ESCO LIFESCIENCES

Pass Boxes and Transfer Hatches

The Leading Solution for Controlled Environment Protection



Infinity® Pass Box



Infinity® Transfer Hatch



Static Pass Box





Static Pass Box



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Controlling the ingress of particulate contamination into cleanrooms and other controlled environments is paramount in order to maintain the integrity of products and processess. Personnel traffic is the most important factor which must be controlled. Esco Pass Boxes and Transfer Hatches are a cost effective solution as they allow materials to be transferred into the controlled environment without actual personnel movement. They may also be used to protect the external environment from egress of contamination, for example, in biological safety laboratory applications.

The table below shows the different models of static pass boxes Esco offer.

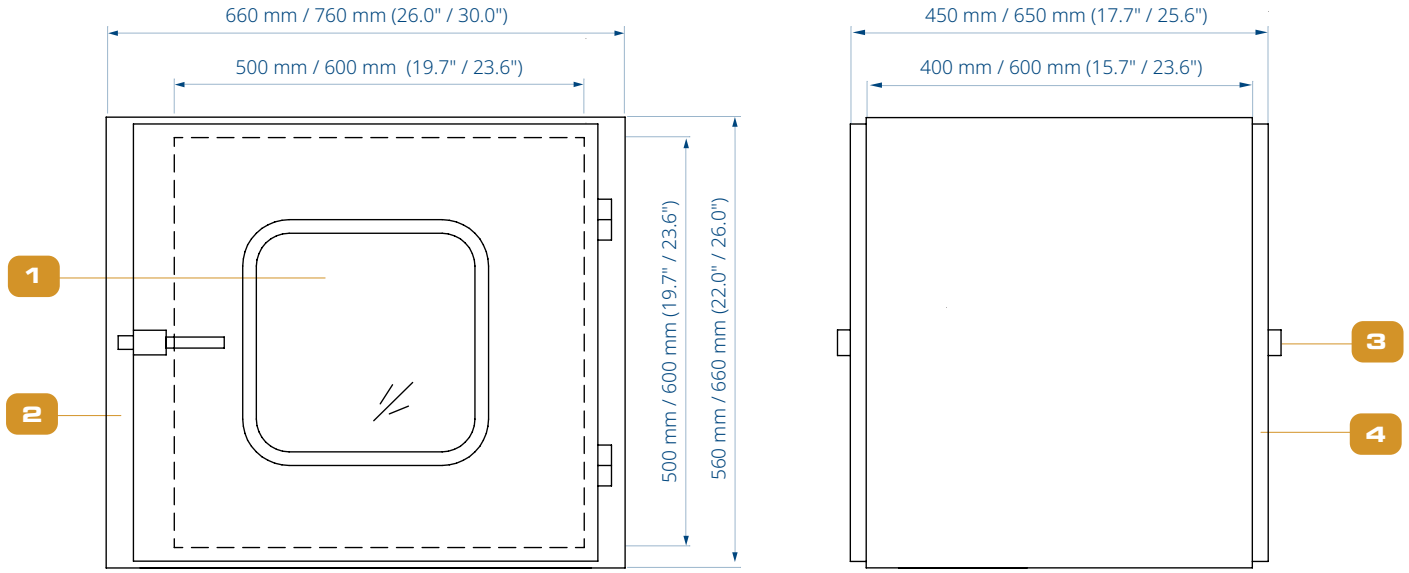
Available Models			
Model	**Internal Dimensions**	**Construction**	**Interlock**
EPB-A504050	500 x 400 x 500 mm (19.7" x 15.7" x 19.7")	Powder coated steel, non coved corners, polycarbonate viewing window	Mechanical
EPB-A606060	600 x 600 x 600 mm (23.6" x 23.6" x 23.6")		
EPB-B504050	500 x 400 x 500 mm (19.7" x 15.7" x 19.7")	Stainless steel, non coved corners, polycarbonate viewing window	Mechanical
EPB-B606060	600 x 600 x 600 mm (23.6" x 23.6" x 23.6")		
EPB-S454645	450 x 460 x 450 mm (17.7" x 18.1" x 17.7")	Stainless steel, all coved corners, full tempered glass door	Mechanical
EPB-S616161	610 x 610 x 610 mm (24" x 24" x 24")		
SPB-S606060	600 x 600 x 600 mm (23.6" x 23.6" x 23.6")	Stainless steel, coved corner at it's base, tempered glass viewing window	Electromagnetic

