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BIO SAFETY CABINET

Cabinets/Enclosures for life sciences utilize HEPA filters and directional airflow to provide environmental, personnel and/or product protection. BSCs, are suitable for work with hazardous particulates like bacteria, viruses, and hazardous drugs. Fume hoods provide only personnel protection from hazardous chemical fumes and gases.

This Biohazard Cabinet offers operator protection from low to moderate risk biological agents (or chemical carcinogens, while providing a sterile work environment for the procedure. The cabinet is kept under negative pressure with partial quantity of re-circulated air exhausted through a HEPA filter. External exhaust from the laboratory is optional. Especially suited for wet processing, water fab, chemical work, critical biological work involving virus and pathogens & for microbiology, biochemistry etc.

USES & APPLICATIONS INCLUDE:

- *Isolation and identification of plant/human pathogens*
- *Work in virology*
- *Tissue culture*
- *Sterility testing*
- *Recombinant DNA research*

BIO SAFETY CABINET - CLASS II (MAKE: OPTICS)





BIO SAFETY CABINET - CLASS II (MAKE: OPTICS)



OT-BSC-90-CLASS II

WOODEN BODY

BIOSAFETY CABINET (CLASS II) CEE

Applications include isolation and identification of plant/human pathogens, work in virology, tissue culture, sterility testing and recombinant DNA research. This Biohazard Cabinet offers operator protection from low to moderate risk biological agents (or chemical carcinogens), while providing a sterile work environment for the procedure. The cabinet is kept under negative pressure with partial quantity of recirculated air exhausted through a HEPA filter. External exhaust from the laboratory is optional.

The Biological Safety Cabinet is similar in performance and specification to the Vertical Series, described on reserse.

The additional main features are as under:-

- Specially suited for Pathogenic work, chemical work, critical biological work involving virus and pathogens & for microbiology, biochemistry etc.
- **Standard S.S. Perforated table.**

Imported Mini Pleat HEPA of 0.3 μ of an efficiency of 99.97% down to 0.3 micron
Media is of glass fiber & made of pleats back & fro in an anodized aluminum frame
(With Test Report)

- Statically & Dynamically Balanced motor blower Assembly (Heavy Duty)
- Energy Efficient Blowers
- Integral powerful exhaust system. Built-in-positive Air Curtain effect to prevent inside air from going out and room air from entering in, providing total process and operator safety.
- Exhaust ducting to carry the air outside.
- Front sliding door, U.V. light, Manometer, Gas cock etc.
- Mini Pleat HEPA Filter in Exhaust.
- Virus Burn out Unit in Exhaust.

Class-II A2	AIR FLOW	70% of the air is recirculated back into the work area and 30% of the air is HEPA filtered and exhausted out to the environment via a dedicated duct.
Class-II B2	AIR FLOW	100% exhaust without mixing with the recirculated air.



OT-BSC-90 MS-CLASS II

M.S. BODY

Outer Body: Wooden / Mild Steel Duly Powder Coated / Stainless Steel (S.S. 304)

MODEL NO.

WORKING SIZE

OT-BSC-90-II-W/MS/SS-A 2' x 2' x 2'

OT-BSC-90-II-W/MS/SS-B 3' x 2' x 2'

OT-BSC-90-II-W/MS/SS-C 4' x 2' x 2'

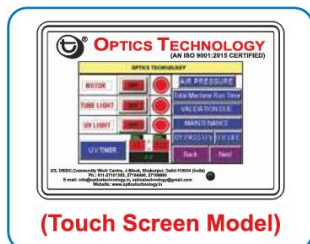
OT-BSC-90-II-W/MS/SS-D 6' x 2' x 2'

OT-BSC-90-II-W/MS/SS-E 8' x 2' x 2'



OT-BSC-90 SS-CLASS II

S.S. BODY



(Touch Screen Model)

FACE VELOCITY: A face velocity of 90 $\pm$ 20 FPM is maintained.

