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# HEMCO Corporation ISO 9001: 2008

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## Clean Room Specification Planner

HEMCO Corporation PH:816-796-2900 Fax:816-796-3333 info@HEMCOCORP.COM

Clean Room Specification Planner

CATALOG#

SHEET 1 OF 5

CUSTOMER \_\_\_\_\_  
 BY \_\_\_\_\_ DATE \_\_\_\_\_  
 PHONE \_\_\_\_\_  
 FAX \_\_\_\_\_  
 EMAIL \_\_\_\_\_

CUSTOMER APPROVAL  APPROVED AS SHOWN  
 APPROVED AS NOTED  
 (PLEASE MARK CORRECTIONS IN RED)  
 NOT APPROVED  
 (PLEASE INDICATE REASON)  
 CUSTOMER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

### A). PROJECT INFORMATION

1. Company \_\_\_\_\_

2. Address \_\_\_\_\_

3. City / State \_\_\_\_\_

Project Name \_\_\_\_\_

Project Address \_\_\_\_\_

Nearest Major City \_\_\_\_\_

Project Personnel \_\_\_\_\_

4. Desired Completion Date \_\_\_\_\_

5. Projected Budget Cost \_\_\_\_\_

### B). ROOM DESIGN PARAMETERS

1. Process to be performed in room \_\_\_\_\_

2. Cleanliness classification per Federal Standard 209E (check all that apply)

CLASS 100 (ISO 5)  CLASS 1,000 (ISO 6)  CLASS 10,000 (ISO 7)  CLASS 100,000 (ISO 8)  NOT SURE

3. Are existing walls to be incorporated Yes  No

4. Existing wall construction \_\_\_\_\_

5. Airflow requirements in room: Single Pass \_\_\_\_\_ Re-Circulating \_\_\_\_\_

6. Preferred airflow through room (ceiling to lower wall): \_\_\_\_\_

7. Type of equipment in room: \_\_\_\_\_

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Clean Room Specification Planner	CATALOG#	SHEET 2 OF 5
CUSTOMER _____ BY _____ DATE _____ PHONE _____ FAX _____ EMAIL _____	CUSTOMER APPROVAL <input type="checkbox"/> APPROVED AS SHOWN <input type="checkbox"/> APPROVED AS NOTED (PLEASE MARK CORRECTIONS IN RED) <input type="checkbox"/> NOT APPROVED (PLEASE INDICATE REASON)	CUSTOMER SIGNATURE _____ DATE _____

8. Number of people in cleanroom: \_\_\_\_\_

9. Heat load generated by equipment in room(s), (KW or BTU/HR): \_\_\_\_\_

10. Duty cycle of equipment generating heat in cleanroom:

25% ON       50% ON       75% ON       100% ON

11. Process exhaust volume (CFM): \_\_\_\_\_

12. Type of process equipment, ie Fume Hood: \_\_\_\_\_

13. Airlock / Gowning room conditions:

Temperature \_\_\_\_\_ + \_\_\_\_\_

Humidity \_\_\_\_\_ MN \_\_\_\_\_ Max

Relative Pressure      0       +       ++       +++

Cleanroom conditions:

Temperature \_\_\_\_\_ + \_\_\_\_\_

Humidity \_\_\_\_\_ MN \_\_\_\_\_ Max

Relative Pressure      0       +       ++       +++

14. Emergency Light:      Yes       No

15. Standard cleanroom fluorescent lighting:      Yes       No

16. Desired lighting level, (typically 80 / 100 FC):

Yes       No       Specify \_\_\_\_\_

17. Any special lighting colors:      Yes       No       Specify \_\_\_\_\_

18. Photo resist yellow:      Yes       No       Specify \_\_\_\_\_

19. On / Off light fixture control:      Yes       No

20. UV lighting required:      Yes       No

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21. Any hazardous or flammable materials used in process:    Yes     No

