



BIOSURE

CLASS II & III Biosafety Cabinet





BIOSURE Biosafety Cabinets

Dyna Make Biological Safety Cabinet (BSC) is an enclosed, ventilated workspace designed to work safely on products contaminated with pathogens requiring a defined biosafety level, to protect the operator & environment from containment. Dyna Biosure effectively provides Bioexclusion and Biocontainment.

Dyna Biosafety cabinets have found varied use for manipulation of materials containing infectious and hazardous agents in various applications such as Microbiology, Virology, Hematology, Chemotherapy drug Dispensing, cell culture, Genetics and Handling of hazardous Human beings and Animals.

India's Only EN12469 certified Biosafety cabinet

Dyna BIOSURE Biosafety Cabinet offers

- **Only BSC in the world to provide Siemens make PLC HMI based Auto performance control**
- More workspace in a compact design
- 4.3" touchscreen digital display
- Class leading features Superior quality, better ergonomics & higher reliability.
- Performances complying to NSF/ANSI 49



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FEATURES

Ergonomics (Ease of Working)

- 10 deg. angled cabinet front improves a comfortable working posture
- Frameless Sash is made from 6mm toughened safety glass.
- Alarms and proximity sensors for correct sash positions



Filtration (HEPA/ ULPA Filters)

- Equipped with Custom Designed H14 HEPA filter to offer uniform air distribution
- ULPA filter available on request

Air flow Control

- G1 balanced blowers to reduce vibration
- External exhaust damper for precise airflow control

SIEMENS Control System (PLC/HMI Based Automatic Control)

- Only biosafety cabinet in the world with SIEMENS PLC & color touchscreen control system offers high level of atomization
- An integral blower & UV meter tracks operating life for maintenance
- Easy serviceability anywhere in the world

Microprocessor based control system (Optional available)



Armrest (Raised Removable Armrest)

- Removable type armrest enhances user comfort & prevents blocking of grill
- Removable one piece work surface simplifies cleaning



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Robust Construction

- Double Walled construction with negative plenum
- Single Piece stainless steel inner structure

Easy Maintenance (Front Access Maintenance)

- Front Dragsheet with gas springs helps carry out all Filter, Fan & Electrical Maintenance from Front Side
- Hinged Cabinet front and Sliding Sash for easy and thorough cleaning



Ease of Control

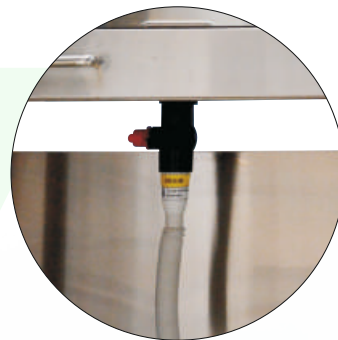
- Velocity Sensor indicates & alarms the Inflow & Downflow (Optional Velocity)
- Pressure sensor indicates filter life
- Proximity sensor for precise SASH position
- UV interlock Feature for safety and Auto switch off Feature for user convenience
- Integral Blower and UV hour meter for tracking life



Built in Electrical socket and Gas Cock inside work area

Large Capacity Spill Trough

- Capacity up to 4L for spillage storage with drain cock & pipe

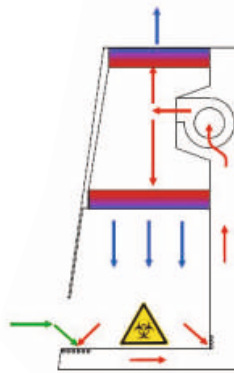


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BIOSURE Class II Type A2 Biosafety Cabinet

- Biosafety levels 1,2 & 3
- 70% air recirculation and 30% exhaust
- Workspace surrounded by negative plenum to avoid fouling of environment
- Air can be exhausted inside the room or can be vented out using a thimble duct
- ISO 5 work environment



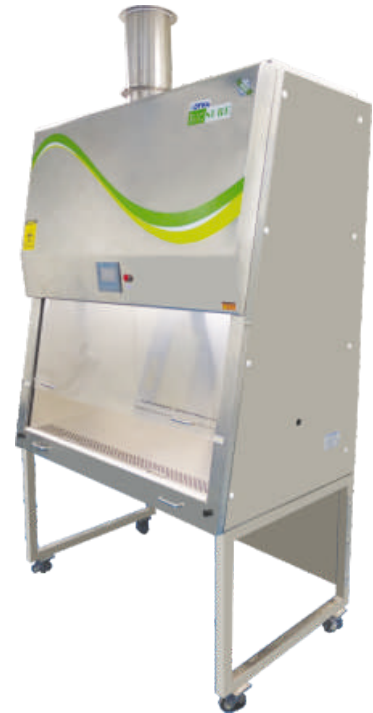
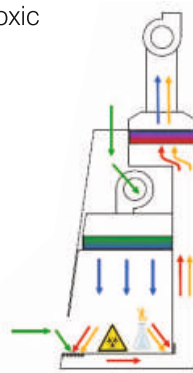
SPECIFICATIONS

