

EXPLOSION SAFETY WORKSHEET



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Company _____
 Address _____

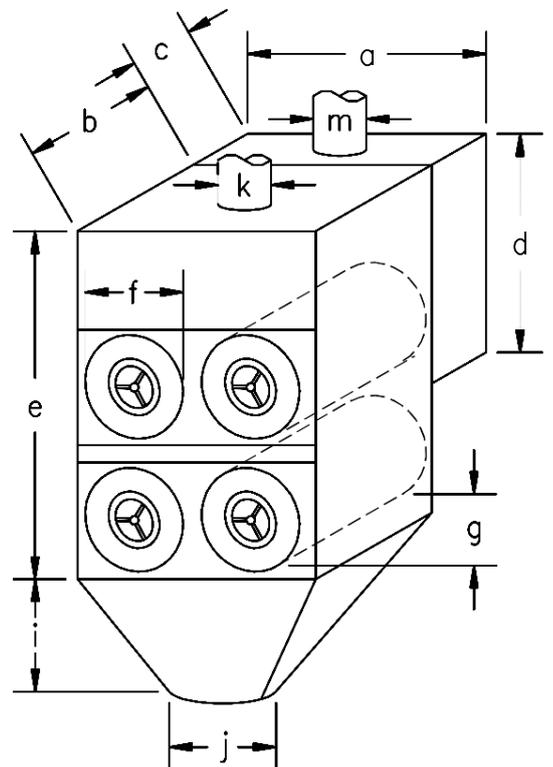
 Project _____
 Insurance Carrier _____

Contact _____
 Phone _____
 Fax _____
 Email _____

Rectangular dust collector-clean air on side

Process	
Maximum positive pressure	
Maximum vacuum	
Maximum process temperature	
Ambient temperature	
P_{red} – enclosure strength	
Enclosure location	<input type="checkbox"/> Indoors <input type="checkbox"/> Outdoors
If indoors – distance to exterior wall	
Airflow	CFM

Combustible material	
Name	
P_{max}	barg
K_{St}	bar*m/s
MIE	mJ
Hybrid Mixture NFPA = < 10% MEC VDI = < 20% MEC	<input type="checkbox"/> Yes <input type="checkbox"/> No



Enclosure	
Tag/I.D. Number	
Manufacturer	
Model No.	
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

<input type="checkbox"/>	Explosion Venting – Control the Explosion Pressure Relieves explosion overpressure within process enclosure before destructive levels of pressure are reached
<input type="checkbox"/>	Explosion Isolation – Control the Explosion Propagation Mechanical barriers to prevent the spread of explosions through interconnected pipe or ducts
<input type="checkbox"/>	Return Air Isolation – Control the Explosion Propagation

Comments: