TopAir Systems

METAL EN 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 alerts when the workspace has been contaminated and needs to be serviced.

The IPMS smart algorithm processes data from 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 Particle detection Module is a self-cleaning system with no need for Periodic Calibration or Maintenance; it is designed to be a simple plug-and-play system that automatically runs when the Biosafety cabinet is on.

RED LIGHT

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

GREEN LIGHT

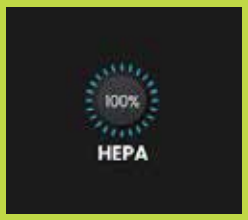
Level of cleanliness is equal or better than the ISO-5 requirement within the workspace.

ME IPMS METAL BIOSAFETY CABINET CLASS II A2

TopAir's Class II A2 ME 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% down-flow and 30% exhaust.

The cabinet is made of robust 18 Gauge metal (1.2 mm) Epoxy Coated with high resistance to acids and chemicals.
The cabinet is equipped with a smart, safe, and elegant 10.1" touch-screen control system that protects the operator and provides alerts for periodic maintenance actions and device replacement.

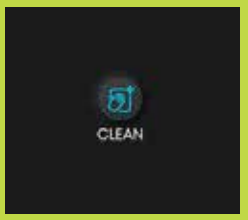
- Air velocity and fan alarm (voice, screen, red light)
- Germicidal 254 nm water-protected UV light with a programable electronic timer
- UV Interlock safety system
- Energy efficient and quiet DC-ECM fan
- Energy-efficient LED light with an average →1000 Lux
- 3-height adjustable metal stand with casters 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 a detection capability of ←= 0.3-micron particles
- Continuous particle monitoring for compliance with ISO 5 cleanliness (voice, screen, red light alarm)
- 304 ss single-piece worktop with sump, autoclave compatible and 304SS panel
- 6 mm triplex glass Manual sash & sash position alarm
- Epoxy-coated side panels
- 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 Compatible, CE certified, tested in accordance to ISO-14644
- 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-EN-IPMS	BO-120-EN-IPMS	BO-150-EN-IPMS	BO-180-EN-IPMS
External size W x D x H	1020 x 830 x 1450mm 40.1 x 32.6 x 57"	1320 x 830 x 1450mm 52 x 32.6 x 57"	1620 x 830 x 1450mm 63.8 x 32.6 x 57"	1920 x 830 x 1450mm 76.4 x 32.6 x 57"
Workspace (W x D x H)	900 x 640 x 660mm 35.5 x 25.2 x 26"	1200 x 640 x 660mm 47.2 x 25.2 x 26"	1500 x 640 x 660mm 59 x 25.2 x 26"	1800 x 640 x 660mm 70.9 x 25.2 x 26"
Manual front sash	6 mm tempered glass with a counterweight Clear visibility -22" (550mm) / Sash max opening-18.9" (480 mm) / Working Height – 8" (200mm) /			
Certification	CE /Comply with EN-12469			
Control	10.1 user-friendly full-touch microprocessor control, multilingual, metric, and imperial			
Airflow	70% circulation/30% exhaust, Average downflow-66 FPM (0.33 ms)/ Average inflow-100 fpm (0.5 ms) , Dynamic chamber double back wall design .			
Filters	ULPA U15 efficiency @99.9995% @ 0.1 um			
Cleanliness level	Tested in accordance to ISO 14644-1 , chamber classification ISO-5 (Class 100) , **IPMS monitored**			
Safety	Dual Air Velocity sensor and alarm (red chamber light), particle contamination alarm (red light), sash alarm, filter alarm, UV replacement, periodic service alarm			
Hood material	Robust 18 Gauge metal (1.2 mm) Epoxy Coated with high resistance to acids and chemicals. 304 stainless steel Worktop and Back, Epoxy coated side panels, double back wall design for air circulation			
Adjustable stand height	70/80/90 cm, including 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			

Email: sales@topairsystems.com
Tel: +1-855-686-7247 | 1855-6-TOPAIR
Web: www.topairsystems.com