Type	Class II, Type A2
Material of Construction	Exterior : GPSP duly Stove Enameled (Optional : SS 304) Interior : SS 304 (Optional : SS 316)
Airflow	70% Recycle, 30% Exhaust
Main Filter	Minipleat HEPA, Class : H14 (Optional ULPA)
Exhaust Filter	Minipleat HEPA, Class : H14 (Optional ULPA)
Filter Efficiency	HEPA 99.997% at 0.3 μm ULPA 99.999% at 0.12 μm
Inflow Velocity (fpm)	> 100
Noise (dB)	67 \pm 2
Lighting (Lux)	> 750
Standard Accessories Offered	Base stand with Heavy Duty Castor wheels & Levelling bolts, Electrical Socket, Gas Cock
Optional Accessories Offered	UPS for Battery backup, Thimble connection Virus Burner, Inverter + Battery
Power Supply	Single Phase, 220-240 VAV, 50 Hz
Models	Biosure II 2'X2', Biosure II 3'X2', Biosure II 4'X2', Biosure II 5'X2', Biosure II 6'X2'



BIOSURE Class II Type B2 Biosafety Cabinet

- Biosafety levels 1,2 & 3
- 100% air exhausted using a hard duct
- Workspace surrounded by negative plenum to avoid fouling of environment
- Inflow velocity \geq 100 FPM
- ISO 5 work environment
- Different from A2 to provide additional operator safety when working with toxic material having vapours and gases
- Ducting up to 5 meters can be provided



SPECIFICATIONS

Type	Class II, Type B2
Material of Construction	Exterior : GPSP duly Stove Enameled (Optional : SS 304) Interior : SS 304 (Optional : SS 316)
Airflow	0% Recycle, 100% Exhaust
Main Filter	Minipleat HEPA, Class : H14 (Optional ULPA)
Exhaust Filter	Minipleat HEPA, Class : H14 (Optional ULPA) HEPA 99.997% at 0.3 μ m
Filter Efficiency	HEPA 99.997% at 0.3 μ m ULPA 99.999% at 0.12 μ m
Inflow Velocity (fpm)	> 100
Noise (dB)	67 \pm 2
Lighting (Lux)	> 750
Standard Accessories Offered	Base stand with Heavy Duty Castor wheels & Levelling bolts, Electrical Socket, Gas Cock
Optional Accessories Offered	UPS for Battery backup, Thimble connection Virus Burner, Invertor + Battery
Power Supply	Single Phase, 220-240 VAV, 50 Hz
Models	Biosure II 2'X2', Biosure II 3'X2', Biosure II 4'X2', Biosure II 5'X2', Biosure II 6'X2'

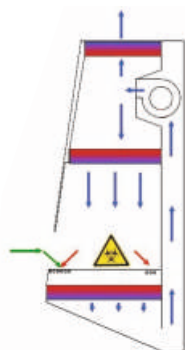


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BIOSURE Cytotoxic Biosafety Cabinet

- Biosafety levels 1,2 & 3
- 70% air recirculation and 30% exhaust
- Workspace surrounded by negative plenum to avoid fouling of environment
- Air can be exhausted inside the room or can be vented out using a thimble duct
- ISO 5 work environment
- Additional HEPA/ ULPA filtration below workbench
- Specifically applicable to cytotoxic medicines, virally infected cultures and toxic reagents etc.



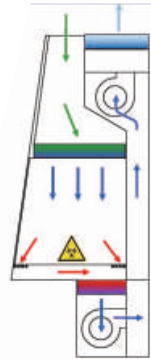
SPECIFICATIONS

Type	Class II, Type A2 Cytotoxic
Material of Construction	Exterior : GPSP duly Stove Enameled (Optional : SS 304) Interior : SS 304 (Optional : SS 316)
Airflow	70% Recycle, 30% Exhauste
Main Filter	Minipleat HEPA, Class : H14 (Optional ULPA)
Exhaust Filter	Minipleat HEPA, Class : H14 (Optional ULPA)
3rd Stage HEPA below Work Table	V-Cell Minipleat HEPA, Class : H14 (Optional ULPA)
Filter Efficiency	HEPA 99.997% at 0.3 μm ULPA 99.999% at 0.12 μm
Inflow Velocity (fpm)	> 100
Noise (dB)	67 \pm 2
Lighting (Lux)	> 750
Standard Accessories Offered	Base stand with Heavy Duty Castor wheels & Levelling bolts, Electrical Socket, Gas Cock
Optional Accessories Offered	UPS for Battery backup, Thimble connection Virus Burner, Inverter + Battery
Power Supply	Single Phase, 220-240 VAV, 50 Hz
Models	Biosure II 2'X2', Biosure II 3'X2', Biosure II 4'X2', Biosure II 5'X2', Biosure II 6'X2'



