Cleanroom Design

Thank you for requesting our Cleanroom Design Data Form.

Our approach to the market is as a partner directly with the end user of the Cleanroom. This allows us to design a facility that will meet the operational requirements of the owner. We are a Design / Build and Maintain Full Service Contractor. We would consult with you to fully understand your requirements and budget. After this consultation we would offer a complete turnkey package, including:

- 1. Provide a design, with various options, their benefits, and cost comparison.
- 2. Complete construction and management, including contractor protocol training,
- 3. Commissioning, including all applicable testing as per ISO 14644
- 4. Protocol training for staff, including suggestions for gowning, cleaning and Cleanroom use, and budget cost estimates for these items.
- 5. Provide ongoing maintenance and support, and guarantee conformance to the requirements.

The successful Cleanroom starts with the design and planning process. Our initial on site consultation is offered at no cost or obligation. The earlier we can come on board with the team, the easier it is for us to assist in design tuning that may save initial or operational cost.

We have prepared this to assist us in having a compete understanding of your existing facility, and the conditions under which the construction will take place. Please feel free to contact our office, and we can send you instructions on how to complete the Cleanroom Design Forms.

We look forward to working with you.

Vernon Solomon, President



122F Commerce Park Drive, Barrie, ON L4N 9A8, Canada Phone: 705 797 8877 / Toll Free: 1 866 565 7055 Email: info@e-s-c.com

Date:				
Project Name:				
Project Coordinator:				
Decision Maker:				
Company:				
Address:				
Phone #				
Fax #				
Email:				
Are Drawings Available ?	No	Yes	AutoCAD or ReVIT Format	
Date Proposal Required:				
Desired Completion Date:				





Required Cleanroom Conditions

	Room #	Room #
Name:		
Dimensions:		
Cleanliness Class:		
Temperature Set Point:		
Temperature Range:		
Humidity Set Point:		
Humidity Range:		
Exhaust Required:		
Total Process Equipment Heat Load: (kW, HP, or BTUH)		
Maximum Number of People:		
Other Latent Heat Sources:		
Required Ceiling Height:		
Sprinkler Protection Required:		
Other Fire Protection Required:		
Lighting Level:		
Pressure Difference to Ambient:		
Toxic Gas Use:		



Site Data															
Demolition Required?															
Concrete or Steel Joist Structure?															
Clear Height fro	Clear Height from Floor to Bottom of Joists:														
Joist Depth Spacing Alignment N/S or E/W															
Roof Membrane	Roof Membrane Material Tar & Gravel Rubber Membrane Steel														
Condition of Ex	istin	g Roof									Age				
Contractor for F	₹oof	Warra	nty												
Cleanroom(s) to	o be	Self S	uppor	rting:											
Building Interior	r Pea	ak Amb	oient ⁻	Гетр	erat	ture	Su	ımmer (High)			Wir	nter(L	.ow)	
Building Peak A	۱mbi	ent Hu	midity	У			Su	ımmer(H	High)			Wir	nter(L	.ow)	
Make Up Air to	Make Up Air to be taken from: Building Ambient Outdoors														
Preferred Air Co	Preferred Air Conditioning Heat Rejection Equipment Location: Inside the Building Roof Adjacent to Building Building														
HVAC Equipme Hoisting	quipment Distance Distance In from Roof Edge								Distance Out from Wall to Crane						
Loading Dock	ing Dock Height From Ground Clear Opening S							ıg Siz	ze						
Drive In Door Clear Opening Size															
Overhead Crane Available Max Weight Max Height															
Fork Lift Available Max Weight Max Height															
Is there additional area outside the Cleanroom Envelope for material staging?															
Unit of Measure for Temperature Display °C °F															
Additional Notes:															



