



# Vent Sizing Worksheet

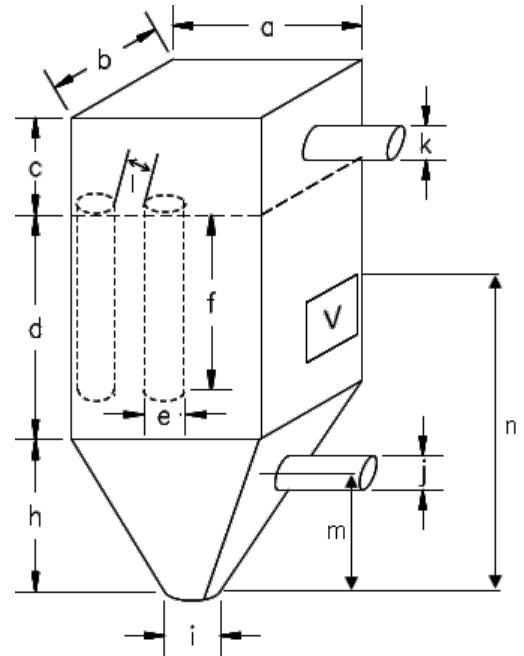
## Rectangular Bag Filter Dust Collector

704 South 10<sup>th</sup> 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	
Maximum process temperature	
Ambient temperature	
Airflow	
Reduced Explosion Pressure ( $P_{red}$ )	
Enclosure location	<input type="checkbox"/> indoors <input type="checkbox"/>
Combustible material	
Name	
$K_{St}$	bar*m/sec
$P_{max}$	barg
Enclosure	
Application	
Tag/I.D. Number	
Manufacturer	
Model Number	
a	Width
b	Length
c	Clean-straight wall
d	Dirty-straight wall
e	Filters-diameter
f	Filters-length
g	Filters-quantity
h	Hopper-height
i	Hopper discharge-diameter
j	Inlet diameter
	Distribution baffle <i>provide sketch</i>
k	Exhaust diameter
l	Distance between filters
m	Inlet centerline location
n	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 Model	
Preferred $P_{Stat}$		Alternate $P_{Stat}$	
Preferred Size		Alternate Size	
Preferred Quantity			
Explosion Vent Discharge Duct			
Overall Length			
Number of Elbows			
Weather Cover	<input type="checkbox"/> yes <input type="checkbox"/> no		

Comments: