

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 (the replacement for the US Federal Standard 209E).
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 complete 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 your contact.



ESC

ENVIRONMENTAL SYSTEMS CORPORATION
Design / Build & Maintenance of Controlled Environmental Systems

122 Commerce Park Drive, Unit F, Barrie, Ontario, L4N 9A8

Voice 705 722 3220 or 1 866 565 7055

Fax 705 722 7131 Email: info@e-s-c.ca

www.e-s-c.ca

Cleanroom Design Data

Date:

Project Name:

Project Coordinator:

Decision Maker:

Company:

Address:

Phone #

Fax #

E-mail:

Are Blueprints Available ? No Yes AutoCAD DWG/DXF Format

Date Proposal Required:

Desired Completion Date:



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Cleanroom Design Data

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:		



ENVIRONMENTAL SYSTEMS CORPORATION
 Design / Build & Maintenance of Controlled Environmental Systems

Cleanroom Design Data

Site Data

Demolition Required?

Concrete or Steel Joist Structure?

Clear Height from Floor to Bottom of Joists:

Joist Depth	Spacing	Alignment	N/S or E/W
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Roof Membrane Material	Tar & Gravel	Rubber Membrane	Steel
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Condition of Existing Roof	Age
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Contractor for Roof Warranty

Cleanroom(s) to be Self Supporting:

Building Interior Peak Ambient Temperature	Summer (High)	Winter(Low)
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Building Peak Ambient Humidity	Summer(High)	Winter(Low)
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Make Up Air to be taken from:	Building Ambient	Outdoors
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Preferred Air Conditioning Heat Rejection Equipment Location:	Inside the Building	Roof	Adjacent to Building
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HVAC Equipment Hoisting	Distance Up	Distance In from Roof Edge	Distance Out from Wall to Crane
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Loading Dock	Height From Ground	Clear Opening Size
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Drive In Door	Clear Opening Size
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Overhead Crane Available	Max Weight	Max Height
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Fork Lift Available	Max Weight	Max Height
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Is there additional area outside the Cleanroom Envelope for material staging?

Unit of Measure for Temperature Display	°C	°F
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Additional Notes:



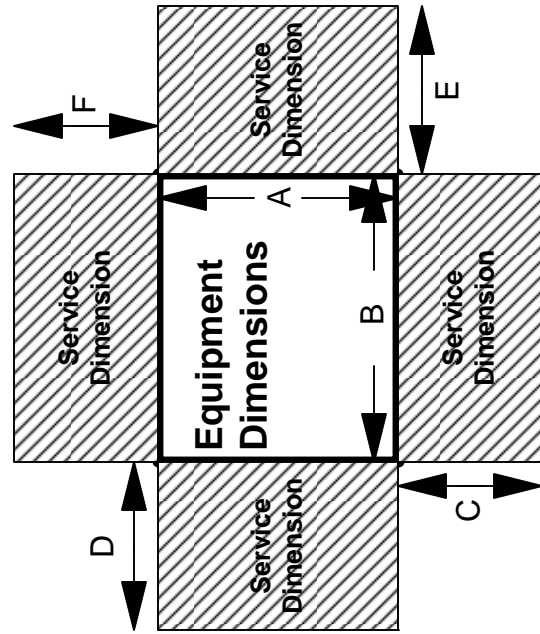
Cleanroom Design Data

Available Utilities

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 Distribution	
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

Process Equipment Data Sheet

Equipment Name:	Electrical Power:		Disconnect Required: Yes / No	
Manufacturer:	Voltage:	Starter Req'd	Plug In Req'd	
Model Number:	Amperage:	Conditioning:	Special Grounding	
I.D. or Serial Number:	Exhaust:		CFM @	" WC SP
Location (Room or Zone):	General	Acid	Solvent	Toxic
Other Notes:	Process Cooling Water:		Maximum Temperature:	
	BTU or Temperature Rise:		Minimum Temperature:	
	GPM:		Pressure:	
	Domestic Water:		GPM	
	Domestic Drain:		GPM	
	Solvent Drain:		GPM	
	D.I. Water		GPM	Usage
	Quality:			
	Compressed Air:		CFM	Pressure
	Nitrogen:		CFM	Pressure
	Other Gas:		CFM	Pressure
	Process Vacuum:		CFM	In.Hg.
	House Vacuum:		CFM	" of WC



Equipment Height:	Service Height:
Equipment Front View	