Infinity® Pass Box

Main Features

- Mechanical interlock is reliable, maintenance-free, fail safe and maintains cleanroom integrity by preventing both doors from being opened at the same time.
- All Esco products are manufactured for the most demanding controlled environment applications.
- All components are designed for maximum chemical resistance and enhanced durability for a long service life.
- The main body of the pass box is constructed of either powder-coated electrogalvanized or stainless steel.
- The pass box base surface is constructed of stainless steel, making the work zone easy to clean.
- Polycarbonate window provide a clear view of the internal chamber.
- Standard 1 year warranty.

Infinity® Pass Box Technical Specifications



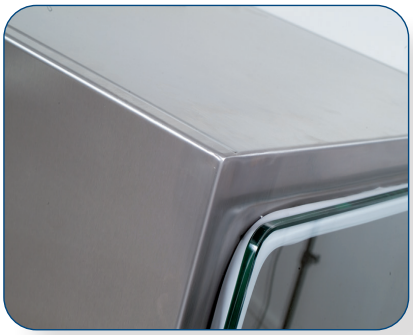
1. *Polycarbonate window*
2. *Interlock mechanism*
3. *Handle*
4. *Door*

General Specifications, Infinity® Pass Box			
Model		**EPB-A**	**EPB-B**
Model code		**EPB-_504050**	**EPB-_606060**
External dimensions (W x D x H)		660 x 450 x 560 mm (26.0" x 17.7" x 22.0")	760 x 650 x 660 mm (30.0" x 25.6" x 26.0")
Internal dimensions (W x D x H)		500 x 400 x 500 mm (19.7" x 15.7" x 19.7")	600 x 600 x 600 mm (23.6" x 23.6"x 23.6")
Material of Construction (MoC)	Body	Powder coated EG Steel exterior and interior with SS304 base	Full SS304
	Viewing window	Polycarbonate	
Door Opening		Straight through only	
Handle		Mechanical handle	
Flanges		A set (2 pcs) of removable flanges	
Optional Accessories	Support Stand (if required)	2-leg type	
	UV light	✓	
Customization	LED light	✓	
	Upgrade Electromagnetic Interlock	✓	
Net Weight		42.5 kg (93.7 lbs)	55.8 kg (123 lbs)
Shipping Weight		61.6kg (136 lbs)	80.4 kg (177 lbs)
Shipping Dimensions, Maximum (W x D x H)		850 x 740 x 800 mm (33.4" x 29.1" x 31.4")	830 x 820 x 870 mm (32.6" x 32.2 x 34.2")
Shipping Volume, Maximum		0.5 m^3 (17.6 cu.ft.)	0.59 m^3 (20.8 cu.ft.)

