TECHNOLOGY DESIGN & INNOVATION

WHAT STATIC?

A static passbox, also known as a passive passbox or fixed passbox, is a type of specialized equipment commonly used in clean:room environments or controlled environments in various industries such as pharmaceuticals, biotechnology, electronics, and research facilities.

The purpose of a static passbox is to facilitate the transfer of mate rials or equipment between different cleanroom areas while mini mizing the risk of contamination. It helps maintain the cleanliness and integrity of the controlled environments by reducing the need for personnel to enter or exit cleanrooms frequently.

Features of a static passbox mayinclude

1 . Design and Construction: Static passboxes are typically made of stainless steel or other smooth, easy-to-clean materials. They have double-door systems (one door on each side) to prevent direct airflow between the adj acent cleanroom areas.

2. Interlocking Doors: The passbox doors are equipped with interlocking mechanisms that ensure only one door can be opened at a time. This prevents both doors from being open simultaneously, which could lead to contamination risks.

3. High-Efficiency Particulate Air (HEPA) Filters: Some passboxes are equipped with HEPA filters to maintain the required air cleanliness levels inside the passbox during material transfer.

4. UV Light (Optional): In some cases, passboxes may be equipped with ultraviolet (UV) lights to provide additional disinfection during idle periods.

Here's how a static passbox typically works:

1 . The operator places the material or equipment to be transferred inside the passbox from one side of the cleanroom.

2. The operator closes and locks the door on that side.

3. The passbox interlock system verifies that the door is securely closed before allowing the door on the other side to open.

4. The operator then opens the door on the other side of the passbox and removes the material or equipment in the adjacent cleanroonn area.

CLEAN ROOM EQUIPMENTS

STATIC PASS BOX

STATIC PASS BOX

Static Pass-Box used in Pharmaceuticals to transfer Material and helps to maintain class between to area. It is a between to different area. The pass box hinders the flow of air from one area to another during the transfer of material. Static pass box comprises of simple boxes mounted between two areas, It is also known as passive pass box and prevents the entrance of contaminants in the sterile area,

FEATURES o Design acc. to GMP Guidelines, easy to clean and to disinfect o Doubled Skin Cabinet with Doors and Toughend GI ass o Cabinet Fabricated in SS 304/316 Static Pass Box o SS 304 Hinges and Door Handle o Electro Magnetic Interlocking System o Pre-installed White and UV Germicidal Light o Feather Touch controller for Door/Light/Hour Metre for UV O Sound Level Minimum 65db On Scale o Power Supply Single Phase 220V 50 Hz

OPTIONAL ACCESSORIES

o Digital Pressure Gauge with Alarm Hour Metre o Support Stand for mounting the Pass Box

APPLICATIONS

o Pharmaceutical industry o Chemical research laboratories o Electronic industry o Food processing industry o Semiconductor production

STATIC PASSBOX

TECHNICIAL & SPECIFICATION

Model Design type	CPBMOO Dynamic	CPBS-IOO S-100 Static / Passive
Internal Dimension	600mm x 600mmx 600mm or Customization	600mm x 600mmx 600mm or Customization
MOC	Stainless Steel 304 or CRCA Powder Coated	Stainless steel 304 or CRCA Powder Coated
Lights	LED tube light	LED tube light
Air system	Motor-blower with suspension arrangement	
Filters	Pre filter (95% down to 5 micron)	
	HEPAfilter (99.97%)	
	Protected by SS grills	
Door	Two side doors	Two side doors
	Glass window	Glass window
	SS handles & SS hinges	SS handles & SS hinges
	Electromagnetic Interlocking system	Electromagnetic Interlocking system
Standard Fittings	UV light	UV light
	Light indicators for door	Light indicators for door
	SS Handles & SS hinges	SS Handles & SS hinges
	On / Off Switch for blower	
Power supply	220 volts / 50 Hz	220 volts/ 50
Optional	MOCSS 304 Grade	MOC 304 Grade
	Differential Pressure Gauge	
	DO P Test Port	
	Flange	
	Test certificates	
	Calibration certificate	
	Mechanical door interlocking	

	Door buzzer	
	UV light hour meter