



# Vent Sizing Worksheet Cartridge Filter Dust Collector

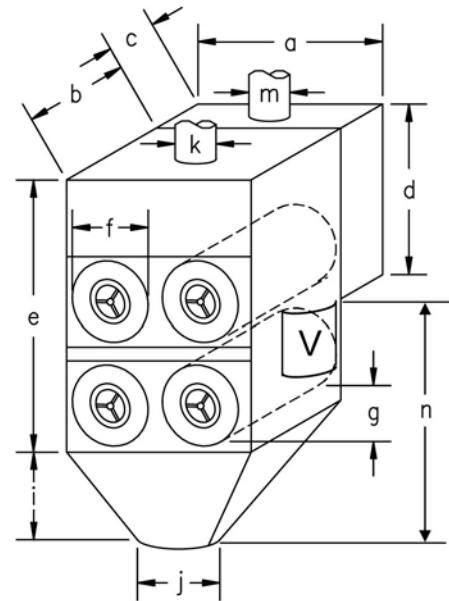
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**Company** \_\_\_\_\_  
**Address** \_\_\_\_\_  
 \_\_\_\_\_  
**Project #** \_\_\_\_\_

**Contact** \_\_\_\_\_  
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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"/> outdoors
Combustible material	
Name	
$K_{St}$	bar*m/sec
$P_{max}$	barg

Enclosure	
Application	
Tag/I.D. Number	
Manufacturer	
Model Number	
a	Width
b	Length - dirty air plenum
c	Length - clean air plenum
d	Height - clean air plenum
e	Height - dirty air plenum
f	Cartridge filter - diameter
g	Cartridge filter - length
h	Cartridge filter - quantity
i	Hopper-height
j	Hopper discharge-diameter
k	Inlet diameter
	Distribution baffle <i>provide sketch</i>
m	Exhaust diameter
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	
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			