BIOSURE Class III Biosafety Cabinet

- Biosafety level 4
- 100% air exhausted using a hard duct
- Gas Tight Enclosure
- Cabinet and associated Ducting under Negative Pressure
- Access to Interior only through passboxes
- Completely sealed view window
- Gloves attached to the front prevents direct contact with hazardous material
- ISO 5 work environment
- Two stage exhaust filtration



SPECIFICATIONS

Type	Class III
Material of Construction	Exterior : GPSP duly Stove Enameled (Optional : SS 304) Interior : SS 304 (Optional : SS 316)
Airflow	0% Recycle, 100% Exhaust
Main Filter	Minipleat HEPA, Class : H14 (Optional ULPA)
Exhaust Filter	Minipleat HEPA, Class : H14 (Optional ULPA)
3rd Stage HEPA below Work Table	V-Cell Minipleat HEPA, Class : H14 (Optional ULPA)
Filter Efficiency	HEPA 99.997% at 0.3 μm ULPA 99.999% at 0.12 μm
Downflow Velocity	90 \pm 20% fpm
Noise (dB)	67 \pm 2
Lighting (Lux)	>750
Standard Accessories Offered	Base stand with Heavy Duty Castor wheels & Levelling bolts, Electrical Socket, Gas Cock
Optional Accessories Offered	UPS for Battery backup, Thimble connection Virus Burner, Inverter + Battery
Power Supply	Single Phase, 220-240 VAV, 50 Hz
Models	Biosure III 2'X2', Biosure III 3'X2', Biosure III 4'X2', Biosure III 5'X2', Biosure III 6'X2'



BIOSURE CLASS II Type A2/B2 Biosafety Cabinet

Dyna BIOSURE BSC Class II A2/ B2, also known as type C1 biosafety cabinet, functions in both modes A2 and B2 in single touch. The conversion of the modes in this BSC is done automatically. It also offers:

- Performances and Features as per Class II type A2 and type B2
- EC motors for air flow control
- A2/ B2 mode change in single touch



PCR Cabinets

PCR Cabinets direct HEPA-filtered laminar air downwards over the work area. These cabinets offer:

- Class 100 work area to perform Polymerase Chain Reaction experiments
- UV light with timer to deactivate the DNA/ RNA contaminants

IVF Cabinets

IVF Cabinets are specifically designed for embryologists to achieve a high fertility success rates. These cabinets offer:

- Class 100 work area
- Temperature and humidity control
- Multi zone heating system
- UV light with timer for decontamination
- Pre-mix gas system available



Contamination Control Equipment for HP-API

Dyna introduces FSI (Flow Sciences Inc) USA. World Leading Solution provider for contamination control in HP-API, Oncology, Nano particle, steroids, hormones etc. Units come fully tested for OES qualification through Mannequin Test, Airflow smoke pattern test etc.



Contained Vented Enclosures



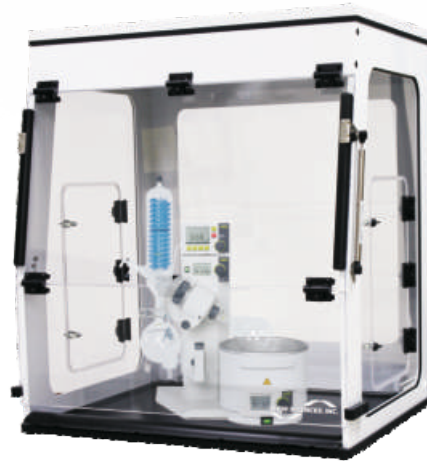
Hybrid Isolators



Nitrogenema Enclosures



SAFT FLOW Fume Hoods



Process Equipment Enclosures



Vented Balance Safety Enclosures



Glovebox Workstations

APPLICATION

'Contamination Control Products are used where APIs, Chemical agents or Biological Agents that can cause harm to the individual or the process, are involved. Processes such as Weighing, transferring, manipulation or transformation can be done with safety in FSI enclosures. FSI encloses equipment such as Balances, titrators, blenders, mills, for analytical testing, forensics, medical processes, chemotherapy, nanotechnology and many other containment needs thus ensuring Product, Operator and environment's safety simultaneously.'



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