

ESCO PASS BOXES QUESTIONNAIRE



DATE:

I. ABOUT YOUR COMPANY

**Fields required to be filled out*

1. NAME*

2. COMPANY*

3. ADDRESS*

4. EMAIL*

5. WEBSITE

6. PHONE NUMBER AND EXTENSION*

7. FAX*

8. YOU WORK FOR*

(Please Tick)

- End User/Facility Owner
- Cleanroom Builder/Contractor
- Lab Builder/Contractor
- Distributor

9. EXISTING ESCO EQUIPMENT*

10. REPEATED ORDER*

Yes, SN:

No

II. PROJECT INFORMATION

**Fields required to be filled out*

11. URS Available

Yes (please attach document)

No

12. Industry*

- Pharmaceutical/Biotech
- Micro-electronics
- Semiconductors
- Spray Painting
- Laboratory Animal Research
- Others, please specify:

13. Name of Project

14. Project Location*

15. Unit/s Required*

16. Deadline of submission for Tender*	
17. Timeline for Purchase	
18. Timeline for Installation*	
19. Application*	
20. No. of users	
21. Level of Need	<input type="checkbox"/> Have an approved budget (indicate: _____) <input type="checkbox"/> Preparing to submit a budget for approval <input type="checkbox"/> Gathering information for future reference

III. PASS BOXES SPECIFICATION

*Fields required to be filled out

22. Types*	<input type="checkbox"/> Static (please proceed to section 4) - WITHOUT Airflow inside the chamber <input type="checkbox"/> Dynamic (please proceed to section 5) - With Airflow (Recirculating) - ISO Class 5 as per ISO14644-1 internal chamber environment - 0.45 m/s ± 20% air velocity <input type="checkbox"/> BioPass (please proceed to section 6) - With onboard ventilation and integrated H ₂ O ₂ -based biodecontamination system - ISO Class 5 as per ISO14644-1 internal chamber environment - 0.45 m/s ± 20% air velocity <input type="checkbox"/> EAS-PB, Air Shower Pass Box (please proceed to section 7) - With Airflow (Recirculating) - 18-30 m/s initial air velocity via air jets and stainless steel nozzles
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Note: Please answer the section based on the chosen pass box type.

IV. STATIC PASS BOXES SPECIFICATION

*Fields required to be filled out

23. Material of Construction (MOC)*

Static Pass Box Model

- EPB-A**
 - Powder-coated electrogalvanized steel w/ stainless steel 304 internal base, polycarbonate viewing panel, non-covered corners
 - Mechanical interlock
- EPB-B**
 - Full stainless steel 304, polycarbonate viewing panel, non-covered corners
 - Mechanical interlock
- EPB-S**
 - Full stainless steel 304, 10 mm tempered glass door, all covered internal corners (optional: full stainless steel 316L MOC)
 - Mechanical interlock
 - Standard flanges included for this unit
- SPB**
 - Full stainless steel 304 with interior rounded corners at its base, double 4 mm thick tempered viewing glass window (optional: full stainless steel 316L MOC)
 - Electromagnetic interlock
 - Provided with simple switches and red/green indicator lights to signal door status

24. Internal Dimensions (WxDxH)*

EPB-A

- EPB-A504050 (Internal: 500 x 400 x 500 mm)
- EPB-A606060 (Internal: 600 x 600 x 600 mm)

EPB-B

- EPB-B504050 (Internal: 500 x 400 x 500 mm)
- EPB-B606060 (Internal: 600 x 600 x 600 mm)

EPB-S

- EPB-S454645 (Internal: 450 x 460 x 450 mm)
- EPB-S616161 (Internal: 610 x 610 x 610 mm)

SPB

- SPB-S606060 (Internal: 600 x 600 x 600 mm)
- SPB-S606075 (Internal: 600 x 600 x 750 mm)
- SPB-S616161 (Internal: 610 x 610 x 610 mm)
- SPB-S757575 (Internal: 750 x 750 x 750 mm)
- SPB-S100100100 (Internal: 1000 x 1000 x 1000 mm)
- SPB-S150140165 (Internal: 1500 x 1400 x 1650 mm)
- Custom:

30. Internal Dimension options (WxDxH)*

- A: 450 x 450 x 450 mm
- B: 550 x 550 x 550 mm
- C: 600 x 600 x 600 mm
- D: 600 x 600 x 750 mm
- E: 610 x 610 x 610 mm
- F: 750 x 750 x 750 mm
- G: 900 x 900 x 900 mm
- H: 1100 x 1100 x 1800 mm
- I: 1200 x 1500 x 1500 mm
- J: 1400 x 1500 x 1700 mm
- C: Custom:

31. Door Opening*

- Straight Through
- L shape (Turn Left; Turn Right)
 - Wall thickness mm
- Three-way
 - Wall thickness mm

