



TOPAIR
CLEAN AIR SOLUTIONS

Biosafety Cabinets
Class II A2
Available in Canada
from



BETATEK INC.
Instrumentation Superbly Supported
L'instrumentation à son meilleur

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Polypropylene Biosafety Cabinet Class II A2



TopAir's Class II A2 Biological Safety Cabinet protects lab staff, the environment and sensitive work processes in which biological agents are applied.

The cabinet offers a high level of contamination protection, based on two advanced ULPA filters operating at a typical efficiency of @99.9995% @ 0.1 um with an airflow pattern of 70% downflow and 30% exhaust.

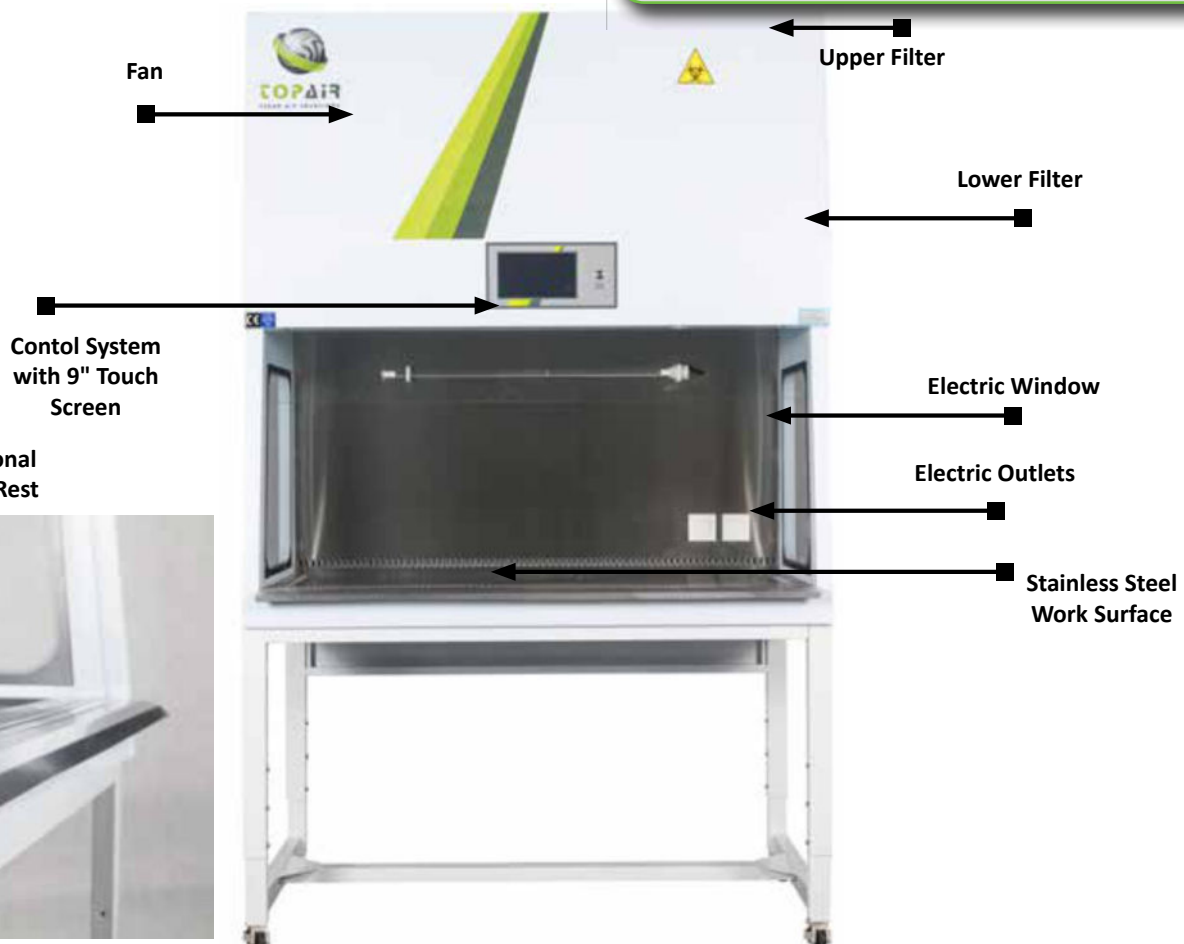
The cabinet is made of robust, easily-cleaned anti-corrosive polypropylene with high resistance to acids and chemicals, which is optimal for clean rooms.

