Polypropylene Vertical Air Flow Laminar Clean Bench - PRO

TopAir provides high-quality, Vertical Laminar Clean Benches. Clean benches are designed to supply a clean controlled work environment meeting Class 100/ISO 5 Cleanliness level. The clean bench is tested according to USA Federal Standard 209E/ISO 14644-1/CE.

TopAir's clean benches draw air from the room or hall space, pass it through a HEPA filter using a fan, and then distribute the clean air across the working area. In vertical benches, the filtered air is directed downwards through a filter installed at the top of the bench.

Structure:
- 8 mm welded polypropylene with high chemical resistance
- stainless steel 304 worktop, (SS316 optional)
- 5 mm safety glass front window with counterweight system
- Side windows for better visibility
- Optional Integrated Particle Monitoring System (IPMS)

The IPMS measures particle concentration in real-time, monitoring the cleanliness level 24/7. Its display clearly indicates whether the cleanliness level complies with ISO-5, and alerts when the workspace has been contaminated or needs to be serviced.

- Microprocessor control system with 10.1" color touchscreen display
- Automatic speed control to maintain 0.33 m/s (66 fpm)
- Downflow alarms, critical "red light" chamber alarm, service alarm, filter alarm
- Real-time filter status gage display
- High efficiency quiet EC fan
- Germicidal waterproof UV light (254 nm) system and safety interlock mechanism
- LED light 800 lux
- 2 x universal sockets
- Includes metal stand and casters
- Multi-language control with metric or Imperial units
- Compliance with US Federal Standard 209E / ISO 14644-1 / CE
- Optional Integrated particle monitoring system (IPMS)

Red Light Alert:
Whenever there is an air velocity failure, a red light inside the unit switches on and the system automatically switches off. This enables convenient detection of failures from a distance, facilitating notice even for the hearing-impaired.

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Spec/ Model	HC-V090-PRO	HC-V120-PRO	HC-V150-PRO	HC-V180-PRO
Outer Dimensions WxDxH	35.4 x 33.4 x 51.9" 900 x 850 x 1320 mm	47.2 x 33.4 x 51.9" 1200 x 850 x 1320 mm	59 x 33.4 x 51.9" 1500 x 850 1320 mm	70.8 x 33.4 x 51.9" 1800 x 850 x 1320 mm
WE CAN CUSTOMIZE ANY SIZE - EVEN A SINGLE UNIT! CONTACT US FOR DETAILS				
Workspace (W x D x H)	30.3 x 27.5 x 29.5" 770 x 700 x 750 mm	42.1 x 27.5 x 29.5" 1070 x 700 x 750 mm	53.9 x 27.5 x 29.5" 1370 x 700 x 750 mm	65.7 x 27.5 x 29.5" 1670 x 700 x 750 mm
Test Standard	USA Federal Standard 209E / ISO-14644-1, CE			
Air Velocity m/s	0.33 m/s, 66 fpm			
Cleanliness in Workstation	Class-100 (FS 209E) ISO-5, ISO-14644-1			
Hood Material	Polypropylene			
Worktop Material	Stainless steel 304			
Noise Level (Tested 20 cm from worktop, 1.2 m / 48" above ground)	<52dB	<54dB	<56dB	<56dB
Power Supply	110 / 220 V, 50/60 Hz, Single phase			
Illumination	800 lux LED lighting			
Filters	HEPA Filter Efficiency of 99.9995% at 0.3 microns H14 (Optional ULPA filter)			