 filters with an efficiency of 99.9995% at 0.1 µm			

* Noise level measured at 48" (1.2 m) above the work surface under standard operating conditions.

