## Cleanair<sup>®</sup> Bio Safety Cabinet Class II Type A2 (CBS 900 A2)

Cleanair<sup>®</sup> Class II A2 Biohazard Safety Cabinets provide personnel, product, and environment protection Velocity of airflow to the work zone creates an ultra-clean environment for product protection, where the remaining exhaust air is discharged out. Air barrier at the work opening and the contaminated air plenum is under positive pressure. An air barrier between the operator and the work zone is maintained by a flow of room air through a full width grille in the work opening. The barrier air mixes with the laminar flow air in a sump underneath the work surface, and is exhausted to the outside environment through a HEPA filter. Have HEPA filtered down flow air from a common plenum. (I.e. from which a portion of the air is exhausted from the cabinet and the remaining air is supplied to the work area).

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Product Code	CBS 0900 A2	
Air flow pattern	<i>Vertical – Unidirectional, 70% re- circulation, 30% exhausted in to the room ambient</i>	Product Code CBS 0900 A2
Air Cleanliness	CLASS 100 as per US FED STD 209 E or CLASS 5 as per ISO 14644-1	
Inner working size	W 900 x D 600 x H 600 mm (3 x 2 x 2 Feet)	(Channelly)
Over all dimension	W 1000 x D 750 X H 2050 mm, including removable type support stand	
Support stand	under-bench support-stand made of heavy duty square pipes- MS with PU coated finish or IS 304 SS respectively	
Particle Retention	0.3 Micron & Above	
Noise Level	65 decibel on "A" scale ± 5	
Inflow Velocity	100 FPM ± 20	
Downflow Velocity	80 FPM ± 20	
Work table	Removable type tabletop, made of perforated IS 304 Grade SS with satin finished, underneath provided with drain- pan to collect & dispose of liquid wastes. The front edge of the working table is curve finished and perforated for comfortable arm resting	MAKE IN INDIA
Front door	Made of clear 5 mm Polycarbonate sheet - vertical sliding, while opening the door UV Lamp will be cut "OFF" and while closing	

the door UV will "ON" Lamp be automatically. Airflow Pattern Side Panels Both the sidewalls are made from double layered outer GI & inner stainless steel or Both in Stainless Steel respectively with A- Front opening return-air plenum in between B-Sash U V lamp 3 Feet, 30 Watts, Make – PHILIPS: 1 Nos C-Exhaust HEPA Illumination 2 Feet, 20 Watts LED tubes: 1 Nos D - Supply HEPA Pressure  $(\Delta P)$ Digital Display E- Positive Pressure Plenum ON/OFF Controls: Soft touch switch pads provided for blower, F-Negative Pressure Plenum UV & Daylight lamp Power Supply 230V, Single phase, 50 Hz Media: Ultra clean glass fiber paper -HEPA Filter Room air imported; Type: Mini-Pleated Supply Air & Contaminated constructions: Retention:0.3Micron: Exhaust HEPA-filtered 99.997%; Pressure drop Efficiency :12 mm WG; Grade:H14 rating Front View CLASS II TYPE A-II BIOSAFETY CABINETS PRE Filter Synthetic, non-woven polyester fibers with protective mesh and deep-comb formed into PU coated GI casing. IPD 6mm, Particle Retention: 5 Micron. Efficiency: 95 %. Material of The Cabinet made from Galvanized Iron 18 construction SWG sheet metal with polyurethane paint coated finish (or) The Complete Cabinet in IS 304 grade SS construction with satin finish Supply Air Blower Outer rotor type motor blower, which consists of dynamically & statically balanced aluminum centrifugal impeller Examples: HIV, H1N1 Flu, Tuberculosis, Yersinia pestis (The Plague), SARS, Rabies, driven by Single phase motor, enclosed in West Nile Virus, Ricketts. Moderate potential hazard to personnel and the a PU coated GI casing & directly connected environment. Includes bacteria and viruses that cause only mild disease to humans, or are difficult to contract to the filter chamber inside the cabinet. Examples: Most Chlamydiae, hepatitis A. B. and C. The exhaust air will be sending out influenza A, Lyme disease, Salmonella, mumps, and measles. Exhaust Duct: Not known to consistently cause disease in healthy adult humans, and of through an exhaust duct made of nal potential hazard to laboratory personne Examples: canine hepatitis, non-pathogenic Escherichia coli, 150/200 mm dia PVC pipe up to 10 and.non-infectious bacteria. feet length. Suitable canopy will be provided at the end of the duct.