The cabinet is equipped with a smart, safe and elegant touch-screen control system that protects the operator and provides alerts for periodic maintenance actions and devices' replacement.

All components have low energy consumption, LED lighting and an EC fan motor. The system also has a programmable "green" night mode, that shuts down all unnecessary electricity consumption and sets vital components at the required safety level.

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

- Polypropylene structure - high chemical resistance
- Tempered glass side walls, 304 stainless steel work surface & spill tray
- Two ULPA H15 filters @99.9995% @ 0.1 um
- High efficiency quiet EC fan, 2 integrated taps and 2 electrical outlets
- Smart 9" color touch screen control system
- Maintenance & technical faults alarms
- Timers and counters management screen
- Germicidal water proof UV light system and safety interlock mechanism
- 6 mm triplex layer safety front glass window with electrical motion system
- Programmable economical night mode
- Airflow Pattern: 70% circulation, 30% exhaust
- Economical LED light
- Adjustable stand, arm rest
- **ISO 5/CLASS 100 cleanliness level according to ISO 14644-1 & USA Federal Standard 209E**
- **CE certified, complies with EN 12469**



Models

Spec/ Model	BO-090-PP	BO-120-PP	BO-150-PP	BO-180-PP
Outer Dimensions W x D x H	915 x 800 x 1500 mm 36 x 31.5 x 59"	1220 x 800 x 1500 mm 48 x 31.5 x 59"	1525 x 800 x 1500 mm 60 x 31.5 x 59"	1830 x 800 x 1500 mm 72 x 31.5 x 59"
Workspace (W x D x H)	835 x 600 x 640 mm 32.8 x 23.6 x 25.2"	1135 x 600 x 640 mm 44.7 x 23.6 x 25.2"	1440 x 600 x 640 mm 57 x 23.6 x 25.2"	1715 x 600 x 640 mm 67.5 x 23.6 x 25.2"
Front Sash Max Opening	480 mm / 18.9"			
Production/ Test Standard	CE / In Accordance with EN12469			
Downflow Velocity	0.33 m/s, 60 FPM			
Inflow velocity	0.5 m/s, 100 fpm			
Airflow pattern	70% circulation, 30% exhaust			
Cleanliness level	Class 100/ISO 5			
Hood Material	Welded white polypropylene structure. 304 stainless steel Interior. Options for windowless sides or a 316 stainless steel structure			
Adjustable Stand Heights	70/80/90 cm			
Noise (Tested 20 cm from the work table, 1.2m above ground)	<56dB	<62dB	<63dB	<63dB
Power Supply	115 / 230V, 50/60 Hz, Single phase			
Illumination	800 LUX, Eco-friendly LED lighting			
Filters	ULPA H15 Efficiency @99.9995% @ 0.1 um			

IPMS - Biosafety Cabinet with Intergrated Particle Monitoring System

TopAir Systems introduces the IPMS - a biosafety cabinet with an integrated particles detection system.

The IPMS measures particle concentration in real time, monitoring the cleanliness level 24/7. Its display clearly indicates whether or not the cleanliness level complies with ISO-5, and alerts when the workspace has been contaminated and needs to be serviced.

The IPMS smart algorithm processes data provided by an advanced built-in sensor, and displays a reliable outcome.

IPMS provides critical real-time information on the air quality within the workspace, prevents cross-contamination, and ensures constant, full standard compliance.

