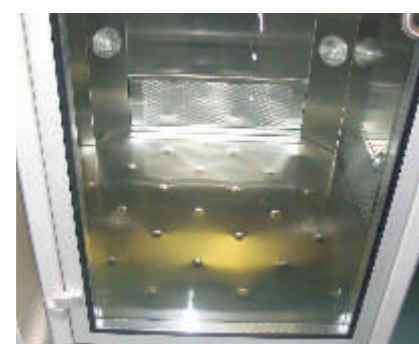


Air Shower

Air shower is designed to remove the polluting particles from employees entering into a cleanroom. It is usually installed at the entrance of a cleanroom. In a secondary role Air Shower also cleans personnel after leaving clean room.

Air Jets filtered by HEPA filters with high velocity ejected by swivelling nozzles hit the operator in transit, causing the release of particles from the garments. Air is recovered by centrifugal fan through collection grids placed at the bottom side of the box and recycled after pre-filtering.



Applications



Generation Storage, Monitoring and Distribution system for purified water



Blood Plasma



Syrup and Suspension



Cream, Ointment, Lotion, Gel and Suppository



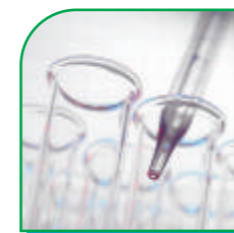
Vaccines



Hi Potent drugs, Cytotoxic, Anticancer, Hormones and Steroids



Parenteral Formulation Compounding



Biotech Modules Superskid



Insulin

Global Presence

- Algeria
- Canada
- Egypt
- Ghana
- Iran
- Iraq
- Jordan
- Nigeria
- Romania
- Russia
- Saudi Arabia
- Sudan
- Syria
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Sampling & Dispensing Booth - Laminar Air Flow System & Pass Boxes & Material Transfer Hatches



Turnkey Facility Solutions
From Conceptual Designs to Commissioning & Validation.

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Sampling and Dispensing Booth

Design:

The unit has been designed for the Pharmaceutical industry to control the problem of Powder contamination and reduce operator's exposure to powder; namely, the units protect the powder from blowing about and cross-contaminating other areas and products and protect the operator from inhalation of potentially hazardous pharmaceuticals.

Primarily conceived for the pharmaceutical industry, it can be used whenever there is a risk of dust contamination.

Operating Principle

Air from the Hepa filter passes down over the enclosed space, then through two pre-filters and back to the Hepa filter plenum chamber. A small absolute filter mounted downstream of the fans generates a loss in the air recycling system, causing an inflow of air between the vinyl curtain and floor.

The Vertical air stream carries away powder generated and split in the manufacturing process, and passing through the pre-filters is recycled or exhausted via Hepa filters. This airflow pattern encourages a floor level air movement to prevent powder drifting through the room and contamination of Sterile products, which are generally kept at least 50 cm from the floor.



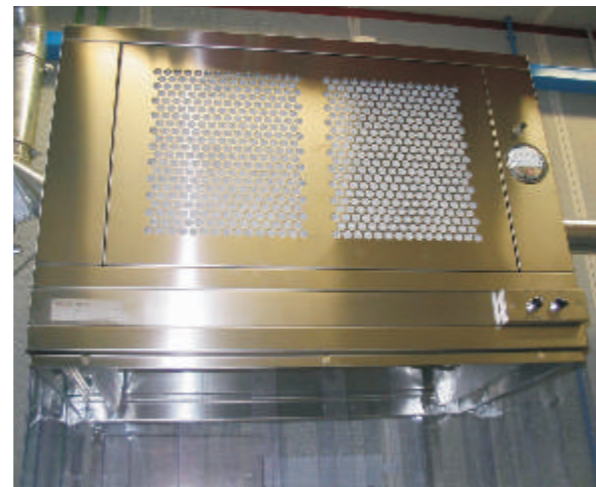
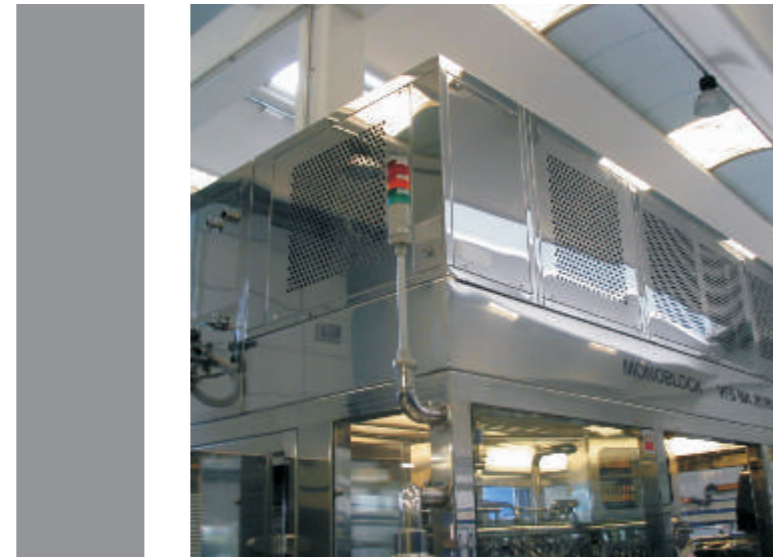
MODEL	USEFUL DIMENSIONS mm		OVERALL DIMENSIONS mm			AIR FLOW M ³ /h	POWER W	WEIGHT Kg.	NOISE dBa
	W	D	W	D	H				
PA 12	650	310	680	340	550	300	92	50	700
PA 13	970	305	1000	340	550	480	92	50	
PA 14	1280	305	1360	340	550	648	92	50	700
PA 22	650	650	680	680	550	69	92	50	500
PA 23	970	650	1000	680	550	1021	300	60	
PA 24	1280	650	1360	680	550	1360	300	80	500
PA 34	1280	970	1360	1000	550	2010	373	90	
PA 1000	970	970	1000	1000	550	1539	300	88+	

Laminar Air Flows

Pharma Access modules can be placed next to each other to construct a large laminar air flow area. Modules are assembled side by side or joined at the head to obtain the dimensions required. Heavy duty PCV strips provide side containment to guarantee optimum efficiency of laminar airflow.

The modules may be ceiling mounted using eyebolts, or supported on legs for vertical laminar flow. Maximum distance between legs or eyebolts must not exceed 4080mm.

Pharma Access modules are supplied either with or without motors: the circular section plenum aperture allows remote positioning of the motor blower which is connected to the unit with a duct, to minimize noise.



Pass Box & Material Transfer Hatches

Pass Box is one of the best solutions for transferring goods to sterilised areas. It is a self contained unit installed at the entrance of the cleanrooms.

Contaminated product, put into the Pass Box from the non sterile zone door, is washed by a filtered air blast and, at the same time, decontaminated from micro-organisms with U.V. lamps ultra violet rays.

These lamps are situated at the lateral walls of the passing through chamber.

A filtering unit having electric fan and HEPA filter helps inside air to be re-used so that the sterilised condition of the inside chamber is guaranteed even after the UV lamps are turned off.



The Pass Box product transit zone is protected from an interlock door system that prevents both doors from opening at the same time, thereby avoiding contamination.

The Pass Box is made from Stainless Steel with high satin matt finish for easy to clean and ready to install and adaptable to existing facility.

Available in Internal Dimensions (mm):

PB1 -	450 X 450 X 450
PB2 -	600 X 600 X 600
PB3 -	800 X 800 X 800
HT-1	1000 X 1000 X 1000
HT-2	1200 X 1200 X 1200
HT-3	1500 X 1500 X 1500
HT-4	1800 X 1800 X 1800