



**HEMCO**  
visit / [www.hemcocorp.com](http://www.hemcocorp.com) / thanks

HEMCO Corporation  
111 Powell Road  
Independence, MO 64056

Tel. (816) 796-2900  
Fax (816) 796-3333  
info@HEMCOcorp.com

## CLEANROOM SPECIFICATION PLANNER

(This guide provides us with the necessary information to prepare a quotation)

### A) CUSTOMER INFORMATION

DATE: \_\_\_\_\_

1. COMPANY \_\_\_\_\_
2. ADDRESS \_\_\_\_\_
3. CITY/STATE \_\_\_\_\_  
PROJECT NAME \_\_\_\_\_  
PROJECT ADDRESS \_\_\_\_\_  
\_\_\_\_\_
- NEAREST MAJOR CITY \_\_\_\_\_  
PROJECT PERSONNEL \_\_\_\_\_
4. PHONE \_\_\_\_\_ FAX \_\_\_\_\_ EMAIL \_\_\_\_\_
5. DESIRED COMPLETION DATE \_\_\_\_\_

### B) ROOM DESIGN PARAMETERS

1. PROCESS TO BE PERFORMED IN ROOM \_\_\_\_\_
2. CLEANLINESS CLASSIFICATION PER FEDERAL STANDARD 209E (CIRCLE ALL THAT APPLY)  
CLASS 10    CLASS 100    CLASS 1,000    CLASS 10,000    CLASS 100,000    NOT SURE
3. TYPE OF EQUIPMENT IN ROOM: \_\_\_\_\_
4. ARE EXISTING WALLS TO BE INCORPORATED: YES \_\_\_\_\_ NO \_\_\_\_\_
5. EXISTING WALL MATERIAL: \_\_\_\_\_
6. AIRFLOW REQUIREMENTS IN ROOM: SINGLE PASS \_\_\_\_\_ RE-CIRCULATING \_\_\_\_\_
7. PREFERRED AIRFLOW THROUGH ROOM? VERTICAL: (CEILING TO FLOOR) \_\_\_\_\_  
HORIZONTAL \_\_\_\_\_





8. HEAT LOAD GENERATED BY EQUIPMENT IN ROOM (S) (kW or BTU/HR) \_\_\_\_\_
9. DUTY CYCLE OF EQUIPMENT GENERATING HEAT IN CLEANROOM  
25%ON \_\_\_\_\_ 50%ON \_\_\_\_\_ 75%ON \_\_\_\_\_ 100%ON \_\_\_\_\_
10. IS ANY HEAT PRODUCING EQUIPMENT IN CLEANROOM WATER COOLED? YES \_\_\_\_\_ NO \_\_\_\_\_
11. PROCESS EXHAUST VOLUME (CFM) \_\_\_\_\_
12. AIRLOCK/CHANGE ROOM CONDITIONS: TEMPERATURE \_\_\_\_\_ ± \_\_\_\_\_  
HUMIDITY \_\_\_\_\_ MN \_\_\_\_\_ MAX  
RELATIVE PRESSURE 0 + ++ +++
- CLEANROOM (#1) CONDITIONS: TEMPERATURE \_\_\_\_\_ ± \_\_\_\_\_  
HUMIDITY \_\_\_\_\_ MN \_\_\_\_\_ MAX  
RELATIVE PRESSURE 0 + ++ +++
- CLEANROOM (#2) CONDITIONS: TEMPERATURE \_\_\_\_\_ ± \_\_\_\_\_  
HUMIDITY \_\_\_\_\_ MN \_\_\_\_\_ MAX  
RELATIVE PRESSURE 0 + ++ +++
13. EMERGENCY LIGHTING: YES \_\_\_\_\_ NO \_\_\_\_\_
14. DESIRED LIGHTING LEVEL (TYPICALLY 80/100 FC) YES \_\_\_\_\_ OR SPECIFY \_\_\_\_\_
15. ANY SPECIAL LIGHTING COLORS? YES \_\_\_\_\_ NO \_\_\_\_\_ PHOTO RESIST YELLOW? YES \_\_\_\_\_ NO \_\_\_\_\_
16. EXPLOSION PROOF LIGHTS REQUIRED? YES \_\_\_\_\_ NO \_\_\_\_\_ (DESCRIBE) \_\_\_\_\_
17. ON/OFF FIXTURE CONTROL? YES \_\_\_\_\_ NO \_\_\_\_\_
18. ANY HAZARDOUS OR FLAMMABLE MATERIALS USED IN PROCESS? YES \_\_\_\_\_ NO \_\_\_\_\_  
(DESCRIBE) \_\_\_\_\_
19. DOES BUILDING HAVE FIRE SPRINKLERS? YES \_\_\_\_\_ NO \_\_\_\_\_
20. DOES CLEANROOM REQUIRE SPRINKLERS? YES \_\_\_\_\_ NO \_\_\_\_\_
21. OTHER SAFETY SYSTEMS REQUIRED? YES \_\_\_\_\_ NO \_\_\_\_\_

