

## I. YOUR COMPANY DETAILS

\*Fields required to be filled out

1. NAME\*

7. FAX\*

2. COMPANY\*

8. DESIGNATION/POSITION\*

3. ADDRESS\*

9. YOU WORK FOR\*

(Please Tick)

End User/Facility Owner

Lab Builder/Contractor

Cleanroom Builder/Contractor

Distributor

4. EMAIL ADDRESS\*

5. WEBSITE\*

10. EXISTING ESCO EQUIPMENT

6. PHONE NUMBER AND EXTENSION\*

11. REPEATED ORDER\*

Yes, SN:

No

## II. PROJECT INFORMATION

\*Fields required to be filled out

1. URS Available\*

Yes (please attach document)  
No

2. Industry\*

Pharmaceutical/Biotech  
Chemicals  
Food  
Soap and Detergents

Cosmetics  
Paint  
Others, please specify:

3. Name of Project

4. Project Location\*

5. Unit/s Required\*

6. Deadline of submission  
for Tender\*

7. Timeline of Purchase

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|                                                     |                                                                                                                                                                                            |                            |                          |                              |                      |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|------------------------------|----------------------|
| 8. Timeline of Installation                         |                                                                                                                                                                                            |                            |                          |                              |                      |
| 9. Application*                                     |                                                                                                                                                                                            |                            |                          |                              |                      |
| 10. No. of Users                                    |                                                                                                                                                                                            |                            |                          |                              |                      |
| 11. Type of Protection                              | Operator Protection<br>Product Protection<br>Operator and Product Protection                                                                                                               |                            |                          |                              |                      |
| 12. Exposure Level<br>(Occupational Exposure Limit) | <table border="0"> <tr> <td>10 - 100 µg/m<sup>3</sup></td> <td>1 - 10 µg/m<sup>3</sup></td> </tr> <tr> <td>100 - 1000 µg/m<sup>3</sup></td> <td>&lt;1 µg/m<sup>3</sup></td> </tr> </table> | 10 - 100 µg/m <sup>3</sup> | 1 - 10 µg/m <sup>3</sup> | 100 - 1000 µg/m <sup>3</sup> | <1 µg/m <sup>3</sup> |
| 10 - 100 µg/m <sup>3</sup>                          | 1 - 10 µg/m <sup>3</sup>                                                                                                                                                                   |                            |                          |                              |                      |
| 100 - 1000 µg/m <sup>3</sup>                        | <1 µg/m <sup>3</sup>                                                                                                                                                                       |                            |                          |                              |                      |
| 13. Level of Need                                   | Have an approved budget (indicate: )<br>Preparing to submit a budget for approval<br>Gathering information for future reference                                                            |                            |                          |                              |                      |
| 14. Weight of Handled Powder                        |                                                                                                                                                                                            |                            |                          |                              |                      |

## III. DOWNFLOW BOOTH SPECIFICATION

\*Fields required to be filled out

|                                                           |                                                                                                                                                                                                                                                                                                   |               |               |             |               |              |                |              |                |                                                                                                                                                                                                                                                                                                                           |             |               |             |               |              |                |              |                |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|-------------|---------------|--------------|----------------|--------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|-------------|---------------|--------------|----------------|--------------|----------------|
| 1. Filter Change Option*                                  | Safe Change w/ Bag-In, Bag-Out<br>Safe Change, No Bags<br>Non-Safe Change, No Bags                                                                                                                                                                                                                |               |               |             |               |              |                |              |                |                                                                                                                                                                                                                                                                                                                           |             |               |             |               |              |                |              |                |
| 2. Electrical Classification of External & Internal Area* | Safe internal<br>ATEX/NEC internal<br><table border="0"> <tr> <td>ATEX Zone 1</td> <td>Class I Div 1</td> </tr> <tr> <td>ATEX Zone 2</td> <td>Class I Div 2</td> </tr> <tr> <td>ATEX Zone 21</td> <td>Class II Div 1</td> </tr> <tr> <td>ATEX Zone 22</td> <td>Class II Div 2</td> </tr> </table> | ATEX Zone 1   | Class I Div 1 | ATEX Zone 2 | Class I Div 2 | ATEX Zone 21 | Class II Div 1 | ATEX Zone 22 | Class II Div 2 | Safe external (cleanroom)<br>ATEX/NEC external (cleanroom)<br><table border="0"> <tr> <td>ATEX Zone 1</td> <td>Class I Div 1</td> </tr> <tr> <td>ATEX Zone 2</td> <td>Class I Div 2</td> </tr> <tr> <td>ATEX Zone 21</td> <td>Class II Div 1</td> </tr> <tr> <td>ATEX Zone 22</td> <td>Class II Div 2</td> </tr> </table> | ATEX Zone 1 | Class I Div 1 | ATEX Zone 2 | Class I Div 2 | ATEX Zone 21 | Class II Div 1 | ATEX Zone 22 | Class II Div 2 |
|                                                           | ATEX Zone 1                                                                                                                                                                                                                                                                                       | Class I Div 1 |               |             |               |              |                |              |                |                                                                                                                                                                                                                                                                                                                           |             |               |             |               |              |                |              |                |
| ATEX Zone 2                                               | Class I Div 2                                                                                                                                                                                                                                                                                     |               |               |             |               |              |                |              |                |                                                                                                                                                                                                                                                                                                                           |             |               |             |               |              |                |              |                |
| ATEX Zone 21                                              | Class II Div 1                                                                                                                                                                                                                                                                                    |               |               |             |               |              |                |              |                |                                                                                                                                                                                                                                                                                                                           |             |               |             |               |              |                |              |                |
| ATEX Zone 22                                              | Class II Div 2                                                                                                                                                                                                                                                                                    |               |               |             |               |              |                |              |                |                                                                                                                                                                                                                                                                                                                           |             |               |             |               |              |                |              |                |
| ATEX Zone 1                                               | Class I Div 1                                                                                                                                                                                                                                                                                     |               |               |             |               |              |                |              |                |                                                                                                                                                                                                                                                                                                                           |             |               |             |               |              |                |              |                |
| ATEX Zone 2                                               | Class I Div 2                                                                                                                                                                                                                                                                                     |               |               |             |               |              |                |              |                |                                                                                                                                                                                                                                                                                                                           |             |               |             |               |              |                |              |                |
| ATEX Zone 21                                              | Class II Div 1                                                                                                                                                                                                                                                                                    |               |               |             |               |              |                |              |                |                                                                                                                                                                                                                                                                                                                           |             |               |             |               |              |                |              |                |
| ATEX Zone 22                                              | Class II Div 2                                                                                                                                                                                                                                                                                    |               |               |             |               |              |                |              |                |                                                                                                                                                                                                                                                                                                                           |             |               |             |               |              |                |              |                |
|                                                           | More information:                                                                                                                                                                                                                                                                                 |               |               |             |               |              |                |              |                |                                                                                                                                                                                                                                                                                                                           |             |               |             |               |              |                |              |                |