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Standard 5A power point, power chord with 5 amps plug top, floor leveling screws, accessories Schematic Drawing castors & gas inlet, Standards US FED STD 209 E, ISO 14644-1, IEST-RP-1 CC-002-2, EN 12469:2000 & EN 61010compliance 1:2010 2-Weight before Approximate 250 KG 3packing (4)-(8) Weight after Approximate 400 KG if packed in full 5 6 wooden crate box packing ത Vertical 1. corners are coving Special Features 10 8 finished; for easy cleaning 7 2. Working table is removal type for easy cleaning Waste liquid collection tray -3. -01) underneath worktable - for easy dispose off 4. Cabinet will be supplied with chemically treated and SS armrest LCD Display with feather touch 5. LEGENDS switch control displaying following EXHAUST VENT 2 EXHAUST HEPA FILTER contents ON/OFF, Blower, LED, UV SUPPLY MOTOR BLOWER ASSEMBLY SUPPLY HEPA FILTER Plug, Settings, Alarm off 5 PRE FILTER Optional if required 1. Motorized Door 6 UV LIGTHT 7 DAY LIGHT 2. Virus Burn Out MICRO PROCESSER CONTROLER P C SHEET DOOR 9 10 HAND REST 11 LEVELING SCREWS CLEAN AIR SYSTEMS is an ISO 9001-2015 certified company & our products are CE certified NSIC: NSIC/BO(G)/GP/253/2011 UAN: TN02B0098373 CE CERTFICATION No: CE-1124 Contact: No 4, Senthil Nagar, 100 Feet Road, Arumbakkam, Chennai – 600 106 Ph: 044-2362 1476 Mob: +91 9841074504 Whatsapp: +919551119111 Website: www.cleanairindia.com

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# Cleanair<sup>®</sup> Bio Safety Cabinet Class II Type B2 (CBS 900 B2)

Cleanair<sup>®</sup> Vertical Laminar Flow Class II Type B2 Biohazard Safety Cabinets provide personnel, product, and environmental protection. Laminar airflow enclosures with High Efficiency Particulate Air (HEPA) filtration of exhaust air and an air barrier at the work opening. HEPA-filtered Vertical laminar airflow, which is discharged to the work zone, creates an ultra-clean work environment for product protection. An air barrier between the operator and the work zone is maintained by a flow of room air into a full width grille in the work opening. The barrier air mixes with the laminar flow air in a sump underneath the work surface, and is exhausted to the outside environment via a HEPA filter. To contain potentially hazardous aerosols, negative pressure zones surround all the positive pressure zones and Filter sealing.

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positive pressure z	ones and Filler Seanny.	
Product Code	CBS 900 B2	
Air flow pattern	Vertical – Unidirectional, 70% re- circulation, 30% exhausted in to the room	Product Code CBS 900 E
	ambient	
Air Cleanliness	CLASS 100 as per US FED STD 209 E or	
	CLASS 5 as per ISO 14644-1	
Inner working size	W 900 x D 600 x H 600 mm	
	(3 x 2 x 2 Feet)	1.50.3
Over all dimension	W 1000 X D 750 X H 2050 mm including	
	support stand	
Support stand	under-bench support-stand made of	
	heavy duty square pipes- MS with PU	A CONTRACTOR OF A CONTRACTOR O
	coated finish or IS 304 SS respectively	
Particle Retention	0.3 Micron & Above	
Noise Level	65 decibel on "A" scale ± 5	
Velocity	90 FPM ± 20	
Work table	Removable type tabletop, made of	1
	perforated IS 304 Grade SS with satin	
	finished, underneath provided with drain-	
	pan to collect & dispose of liquid wastes.	
	The front edge of the working table is curve	
	finished and perforated for comfortable	
	arm resting	MAKE IN INDIA
Front door	Made of clear 5 mm Polycarbonate sheet -	and the
	vertical sliding, while opening the door UV	
	Lamp will be cut "OFF" and while closing	
	the door UV Lamp will be "ON"	

Both the sidewalls are made from double Side Panels Airflow Pattern layered outer GI & inner stainless steel or Both in Stainless Steel respectively with return-air plenum in between Edges are perforated to avoid entry of room air into A. Front Opening the work zone and exit of contaminated B. Sash air in to the room and such contaminated C. Exhaust HEPA Filter air is sucked through this full height D. Supply HEPA Filter perforation at the edges of the sidewalls E. Negative Pressure Plenum U V lamp 1 1/2 Feet, 15 Watts, Make – PHILIPS: 1 Nos F. Supply Blower Illumination 2 Feet, 20 Watts LED tubes: 1 Nos G. Filter Screen Pressure ( $\Delta P$ ) Digital Display Gauge ON/OFF Controls: Soft touch switch pads provided for blower, UV & Daylight lamp Power Supply 230V, Single phase, 50 Hz Front View Side View Media: Ultra clean glass fiber paper -HEPA Filter Room air Contaminated HEPA-filtered imported;Type:Mini-Pleated constructions; Supply Air & CLASS II TYPE B-II BIOSAFETY CABINETS Retention:0.3Micron; Efficiency 99.97%; Exhaust Pressure drop :12 mm WG; Grade:H14 rating PRE Filter Synthetic, non-woven polyester fibers with protective mesh and deep-comb formed into PU coated GI casing. IPD 6mm, Particle Retention: 10-15 Micron. Efficiency: 90 %. Material of The Cabinet made from Galvanized Iron 18 construction SWG sheet metal with polyurethane paint coated finish (or) The Complete Cabinet in IS 304 grade SS construction with satin Examples: HIV, HINI Flu, Tuberculosis, Yersinia pestis (The Plague), SARS, Rabies West Nile Virus, Ricketts. finish Supply Air Blower Outer rotor type motor blower, which Moderate potential hazard to personnel and the environment. Includes bacteria and viruses that cause only mild disease to humans, or are difficult to contract consists of dynamically & statically Examples: Most Chlamydiae, hepatitis A, B, and C, influenza A, Lyme disease, Salmonella, mumps, and measles balanced aluminum centrifugal impeller driven by Single phase motor, enclosed in Not known to consistently cause disease in healthy adult humans, and of otential hazard to la Examples: canine hepatitis, non-pathogenic Escherichia coli, a PU coated GI casing & directly connected and non-infectious bacteria. to the filter chamber inside the cabinet. Exhaust Blower Having a displacing capacity of 1360 CMH at a static of 40 mm WG and made Schematic Drawing of mild steel and directly driven by