Optional:

1. Magnahelic Gauge in place of Static Pressure Manometer.
2. Digital Manometer
3. U.V. Resistant Poly Carbonate sheet in place of Acrylic Sheet.
4. LCD display with soft touch switches for motor, U.V. Light, F.V. Light & U.V. Timer
5. Gloves Port (Without Gloves)
6. Automatic motorised front door lifting arrangement
7. Online transfer of data without any cable/wire Interference

“
ULPA Filter of 0.1 μ
with an efficiency
of 99.99% is
also available
”



MICROPROCESSOR BASED TOUCH SCREEN DISPLAY SYSTEM

- » Display of velocity with lower and upper safe limits.
- » Display of total run time of instrument & timer for U.V. lamp
- » Control of U.V. light to prevent the operator from U.V. rays as and when required.
- » Automatic Door sensors to switch off the U.V. light when door is opened.
- » Display of message for life of HEPA filter, U.V. light etc.

MOC : MS-Mild steel dully powder coated SS-stainless steel W-Wooden Body kindly select the one required in model number.



BIO SAFETY CABINET - CLASS III (MAKE: OPTICS)



OT-BSC-91-CLASS III MS

BIOSAFETY CABINET (CLASS III) CE

"OPTICS TECHNOLOGY" Class III Bio safety cabinet offers the highest level of operator, product and environmental protection from infectious/biohazardous aerosols and is suitable for microbiological work. Designed for an absolute level of containment, it is frequently used for work involving the deadliest bio-hazards.

A Class III cabinet is defined as a totally enclosed, ventilated cabinet with leak-tight construction it is also called glove boxes. The cabinet is maintained under negative pressure and supply air is drawn in through HEPA filters.

A supply of HEPA filtered air provides product protection and prevents cross contamination of samples while exhaust air is HEPA-filtered and incinerated.

Key Benefits:

Safer dual main with 100% exhaust filters

Exclusive dual main exhaust filters provide > 100,000 times better protection than single-stage designs.

An integrated pass-through with interlocking doors permits materials transfer without risk of environmental contamination.

An angled cabinet front ensures a comfortable working posture.

Energy Efficient Blowers

Class-III **AIR FLOW** 100% exhaust without mixing with the recirculated air.

With Glove Port (Without Gloves)

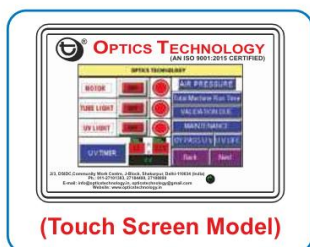
Outer Body : Wooden / Mild Steel Duly Powder Coated / Stainless Steel (S.S. 304)

Validation of Laminar Air Flow, BioSafety Cabinet is also Available

Brand	: Optics Technology	Model No.	W X D X H
Electric Supply	: Single Phase 220 Volts, 50 Hz	OT-BSC-91-III W/MS/SS-A	2' x 2' x 2'
Filter	: Imported Mini Pleat HEPA FILTER	OT-BSC-91-III W/MS/SS-B	3' x 2' x 2'
Usage/ Application	: Laboratory	OT-BSC-91-III W/MS/SS-C	4' x 2' x 2'
Glove Port	: 2	OT-BSC-91-III W/MS/SS-D	6' x 2' x 2'
		OT-BSC-91-III W/MS/SS-E	8' x 2' x 2'

Optional:

1. Magnahelic Gauge in place of Static Pressure Manometer.
2. Digital Manometer
3. U.V. Resistant Poly Carbonate sheet in place of Acrylic Sheet.
4. LCD display with soft touch switches for motor, U.V. Light, F.V. Light & U.V. Timer
5. Imported Gloves
6. Automatic motorised front door lifting arrangement
7. Online transfer of data without any cable/wire Interference



(Touch Screen Model)

MICROPROCESSOR BASED TOUCH SCREEN DISPLAY SYSTEM

- » Display of velocity with lower and upper safe limits.
- » Display of total run time of instrument & timer for U.V. lamp
- » Control of U.V. light to prevent the operator from U.V. rays as and when required.
- » Automatic Door sensors to switch off the U.V. light when door is opened.
- » Display of message for life of HEPA filter, U.V. light etc.

MOC : MS-Mild steel duly powder coated SS-stainless steel W-Wooden Body **kindly select the one required in model number.**