**C) ROOM DETAILS**

1. ROOM SIZE (PLEASE ATTACH FLOOR PLAN IF AVAILABLE)
- AIRLOCK/CHANGE ROOM: \_\_\_\_\_ W x \_\_\_\_\_ L x CEILING HEIGHT \_\_\_\_\_
- CLEANROOM (#1) \_\_\_\_\_ W x \_\_\_\_\_ L x CEILING HEIGHT \_\_\_\_\_
- CLEANROOM (#2) \_\_\_\_\_ W x \_\_\_\_\_ L x CEILING HEIGHT \_\_\_\_\_
2. ADDITIONAL AIRLOCK BETWEEN CHANGE ROOM & CLEANROOM? YES \_\_\_\_\_ NO \_\_\_\_\_  
ADDITIONAL AIRLOCK SIZE \_\_\_\_\_



- 3. DOORS (S) QTY./SIZE \_\_\_\_\_  
MATERIAL: ANODIZED ALUMINUM \_\_\_\_\_  
AUTOMATIC OR MANUAL SLIDING TYPE? \_\_\_\_\_
- 4. WINDOW QTY./[STD. SIZE IS 3' X 3'] \_\_\_\_\_
- 5. AIR CURTAIN OR SHOWER? \_\_\_\_\_
- 6. PASSTHRU (S)-[STD.SIZE IS 22"W X 22"H X 22"D-OUTSIDE DIMENSION] HOW MANY \_\_\_\_\_  
SPECIFY SIZE (S): \_\_\_\_\_  
PASSTHRU MECHANICAL INTERLOCK (S)? YES \_\_\_\_\_ NO \_\_\_\_\_  
PASSTHRU ELECTRICAL INTERLOCK (S)? YES \_\_\_\_\_ NO \_\_\_\_\_
- 7. WALL FINISH PREFERENCE: WHITE PVC STANDARD \_\_\_\_\_ WHITE LAMINATE \_\_\_\_\_  
STAINLESS STEEL \_\_\_\_\_ BAKED ENAMEL ON ALUMINUM \_\_\_\_\_ ON STEEL \_\_\_\_\_  
NON-OUTGASSING POLYESTER FINISH \_\_\_\_\_
- 8. FLOORING PREFERENCE: WELDED SEAMLESS VINYL \_\_\_\_\_ EPOXY COATED \_\_\_\_\_  
COMPUTER ROOM STYLE RAISED \_\_\_\_\_ ANTI-STATIC \_\_\_\_\_ VINYL TILE \_\_\_\_\_  
ANY OTHER SPECIAL FLOOR REQUIREMENTS? YES \_\_\_\_\_ NO \_\_\_\_\_  
(DESCRIBE) \_\_\_\_\_  
\_\_\_\_\_
- 9. FACTORY INSTALLED WALL OUTLETS? YES \_\_\_\_\_ NO \_\_\_\_\_  
ELECTRICAL: QUANTITY \_\_\_\_\_ 120V DUPLEX OUTLETS SPACED EVERY \_\_\_\_\_ FT.  
SPECIAL ELECTRICAL OUTLETS: QUANTITY \_\_\_\_\_ [208V, 1Ø, 3Ø, ETC.]
- 10. PLUG STRIP MOLD, 120V,STD. 4' LENGTHS \_\_\_\_\_
- 11. UTILITY PIPING FOR GASES: STANDARD QUICK CONNECT WALL FITTING (S) \_\_\_\_\_ OR BALL VALVE \_\_\_\_\_ [QTY.] COM.AIR \_\_\_\_\_ VACUUM \_\_\_\_\_ NITROGEN \_\_\_\_\_ ARGON \_\_\_\_\_ OTHER \_\_\_\_\_ [NATURAL GAS, QTY./SIZE OR FLOW REQUIRED] \_\_\_\_\_
- 12. ANY OTHER TYPE OF OUTLETS OR VALVES? (SPECIFY) \_\_\_\_\_
