



# INNOVATIVE TECHNOLOGY FOR YOUR LAB

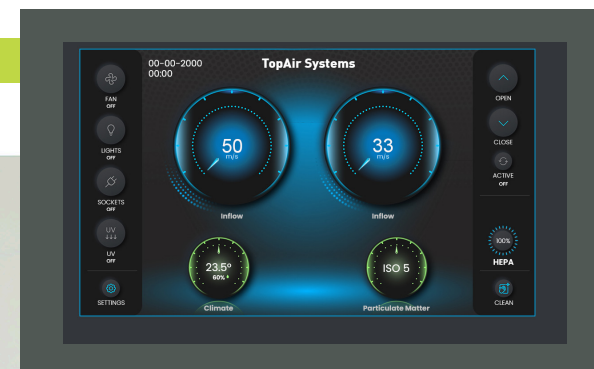
Spec/ Model	BO-090-NSF	BO-120-NSF	BO-150-NSF	BO-180-NSF
External size W x D x H	1020 x 830 x 1500 mm	1320 x 830 x 1500 mm	1620 x 830 x 1500 mm	1920 x 830 x 1500 mm
	40.2" x 32.7" x 59"	52" x 32.7" x 59"	63" x 32.7" x 59"	75.6" x 32.7" x 59"
Workspace (W x D x H)	900 x 660 x 710 mm	1200 x 660 x 710 mm	1500 x 660 x 710 mm	1800 x 660 x 710 mm
	35.4" x 26" x 28"	47.2" x 26" x 28"	59" x 26" x 28"	70.9" x 26" x 28"
Sliding front sash	6 mm tempered glass Clear visibility -23" (580mm) / Sash max opening-18.9" (480 mm) / Working height - 8" (200mm)			
Certification	NSF 49 compatible			
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	Epoxy coated metal structure. 304 stainless steel Interior. Option for 316 stainless steel			
Adjustable stand height	70/80/90 cm including anti-vibration leveling legs and casters Optional: motorized 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 > 1000 LUX / Chamber red light alarm			

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**Email: [sales@topairsystems.com](mailto:sales@topairsystems.com)**  
**Tel: +1-855-686-7247 | 1855-6-TOPAIR**  
**Web: [www.topairsystems.com](http://www.topairsystems.com)**



## TopAir Systems

NSF 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

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.

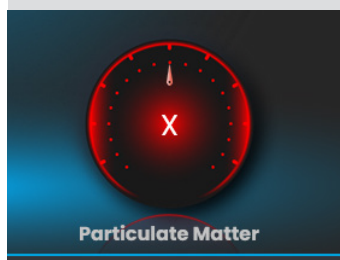
The IPMS smart algorithm processes data provided by an advanced built-in sensor, and displays a reliable outcome.

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.

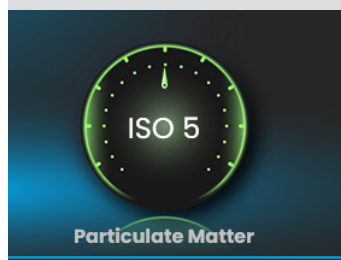
IPMS provides critical real-time information on the air quality within the workspace, prevents cross-contamination, and ensures constant, full standard compliance.

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

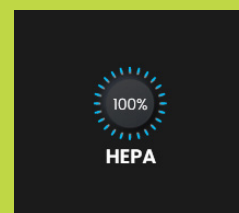
Level of cleanliness is equal or better than the ISO-5 requirement within the workspace.

## NSF BIOSAFETY CABINET CLASS II A2

TopAir's NSF Biosafety Cabinet Class II A2 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 metal and stainless steel with high resistance to cleaning 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.

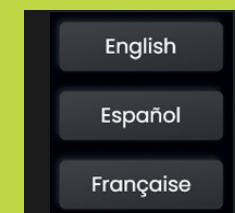
- Air velocity and fan alarm (voice, screen, red light)
- Germicidal 254 nm water-protected UV light with a programmable electronic timer
- UV Interlock safety system
- Energy-efficient quiet ECM fan
- Energy-efficient LED light with average >1000 LUX
- 3-height adjustable metal stand with casters and adjustable leveling legs
- Annual service timer and alarm
- Temperature & humidity monitoring
- Metric and imperial measurements capabilities
- Filter integrity test ready (DOP)
- SS 304 arm rest
- 2 X gas/vacuum taps
- 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)
- Metal construction
- Working area - SS 304
- 6 mm triplex glass counter weight sash and sash position alarm
- User-friendly full touch multilingual 10.1" screen
- ULPA filters U15 at a typical efficiency of 99.9995% @ um
- VAV smart system for auto airflow adjustment to filter load
- NSF 49 standard compatible
- Filter status monitoring range - 0-100%.
- Dual air velocity sensor system with stabilized, safe airflow monitoring and control



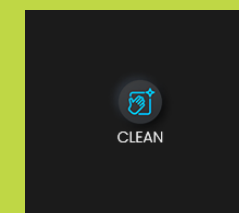
Timers for visual countdown filter replacement, UV, etc.



Accurate temperature and humidity display



Languages – English, French, Spanish



Clickable icon for cleaning the screen