The IPMS is an unprecedented solution that can transform the future of biological processes in the industry.

- IPMS integrated monitoring probe with detection capability of ≤ 0.3 -micron particles
- Continuous particle monitoring for compliance with ISO 5 cleanliness (voice, screen, red light alarm)
- Corrosion-free, chemicals-resistant polypropylene structure
- 304 ss single piece worktop with sump, autoclave, compatible and 304ss internal back
- 6 mm triplex glass motorized sash & sash position alarm
- 6 mm tempered glass side windows
- User-friendly full touch multilingual 10.1" screen.
- ULPA filters U15 at a typical efficiency of 99.9995% @ 0.1 μm
- VAV smart system for auto airflow adjustment to filter load
- EN-12469 certified (BO-120-PP model), CE certified
- Filter status monitoring range - 0-100%.
- Dual air velocity sensor system with stabilized, safe airflow monitoring and control



Spec/ Model	BO-090-PP-IPMS	BO-120-PP-IPMS	BO-150-PP-IPMS	BO-180-PP-IPMS
External size W x D x H	915 x 800 x 1500 mm 36 x 31.5 x 59"	1220 x 800 x 1500 mm 48 x 31.5 x 59"	1525 x 800 x 1500 mm 60 x 31.5 x 59"	1830 x 800 x 1500 mm 72 x 31.5 x 59"
Workspace (W x D x H)	835 x 600 x 640 mm 32.8 x 23.6 x 25.2"	1135 x 600 x 640 mm 44.7 x 23.6 x 25.2"	1440 x 600 x 640 mm 57 x 23.6 x 25.2"	1715 x 600 x 640 mm 67.5 x 23.6 x 25.2"
Electric front sash	6 mm tempered glass Clear visibility -23" (580mm) / Sash max opening-18.9" (480mm) / Working Height – 8" (200mm) /			
Certification	CE/ EN-12469 (BO-120-PP)			
Control	10.1 user friendly full touch microprocessor control, multilingual, metric and imperial			
Airflow	70% circulation/30% exhaust, downflow-66 FPM (0.33ms)/ inflow-100 fpm (0.5 ms)			
Filters	ULPA U15 efficiency @99.9995%@0.1 um			
Cleanliness level	Class 100/ISO 5			
Safety	Dual Air Velocity sensor and alarm (chamber red light), particle contamination alarm (red light), sash alarm, filter alarm, UV replacement, periodic service alarm			
Hood material	Welded white polypropylene structure. 304 stainless steel Interior. options for windowless sides or a 316 stainless steel structure			
Adjustable stand height	70/80/90 cm including anti-vibration leveling legs and casters Optional: electrical height adjustment, heavy-duty stand			
Noise - per EN-12469	<52dB	<52dB	<54dB	<60dB
Electric consumption	2 AMP	2 AMP	4 AMP	4 AMP
UV with interlock	Waterproof 254nm 25w	Waterproof 254nm 25w	Waterproof 254nm 50w	Waterproof 254nm 50w
Lights	Eco-friendly LED lighting average >1000lux/ chamber red light alarm			

Metal-Free Polypropylene Biosafety Cabinet Class II A2



TopAir's Full-Polypropylene Biosafety Cabinet Class II A2 protects lab staff, the environment and sensitive work processes in which biological agents are applied.

The product offers a high level of contamination protection, based on two advanced ULPA filters operating at a typical efficiency of @99.9995% @ 0.1 um with an airflow pattern of 70% downflow and 30% exhaust.

The cabinet structure is 100% polypropylene, including all components, both external and internal. The robust, easily-cleaned anti-corrosive polypropylene offers high resistance to acids and chemicals, which is optimal for clean rooms.

The cabinet is equipped with a smart, safe and elegant touch-screen control system that protects the operator and provides alerts for periodic maintenance actions and devices' replacement.