Available Utilities

Available Offities								
Chilled Water	Yes	No						
Temperature	GPM	Line Size	Pressure					
Condenser Water	Yes	No						
Temperature	GPM	Line Size	Pressure					
Hot Water	Yes	No						
Temperature	GPM	Line Size	Pressure					
Steam	Yes	No						
# / Hour Available		Line Size	Pressure					
Compressed Air	Yes	No						
	CFH	Line Size	Pressure					
Natural Gas	Yes	No						
	CFH	Line Size	Pressure					
Domestic Water	Yes	No						
	GPM	Line Size	Pressure					
Electrical Power	Voltage	Amperage	3 or 4 Wire					
Existing Panels MFG & Model #		Panels Required Distance to Main Distri	bution					
Building Drainage	Yes	No						
	GPM	Line Size						
Sprinkler System	Yes	No						
	GPM	Line Size	Pressure					
DI or RO Water	Yes	No						
Purity	GPM	Line Size	Pressure					

C L E A N R O O M S ENVIRONMENTAL SYSTEMS CORPORATION			Process E	quipment	Data	a Sheet	Customer Name:				
			Project Name :				Project Nu	ımber:	Date:		
			4. Plant Steam: Lbs/hr@ P			I Pipe Size: Ty	/pe:	Please state what the mea	asurement units are in the box:		
			5. Condensate Return:	Lbs/hr @	PS	I Pipe Size: Ty	/pe:				
Equipment Name:			6. Clean Steam:	Lbs/hr @	PS	I Pipe Size: Ty	/pe:		Service Dimension		
Manufacturer:			7. Compressed Air:	CFM	PS	I Pipe Size: Ty	/pe:				
Model Number:			8. Medical Air:	CFM	PS	I Pipe Size: Ty	/pe:		uipment Service		
I.D. or Serial Number:			9. Nitrogen:	CFM	PS	I Pipe Size: Ty	/pe:	Dimension	Dimension		
Location (Room or Zone)	ocation (Room or Zone):			CFM	PS	I Pipe Size: Ty	/pe:				
Equipment Heat Load to	Room:	Btu/hr	11. Process Vacuum:	CFM	In.Hg	. Pipe Size: Ty	/pe:	↑	Service Dimension		
Are the peak loads and running loads different? For example: What is the amp draw or gpm of the equipment as it comes up or down to operating temperature as opposed to the amp draw or gpm once operational? If these are different for any of the services please place peak load first and running load separated by a slash. Example: 20/4 gpm			12. House Vacuum:	CFM	" WC	Pipe Size: Ty	/pe:	▼			
			The following GPMs	are in:	U.S.	Imperial		Front of Equipment or Loading End Place the corresponding service number on the appropriate side that the			
			13. Chilled Water or Glycol: Pipe Size: Type:					service enters the equipment. Example: Place a (1) on the rear of the equipment if the electrical connector is at the back of the unit. Are there any special requirements such as pressure relief valves or venting pipes required? If so please add details in the Notes section.			
1. Electrical Power: Disconnect Required: Yes No			Deg. F Deg. C Max Temp: Min Temp:								
Voltage/Phase:	Amperage:	Plug In Req'd	BTU or Temp Rise: GPM: Pressure:				Equipment Height:	Service Height:			
Electrical Source required:	Normal I	Emergency UPS	14. Boiler Water:		Р	ipe Size: Type:			Service Height.		
Are there electrical panels or displays to be remote mounted from unit? Is there special grounding to be used or is an electrical starter required? If so please add details in the note section.		Deg. F	Deg. C Max Ter	np:	Min Temp:		Notes:				
		BTU or Temp Rise: GPM:			Pressure:						
2. Exhaust Air:	Duct Size	CFM @ " WC SP	15. Hot Domestic Water:	(SPM P	ipe Size: Type:					
Flammable Solvent		Acid Toxic	16. Cold Domestic Water:	(SPM P	ipe Size: Type:					
Dusts Other please deta		HEPA Containment	17. Domestic Drain:	(SPM P	ipe Size: Type:					
Max Temp:	Deg. F	Deg. C	18. D.I. / R.O. Water	(SPM P	ipe Size: Type:					
3. Supply Air:	Duct Size	CFM @ " WC SP	Quality:			sage					
Normal	НЕРА	ULPA	19. Water for Injection (WF	(1)	SPM P	ipe Size: Type:					
Deg. F	Deg. C Max Temp:	20. Purified Water (PW)	(SPM P	ipe Size: Type:						
Max RH: Min RH:			21. Other GPM Pipe Size: Type:								