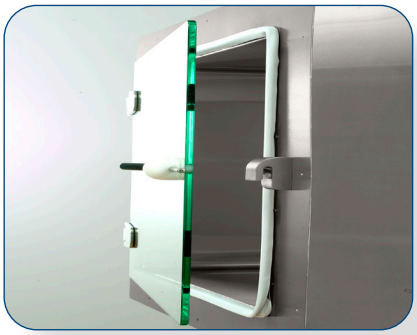
Infinity® Transfer Hatch

Main Features

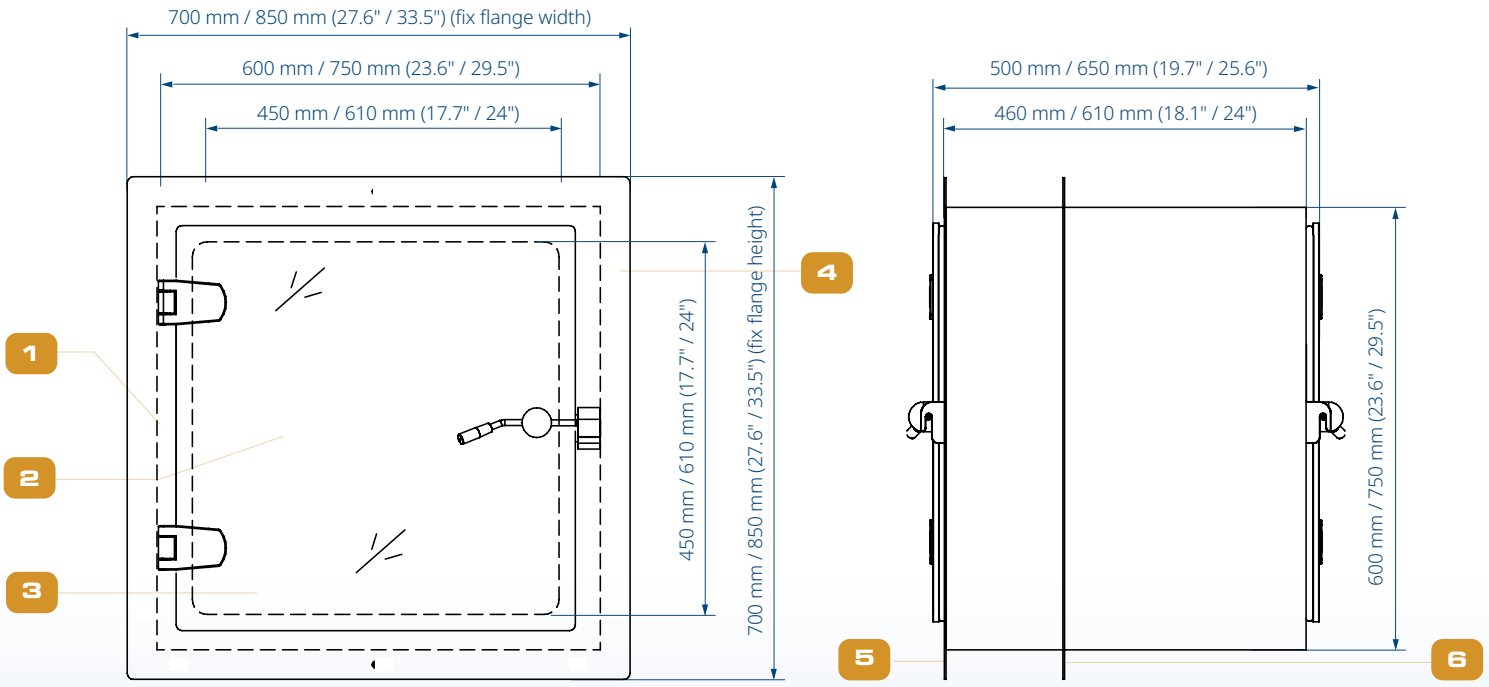
- Mechanical interlock is reliable, maintenance-free, fail safe and maintains cleanroom integrity by preventing both doors from being opened at the same time.
- All Esco products are manufactured for the most demanding controlled environment applications.
- All components are designed for maximum chemical resistance and enhanced durability for a long service life.
- The main body of the pass box is constructed of pharmaceutical-grade stainless steel.
- The internal side walls of the pass box are constructed from a single piece of stainless steel, with coved corners for easy cleaning.
- Transparent 10 mm (0.39″) tempered glass doors provide visibility into the interior. Frameless construction is easy to clean with no joints for contaminants to accumulate.
- Durable feather edge rubber gasketed door seals maintain cleanroom integrity and are easy to clean.
- Pass box hardware has been custom designed for reliable service, featuring large, durable hinges, and ergonomic handles.
- One stainless steel mounting flange is included.