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	Single phase, 1440-RPM motor are	
	provided	
Exhaust Duct:	The exhaust air will be sending out	
	through an exhaust duct made of	1000 mm 200 mm
	150/200 mm dia PVC pipe up to 10	
	feet length. Suitable canopy will be	2
	provided at the end of the duct.	3
Chandrad		
Standard	5A power point, power chord with 5	
accessories	amps plug top, floor leveling screws,	
	castors & gas inlet,	5000 S
Standards	US FED STD 209 E, ISO 14644-1, IEST-RP-	
compliance	CC-002-2	
Weight before	Approximate 250 KG	
packing		
Weight after	Approximate 400 KG if packed in full	
packing	wooden crate box	•
Special Features	3. Vertical corners are coving	
	finished; for easy cleaning	
	4. Working table is removal type for	LEGENDS
	easy cleaning	1 EXHAUST VENT
	5. Waste liquid collection tray –	2 EXHAUST HEPA FILTER 3 EXHAUST MOTOR BLOWER ASSEMBLY
	underneath worktable – for easy	4 SUPPLY MOTOR BLOWER ASSEMBLY 5 SUPPLY HEPA FILTER
	dispose off	6 UV LIGTHT 7 DAY LIGHT
		8 PRE FILTER
	6. Cabinet will be supplied with chemically treated and SS armrest	9 MICRO PROCESSER CONTROLER 10 P C SHEET DOOR
Optional if required	7. Motorized Door	11 HAND REST 12 LEVELING SCREWS
optional in required	8. LCD Display with feather touch	
	switch control displaying following	
	contents ON/OFF, Blower, LED, UV	
	Plug, Settings, Alarm off	
	9. UV Hour Meter	
	10. Virus Burn Out	
CLEAN AIR SYSTE	MS is an ISO 9001-2015 certified compan	y & our products are CE certific
NSIC: NSIC/BO(G)/	GP/253/2011 UAN: TN02B0098373	

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**Contact:** No 4, Senthil Nagar, 100 Feet Road, Arumbakkam, Chennai – 600 106 Ph: 044-2362 1476 Mob: +91 9841074504 Whatsapp: +919551119111 Website: <u>www.cleanairindia.com</u>







## Cleanair<sup>®</sup> Bio Safety Cabinet Class II Type A2 (CBS 1200 A2)

Cleanair<sup>®</sup> Class II A2 Biohazard Safety Cabinets provide personnel, product, and environment protection Velocity of airflow to the work zone creates an ultra-clean environment for product protection, where the remaining exhaust air is discharged out. Air barrier at the work opening and the contaminated air plenum is under positive pressure. An air barrier between the operator and the work zone is maintained by a flow of room air through a full width grille in the work opening. The barrier air mixes with the laminar flow air in a sump underneath the work surface, and is exhausted to the outside environment through a HEPA filter. Have HEPA filtered down flow air from a common plenum. (I.e. from which a portion of the air is exhausted from the cabinet and the remaining air is supplied to the work area).

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Product Code	CBS 1200 A2	Bredwet Code CDC 1200 42
Air flow pattern	<i>Vertical – Unidirectional, 70% re- circulation, 30% exhausted in to the room ambient</i>	Product Code CBS 1200 A2
Air Cleanliness	CLASS 100 as per US FED STD 209 E or CLASS 5 as per ISO 14644-1	
Inner working size	W 1200 x D 900 x H 600 mm (4 x 3 x 2 Feet)	
Over all dimension	W 1300 X D 1050 X H 2050 mm, including removable type support stand	
Support stand	under-bench support-stand made of heavy duty square pipes- MS with PU coated finish or IS 304 SS respectively	
Particle Retention	0.3 Micron & Above	
Noise Level	65 decibel on "A" scale ± 5	
Inflow Velocity	100 FPM ± 20	
Downflow Velocity	80 FPM ± 20	
Work table	Removable type tabletop, made of perforated IS 304 Grade SS with satin finished, underneath provided with drain- pan to collect & dispose of liquid wastes. The front edge of the working table is curve finished and perforated for comfortable arm resting	MRKE IN INDIA
Front door	Made of clear 5 mm Polycarbonate sheet - vertical sliding, while opening the door UV Lamp will be cut "OFF" and while closing	