All components have low energy consumption, LED lighting and an EC fan motor. The system also has a programmable "green" night mode, that shuts down all unnecessary electricity consumption and sets vital components at the required safety level.

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

- 100% Polypropylene structure - high chemical resistance
- Tempered glass side walls
- Two ULPA H15 filters @99.9995% @ 0.1 um
- High efficiency quiet EC fan, 2 integrated taps and 2 electrical outlets
- Smart 9" color touch screen control system
- Maintenance & technical faults alarms
- Timers and counters management screen
- Germicidal water proof UV light system and safety interlock mechanism
- 6 mm triplex layer safety front glass window with electrical motion system
- Programmable economical night mode
- Airflow Pattern: 70% circulation, 30% exhaust
- Economical LED light, adjustable stand
- **ISO 5/CLASS 100 cleanliness level according to ISO 14644-1 & USA Federal Standard 209E**
- **CE certified, complies with EN 12469**



Models

Spec/ Model	BO-090-MF	BO-120-MF	BO-150-MF	BO-180-MF
Outer Dimensions W x D x H	915 x 800 x 1500 mm 36 x 31.5 x 59"	1220 x 800 x 1500 mm 48 x 31.5 x 59"	1525 x 800 x 1500 mm 60 x 31.5 x 59"	1830 x 800 x 1500 mm 72 x 31.5 x 59"
Workspace (W x D x H)	835 x 600 x 630 mm 32.8 x 23.6 x 24.8"	1135 x 600 x 630 mm 44.7 x 23.6 x 24.8"	1440 x 600 x 630 mm 57 x 23.6 x 24.8"	1715 x 600 x 630 mm 67.5 x 23.6 x 24.8"
Front Sash Max Opening	480 mm / 18.9"			
Production/ Test Standard	CE / In accordance with EN12469			
Downflow Velocity	0.33 m/s, 60 FPM			
Inflow velocity	0.5 m/s, 100 fpm			
Airflow pattern	70% circulation, 30% exhaust			
Cleanliness level	Class 100/ISO 5			
Hood Material	Welded white polypropylene structure (internal and external)			
Noise (Tested 20 cm from the work table, 1.2m above ground)	<52dB	<53dB	<57dB	<57dB
Power Supply	115 / 230V, 50/60 Hz, Single phase			
Illumination	800 LUX, Eco-friendly LED lighting			
Filters	ULPA H15 Efficiency @99.9995% @ 0.1 um			

Metal Biosafety Cabinet Class II A2



TopAir's Class II A2 Biological Safety Metal Cabinet protects lab staff, the environment and sensitive work processes in which biological agents are applied.

The cabinet offers a high level of contamination protection, based on two advanced ULPA filters operating at a typical efficiency of @99.9995% @ 0.1 um with an airflow pattern of 70% downflow and 30% exhaust.