- 13. CONTROL PANEL: DIGITAL TEMP/HUMIDITY W/7 DAY SHART RECORDER (STD.)Y \_\_\_\_\_ N \_\_\_\_\_
- 14. MONITOR PANEL WITH: ROOM PRESSURE MONITOR GAUGE (S) YES \_\_\_\_\_ NO \_\_\_\_\_  
HEPA FILTER PRESSURE GAUGE (S) YES \_\_\_\_\_ NO \_\_\_\_\_
- 15. 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 JOISTS OR STEEL AT CLEAN ROOM LOCATION?  
\_\_\_\_\_
3. WHAT IS HEIGHT OF ROOF JOIST? \_\_\_\_\_ WHAT IS SPACE BETWEEN JOIST? \_\_\_\_\_
4. HEIGHT TO ROOF OR OTHER REMAINING OVERHEAD OBSTRUCTIONS? \_\_\_\_\_
5. ACCESS TO LOADING DOCK FROM CLEANROOM AREA: EASY \_\_\_\_\_ DIFFICULT \_\_\_\_\_  
HOW MANY FEET TO LOADING DOCK? \_\_\_\_\_ HOW WIDE ARE HALLWAYS? \_\_\_\_\_
6. LOCATION OF A/C EQUIPMENT: CEILING \_\_\_\_\_ FLOOR \_\_\_\_\_ WALL EXTERIOR \_\_\_\_\_
7. PRESENT ROOF TYPE: TAR/GRAVEL \_\_\_ RUBBER MEMBRANE \_\_\_ METAL \_\_\_ NOT SURE \_\_\_\_\_
8. ARE EXISTING BUILDING PLANS AVAILABLE? YES \_\_\_\_\_ NO \_\_\_\_\_
9. PRESENT FLOOR MATERIAL? \_\_\_\_\_
10. AIR-HANDLER REQUIRED: AIR-COOLED WITH CONDENSOR INTERNAL \_\_\_\_\_ OR  
REMOTE \_\_\_\_\_ WATER COOLED \_\_\_\_\_ TEMPERATURE OF LOCAL WATER \_\_\_\_\_  
CHILLED WATER \_\_\_\_\_ TEMPERATURE OF CHILLED WATER \_\_\_\_\_
11. 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.3Ø \_\_\_\_\_ 220V/240V.3Ø \_\_\_\_\_  
110V/208V.3Ø \_\_\_\_\_ IS 277V AVAILABLE FOR LIGHTING? YES \_\_\_\_\_ NO \_\_\_\_\_ NOT SURE \_\_\_\_\_
3. OTHER CONDITIONS: \_\_\_\_\_
4. INSTALLATION: HEMCO WILL INSTALL \_\_\_\_\_
5. HEMCO WILL SUPERVISE \_\_\_\_\_ BUYER WILL SUPPLY LABOR \_\_\_\_\_  
BUYER WILL INSTALL \_\_\_\_\_
6. UNION REQUIREMENTS: LABOR \_\_\_\_\_ ELECTRICAL \_\_\_\_\_ PLUMBING \_\_\_\_\_  
HVAC \_\_\_\_\_ MECHANICAL \_\_\_\_\_



# HEMCO

visit / [www.hemcocorp.com](http://www.hemcocorp.com) / thanks

HEMCO Corporation  
111 Powell Road  
Independence, MO 64056

Tel. (816) 796-2900  
Fax (816) 796-3333  
[info@HEMCOcorp.com](mailto:info@HEMCOcorp.com)

7. CERTIFICATION/INSPECTION REQUIREMENTS: \_\_\_\_\_

---

---

8. MISCELLANEOUS INSTALLATION REQUIREMENTS: \_\_\_\_\_

---

---

---

---