



Controlled Air Design
Raleigh, NC
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SYSTEM DESIGN WORKSHEET INDUSTRIAL VACUUM SYSTEM

Return completed form to: sales@controlledairdesign.com

COMPANY INFORMATION

Company _____
Contact _____
Address _____
Telephone _____ Fax _____
Email _____
Rep Name _____

1. APPLICATIONS

Please describe your dust generating applications. What do you wish to accomplish with a vacuum system? What is the current clean-up method and how much time does it take?

1.2 Speed & Budget

Simultaneous Operators _____
Hose Diameter _____
Expected Clean-Up Time _____ Sec Min Hr Day
Expected Budget _____
When will you be making a purchasing decision?
 Immediate 1 – 3 Months 3 – 6 Months For Budget Only

1.3 This Dust Issue Relates to:

- Production

 Maintenance
 Health & Safety

 Insurability

2. MATERIALS ANALYSIS

Common Name _____

Bulk Density	_____	<input type="checkbox"/> Lbs/ft ³	<input type="checkbox"/> Kg/m ³	
Initial Clean-Up Volume	_____	<input type="checkbox"/> Tons	<input type="checkbox"/> Lbs	<input type="checkbox"/> Yd ³
Periodic Volume Generated	_____	<input type="checkbox"/> Lbs/min	<input type="checkbox"/> Tons/hr	
Relative Humidity	_____	% _____		
Material Temperature	_____	<input type="checkbox"/> °F	<input type="checkbox"/> °C	
Material Safety Data Sheet	_____			

2.1 Particle Size or Diameter

From _____ To _____ Inch μm mm

2.2 Particle Type / Shape

- | | | | |
|-------------------------------------|------------------------------------|----------------------------------|---------------------------------|
| <input type="checkbox"/> Heavy Dust | <input type="checkbox"/> Powders | <input type="checkbox"/> Pellets | <input type="checkbox"/> Chips |
| <input type="checkbox"/> Lumps | <input type="checkbox"/> Granular | <input type="checkbox"/> Flakes | <input type="checkbox"/> Curls |
| <input type="checkbox"/> Fibrous | <input type="checkbox"/> Bird Nest | <input type="checkbox"/> Beads | <input type="checkbox"/> Sticky |

2.3 Flowability

- Extreme

 Moderate

 Sluggish

2.4 Special Characteristics

- Abrasive Corrosive Explosive Toxic Fumes
- Sticky Smearly Heat Sensitive Aerates-Dusty Tends to Pack
- Hygroscopic Static

3. MATERIAL DISCHARGE

- Silo Knife-Gate Pneu. Valve Rotary Airlock
- Screw Convey Hopper Dual Flapgate Pressure
- Super Bags Reclaim Drum

4. BUILDING DATA / AVAILABILITIES

Existing Vacuum System? Yes No Don't Know

If yes, what type? _____

Electrical Availability		Volts		Phase		Hz
Welding Outlet Electrical		Volts		Phase		Hz
		Amps		HP		

Proposed Location of New Vacuum System

Height Constraints

Additional Comments

5. TUBING / PIPING NETWORK

<input type="checkbox"/> Tubing			<input type="checkbox"/> Piping			
<input type="checkbox"/> 16 ga	<input type="checkbox"/> 14 ga	<input type="checkbox"/> 11 ga	<input type="checkbox"/> Sch 10	<input type="checkbox"/> Sch 20	<input type="checkbox"/> Sch 40	<input type="checkbox"/> Sch 80

Specifications

Vertical Risers	Qty		Laterals	Qty	

Isometric View