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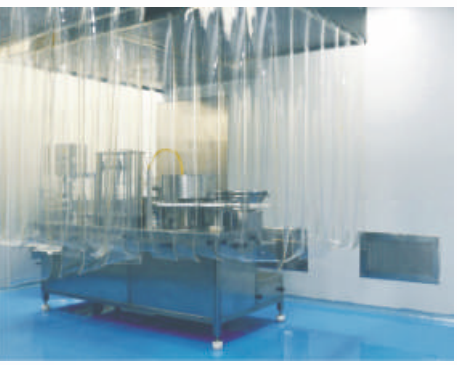


CLEANROOM EQUIPMENTS

Laminar Airflow Workstations

Ceiling Suspended LAFs

Sampling/Powder Dispensing Booth (RLAF)

Mobile Trolley

Cleanroom Pass Boxes

TÜV SÜD ISO 9001:2015 ISO ISO-14644 CE

Laminar Airflow Workstations

DYNA laminar airflow work stations create Clean areas supplied with a continuous flow of clean air to maintain a work environment that is free from dirt, particles, and toxic or noxious fumes.
Dyna provides an ISO Class 5 clean work area for laboratory appliances, microscopes, pipetting, compounding sterile drug preparations, IV admixture, electronic testing, manufacturing, or inspections.

Dyna Laminar Airflow Workstation (LAF) or Laminar Air Flow Unit (LAFU) are designed to provide a HEPA filtered clean air working environment for research and manufacturing to other fields where anti bacterial work area is required.

Horizontal LAF

FEATURES

Class 100 work area
Class 100 work area as per ISO 14644

Two stage Filtration
Equipped with H14 HEPA filter (with optional grill) and Washable type F7 pre-filter

Compact Design
The entire unit is designed in very less area with wheels and levelling bolts (optional)

Feather Touch Switches
Feather touch switches to control easy operation of the unit

Digital Differential Pressure Gauge with alarm
It indicates the filter life and alarm is raised when chocked

User Friendly Control System
Unit can be run in single click

Energy Efficient LED Lights
500 Lux glow in the area ensures good visibility

UV light with Hour meter
UV light to kill germs and bacteria along with its life indicator for timely replacements

Internal Auxiliary Sockets and Gas Cocks
Aux sockets and Gas Cocks to supply power and gas for additional equipment inside the work area

SPECIFICATIONS

Air Cleanliness	Class 100
Velocity	90 FPM ± 20%
Material of Construction	Exterior : SS 304 (SS 316 optional) Work table : Stainless Steel 304
Main Filter	Minipleat HEPA, Class : H14 (Optional ULPA)
Pre Filter	Pre Filter, Class : F7
Filter Efficiency	HEPA 99.997% at 0.3 μm ULPA 99.999% at 0.12 μm Pre Filter 95% at 5 μm
Noise (dB)	67±2
Lighting (Lux)	>500
Orientation of Flow	Vertical / Horizontal

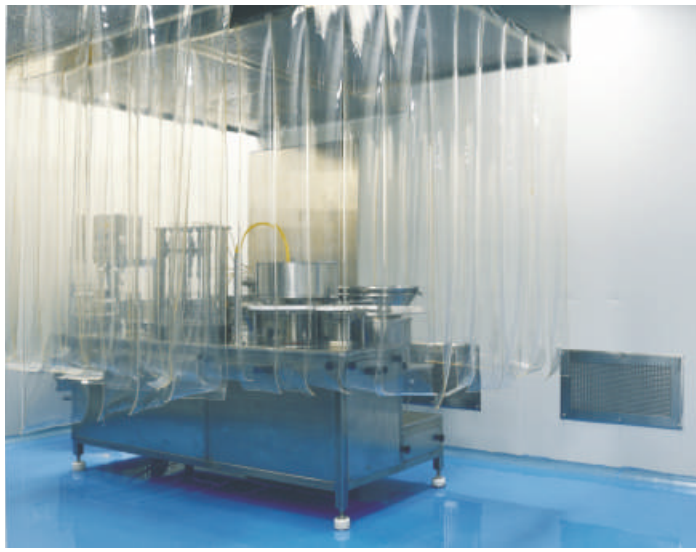
Vertical LAF

Model	Air Cleanliness	Interior Dimensions (WxDxH)	Exterior Dimensions (WxDxH)	Power Supply
DV/HLAF 2*2	Class 100	710*725*1830 mm	760*1350*2200 mm	220-240 V, 50 Hz
DV/HLAF 3*2		1015*725*1830 mm	1065*1065*2200 mm	
DV/HLAF 4*2		1320*725*1830 mm	1370*1350*2200 mm	

Ceiling Suspended Laminar Air Flow Unit (CLAF)

Dyna Ceiling Suspended Laminar Airflow Unit (CLAF)/ Stand Mounted Laminar Airflow Unit (CLAF)/ OT Plenums are designed to provide a HEPA filtered clean air working environment for manufacturing system where anti bacterial work area is required.

