



LAMINAR CLEAN BENCHES



TOPAIR





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, (option for 316)
- 5 mm safety front glass window with counterweight system
- Side windows for better visibility
- Optional : IPMS - Integrated Particle Monitoring System

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 and needs to be serviced.

Red Light Alert:

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

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



Laminar Clean Bench

Spec/ Model	HC-V090-PRO	HC-V120-PRO	HC-V150-PRO	HC-V180-PRO
Outer Dimensions W x D x H	35.4 x 33.4 x 51.9" 900 x 850 x 1320mm	47.2 x 33.4 x 51.9" 1200 x 850 x 1320mm	59 x 33.4 x 51.9" 1500 x 850 x 1320mm	70.8 x 33.4 x 51.9" 1800 x 850 x 1320mm
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 750mm	42.1 x 27.5 x 29.5" 1070 x 700 x 750mm	53.9 x 27.5 x 29.5" 1370 x 700 x 750mm	65.7 x 27.5 x 29.5" 1670 x 700 x 750mm
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 SUS 304			
Noise Level (Tested 20 cm from worktop, 1.2m/48" above ground)	<52dB	<54dB	<56dB	<56dB
Power Supply	110 / 220V, 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)			



Polypropylene Horizontal Air Flow Laminar Clean Bench - PRO

TopAir provides high-quality, safe Horizontal Laminar Clean Benches.

Clean benches are designed to supply a clean controlled work environment meeting Class 100/ISO 5 Cleanliness standards, resembling a clean room, with the additional advantages of portability and small dimensions.

Clean benches provide a high-quality alternative to a clean room at a much lower cost and without massive construction.

The clean bench complies with Test Standards USA Federal Standard 209E/ISO 14644-1/CE and can be customized to meet customer requirements. 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 bench area.

In Horizontal benches, the filtered air is directed downwards through a filter installed at the back of the bench

Advanced Operation System:

- 10.1" screen with air velocity display
- Automatic speed adjustment to maintain 0.33m/s 66 fpm
- Time for filter replacement
- Filter replacement alarm

- IPMS - Integrated Particle Monitoring 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.

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.

- Horizontal air stream producing clean air in compliance with ISO5/ CLASS100 standards
- Polypropylene structure with high chemical resistance
- IPMS - Integrated partial monitoring system
- Work surface made of 304 stainless steel
- Side windows made of tempered glass
- 10.1" screen with air velocity display
- Automatic speed adjustment to maintain 0.33m/s 66 fpm
- High efficiency quiet EC fan
- Front window
- UV light
- 2 Universal electrical outlet
- Eco-friendly, cost-effective LED lighting
- Compliance with Test Standard: US Federal Standard 209E / ISO 14644-1 / CE

* optional metal stand with casters



Laminar Clean Bench

Spec/ Model	HC-H090-PRO	HC-H120-PRO	HC-H150-PRO	HC-H180-PRO
Outer Dimensions W x D x H	35.4*36.6*47.2" 900*930*1200mm	47.2*36.6*47.2" 1200*930*1200mm	59*36.6*47.2" 1500*930*1200mm	70.8*36.6*47.2" 1800*930*1200mm
WE CAN CUSTOMIZE ANY SIZE - EVEN A SINGLE UNIT! CONTACT US FOR DETAILS				
Workspace (W x D x H)	30.3*24.4*23.6" 770*620*600mm	42.1*24.4*23.6" 1070*620*600mm	53.9*24.4*23.6" 1370*620*600mm	65.7*24.4*23.6" 1670*620*600mm
Test Standard	USA Federal Standard 209E / ISO-14644-1, CE			
Air Velocity m\s	0.33 m/s, 60 fpm			
Cleanliness in Workstation	Class-100 (FS 209E) ISO-5, ISO-14644-1			
Hood Material	Polypropylene			
Work Table Material	Stainless steel SUS 304			
Noise Level (Tested 20 cm from worktop, 1.2m/48" above ground)	<52dB	<54dB	<56dB	<56dB
Power Supply	110 / 220V, 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)			



Value line Metal Vertical Air Flow Laminar Clean Bench

TopAir's Value line, 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 and can be customized to meet customer requirements.

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 through a filter installed at the top of the bench.

Structure :

- Metal epoxy-coated paint
- Work surface made of 304 stainless steel
- Side windows made of tempered glass
- Front sliding sash with counterweight

Red Light Alert:

detection of failures from a distance, facilitating notice even for the hearing-impaired.