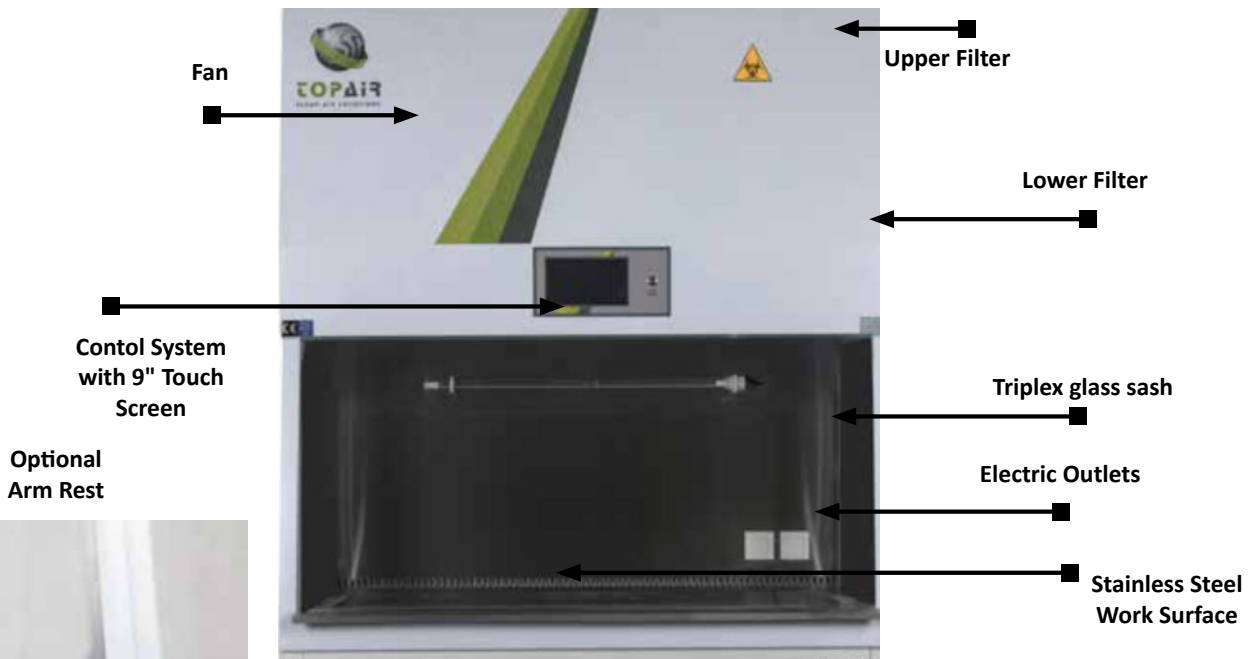
The cabinet consists of a robust epoxy coated metal structure with a stainless steel interior coating which is optimal for clean rooms.

The cabinet is equipped with a smart, safe and elegant touch-screen control system that protects the operator and provides alerts for periodic maintenance actions and devices' replacement.

All components have low energy consumption, LED lighting and an EC fan motor. The system also has a programmable "green" night mode, that shuts down all unnecessary electricity consumption and sets vital components at the required safety level.

The cabinet is CE certified, and complies with NSF49.

- Epoxy coated metal structure with a stainless steel interior coating
- 304 stainless steel interior & spill tray
- Two ULPA H15 filters @99.9995% @ 0.1 um
- High efficiency quiet EC fan, 2 integrated taps and 2 electrical outlets
- Smart 9" color touch screen control system
- Maintenance & technical faults alarms
- Timers and counters management screen
- Germicidal water proof UV light system and safety interlock mechanism
- 6 mm triplex layer safety front glass window
- Manual counter weight system
- Airflow Pattern: 70% circulation, 30% exhaust
- Economical LED light
- Adjustable stand, arm rest
- **ISO 5/CLASS 100 cleanliness level according to ISO 14644-1 & USA Federal Standard 209E**
- **CE certified, complies with NSF49**



Models

Spec/ Model	BO-090-NS	BO-120-NS	BO-150-NS	BO-180-NS
Outer Dimensions W x D x H	1040 x 830 x 1500 mm 41 x 32.7 x 59"	1340 x 830 x 1500 mm 52.5 x 32.7 x 59"	1640 x 830 x 1500 mm 64.5 x 32.7 x 59"	1940 x 830 x 1500 mm 76.4 x 32.7 x 59"
Workspace (W x D x H)	920 x 660 x 711 mm 36 x 26 x 28"	1220 x 660 x 711 mm 48 x 26 x 28"	1520 x 660 x 711 mm 60 x 26 x 28"	1820 x 660 x 711 mm 71.7 x 26 x 28"
Front Sash Max Opening	550 mm / 21.7"			
Front Sash Working Height	250 mm/10"			
Production/ Test Standard	CE / In Accordance with NSF49			
Downflow Velocity	0.33 m/s, 60 Fpm			
Inflow velocity	0.5 m/s, 100 fpm			
Airflow pattern	70% circulation, 30% exhaust			
Cleanliness level	Class 100/ISO 5			
Hood Material	Epoxy coated metal 304 stainless steel interior			
Adjustable Stand Heights	70/80/90 cm, 27.5/ 31.4/ 35.4"			
Noise (Tested 20 cm/8" from work table, 1.2m/48" above ground)	<56dB	<62dB	<63dB	<63dB
Power Supply	115 / 230V, 50/60 Hz, Single phase			
Illumination	800 LUX, Eco-friendly LED lighting			
Filters	ULPA H15 Efficiency @99.9995% @ 0.1 um			



