

# TOPAIR SYSTEMS

## About TopAir Systems

TopAir Systems is a manufacturer and provider of superior clean air and containment solutions. TopAir's clean air solutions are used in laboratories and manufacturing facilities within chemical/biological plants, universities, research & development facilities and hospitals, as well as in the electronics, semiconductor and pharmaceutical industries. The company has a worldwide customer base, with active sales in Europe, North & South America and Africa.

At TopAir Systems customer satisfaction comes first: The company exercises a flexible approach, customizing products in accordance with customer requests regarding dimensions, technical specifications and accessories. Moreover, TopAir Systems offers a variety of products and models to accommodate and cover customer needs. Finally, the company develops cost-effective solutions of the highest quality, to ensure customer satisfaction.

Product safety is a top priority: The most stringent guidelines are implemented to ensure the wellbeing of lab and manufacturing personnel, and the products comply with the relevant international certifications.

**All products can be ordered with PPS OR ESD protection.**



# 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.

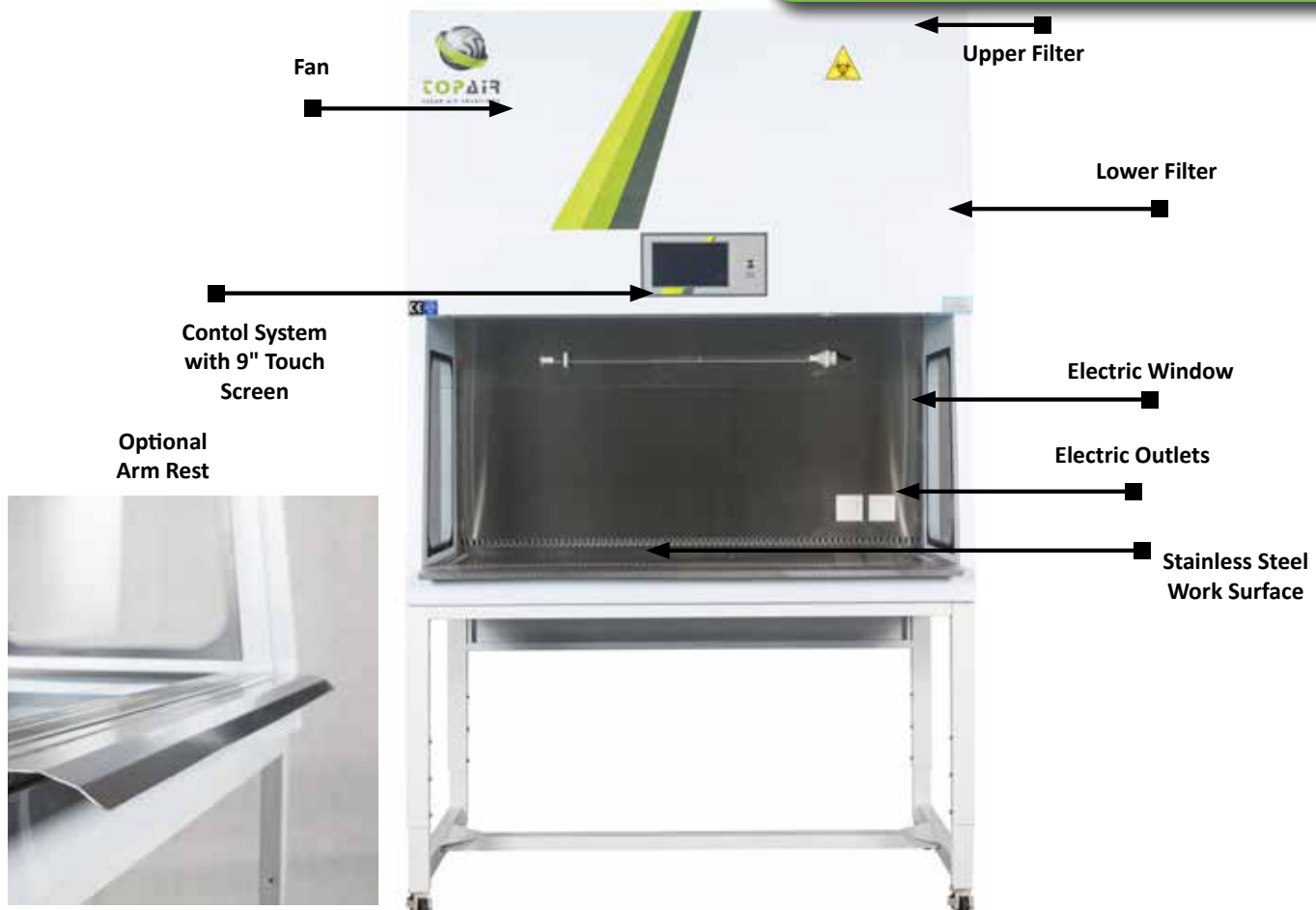
The cabinet is made of robust, easily-cleaned anti-corrosive polypropylene with high resistance to acids and chemicals, which is optimal for clean rooms.

