

EXPLOSION SAFETY WORKSHEET



REMBE® Inc.

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Company _____
 Address _____

 Project _____
 Insurance Carrier _____

Contact _____
 Phone _____
 Fax _____
 Email _____

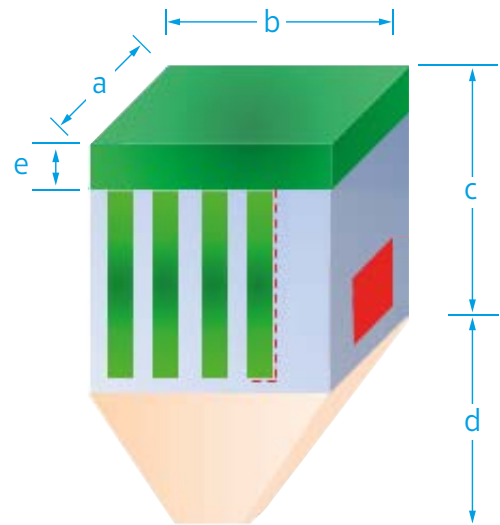
Rectangular dust collector-clean air on top

Process	
Maximum positive pressure	
Maximum vacuum	
Maximum process temperature	
Ambient temperature	

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

Enclosure	
Tag/I.D. Number	
Manufacturer	
Model No.	
P_{red} – enclosure strength	
Enclosure location	<input type="checkbox"/> Indoors <input type="checkbox"/> Outdoors
If indoors - distance to exterior	
a	Body width
b	Body depth
c	Body height
d	Hopper height
e	Clean air height
Hopper discharge dimensions	

Comments: _____



Filter elements	
Filter diameter	
Filter length	
Number of filters	

Inlet duct diameter	
Inlet diameter	
Inlet duct length	
Clean air dimensions	
Clean air duct length	

Outlet	
Outlet Rotary Valve (Explosion proof)	<input type="checkbox"/> Yes <input type="checkbox"/> No

<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