- 7" Color touchscreen display
- Filter replacement alarm
- Airflow display and alarm.
- 10 speeds fan control
- 800 LUX sealed LED lighting
- Vertical air flow producing ISO5/ CLASS100 cleanliness level
- UV light
- High efficiency quiet EC fan
- 2 Universal electrical outlets
- Metal stand with casters
- **Certifications:**

Compliance with Test Standard: US Federal Standard 209E / ISO 14644-1 / CE



Laminar Clean Bench

Spec/ Model	HC-V090	HC-V120	HC-V150	HC-V180
Outer Dimensions W x D x H	35.4*33.4*51.9" 900*850*1320mm	47.2*33.4*47.2" 1200*850*1200mm	59*33.4*47.2" 1500*850*1200mm	70.8*33.4*47.2" 1800*850*1200mm
WE CAN CUSTOMIZE ANY SIZE - EVEN A SINGLE UNIT! CONTACT US FOR DETAILS				
Workspace (W x D x H)	30.3*24.4*23.6" 770*620*600mm	42.1*24.4*23.6" 1070*620*600mm	53.9*24.4*23.6" 1370*620*600mm	65.7*24.4*23.6" 1670*620*600mm
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	Metal epoxy-coated paint			
Work Table Material	Stainless steel SUS 304			
Noise Level (Tested 20 cm from worktable, 1.2m/48" above ground)	<52dB	<54dB	<56dB	<56dB
Power Supply	110 / 220V, 50/60 Hz, Single phase			
Illumination	800 LUX LED lighting			
Filters	HEPA Filter Efficiency of 99,9995% at 0.3 Microns H14 (Optional ULTRA filter)			



Value Line Metal Horizontal Air Flow Laminar Clean Bench

TopAir's Value line , Horizontal 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 and can be customized to meet customer requirements. 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 through a filter installed at the top of the bench.

Structure :

- Metal epoxy-coated oven tempered paint
- Work surface made of 304 stainless steel
- Side windows made of tempered glass
- Front sliding sash with counterweight

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.

- 7" Color touchscreen display
- Filter replacement alarm
- Airflow display and alarm.
- 10 speeds fan control
- 800 LUX sealed LED lighting
- Horizontal air flow producing ISO5/ CLASS100 cleanliness level
- UV light
- High efficiency quiet EC fan
- 2 Universal electrical outlets
- Metal stand with casters
- **Certifications:**

Compliance with Test Standard: US Federal Standard 209E / ISO 14644-1 / CE



Laminar Clean Bench

Spec/ Model	HC-H090	HC-H120	HC-H150	HC-H180
Outer Dimensions W x D x H	35.4 x 36.6 x 47.2" 900 x 930 x 1200mm	47.2 x 36.6 x 47.2" 1200 x 930 x 1200mm	59 x 36.6 x 47.2" 1500 x 930 x 1200mm	70.8 x 36.6 x 47.2" 1800 x 930 x 1200mm
WE CAN CUSTOMIZE ANY SIZE - EVEN A SINGLE UNIT! CONTACT US FOR DETAILS				
Workspace (W x D x H)	30.3 x 24.4 x 23.6" 770 x 620 x 600mm	42.1 x 24.4 x 23.6" 1070 x 620 x 600mm	53.9 x 24.4 x 23.6" 1370 x 620 x 600mm	65.7 x 24.4 x 23.6" 1670 x 620 x 600mm
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	Metal epoxy-coated paint			
Work Table Material	Stainless steel SUS 304			
Noise Level (Tested 20 cm from worktable, 1.2m/48" above ground)	<52dB	<54dB	<56dB	<56dB
Power Supply	110 / 220V, 50/60 Hz, Single phase			
Illumination	800 LUX LED lighting			
Filters	HEPA Filter Efficiency of 99,9995% at 0.3 Microns H14 (Optional ULTRA filter)			



Eco Polypropylene Vertical Laminar Clean Bench

TopAir Provide, effective, 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 bench 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
- Polypropylene worktop

- Analog control panel
- Vertical air flow producing ISO5/ CLASS100 clean air
- High efficiency quiet EC fan
- Cost-effective LED lighting 600 LUX
- option for front sliding sash and UV light
- Optional Metal stand and casters
- Compliance with Test Standard: US Federal Standard 209E / ISO 14644-1 / CE