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|                                                                              |                                                                                                                                     |                                                                                                                  |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>3. Internal Height*</b><br>(add 500 mm to obtain external height)         | 2100 mm (DFBG2 design)<br>2500 mm (use DFBG3 design)                                                                                |                                                                                                                  |
| <b>4. Internal Width*</b><br>(add 200 mm for DFBG3 to obtain external width) | 16: 1600 mm<br>18: 1800 mm<br>20: 2000 mm<br>24: 2400 mm<br>26: 2600 mm<br>28: 2800 mm<br>30: 3000 mm<br>32: 3200 mm<br>34: 3400 mm | 36: 3600 mm<br>38: 3800 mm<br>40: 4000 mm<br>42: 4200 mm<br>44: 4400 mm<br>46: 4600 mm<br>48: 4800 mm<br>Custom: |
| <b>5. Internal Depth*</b><br>(add back stack depth to obtain external depth) | 2000 mm<br>2500 mm<br>3000 mm                                                                                                       |                                                                                                                  |
| <b>6. Back Stack Depth*</b>                                                  | 1090 mm                                                                                                                             |                                                                                                                  |
| <b>7. Fan Filter Access*</b>                                                 | A: Internal to booth<br>B: External to booth                                                                                        |                                                                                                                  |
| <b>8. Local Operating System (LOP) Location</b>                              | Rear panel (Standard)<br>Side panel                                                                                                 |                                                                                                                  |
| <b>9. Bleed Position</b>                                                     | F: Front (Standard, Ductless)<br>Top (Ducting, Volatile Compounds)                                                                  | Others:                                                                                                          |
| <b>10. Airflow Regime</b>                                                    | Airflow Regime<br>Recirculating                                                                                                     | Others:                                                                                                          |
| <b>Material of Construction</b>                                              |                                                                                                                                     |                                                                                                                  |
| <b>11. Ceiling Plenum</b>                                                    | A: SS 316<br>B: SS 304<br>C: White PC EG Steel                                                                                      |                                                                                                                  |

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|                                                                           |                                                                                                                                                          |                                          |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>12. Side Panels, Rear Wall Panels, Exhaust Plenum</b>                  | A: SS 316<br>B: SS 304<br>C: White PC EG Steel                                                                                                           |                                          |
| <b>13. Filter Housings, Fan Boxes, Spacer (if present) and Transition</b> | A: SS 316<br>B: SS 304<br>C: White PC EG Steel                                                                                                           |                                          |
| <b>14. Plinth</b>                                                         | A: SS 316<br>B: SS 304<br>C: White PC EG Steel                                                                                                           |                                          |
| <b>15. Exhaust Grilles</b>                                                | A: SS 316<br>B: SS 304<br>C: White PC EG Steel                                                                                                           |                                          |
| <b>16. Exterior Side Panels</b>                                           | A: SS 316<br>B: SS 304<br>C: White PC EG Steel                                                                                                           |                                          |
| <b>17. PVC Curtain</b>                                                    | Not needed<br>Front PVC                                                                                                                                  | Side Wall PVC<br>Front and Side Wall PVC |
| <b>18. Electrical Supply</b>                                              | A: 400V 50Hz 3Ph<br>B: 480V 60 Hz 3P<br>Others:                                                                                                          |                                          |
| <b>19. Main Control Panel (MCP) Location*</b>                             | OR: Onboard right panel<br>OL: Onboard left panel                                                                                                        | RM: Remote mounted                       |
| <b>20. Control Type</b>                                                   | PB: Push Button with Smart Controller - Pressure Gauge - Open Loop<br>AB: 7" HMI/PLC Allen Bradley - Closed Loop<br>SM: 7" HMI/PLC Siemens - Closed Loop |                                          |
| <b>21. Cooling Type</b>                                                   | Chilled water/Glycol<br>Direct expansion                                                                                                                 |                                          |

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**22. Accessories**

- 01: Mobile High Containment Screen
- 02: Benches, SST or Granite tables, W x D  
Fixed to booth      Stand alone
- 03: Computer Monitor Mounting Screen
- 04: Airlock
- 05: Two Electrical Outlets
- 06: Pass through
- 07: Side Wall Fire Sprinkler Penetration
- 08: Top-Ceiling Fire Sprinkler Penetration
- 09: Vision Panel
- 10: Ethernet & RS-232 Pass Through Connections
- 11: Bumper Rails
- 12: Temperature and RH Sensors
- 13: Earth Bar
- 14: Audit Trail

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