



Vent Sizing Worksheet Spray Dryer

704 South 10th Street • P.O. Box 610 • Blue Springs, MO 64015-4263 • (816) 229-3405 • Fax (816) 228-9277

Company _____
Address _____

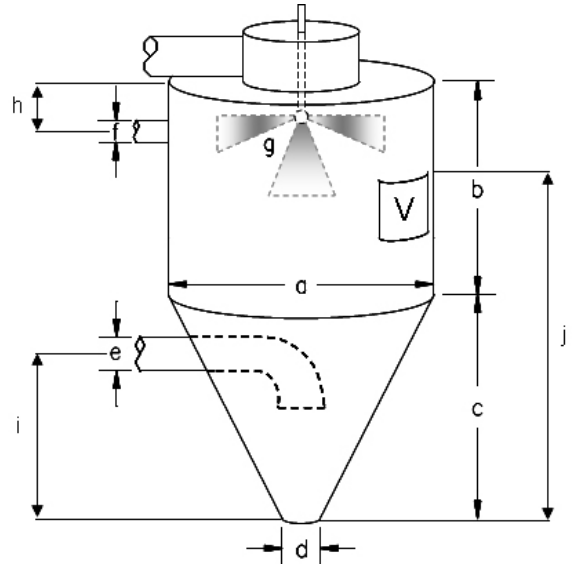
Project # _____

Contact _____
Phone _____
Fax _____
e-mail _____

Process	
Maximum positive pressure	
Maximum vacuum	
Inlet temperature	
Exhaust temperature	
Ambient temperature	
Airflow	
Reduced Explosion Pressure (P_{red})	
Enclosure location	<input type="checkbox"/> indoors <input type="checkbox"/> outdoors

Combustible material (advise if hybrid)	
Name	
K_{St}	bar*m/sec
P_{max}	barg

Enclosure		
Application		
Tag/I.D. Number		
Manufacturer		
Model Number		
a	Major diameter	
b	Straight wall	
c	Conical-height	
d	Discharge diameter	
e	Exhaust diameter	
f	Recycle material diameter	
g	Spray nozzle	<input type="checkbox"/> conical <input type="checkbox"/> centrifugal
h	Centerline to recycle duct	
i	Centerline to exhaust duct	
j	Vent elevation	Min. Max.



- Explosion Venting** - Control the Explosion Pressure. Relieves explosion overpressure within process enclosure before destructive levels of pressure are reached.
- Flameless Venting** - Extinguishes the flame from a vented explosion, where it could ignite secondary explosions or endanger personnel. Can Be Used When Vent Discharge Ducts Are Not Possible or Economical.

Explosion Vent			
Preferred Vent Model		Alternate Vent	
Preferred P_{Stat}		Alternate P_{Stat}	
Preferred Size		Alternate Size	
Preferred Quantity			

Explosion Vent Discharge Duct (If Applicable)	
Overall Length	
Number of Elbows	
Weather Cover	<input type="checkbox"/> yes <input type="checkbox"/> no

Comments