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WILLSON CLEANROOM EQUIPMENT CO., LTD.

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# CLEANROOM PASS BOXES

NAME		CLEANROOM DOUBLE-GLAZED WINDOW	
	Feature	<ul style="list-style-type: none"> <li>• Flush with wall</li> <li>• Double-side 2*5mm tempered glasses</li> <li>• China Compulsory Certification (CCC-certified)</li> <li>• Flexible integration with different walls of various thickness</li> <li>• Desiccant inside to prevent from fogging</li> </ul>	
	MOC	2*5mm thick tempered glass with stainless steel as internal frame and aluminum frame as external frame, desiccant inside	
	Sizes	Width, height and thickness are customized	
WHAT CAN BE CUSTOMIZED?			
WINDOW SIZE	<ul style="list-style-type: none"> <li>• Width</li> <li>• Height</li> <li>• Thickness (50–200mm)</li> </ul>		
WINDOW CORNER			
	Externally right-angled & internally right-angled	Externally right-angled & Internally round-angled	Externally round-angled & internally round
CONNECTION TYPE WITH DIFFERENT WALLS	<ul style="list-style-type: none"> <li>• Connected to machine-made panels by dedicated window frame.</li> <li>• Hand-made panel to hand-made panels by inserting "+" type aluminum profile</li> </ul>		



Cleanroom pass box, also called pass-through box or transfer hatch, is a cleanroom equipment mounted between two rooms or areas, through which materials, small or big, can be transferred between the two rooms or areas, thus saving the troubles of repeatedly entering or leaving cleanrooms, minimizing the air turbulence of opening and closing the doors, more importantly, lowering down or prevent from the risk of cross-contamination between the two rooms or areas.

Willson pass box series have two types, static pass box and dynamic pass box. Static pass box is mainly mounted between two rooms which have same cleanliness class in classified areas. Dynamic pass box is mainly mounted between two rooms which have different cleanliness class and air pressure, e.g. between classified area and "Controlled and Non-Classified (CNC) area. For materials to be transferred into a cleanroom with high cleanliness class (ISO-4/5/6), the dynamic pass box is highly recommended.

Pass box can also serve as an access to cleanroom for big items. It is normally floor-type as showed below. Willson can design the pass box according to your on-site conditions and requirements, like 3-door pass box, 90 degree pass box, multi-tier pass box, etc.



Static Pass Box



Dynamic Pass Box




Floor Type Pass Box



Multi-tier Pass Box

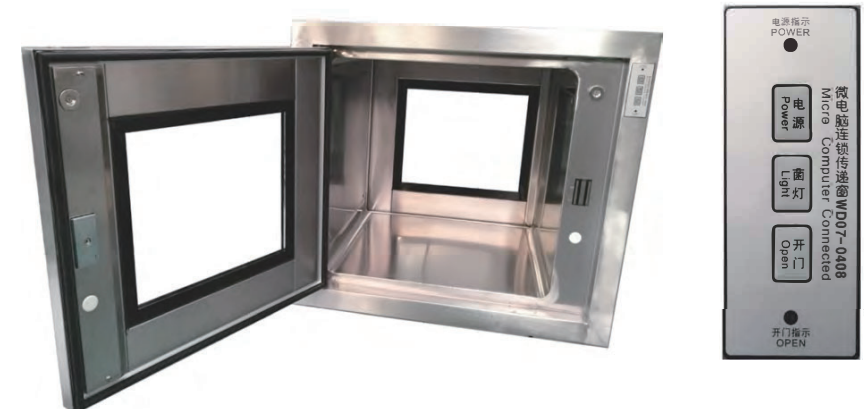
DIFFERENCES BETWEEN STATIC PASS BOX AND DYNAMIC PASS BOX			
Pass Box Configuration	Static Pass Box	Dynamic Pass Box	Remarks
Interlocking Door	Yes	Yes	Electromagnetic Interlocking
UV Light	Yes	Yes	For sterilization of bacteria on surface of materials
Power Supply	Yes	Yes	Standard: 1φ, 220V, 50Hz . 110V, 60Hz can be customized
Air Showering	No	Yes	Removing the particles from the surface of materials
Air Filter	No	Yes	Pre-filter and HEPA filter (H14)
DOP Test Port	No	Yes	Test if any leakage of air filter

NAME	STATIC PASS BOX	
	Feature	<ul style="list-style-type: none"> <li>• Recessed and flush door design to ensure no dust collection</li> <li>• 100% stainless steel 304 design, easy cleaning and GMP-compliant</li> <li>• Dedicated sanitary sealing strip to ensure air tightness</li> <li>• Two doors are interlocked to prevent from cross-contamination</li> <li>• UV light equipped to keep bacteria out of cleanroom</li> <li>• Micro-computer control to make operation more easier</li> </ul>

Model	WSPB-500	WSPB -600	WSPB -700
Internal Size (W*D*H)	500*500*500mm	600*600*600mm	700*700*700mm
External Size (W*D*H)	608*580*650 mm	805*680*750 mm	905*780*850 mm
Material of Construction	100% stainless steel 304		
Power Supply	1-phase, 220V, 50Hz or 1-phase, 110V, 60Hz		
UV Light	10W/15W		

WHAT CAN BE CUSTOMIZED?	
Material of Construction	<ul style="list-style-type: none"> <li>• Stainless Steel 304 (by default)</li> <li>• PCGI Steel (White Color)</li> </ul>
Box Size	<ul style="list-style-type: none"> <li>• Width</li> <li>• Height</li> <li>• Depth</li> </ul> <p>*Either internal size or external size can be customized, but it shall be subject to technical feasibility.</p>

DETAILS



NAME		DYNAMIC PASS BOX	
		<p>Feature</p> <ul style="list-style-type: none"> <li>• Recessed and flush door design to ensure no dust collection</li> <li>• 100% stainless steel 304 design, easy cleaning and GMP-compliant</li> <li>• Dedicated sanitary sealing strip to ensure air tightness</li> <li>• Two doors are interlocked to prevent from cross-contamination</li> <li>• UV light equipped to stop bacteria out of cleanroom</li> <li>• Top air supply with H14 HEPA filter, reaching air cleanliness of ISO-5/Class 100</li> <li>• Micro-computer control panel with LED screen make box more intelligent and easier to operate</li> <li>• DOP test ports for testing air leakage of HEPA filter</li> </ul>	
		Model	WDPB-500
Internal Size (W*D*H)	500*500*500mm	600*600*600mm	700*700*700mm
External Size (W*D*H)	720*580*970mm	820*680*1070mm	920*780*1170mm
Power Supply	1-phase, 220V, 50Hz		
Air Filter	Pre-filter HEPA filter (Efficiency: H14)		
Differential Pressure Gauge	0-500pa		
UV Light	10W/15W		
DOP PORT	PA0/DOP port for filter integrity test		
WHAT CAN BE CUSTOMIZED?			
MOC	<ul style="list-style-type: none"> <li>• Stainless Steel 304 (by default)</li> <li>• PCGI Steel (White Color)</li> </ul>		
SIZE	<ul style="list-style-type: none"> <li>• Width</li> <li>• Height</li> <li>• Depth</li> </ul> <p>*Either internal size or external size can be customized, but it shall be subject to technical feasibility.</p>		

DETAILS

Internal View



- 1: UV light
- 2: Top stainless steel perforated plate for Air outlet
- 3: Flush and double-glazed view panel
- 4: Internal coving
- 5: Side stainless steel perforated plate for Air-inlet
- 6: Electromagnetic interlocking doors
- 7: Sanitary sealing strip
- 8: Power Cord