Ecoline Biosafety Cabinet Class II A2



NEW!

TopAir's Ecoline Biosafety Cabinet protects lab staff, the environment and sensitive work processes in which biological agents are applied.

A compact, especially cost-effective benchtop unit, the cabinet offers a high level of contamination protection, based on two advanced ULPA H15 filters operating at an efficiency of @99.9995% @ 0.1 um, with an airflow pattern of 70% downflow and 30% exhaust.

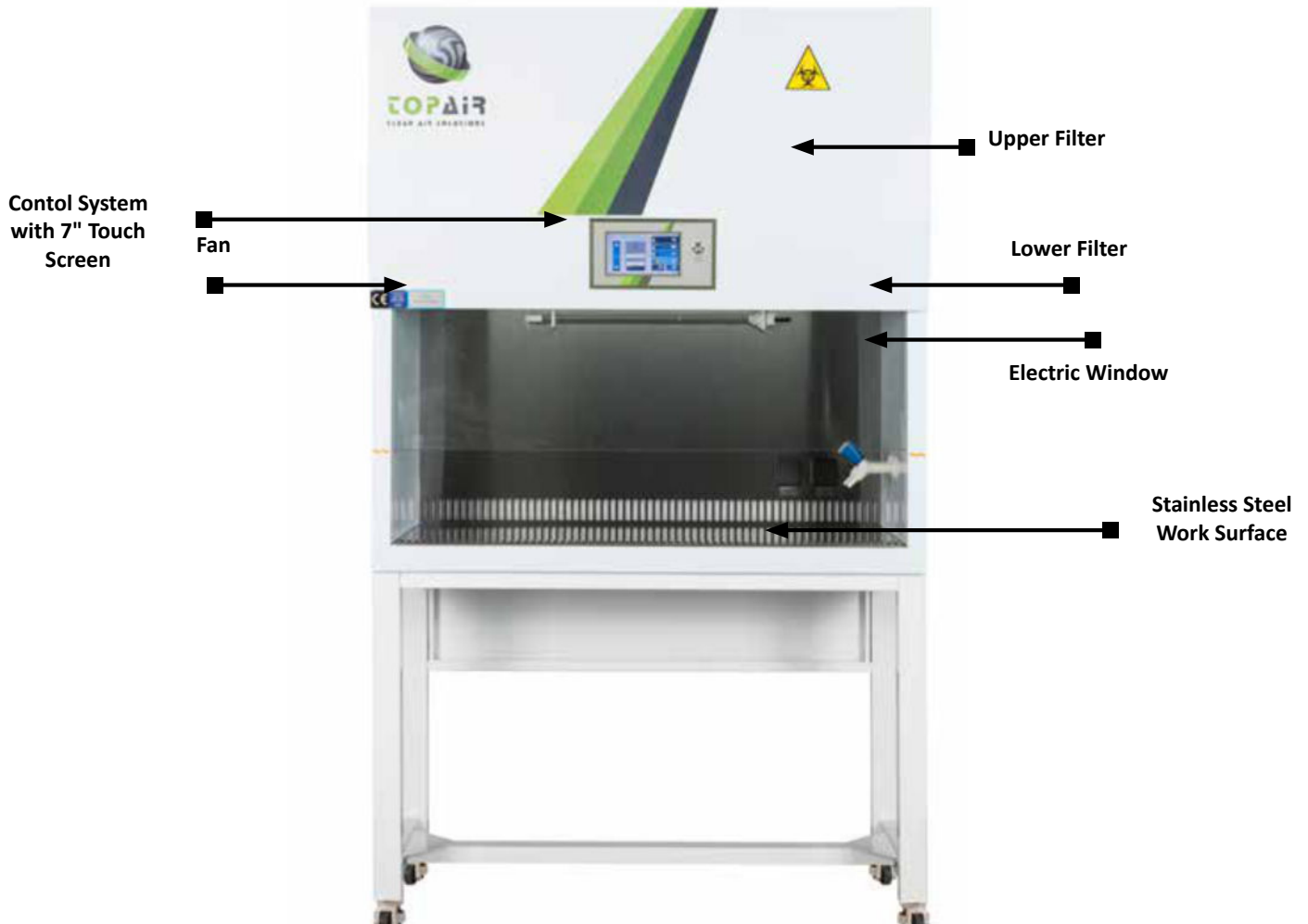
The cabinet is made of robust, easily-cleaned anti-corrosive polypropylene with high resistance to acids and chemicals, which is optimal for clean rooms.