the door UV will "ON" Lamp be **Airflow Pattern** automatically. Side Panels Both the sidewalls are made from double layered outer GI & inner stainless steel or Both in Stainless Steel respectively with A- Front opening return-air plenum in between B. Sash C-Exhaust HEPA 3 Feet, 30 Watts, Make – PHILIPS: U V lamp Filter Illumination 2 Feet LED tubes of Lux more than 850 D - Supply HEPA Pressure  $(\Delta P)$ Digital Display Gauge E- Positive Pressure Plenum ON/OFF Controls: Soft touch switch pads provided for blower, F-Negative Pressure Plenum UV & Daylight lamp Power Supply 230V, Single phase, 50 Hz Media: Ultra clean glass fiber paper -HEPA Filter 🔲 Room air imported;Type:Mini-Pleated constructions; Supply Air & Contaminated Retention: 0.3 Micron; Efficiency 99.97%; Exhaust HEPA-filtered Pressure drop :12 mm WG; Grade:H13 rating Side View Front Viev PRE Filter Synthetic, non-woven polyester fibers with CLASS II TYPE A-II BIOSAFETY CABINETS protective mesh and deep-comb formed into PU coated GI casing. IPD 6mm, Particle Retention: 10-15 Micron. Efficiency: 90 %. of Material The Cabinet made from Galvanized Iron 18 SWG sheet metal with polyurethane paint construction coated finish (or) The Complete Cabinet in IS 304 grade SS construction with satin finish Supply Air Blower Outer rotor type motor blower, which les: Ebola, Sn consists of dynamically & statically Microbes there can be eithe balanced aluminum centrifugal impeller Examples: HIV, HIN1 Flu, Tuberculosis, Yersinia pestis (The Plague), SARS, Rabies, West Nile Virus, Ricketts. driven by Single phase DC motor, enclosed in a PU coated GI casing & directly Moderate potential hazard to personnel and the environment. Includes bacteria and viruses that cause only mild disease to humans, or are difficult to contract connected to the filter chamber inside the cabinet. Examples: Most Chlamydiae, hepatitis A, B, and C, influenza A, Lyme disease, Salmonella, mumps, and measles. The exhaust air will be sending out Exhaust Duct: Not known to consistently cause disease in healthy adult humans, and of through an exhaust duct made of al potential hazard to lat Examples: canine hepatitis, non-pathogenic Escherichia coli, and.non-infectious bacteria. 200 mm dia PVC pipe up to 10 feet length. Suitable canopy will be provided at the end of the duct.

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Standard 5A power point, power chord with 5 Schematic Drawing amps plug top, floor leveling screws, accessories castors & gas inlet, Standards US FED STD 209 E, ISO 14644-1, IEST-RP-(T compliance CC-002-2 Approximate 250 KG Weight before 2 packing 3-(8) 4-Weight after Approximate 400 KG if packed in full 5 packing wooden crate box 6)-0 11. Vertical corners are coving -(10) Special Features 000 finished; for easy cleaning 7 Working table is removal type for 12. easy cleaning -M Waste liquid collection tray -13. underneath worktable - for easy dispose off 14. Cabinet will be supplied with chemically treated and SS armrest Optional if required 15. Motorized Door LEGENDS 16. Micro Processor for LCD Display EXHAUST VENT 2 EXHAUST HEPA FILTER with feather touch switch control SUPPLY MOTOR BLOWER ASSEMBL' SUPPLY HEPA FILTER displaying following contents 5 PRE FILTER 6 UV LIGTHT ON/OFF, Blower, LED, UV Plug, DAY LIGHT MICRO PROCESSER CONTROLER Settings, Alarm off 8 9 P C SHEET DOOR 17. UV Hour Meter 10 HAND REST 11 LEVELING SCREWS Virus Burn Out 18. 19. H14 Grade HEPA filter for 99.99% Efficiency 20. ULPA Filter

CLEAN AIR SYSTEMS is an ISO 9001-2015 certified company & our products are CE certified NSIC: NSIC/BO(G)/GP/253/2011 UAN: TN02B0098373 CE CERTFICATION No: CE-16107 Contact: No 4, Senthil Nagar, 100 Feet Road, Arumbakkam, Chennai – 600 106 Ph: 044-2362 1476 Mob: +91 9841074504 Whatsapp: +919551119111 Website: www.cleanairindia.com



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## Cleanair<sup>®</sup> Bio Safety Cabinet Class II Type B2 (CBS 1200 B2)

Cleanair<sup>®</sup> Vertical Laminar Flow Class II Type B2 Biohazard Safety Cabinets provide personnel, product, and environmental protection. Laminar airflow enclosures with High Efficiency Particulate Air (HEPA) filtration of exhaust air and an air barrier at the work opening. HEPA-filtered Vertical laminar airflow, which is discharged to the work zone, creates an ultra-clean work environment for product protection. An air barrier between the operator and the work zone is maintained by a flow of room air into a full width grille in the work opening. The barrier air mixes with the laminar flow air in a sump underneath the work surface, and is exhausted to the outside environment via a HEPA filter. To contain potentially hazardous aerosols, negative pressure zones surround all the positive pressure zones and Filter sealing.