Infinity® Transfer Hatch Technical Specifications



1 Mechanical interlock
2. Door handle
3. Glass door
4. Hinges
5. Fix flange
6. Removable flange

General Specifications, Infinity® Transfer Hatch			
Model		**EPB-S**	
Model code		**EPB-S454645**	**EPB-S616161**
External dimensions (W x D x H)		600 x 500 x 600mm (23.6" x 19.7" x 23.6")	750 x 650 x 750 mm (29.5" x 25.6" x 29.5")
Internal dimensions (W x D x H)		450 x 460 x 450 mm (17.7" x 18.1" x 17.7")	610 x 610 x 610 mm (24" x 24" x 24")
Material of Construction (MoC)	Body	Full SS304	Full SS304
	Viewing Window	Full glass (10 mm thickness)	
Door Opening		Straight through only	
Handle		Mechanical handle	
Flanges		1 fix flange & 1 removable flange	
Optional Accessories	Support Stand (if required)	2-leg type	
	UV light	✓	
Customization	LED light	✓	
	Upgrade Electromagnetic Interlock	✓	
Net Weight		33 kg (72 lbs)	54.2 kg (119 lbs)
Shipping Weight		40 kg (88 lbs)	64.4 kg (142 lbs
Shipping Dimensions, Maximum (W x D x H)		730 x 700 x 730 mm (28.7" x 27.5 x 28.7")	850 x 750 x 780mm (33.4" x 29.5" x 30.7")
Shipping Volume, Maximum		0.37 m^3 (13.1 cu.ft.)	0.49 m^3 (17.3 cu.ft.)