Best in class for asceptic filling areas with RABS.



FEATURES

Class 100 work area
Class 100 work area as per ISO 14644

Two stage Filtration
Equipped with H14 filter (with optional grill) with 10x filtration efficiency of HEPA filter and Washable type F7 pre-filter

Compact Design
The entire unit is designed in very less area with rods for hanging (optional)

Feather Touch Switches
Feather touch switches to control easy operation of the unit

Digital Differential Pressure Gauge with alarm
It indicates the filter life and alarm is raised when chocked

User Friendly Control System
Unit can be run in single click

Energy Efficient LED Lights
500 Lux glow in the area ensures good visibility

Internal Auxiliary Sockets (Optional)
Aux sockets and Gas Cocks to supply power and gas for additional equipment inside the work area

PVC Curtains
PVC curtains of suitable length will be provided

SPECIFICATIONS

Air Cleanliness	Class 100
Velocity	90 FPM ± 20%
Material of Construction	Exterior : G1 Powder Coated, SS 304 Work table : Stainless Steel 304
Main Filter	Minipleat HEPA, Class : H14 (Optional ULPA)
Pre Filter	Pre Filter, Class : F7
Filter Efficiency	HEPA 99.997% at 0.3 μm ULPA 99.999% at 0.12 μm Pre Filter 95% at 5 μm
Noise (dB)	67±2
Lighting (Lux)	>500
Orientation of Flow	Vertical

Model	Air Cleanliness	Interior Dimensions (WxDxH)	Exterior Dimensions (WxDxH)	Power Supply
DCLAF 4*2	Class 100	1220*610 mm	1320*710*750 mm	220-240 V, 50 Hz
DCLAF 6*2		1830*610 mm	1930*710*750 mm	

Sampling / Powder Dispensing Booth

(OFCB/ Solvent Dispensing Booth/ Mobile RLAF/ Reverse LAF)

Dyna Reverse Laminar Air Flow System is designed to provide highest level of safe and effective removal of work generated airborne contaminants. Dyna Sampling/ Powder Dispensing booth are designed to provide Class 100 area for the operator and surroundings

FEATURES

Class 100 work area
Class 100 work area as per ISO 14644

Three stage Filtration
Equipped with H14 HEPA filter (with optional grill) and Washable type F5 and F7 pre-filters

Compact Design
The entire unit is designed in very less area with work table (optional)

Feather Touch Switches
Feather touch switches to control easy operation of the unit

Digital Differential Pressure Gauge with alarm
It indicates the filter life and alarm is raised when chocked

User Friendly Control System
Unit can be run in single click

Energy Efficient LED Lights
500 Lux glow in the area ensures good visibility

Internal Auxiliary Sockets
Aux sockets to supply power for additional equipment inside the work area

PVC Curtains
PVC curtains of suitable length will be provided

SPECIFICATIONS

Air Cleanliness	Class 100
Velocity	90 FPM ± 20%
Material of Construction	Exterior : Stainless Steel 304 (Optional : SS 316) Side Panels : Stainless Steel 304 with PUF insulated
Main Filter	Minipleat HEPA, Class : H14
Pre Filter	Pre Filter, Class : F5
Filter Efficiency	HEPA 99.997% at 0.3 μm Intermediate 95% at 5 μm Pre Filter 90% at 10 μm
Noise (dB)	67±2
Lighting (Lux)	>500

Model	Air Cleanliness	Interior Dimensions (WxDxH)	Exterior Dimensions (WxDxH)	Power Supply
DRLAF 2*2	Class 100	710*725*1830 mm	760*1350*2200 mm	220-240 V, 50 Hz
DRLAF 3*2		1015*725*1830 mm	1065*1065*2200 mm	
DRLAF 4*2		1320*725*1830 mm	1370*1350*2200 mm	

Mobile Trolley

(Mobile LAF)

Mobile laminar air flow unit is for transfer the product from sterile area to sterile area from non sterile area. Unit is used in the industrial manufacturing for the protection of the product in the following areas:
* Pharmaceutical, Bio-tech industry
* Filling section, Assembling processes, Tissue culture

FEATURES

Class 100 work area
Class 100 work area as per ISO 14644

Two stage Filtration
Equipped with H14 HEPA filter (with optional grill) and Washable type F7 pre-filter

Compact Design
The entire unit is designed in very less area with wheels and levelling bolts (optional)

Feather Touch Switches
Feather touch switches to control easy operation of the unit

Digital Differential Pressure Gauge with alarm
It indicates the filter life and alarm is raised when chocked

User Friendly Control System
Unit can be run in single click with inverter and 15 min. battery backup

Energy Efficient LED Lights
500 Lux glow in the area ensures good visibility

UV light with Hour meter
UV light to kill germs and bacteria along with its life indicator for timely replacements

Internal Auxiliary Sockets (Optional)
Aux sockets for supply power for additional equipment inside the work area