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Product Code	CBS 1200 B2	
Air flow pattern	<i>Vertical – Unidirectional, 70% re- circulation, 30% exhausted in to the room ambient</i>	Product Code CBS 1200 B2
Air Cleanliness	CLASS 100 as per US FED STD 209 E or CLASS 5 as per ISO 14644-1	
Inner working size	W 1200 x D 600 x H 600 mm (4 x 2 x 2 Feet)	
Over all dimension	W 1300 X D 750 X H 2050 mm including support stand	
Support stand	under-bench support-stand made of heavy duty square pipes- MS with PU coated finish or IS 304 SS respectively	
Particle Retention	0.3 Micron & Above	
Noise Level	65 decibel on "A" scale ± 5	
Velocity	90 FPM ± 20	
Work table	Removable type tabletop, made of perforated IS 304 Grade SS with satin finished, underneath provided with drain- pan to collect & dispose of liquid wastes. The front edge of the working table is curve finished and perforated for comfortable arm resting	MAKE IN INDIA
Front door	Made of clear 5 mm Polycarbonate sheet - vertical sliding, while opening the door UV Lamp will be cut "OFF" and while closing the door UV Lamp will be "ON" automatically.	CC.C.C.

Side Panels	Both the sidewalls are made from double	Ainflow Dattom
	layered outer GI & inner stainless steel or	Airflow Pattern
	Both in Stainless Steel respectively with	
	return-air plenum in between Edges are	
	perforated to avoid entry of room air into	A Front Opening
	the work zone and exit of contaminated	🙀 , 🏦 🖳 B. Sash
	air in to the room and such contaminated	C Exhaust HEPA Filter
	air is sucked through this full height	
	perforation at the edges of the sidewalls	D. Supply HEPA Filter
U V lamp	3 Feet, 30 Watts, Make – PHILIPS: 1 Nos	G G E Negative Pressure Plenum
Illumination	2 Feet, 20 Watts LED tubes: 1 Nos	E F. Supply Blower
Pressure (ΔP)	Digital Display Gauge	G. Filter Screen
ON/OFF Controls:	Soft touch switch pads provided for blower,	
	UV & Daylight lamp	
Power Supply	230V, Single phase, 50 Hz	Side View Front View
HEPA Filter	Media: Ultra clean glass fiber paper –	
Supply Air &	<pre>imported;Type:Mini-Pleated constructions;</pre>	Room air Contaminated if HEIA-hitered air air
Exhaust	Retention:0.3Micron; Efficiency 99.97%;	CLASS II TYPE B-II BIOSAFETY CABINETS
	Pressure drop :12 mm WG;Grade:H13	
PRE Filter	Synthetic, non-woven polyester fibers with	
	protective mesh and deep-comb formed	
	into PU coated GI casing. IPD 6mm, Particle	
	Retention: 5 Micron. Efficiency: 95 %.	Dangerous and exotic
Material of	The Cabinet made from Galvanized Iron 18	risk of across the T
construction	SWG sheet metal with polyurethane paint	infections Infections and the set of the set
	coated finish (or) The Complete Cabinet in	without treatment or vaccines. Examples: Ebola, Smallpox.
	IS 304 grade SS construction with satin	Microbes there can be either indigenous or exolic, and they can cause
	finish	serious or potentially lethal disease through respiratory transmission.
Supply Air Blower	Outer rotor type motor blower, which	Examples: HIV, HINI Flu, Tuberculosis, Yersinia pestis (The Plague), SARS, Rables, West Nile Virus, Ricketts.
	consists of dynamically & statically	Moderate potential hazard to personnel and the
	balanced aluminum centrifugal impeller	only mild disease to humans, or are difficult to contract via aerosol in a lab setting
	driven by Single phase motor, enclosed in	Examples: Most Chiamydiae, hepatitis A, B, and C, influenza A, Lyme disease, Salmonella, mumps, and measles.
	a PU coated GI casing & directly connected	Not known to consistently cause disease in healthy adult humans, and of minimal potential hazard to laboratory personnel and the environment.
	to the filter chamber inside the cabinet.	Examples: canine hepatitis, non-pathogenic Escherichia coli, and.non-infectious bacteria.
Exhaust Blower	Having a displacing capacity of 1360	
	CMH at a static of 40 mm WG and made	
	of mild steel and directly driven by	