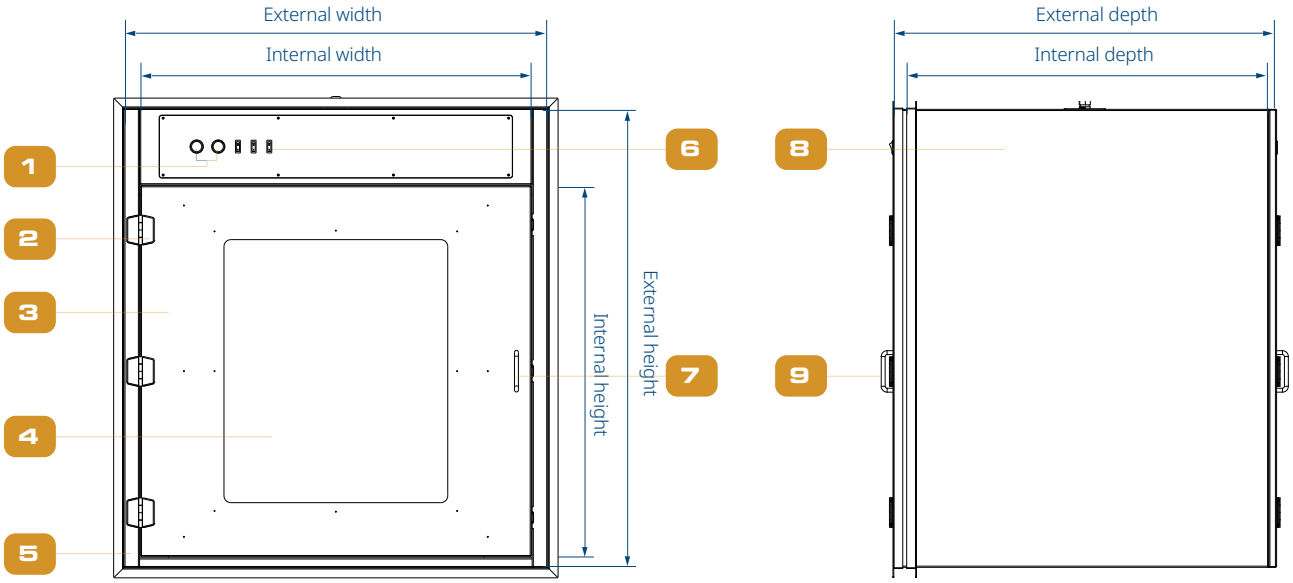
Static Pass Box

Main Features

- Equipped with validated electromagnetic interlocking doors that prevent both doors from being opened at the same time.
- All Esco products are manufactured for the most demanding cleanroom applications.
- All components are designed for maximum chemical resistance and enhanced durability for long service life.
- It is full stainless steel 304 construction with coved corners at its base for easy cleaning.
- Durable transparent tempered glass doors provide clear visibility into the interior.
- Convenient operation by identifiable red/green indicator lights to signal door status.

Standard sizes	Internal Dimensions (Width x Depth x Height)	External Dimensions (Width x Depth x Height)
SPB-S606060	600 x 600 x 600 mm (23.6" x 23.6" x 23.6")	780 x 680 x 870 mm (30.7" x 26.8" x 34.3")
SPB-S606075	600 x 600 x 750 mm (23.6" x 23.6" x 29.5")	780 x 680 x 1020 mm (30.7" x 26.8" x 40.2")
SPB-S616161	610 x 610 x 610 mm (24.0" x 24.0" x 24.0")	790 x 690 x 880 mm (31.1" x 27.2" x 34.6")
SPB-S757575	750 x 750 x 750 mm (29.5" x 29.5" x 29.5")	930 x 830 x 1020 mm (36.6" x 32.7" x 40.2")
SPB-S100100100	1000 x 1000 x 1000 mm (39.4" x 39.4" x 39.4")	1180 x 1080 x 1270 mm (45.3" x 42.5" x 50.0")

** Refer to table for internal and external dimensions*



1. *Indicator lights*
2. *Hinges*
3. *Stainless Steel door*
4. *Tempered glass viewing window*
5. *Flanges*
6. *Simple switches*
7. *Electromagnetic lock*
8. *Pre-wired cable*
9. *D shaped handle*

General Specifications, Static Pass Box			
Model			SPB
Model Code			SPB-S
Material of Construction (MoC)	Body		Full SS304
	Viewing Window		Tempered glass
Handle			D -shaped
Door Opening			Straight through
Operating Controller			Simple rocker switch for on/off
Door Lock System			Electromagnetic interlocking doors with round magnets for double lock
Light Indicator			Red and green
Electrical Code	1 - 220-240 VAC 50/60 Hz		✓
	2 - 110-130 VAC 50/60 Hz		✓
	3 - 100-110 VAC, 60 Hz		✓
Optional Accessories	A set (2 pcs) of removable flanges		✓
	Support Stand (if required)		✓
	UV light		✓
	LED light		✓
	Sentinel™ microprocessor		✓
Customization	Door Opening	L-shaped	✓
		3-way	✓
	Upgrade to SS316 (L)		✓



Infinity® Pass Boxes and Cleanroom Transfer Hatch

Static and Classic!

Electromagnetic Interlock SPB

Stainless steel (SS) doors with double-layered tempered glass viewing window



SS **Stainless Steel 304**

Full SS 304, coved internal corners at the base, with indicator lights for door status

Mechanical Interlock EPB-S

With door glass (10mm thick) viewing window



SS **Stainless Steel 304**

Full SS 304, all-coved internal corners with flanges (standard inclusion)