The cabinet is equipped with a smart, safe and elegant touch-screen control system that protects the operator and provides alerts for low airflow levels.

All components have low energy consumption, LED lighting and fan.

The cabinet is CE certified.

- Polypropylene structure with high chemical resistance
- 304 stainless steel work surface & spill tray
- Two ULPA H15 filters at Efficiency @99.9995% @ 0.1 um
- High efficiency quiet EC fan, 2 integrated taps and 2 electrical outlets
- Smart 7" color touch-screen control system
- Technician calibration screen
- Faults alarms
- Germicidal UV light system and safety interlock mechanism
- 6 mm triplex layer safety front glass window with electrical motion system
- Economical LED light
- **CE certified**



Models

Spec/ Model	ECO-BO-080-PP	ECO-BO-120-PP	ECO-BO-150-PP	ECO-BO-180-PP
Outer Dimensions W x D x H	800 x 680 x 1220 mm	1200 x 680 x 1220 mm	1500 x 680 x 1220 mm	1800 x 680 x 1220 mm
	31.5 x 26.7 x 48"	47.2 x 26.7 x 48"	59 x 26.7 x 48"	70.8 x 26.7 x 48"
Workspace (W x D x H)	720 x 500 x 570	1120 x 500 x 570	1420 x 500 x 570	1720 x 500 x 570
	28.3 x 19.7 x 22.4"	44 x 19.7 x 22.4"	55.9 x 19.7 x 22.4"	67.7 x 19.7 x 22.4"
Front Sash Max Opening	400 mm / 15.7	400 mm / 15.7	400 mm / 15.7"	400 mm / 15.7"
Filter Type	ULPA H15 Efficiency @99.9995% @ 0.1 um	ULPA H15 Efficiency @99.9995% @ 0.1 um	ULPA H15 Efficiency @99.9995% @ 0.1 um	ULPA H15 Efficiency @99.9995% @ 0.1 um
Downflow Velocity	0.26 m/s, 52 fpm	0.26 m/s, 52 fpm	0.26 m/s, 52 fpm	0.26 m/s, 52 fpm
Inflow velocity	0.44 m/s, 88 fpm	0.44 m/s, 88 fpm	0.44 m/s, 88 fpm	0.44 m/s, 88 fpm
Airflow pattern	70% circulation, 30% exhaust	70% circulation, 30% exhaust	70% circulation, 30% exhaust	70% circulation, 30% exhaust
Cleanliness level	Class 100/ISO 5			
Cabinet Material	Welded white polypropylene structure with stainless still 304 worktop			
Noise (Tested 20 cm from the work table, 1.2m above ground)	<60dB	<66dB	<66dB	<66dB
Power Supply	115/230V, 50/60 Hz, Single phase			
Illumination	800 LUX, Eco-friendly LED lighting			
Filters	ULPA H15 Efficiency @99.9995% @ 0.1 um			