SPECIFICATIONS

Air Cleanliness	Class 100
Velocity	90 FPM ± 20%
Material of Construction	Exterior : Stainless steel Interior : Stainless Steel 304
Main Filter	Minipleat HEPA, Class : H14 (Optional ULPA)
Pre Filter	Pre Filter, Class : F7
Filter Efficiency	HEPA 99.997% at 0.3 μm ULPA 99.999% at 0.12 μm Pre Filter 95% at 5 μm
Noise (dB)	67±2
Lighting (Lux)	>500
Orientation of Flow	Horizontal/ Vertical

Model	Air Cleanliness	Interior Dimensions (WxDxH)	Exterior Dimensions (WxDxH)	Power Supply
DMLAF 2*2	Class 100	610*610*610 mm	710*710*1610 mm	220-240 V, 50 Hz
DMLAF 3*2*		915*610*610 mm	1015*710*610 mm	

Cross Contamination Barriers

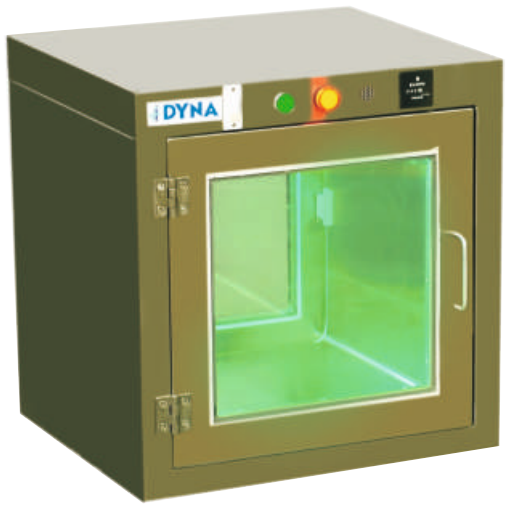
(Cleanroom Pass Boxes/ VHP Sterilized Pass Box)

Pass Boxes or Cross Contamination Barriers as said are used to transfer material from an area with high level of cleanliness to a lower level of cleanliness or vice-versa. The pass boxes while transferring the material, prevents air from flowing into respective areas.

Static Pass Boxes

Dyna make Static pass boxes meeting the customer specific requirement and to the world class standards. Static Pass Box is specifically designed that aids in the material transfer by killing the microbes.

FEATURES



Compact Design

- Available in powder-coated SS 304 / SS 316
- Double walled construction
- SS handles and SS hinges
- Internal covings for easy cleaning
- Variety of sizes and door configurations

Control System

- Electromagnetic interlocking doors minimize contamination
- UV light along with hour meter
- Indicator on either side
- Door Release Switch on either side

SPECIFICATIONS

UV Light Intensity	300 nm
Material of Construction	SS 304 (Optional : SS 316)
Lighting (Lux)	>500
Power Supply	220-240 V, 50 Hz

Model	Air Cleanliness	Interior Dimensions (WxDxH)	Exterior Dimensions (WxDxH)	Power Supply
SPB	Class 100	610*610*610 mm	730*690*760 mm	220-240 V, 50 Hz
SPB		750*750*750 mm	870*830*900 mm	
SPB		915*915*915 mm	1035*995*1055 mm	

Dynamic Pass Boxes

Dyna makes Dynamic pass boxes meeting the customer specific requirement and to the world class standards. Dynamic Pass Box is specifically designed that aids in the material transfer without much personnel movement. Dynamic pass boxes area designed to maintain Cleanliness of ISO Class 100.

FEATURES

Class 100 work area
Class 100 work area as per ISO 14644

Two stage Filtration
Equipped with H14 HEPA filter (with optional grill) and Washable type F7 pre-filter

Compact Design
The entire unit is designed in very less area

Feather Touch Switches
Feather touch switches to control easy operation of the unit

Pressure Gauge with alarm
It indicates the filter life and alarm is raised when chocked

User Friendly Control System
Unit can be run in single click with LCD display on both side

Energy Efficient LED Lights
500 Lux glow in the area ensures good visibility

UV light with Hour meter
UV light to kill germs and bacteria along with its life indicator for timely replacements

Doors
Two Way/Three Way Doors with Glass view Windows.
Mechanical/ electromagnetic door interlocking system

SPECIFICATIONS

Air Cleanliness	Class 100
Velocity	90 FPM ± 20%
Material of Construction	SS 304 (Optional : SS 316)
Main Filter	Minipleat HEPA, Class : H14
Pre Filter	Pre Filter, Class : F7
Filter Efficiency	HEPA 99.997% at 0.3 μm Pre Filter 90% at 5 μm
Noise (dB)	67±2
Lighting (Lux)	>500

Model	Air Cleanliness	Interior Dimensions (WxDxH)	Exterior Dimensions (WxDxH)	Power Supply
DPB 2*2	Class 100	610*610*610 mm	750*710*1250 mm	220-240 V, 50 Hz
DPB 2.5*2.5		750*750*750 mm	890*850*1390 mm	
DPB 3*3		915*915*915 mm	1055*1015*1555 mm	

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