Describe: \_\_\_\_\_

22. Other safety systems required (ie. Eyewash, safety shower): Yes     No

**C). ROOM DETAILS**

1. Room size, (please attach floor plan if available)

Airlock: \_\_\_\_\_ W x \_\_\_\_\_ L x Ceiling Height \_\_\_\_\_

Gowning Room: \_\_\_\_\_ W x \_\_\_\_\_ L x Ceiling Height \_\_\_\_\_

Clean Room: \_\_\_\_\_ W x \_\_\_\_\_ L x Ceiling Height \_\_\_\_\_

2. Additional airlock between change room and cleanroom:

Yes     No     Additional airlock size: \_\_\_\_\_

3. Door(s): Quantity \_\_\_\_\_ Size \_\_\_\_\_

Material: Anodized Aluminum

4. Window: Quantity \_\_\_\_\_ Standard (3'x3')    Other: \_\_\_\_\_

5. Air Curtain or Shower: \_\_\_\_\_

6. Pass thru(s), (standard size is 24"W x 24"H x 24"D – outside dimension):

Quantity \_\_\_\_\_ Specify size \_\_\_\_\_

7. Wall finish preference:    White vinyl covered hardboard     Composite resin     Steel

8. Flooring Preference:    Use Existing     Epoxy coated     Welded seamless vinyl

Specify: \_\_\_\_\_

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SHEET 4 OF 5

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9. Factory installed wall outlets: Yes  No

Electrical Quantity \_\_\_\_\_ 120V duplex outlets spaced every \_\_\_\_\_ ft.

Special electrical outlets: Quantity \_\_\_\_\_ (208V, 10, 30, ect.) \_\_\_\_\_

10. Plug strip mold, 120V, Standard 4' lengths \_\_\_\_\_

11. Monitor Panel with: Room Pressure Gauge(s): Yes  No

Hepa Filter Pressure Gauge(s): Yes  No

12. What control system is installed in building now? \_\_\_\_\_

### D). SITE INFORMATION

1. Located on \_\_\_\_\_ Floor of \_\_\_\_\_

Story building \_\_\_\_\_ ft from outside wall.

2. What is clear height from floor to roof joist or steel at cleanroom location? \_\_\_\_\_

3. What is height of roof joist? \_\_\_\_\_

What is space between joist? \_\_\_\_\_

4. Access to loading dock from cleanroom area: Easy  Difficult

How many feet from loading dock? \_\_\_\_\_

How wide are hallways? \_\_\_\_\_

5. Height to roof or other remaining overhead obstructions? \_\_\_\_\_

6. Location of A/C equipment: Ceiling \_\_\_\_\_ Floor \_\_\_\_\_ Wall exterior \_\_\_\_\_

7. Are existing building plans available? Yes  No

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8. Present floor material? \_\_\_\_\_

9. Air handler required: Air cooled with condenser Internal  or Remote

Water cooled \_\_\_\_\_ Temperature of local water \_\_\_\_\_

Chilled water \_\_\_\_\_ Temperature of chilled water \_\_\_\_\_

10. Is there a city drain for A/C condensate nearby? Yes  No

**E). AMBIENT CONDITIONS**

1. Conditions in space surrounding cleanroom:

Temperature: Summer \_\_\_\_\_ Winter \_\_\_\_\_

Humidity: Summer \_\_\_\_\_ Winter \_\_\_\_\_

2. Electrical service in building: 440V / 480V. 30 \_\_\_\_\_ 220V /240V.30 \_\_\_\_\_

110V / 208V.30 \_\_\_\_\_ is 227V available for lighting? Yes  No  Not Sure

3. Other conditions? \_\_\_\_\_

4. Installation: HEMCO will install  HEMCO will supervise

Buyer will supply labor  Buyer will install

5. Union requirements: Labor  Electrical  Plumbing  HVAC  Mechanical

6. Certification / Inspection requirements: \_\_\_\_\_  
\_\_\_\_\_

7. Miscellaneous installation requirements: \_\_\_\_\_  
\_\_\_\_\_