Laminar Clean Bench

Spec/ Model	ECO-HC-V090-PP	ECO-HC-V120-PP	ECO-HC-V150-PP	ECO-HC-V180-PP
Outer Dimensions W x D x H	35.4 x 21.9 x 43.5" 900 x 558 x 1105mm	47.2 x 21.9 x 43.5" 1200 x 558 x 1105mm	59 x 21.9 x 43.5" 1500 x 558 x 1105mm	70.8 x 21.9 x 43.5" 1800 x 558 x 1105mm
WE CAN CUSTOMIZE ANY SIZE - EVEN A SINGLE UNIT! CONTACT US FOR DETAILS				
Workspace (W x D x H)	34.6 x 17.7 x 17.7" 880 x 450 x 450mm	46.4 x 17.7 x 17.7" 1180 x 450 x 450mm	58.26 x 17.7 x 17.7" 1480 x 450 x 450mm	70 x 17.7 x 17.7" 1780 x 450 x 450mm
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, IOS-14644-1			
Hood Material	Polypropylene			
Worktop Material	Polypropylene			
Noise Level (Tested 20 cm from work table, 1.2m/48" above ground)	<52dB	<54dB	<56dB	<56dB
Power Supply	110 / 220V, 50/60 Hz, Single phase			
Illumination	600 LUX LED lighting			
Filters	HEPA Filter Efficiency of 99,9995% at 0.3 Microns			

Models

Unit size	90cm/36"	120cm/48"	150cm/59"	180cm/70"
Stand for a vertical cabinet	ECO-HC-V090-ST	ECO-HC-V120-ST	ECO-HC-V150-ST	ECO-HC-V180-ST



Eco Polypropylene Horizontal Laminar Clean Bench

TopAir provides cost effective Horizontal 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 Horizontal 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
- Polypropylene worktop

- Analog control panel
- Horizontal air flow producing ISO5/ CLASS100 clean air
- High efficiency quiet EC fan
- Cost effective LED lighting 600 LEX
- Option for Front sliding sash and UV light
- Optional Metal stand and casters
- Compliance with Test Standard: US Federal Standard 209E / ISO 14644-1 / CE



Control System

optional Metal stand

Laminar Clean Bench

Spec/ Model	ECO-HC-H090-P	ECO-HC-H120-P	ECO-HC-H150-P	ECO-HC-H180-P
Outer Dimensions W x D x H	35.4 x 27 x 43.5" 900 x 688 x 1105mm	47.2 x 27 x 43.5" 1200 x 688 x 1105mm	59 x 27 x 43.5" 1500 x 688 x 1105mm	70.86 x 27 x 43.5" 1800 x 688 x 1105mm
Workspace (W x D x H)	34.6 x 17.7 x 17.7" 880 x 450 x 450mm	46.4 x 17.7 x 17.7" 1180 x 450 x 450mm	58.26 x 17.7 x 17.7" 1480 x 450 x 450mm	70 x 17.7 x 17.7" 1780 x 450 x 450mm
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, IOS-14644-1			
Hood Material	Polypropylene			
Work Table Material	Polypropylene			
Noise Level (Tested 20 cm from work table, 1.2m/48" above ground)	<52dB	<54dB	<56dB	<56dB
Power Supply	110 / 220V, 50/60 Hz, Single phase			
Illumination	800 LUX LED lighting			
Filters	HEPA Filter Efficiency of 99,9995% at 0.3 Microns			

Models

Spec/ Model	ECO-HC-H90-P	ECO-HC-H120-P	ECO-HC-H150-P	ECO-HC-H180-P
Stand	ECO-HC-H90-ST	ECO-HC-H120-ST	ECO-HC-H150-ST	ECO-HC-H180-ST



Polypropylene PCR-HEPA Cabinet

TopAir's Polypropylene PCR-HEPA cabinets offer a quality filtering system that provides complete protection from contamination.

Made of high-quality non-corrosive Polypropylene, the cabinets feature a high level of chemical resistance.

The cabinets are used in the genomics, proteomics, molecular biology and forensic sciences industries.

They feature an ergonomic design and premium materials, including a cutting-edge motor fan ensuring long-term durability and low noise.

Structure:

- 8 mm welded Polypropylene with high chemical resistance
- 5 mm safety front glass window
- Side windows for better visibility

- Microprocessor control system with 7" Color touchscreen display
- H14 HEPA filter at Efficiency 99.9995% @ 0.3 um
- Germicidal UV light 254nm system with safety interlock mechanism
- 800 LUX LED lighting
- Air velocity: 0.33 m/s, 66 FPM
- High efficiency quiet EC fan
- Optional stand
- ISO 6/ CLASS 1000 cleanliness level according to ISO 14644-1 and USA Federal Standard 209E, ***CE Certification**