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Single phase, 1440-RPM AC motor are Schematic Drawing provided The exhaust air will be sending out Exhaust Duct: through an exhaust duct made of 150/200 mm dia PVC pipe up to 10 feet length. Suitable canopy will be provided at the end of the duct. 2 5A power point, power chord with 5 Standard 3 T (4) accessories amps plug top, floor leveling screws, (5)castors & gas inlet, (0)US FED STD 209 E, ISO 14644-1, IEST-RP-11 Standards compliance CC-002-2 6 Weight Approximate 250 KG before packing Weight after Approximate 400 KG if packed in full packing wooden crate box 23. Vertical corners coving are Special Features finished; for easy cleaning Working table is removal type for 24. easy cleaning LEGENDS Waste liquid collection tray -25. EXHAUST VENT EXHAUST HEPA FILTER underneath worktable - for easy EXHAUST MOTOR BLOWER ASSEMBLY SUPPLY MOTOR BLOWER ASSEMBLY dispose off SUPPLY HEPA FILTER 6 UVIGTH Cabinet will be supplied with 26. DAY LIGHT chemically treated and SS armrest 8 PRE FILTER q MICRO PROCESSER CONTROLER Optional if required 27. Motorized Door 10 P C SHEET DOOR 11 HAND RES 28. LCD Display with feather touch 12 LEVELING SCREWS switch control displaying following contents ON/OFF, Blower, LED, UV Plug, Settings, Alarm off 29. UV Hour Meter 30. DC Motor 5. Virus Burn Out CLEAN AIR SYSTEMS is an ISO 9001-2015 certified company & our products are CE certified NSIC: NSIC/BO(G)/GP/253/2011 UAN: TN02B0098373 CE CERTFICATION No: CE-1124 Contact: No 4, Senthil Nagar, 100 Feet Road, Arumbakkam, Chennai – 600 106 Ph: 044-2362 1476 +91 9841074504 Whatsapp: +919551119111 Mob: Website: www.cleanairindia.com ISO 9001 : 2008 091-CB-OHSMS

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## Cleanair<sup>®</sup> Bio Safety Cabinet Class II Type A2 (CBS 1800 A2)

Cleanair<sup>®</sup> Class II A2 Biohazard Safety Cabinets provide personnel, product, and environment protection Velocity of airflow to the work zone creates an ultra-clean environment for product protection, where the remaining exhaust air is discharged out. Air barrier at the work opening and the contaminated air plenum is under positive pressure. An air barrier between the operator and the work zone is maintained by a flow of room air through a full width grille in the work opening. The barrier air mixes with the laminar flow air in a sump underneath the work surface, and is exhausted to the outside environment through a HEPA filter. Have HEPA filtered down flow air from a common plenum. (I.e. from which a portion of the air is exhausted from the cabinet and the remaining air is supplied to the work area).

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Product Code	CBS 1800 A2	
Air flow pattern	<i>Vertical – Unidirectional, 70% re- circulation, 30% exhausted in to the room ambient</i>	Product Code CBS 1800 A2
Air Cleanliness	CLASS 100 as per US FED STD 209 E or CLASS 5 as per ISO 14644-1	<b>2</b>
Inner working size	W 1800 x D 600 x H 600 mm (6 x 2 x 2 Feet)	
Over all dimension	W 1900 X D 750 X H 2050 mm, approx including removable type support stand	
Support stand	under-bench support-stand made of heavy duty square pipes- MS with PU coated finish or IS 304 SS respectively	
Particle Retention	0.3 Micron & Above	H
Noise Level	60 decibel on "A" scale ± 5	
Inflow Velocity	100 FPM ± 20	
Downflow Velocity	80 FPM ± 20	
Work table	Removable type tabletop, made of perforated IS 304 Grade SS with satin finished, underneath provided with drain- pan to collect & dispose of liquid wastes. The front edge of the working table is curve finished and perforated for comfortable arm resting	MIRKE IN INDIA
Front door	Made of clear 5 mm Polycarbonate sheet - vertical sliding, while opening the door UV Lamp will be cut "OFF" and while closing	

the door UV will "ON" Lamp be automatically. Airflow Pattern Side Panels Both the sidewalls are made from double layered outer GI & inner stainless steel or A. Front opening Both in Stainless Steel respectively with B-Sash return-air plenum in between C-Exhaust HEPA 3 Feet, 30 Watts, Make – PHILIPS: 1 Nos U V lamp D - Supply HEPA Filter Illumination 4 Feet, Watts LED tubes: 1 Nos E- Positive Pressure Plenum Pressure  $(\Delta P)$ Digital Display Gauge F-Negative Pressure Plenum ON/OFF Controls: Soft touch switch pads provided for blower, UV & Daylight lamp Power Supply 230V, Single phase, 50 Hz Media: Ultra clean glass fiber paper -Room air HEPA Filter Contaminated imported;Type:Mini-Pleated Supply Air & constructions;Retention:0.3Micron; HEPA-filtered Exhaust Efficiency: 99.97%; Pressure drop :12 mm WG; Grade:H14 rating Side View Front Viey PRE Filter Synthetic, non-woven polyester fibers with CLASS II TYPE A-II BIOSAFETY CABINETS protective mesh and deep-comb formed into PU coated GI casing. IPD 6mm, Particle Retention: 5 Micron. Efficiency: 95 %. of Material The Cabinet made from Galvanized Iron 18 SWG sheet metal with polyurethane paint construction coated finish (or) The Complete Cabinet in IS 304 grade SS construction with satin finish Supply Air Blower Outer rotor type motor blower, which consists of dynamically & statically balanced aluminum centrifugal impeller Examples: HIV, HIN1 Flu, Tuberculosis, Yersinia pestis (The Plague), SARS, Rabies, West Nile Virus, Ricketts. driven by Single phase motor, enclosed in a PU coated GI casing & directly connected Moderate potential hazard to personnel and the environment. Includes bacteria and viruses that cause only mild disease to humans, or are difficult to contract to the filter chamber inside the cabinet. Examples: Most Chlamydiae, hepatitis A, B, and C, The exhaust air will be sending out Exhaust Duct: influenza A, Lyme disease, Salmonella, mumps, and measles. through an exhaust duct made of Not known to consistently cause disease in healthy adult humans, and of mal potential hazard to laboratory personnel and the environm Examples: canine hepatitis, non-pathogenic Escherichia coli, 150/200 mm dia PVC pipe up to 10 and.non-infectious bacteria. feet length. Suitable canopy will be provided at the end of the duct.