Mechanical Interlock EPB-B

Stainless steel (SS) doors with polycarbonate viewing window



SS **Stainless Steel 304**

Full SS 304, non-coved corners

Mechanical Interlock EPB-A

Electrogalvanized (EG) steel doors with polycarbonate viewing window



EG **Powder-coated EG Steel**

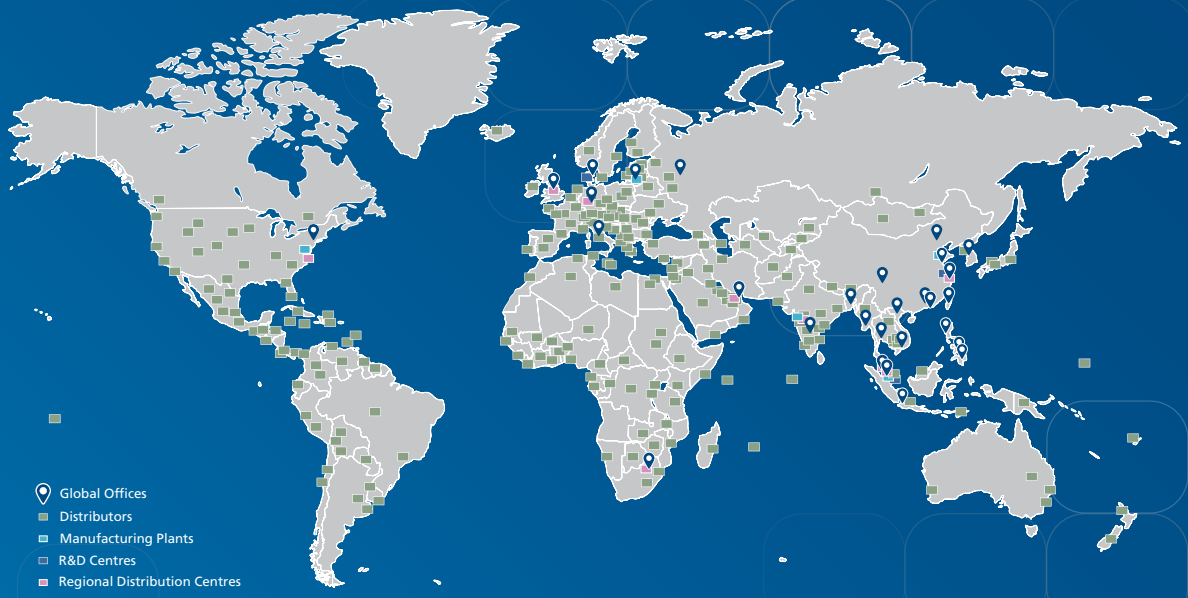
EG steel exterior and interior, SS 304 internal base, non-coved corners

Esco Pharma's Infinity® Pass Box and Cleanroom Transfer Hatch maintains cleanroom integrity with its reliable and maintenance-free interlocking mechanism by preventing both pass box doors from opening at the same time and by limiting personnel traffic during aseptic transfers in-between rooms.

Know the Right Box for You!

ESCO GLOBAL NETWORK

42 Locations in 24 Countries All Over the World





Air Shower
Aseptic Containment Isolator (ACTI)
Ceiling Laminar Airflow Units
Cleanroom Transfer Hatch
Containment Barrier Isolator (CBI)
Downflow Booth (DFB)
Dynamic Floor Laminar Hatch
Dynamic Pass Box
General Processing Platform Isolator (GPPI)
Laminar Flow Horizontal Trolley
Laminar Flow Vertical Trolley
Pass Box
Ventilated Balance Enclosure (VBE)
Weighing and Dispensing Containment Isolator (WDCI)

Since 1978, Esco has emerged as a leader in the development of controlled environment, laboratory and pharmaceutical equipment solutions. Products sold in more than 100 countries include biological safety cabinets, fume hoods, ductless fume hoods, laminar flow clean benches, animal containment workstations, cytotoxic cabinets, hospital pharmacy isolators, and PCR cabinets and instrumentation. With the most extensive product line in the industry, Esco has passed more tests, in more languages, for more certifications, throughout more countries than any biosafety cabinet manufacturer in the world. Esco remains dedicated to delivering innovative solutions for the clinical, life science, research and industrial laboratory community.

ESCO LIFESCIENCES

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