Note: Double-Leaf door designs will ALWAYS have a Straight through door opening

32. Door Direction

<p>Clean</p> 	<p>Clean</p> 
<p>Grey</p> <input type="checkbox"/> Door A	<p>Grey</p> <input type="checkbox"/> Door B

33. Base*

- With Base
- Without Base (Applicable for floor mounted units ONLY)

34. Lights*

- Onboard LED light
- UV light
- No lighting

35. Voltage Assembly*

- AC fan (Open loop w/ simple switches or Sentinel™ control)
- 1: 220-240VAC, 50Hz, 1Ø
 - 2: 110-130VAC, 60Hz, 1Ø
 - 3: 220-240VAC, 60Hz, 1Ø
- EC fan (Selection of open or closed loop w/ Sentinel™ control)
- 8: 220-240VAC, 50/60Hz, 1Ø
 - 9: 110-130VAC, 50/60Hz, 1Ø

VI. BIOPASS SPECIFICATION

*Fields required to be filled out

38. Internal Dimension options (WxDxH)*	<input type="checkbox"/> 1.2 m x 1.2 m x 1.2 m <input type="checkbox"/> 1 m x 1 m x 1 m <input type="checkbox"/> 0.9 m x 0.9 m x 0.9 m <input type="checkbox"/> 0.8 m x 0.8 m x 0.8 m	<input type="checkbox"/> 0.7 x 0.7 m x 0.7 m <input type="checkbox"/> Custom:
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39. Material of Construction (MOC)*	<input type="checkbox"/> Full Stainless Steel (304 exterior; 316L interior) - Standard <input type="checkbox"/> Full Stainless Steel 316L construction
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40. Controls/Filters/ Electrical components*	<input type="checkbox"/> Option 1: (Standard) <ul style="list-style-type: none"> • Siemens HMI/PLC • G4 Pre-Filter • Inlet filtration: H14 HEPA Filter 	<ul style="list-style-type: none"> • Exhaust filtration: H14 HEPA Filter • LED light • Straight through door direction
	<input type="checkbox"/> Option 2 <ul style="list-style-type: none"> • Siemens HMI/PLC with 21 CFR Part 11 compliance • G4 Pre-Filter • Inlet filtration: H14 HEPA Filter 	<ul style="list-style-type: none"> • Exhaust filtration: H14 HEPA Filter • LED light • Straight through door direction

41. Voltage*	<input type="checkbox"/> 1: 220-240VAC, 50Hz, 1Ø <input type="checkbox"/> 2: 110-130VAC, 60Hz, 1Ø	<input type="checkbox"/> 3: 220-240VAC, 60Hz, 1Ø <i>Atomized Hydrogen Peroxide (AHP) the voltage will be the option above. Vaporized Hydrogen Peroxide (VHP) will be applicable with 380-400 VAC, 3Ø only</i>
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42. Optional Accessories*	<input type="checkbox"/> Low level H ₂ O ₂ sensor/s (Room: _____ ; BioPass chamber: _____) <i>- H2O2 sensor (0-100 ppm) to ensure the concentration of hydrogen peroxide inside the chamber or room to confirm end of eratio</i>
	<input type="checkbox"/> Gas Cycle Development (please specify no. of recipe: _____) Full Load Empty Load
	<input type="checkbox"/> Customized carts (please specify external dimensions of the cart in WxDxH: _____ mm)
	<input type="checkbox"/> Shelves (Please specify quantity: _____)
	<input type="checkbox"/> Others: _____

VII. AIR SHOWER PASS BOX SPECIFICATION

*Fields required to be filled out

43. Internal Dimension options (WxDxH)*	<input type="checkbox"/> 800 x 500 x 600 mm (Standard) <input type="checkbox"/> Custom:
44. External Dimension options (WxDxH)*	<input type="checkbox"/> 1120 x 540 x 1500 mm (Standard) <input type="checkbox"/> Custom:
45. Material of Construction (MOC) / Filters / Electrical components*	<input type="checkbox"/> Option 1: (Standard) <ul style="list-style-type: none">• Powder-coated EG steel w/ stainless steel internal base, polycarbonate viewing panel, non-coved corners• G4 Pre-filter• H14 HEPA Filter• EBM Blower• Recirculating Airflow• Electromagnetic interlock• 4 x Stainless steel nozzles <input type="checkbox"/> Option 2: <ul style="list-style-type: none">• Full Stainless Steel 304 construction, polycarbonate viewing panel, non-coved corners• G4 Pre-filter• H14 HEPA Filter• EBM Blower• Recirculating Airflow• Electromagnetic interlock• 4 x Stainless steel nozzles <input type="checkbox"/> Custom:
46. Voltage	<input type="checkbox"/> 220 - 240 V, AC, 50 Hz, 1Ø <input type="checkbox"/> Others:
47. Optional Accessories	<input type="checkbox"/> UV light <input type="checkbox"/> Others:

Important: Save the completed PDF form (use menu File - Save).