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Standard 5A power point, power chord with 5 amps plug top, floor leveling screws, accessories Schematic Drawing castors & gas inlet, US FED STD 209 E, ISO 14644-1, IEST-RP-Standards compliance CC-002-2 Approximate 185 KG Weight before 1) packing Weight after Approximate 280 KG if packed in full 2)packing wooden crate box 3)-<u>4</u>coving 31. Vertical corners are 0 Special Features 3)-0 6)finished; for easy cleaning Working table is removal type for 32. easy cleaning D-Waste liquid collection tray -33. underneath worktable - for easy dispose off Cabinet will be supplied with 34 chemically treated and SS armrest Motorized Door Optional if required 35. LEGENDS 36. LCD Display with feather touch EXHAUST VENT 2 EXHAUST HEPA FILTER switch control displaying following SUPPLY MOTOR BLOWER ASSEMBLY 3 SUPPLY HEPA FILTER contents ON/OFF, Blower, LED, UV 5 PRE FILTER Plug, Settings, Alarm off 6 UV LIGTHT 7 DAY LIGHT 37. UV Hour Meter MICRO PROCESSER CONTROLER 8 P C SHEET DOOR 9 38. Virus Burn Out 10 HAND REST 11 LEVELING SCREWS CLEAN AIR SYSTEMS is an ISO 9001-2015 certified company & our products are CE certified NSIC: NSIC/BO(G)/GP/253/2011 UAN: TN02B0098373 CE CERTFICATION No: CE-1124

**Contact:** No 4, Senthil Nagar, 100 Feet Road, Arumbakkam, Chennai – 600 106 Ph: 044-2362 1476 Mob: +91 9841074504 Whatsapp: +919551119111 Website: <u>www.cleanairindia.com</u>





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### Cleanair<sup>®</sup> Bio Safety Cabinet Class II Type B2 (CBS 1800 B2)

Cleanair<sup>®</sup> Vertical Laminar Flow Class II Type B2 Biohazard Safety Cabinets provide personnel, product, and environmental protection. Laminar airflow enclosures with High Efficiency Particulate Air (HEPA) filtration of exhaust air and an air barrier at the work opening. HEPA-filtered Vertical laminar airflow, which is discharged to the work zone, creates an ultra-clean work environment for product protection. An air barrier between the operator and the work zone is maintained by a flow of room air into a full width grille in the work opening. The barrier air mixes with the laminar flow air in a sump underneath the work surface, and is exhausted to the outside environment via a HEPA filter. To contain potentially hazardous aerosols, negative pressure zones surround all the positive pressure zones and Filter sealing.

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Product Code	CBS 1800 B2	
Air flow pattern	<i>Vertical – Unidirectional, 100% exhaust and 0% recirculation</i>	Product Code CBS 1800 B
Air Cleanliness	CLASS 100 as per US FED STD 209 E or CLASS 5 as per ISO 14644-1	
Inner working size	W 1800 x D 600 x H 600 mm (6 x 2 x 2 Feet)	
Over all dimension	W 1880 X D 750 X H 2050 mm including support stand	
Support stand	under-bench support-stand made of heavy duty square pipes- MS with PU coated finish or IS 304 SS respectively	
Particle Retention	0.3 Micron & Above	
Noise Level	65 decibel on "A" scale ± 5	
Velocity	90 FPM ± 20	
Work table	Removable type tabletop, made of perforated IS 304 Grade SS with satin	
	finished, underneath provided with drain- pan to collect & dispose of liquid wastes. The front edge of the working table is curve finished and perforated for comfortable arm resting	
Front door	Made of clear 5 mm Polycarbonate sheet - vertical sliding, while opening the door UV Lamp will be cut "OFF" and while closing the door UV Lamp will be "ON" automatically.	MAKE IN INDIA