Optional Accessories

MODEL	ACCESSORY
ECO-BO-120-ST	Metal Stand
ECO-BO-080-ST	Metal Stand
ECO-BO-ST-CA	Set of Casters

Safety Exhaust Box - Biosafety Class II A2

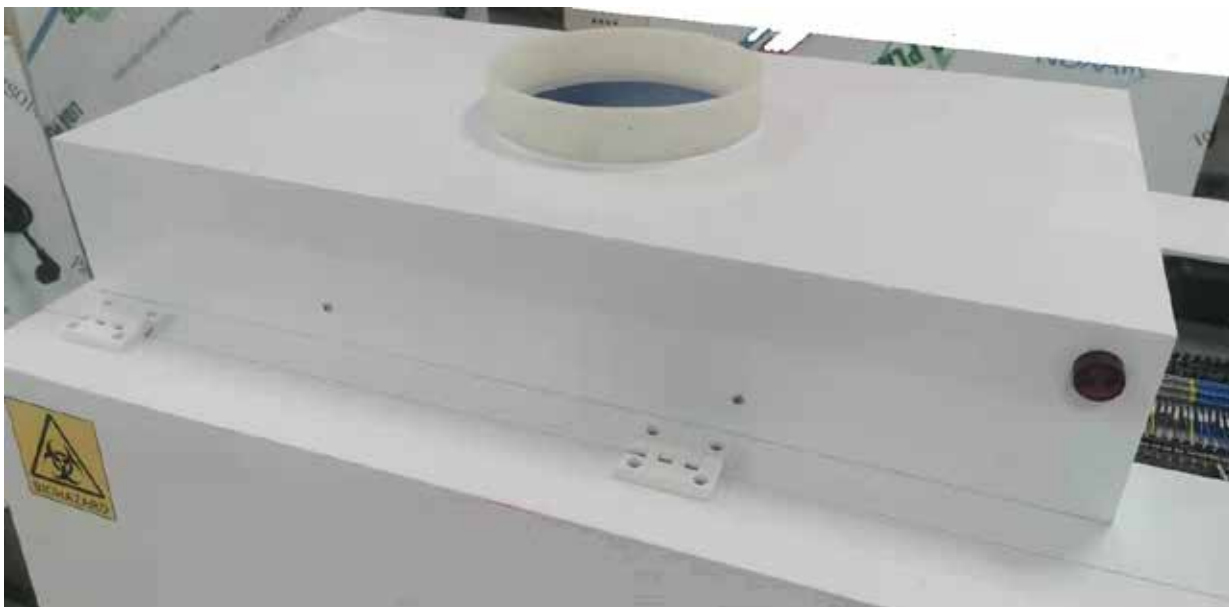


The safety exhaust box is a removable device that increases the safety of the Biosafety cabinet Class II A2, by connecting the exhaust airflow to an extraction system and channeling the filtered air out of the building.

- Outlet connection - 250 mm diameter
- The system requires an external exhaust fan with a VFD/manual damper.

The unit is equipped with a one-way valve that prevents the release of air from the Biosafety cabinet into the lab environment. It allows fresh air to be mixed within the box and maintains the original inflow-downflow balance.

In the case of a failure in the external extraction system, the inflow display will show a drop in the airflow rate and an audio-visual safety alarm will be activated on the Biosafety cabinet screen and on the box display.



Models

Spec/ Model	BO-SEB-90	BO-SEB-120	BO-SEB-150	BO-SEB-180
	Safety Exhaust Box for BO-090-PP	Safety Exhaust Box for BO-120-PP	Safety Exhaust Box for BO-150-PP	Safety Exhaust Box for BO-180-PP