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			



# TopAir Systems

BIOSAFETY CABINET WITH  
INTEGRATED PARTICLES  
MONITORING SYSTEM: **IPMS**



**WORLD  
PREMIERE**



# INTEGRATED PARTICLES MONITORING SYSTEM FOR BIOSAFETY CABINET: IPMS

## TRANSFORMING CLEANLINESS MONITORING IN BIOLOGICAL PROCESSES

### FOR THE FIRST TIME EVER:

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

## REAL-TIME 24/7 CLEANLINESS MONITORING

Previously, in order to meet ISO-5 cleanliness level standard in the workspace, companies either tested the hood with an external particle counter every few months; or sourced a large, expensive particle counter for daily testing.

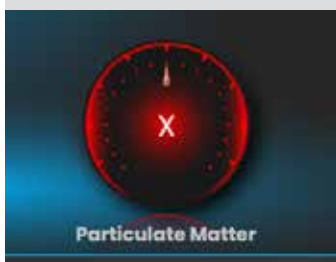
TopAir Systems' Integrated Particles Monitoring System (IPMS) offers the game-changing advantage of constant cleanliness monitoring with an integrated mechanism.

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.



### RED LIGHT

Level of cleanliness is lower than the ISO-5 requirement within the workspace.



### GREEN LIGHT

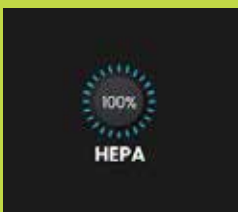
Level of cleanliness is equal or better than the ISO-5 requirement within the workspace.

# 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 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 device replacement.

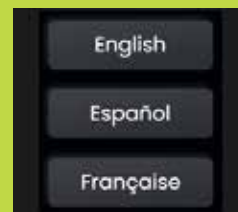
- Air velocity and fan alarm (voice, screen, red light)
- Germicidal 254 nm water-protected UV light with a programmable electronic timer
- UV Interlock safety system
- Energy efficient quiet ECM fan
- Energy-efficient LED light with average >1000 Lux
- 3-height adjustable metal stand with casters and adjustable leveling legs
- Annual service timer and alarm.
- Temperature & humidity monitoring
- Metric and imperial measurements capabilities
- Filter integrity test ready (DOP)
- 304 ss armrest
- 2 X ports for taps or cables
- 2 X multinational electric outlets IP44- max load 3 AMPS per socket (6 AMPS total)
- IPMS integrated monitoring probe with detection capability of  $\leq 0.3$ -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 um
- 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



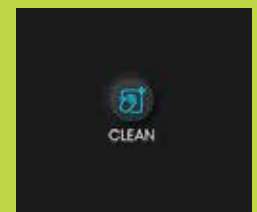
Timers for visual countdown filter replacement, UV, etc.



Accurate temperature and humidity display



Languages – English, French, Spanish



Clickable Icon for cleaning the screen



# INNOVATIVE TECHNOLOGY FOR YOUR LAB

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"
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Electric front sash	6 mm tempered glass Clear visibility -23" (580mm) / Sash max opening-18.9" (480 mm) / 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 (0.33 ms)/ 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			

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# 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.

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- 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	B0-090-PP-IPMS	B0-120-PP-IPMS	B0-150-PP-IPMS	B0-180-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"
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Control	10.1 user friendly full touch microprocessor control, multilingual, metric and imperial			
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Filters	ULPA U15 efficiency @99.9995% @ 0.1 um			
Cleanliness level	Class 100/ISO 5			
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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			

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