Side Panels	Both the sidewalls are made from double	
	layered outer GI & inner stainless steel or	Airflow Pattern
	Both in Stainless Steel respectively with	
	return-air plenum in between Edges are	
	perforated to avoid entry of room air into	
	the work zone and exit of contaminated	A. Front Opening
	air in to the room and such contaminated	B.Sash
	air is sucked through this full height	C. Exhaust HEPA Filter
	perforation at the edges of the sidewalls	D. Supply HEPA Filter
U V lamp	3 Feet, 30 Watts, Make – PHILIPS: 1 Nos	E. Negative Pressure Plenum
Illumination	4 Feet, LED tubes: 1 Nos	F. Supply Blower
Pressure (ΔP)	Digital Display Gauge	
ON/OFF Controls:	Soft touch switch pads provided for blower,	G. Filter Screen
	UV & Daylight lamp	
Power Supply	230V, Single phase, 50 Hz	
HEPA Filter	Media: Ultra clean glass fiber paper –	Side View Front View
Supply Air &	<pre>imported;Type:Mini-Pleated constructions;</pre>	Room air Contaminated
Exhaust	Retention:0.3Micron; Efficiency 99.97%;	CLASS II TYPE B-II BIOSAFETY CABINETS
	Pressure drop :12 mm WG;	
	Grade:H14 rating	
PRE Filter	Synthetic, non-woven polyester fibers with	
	protective mesh and deep-comb formed	
	into PU coated GI casing. IPD 6mm, Particle	
	Retention: 10-15 Micron. Efficiency: 90 %.	and exote, posing a high A
Material of	The Cabinet made from Galvanized Iron 18	infections Infections
construction	SWG sheet metal with polyurethane paint	are frequently fatal and without breatment or vaccines.
	coated finish (or) The Complete Cabinet in	Examples: Ebola, Smallpox.
	IS 304 grade SS construction with satin	Microbes there can be either indigenous or exotic, and they can cause serious or potentially lethal disease
	finish	through respiratory transmission. Examples: HIV, HINI Flu, Tuberculosis,
Supply Air Blower	Outer rotor type motor blower, which	Examples: Ebola, Smallpox. Microbes there can be either indigenous or exotic, and they can cause serious or potentially lethal disease through respiratory transmission. Examples: HIV, HINI Flu, Tuberculosis, Yersinia pestis (The Plague), SARS, Rables, West Nile Virus, Ricketts. Moderate potential hazard to personnel and the environment. Includes bacteria and viruses that cause
	consists of dynamically & statically	
	balanced aluminum centrifugal impeller	only mild disease to humans, or are difficult to contract via aerosol in a lab setting Examples: Most Chlamydiae, hepatitis A, B, and C,
	driven by Single phase motor, enclosed in	Influenza A, Lyme disease, Salmonella, mumps, and measles.
	a PU coated GI casing & directly connected	Not known to consistently cause disease in healthy adult humans, and of minimal potential hazard to laboratory personnel and the environment. Examples: canine hepatitis, non-patitogenic Escherichia coli,
	to the filter chamber inside the cabinet.	and.non-infectious bacteria.
Exhaust Blower	Having a displacing capacity of 1360	
	CMH at a static of 40 mm WG and made	
	of mild steel and directly driven by	

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Single phase, 1440-RPM motor are Schematic Drawing provided The exhaust air will be sending out Exhaust Duct: through an exhaust duct made of 150/200 mm dia PVC pipe up to 10 feet length. Suitable canopy will be provided at the end of the duct. Standard 5A power point, power chord with 5 accessories amps plug top, floor leveling screws, 2 3 castors & gas inlet, (4)-US FED STD 209 E, ISO 14644-1, IEST-RP-Standards 3 compliance CC-002-2 Weight Approximate 250 KG before 6 packing Weight after Approximate 400 KG if packed in full packing wooden crate box 39. Vertical corners coving are Special Features finished; for easy cleaning Working table is removal type for 40. easy cleaning LEGENDS Waste liquid collection tray -41. EXHAUST VENT EXHAUST HEPA FILTER underneath worktable - for easy EXHAUST MOTOR BLOWER ASSEMBLY 4 SUPPLY MOTOR BLOWER ASSEMBLY dispose off SUPPLY HEPA FILTER 6 UV LIGTHT Cabinet will be supplied with 42. DAY LIGHT chemically treated and SS armrest 8 PRE FILTER 9 MICRO PROCESSER CONTROLER Optional if required 43. Motorized Door 10 P C SHEET DOOR 44. LCD Display with feather touch HAND REST 12 LEVELING SCREW switch control displaying following contents ON/OFF, Blower, LED, UV Plug, Settings, Alarm off 45. UV Hour Meter Virus Burn Out 46. CLEAN AIR SYSTEMS is an ISO 9001-2015 certified company & our products are CE certified NSIC: NSIC/BO(G)/GP/253/2011 UAN: TN02B0098373 CE CERTFICATION No: CE-1124 Contact: No 4, Senthil Nagar, 100 Feet Road, Arumbakkam, Chennai – 600 106 Ph: 044-2362 1476 Mob: +91 9841074504 Whatsapp: +919551119111 Website: www.cleanairindia.com

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