Models

Spec/ Model	PCR-060-HEPA	PCR-090-HEPA	PCR-120-HEPA
External Dimensions W x D x H	600 x 640 x 950mm 23.6 x 25.2 x 37.4"	900 x 640 x 950 mm 35.4 x 25.2 x 37.4"	1200 x 640 x 950 mm 47.2 x 25.2 x 37.4"
WE CAN CUSTOMIZE ANY SIZE - EVEN A SINGLE UNIT! CONTACT US FOR DETAILS			
Workspace (W x D x H)	585 x 450 x 590 mm 23 x 17.7 x 23.2"	885 x 450 x 590 mm 34.8 x 17.7 x 23.2"	1185 x 450 x 590 mm 46.6 x 17.7 x 23.2"
Front Sash Max Opening	450 mm /17.7"	450 mm /17.7"	450 mm /17.7"
Production / test Standard	USA Federal Standard 209E / ISO 14644-1, CE		
Air Velocity	0.33 m/s, 66 FPM	0.33 m/s, 66 FPM	0.33 m/s, 66 FPM
Hood Material	Polypropylene		
Filter	H14 HEPA filter at Efficiency 99.9995% @ 0.3 um		
Noise (Tested 20 cm from the work table, 1.2m above ground)	< 52 dB		
UV light	17w ozone free 254nm.		
Power Supply	110 / 220V , 50/60 Hz, Single phase		
Illumination	800 LUX LED lighting		

Accessories

Model	PCR-060-ST	PCR-090-ST	PCR-120-ST
Stand W X D X H	600 X 580 X 802 mm 24 x 22.8 x 31.57"	900 X 580 X 802 mm 36 x 22.8 x 31.57"	1200 X 580 X 802 mm 48 x 22.8 x 31.57"



TOPAIR
CLEAN AIR SOLUTIONS

Polypropylene PCR-UV Cabinet

TopAir's Polypropylene PCR-UV cabinets offer a quality filtering system that provides complete protection from contamination.

Made of high-quality non-corrosive Polypropylene, the cabinets feature a high level of chemical resistance. Polypropylene increases the product's tensile strength and improves its thermal characteristics.

The cabinets are used in the genomics, proteomics, molecular biology and forensic sciences industries.

They feature an ergonomic design and premium materials.

Structure:

- 8 mm welded Polypropylene with high chemical resistance
- 5 mm safety front glass window
- Side windows for better visibility

- Microprocessor control system with 7" Color touch screen display
- Germicidal UV light 254nm system and safety interlock mechanism
- 800 LUX LED lighting
- Optional stand



Models

Spec/ Model	PCR-060-UV	PCR-090-UV	PCR-120-UV
External Dimensions W x D x H	600 x 640 x 750 mm 23.6 x 25.2 x 29.5"	900 x 640 x 750 mm 35.4 x 25.2 x 29.5"	1200 x 640 x 750 mm 47.2 x 25.2 x 29.5"
WE CAN CUSTOMIZE ANY SIZE - EVEN A SINGLE UNIT! CONTACT US FOR DETAILS			
Workspace (W x D x H)	580 x 450 x 550 mm 22.8 x 17.7 x 21.6"	880 x 450 x 550 mm 34.6 x 17.7 x 21.6"	1180 x 450 x 550 mm 46.4 x 17.7 x 21.6"
Front Sash Max Opening	500 mm / 19.6"	500 mm / 19.6"	500 mm / 19.6"
Filter	None		
Cabinet Material	White Polypropylene		
Hood Material	White Polypropylene		
UV light	17w ozone-free 254 nm		
Power Supply	110 / 220V , 50/60 Hz, Single phase		
Illumination	800 LUX LED lighting		

Accessories

Model	PCR-060-ST	PCR-090-ST	PCR-120-ST
Stand W X D X H	600 X 640 X 802 mm 24 x 25.2 x 31.57"	900 X 640 X 802 mm 36 x 25.2 x 31.57"	1200 X 640 X 802 mm 48 x 25.2 x 31.57"



IVF system for Clean Bench

TopAir's Polypropylene IVF systems is an Add on instrument for clean benches. It is designed for IVF procedures, with a heating plate for an accurate 37° temperature.

The heating plate is controlled by PID control system with a precise temperature sensor. This ensures fast heating of the heating surface without significant overshoot over the set temperature. The heating surface is set to 37c, and can be changed by the user.

IVF system for clean bench	Size
HC-IVF-1010	100*100 MM / 4"*4"
HC-IVF-2020	200*200 MM / 8"*8"





IPMS - Integrated Particle Monitoring 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.



GREEN LIGHT

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



RED LIGHT

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

TOPAIR



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CLEAN AIR SOLUTIONS

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