

SPARKTRAP

ALL SPARK TRAPS AREN'T CREATED EQUAL!

Patent Number 10,119,443

All spark traps aren't created equal. Looking inside, the problem with most spark traps is they simply swirl the air. Many forget that the ember travels with the air, with a relative velocity of zero. Well, that isn't a problem anymore with US Duct's spark trap. Its patented technology "tumbles" the ember through a "Tortuous Path" forcing contact with more oxygen, and allowing more time for the spark to burn out.



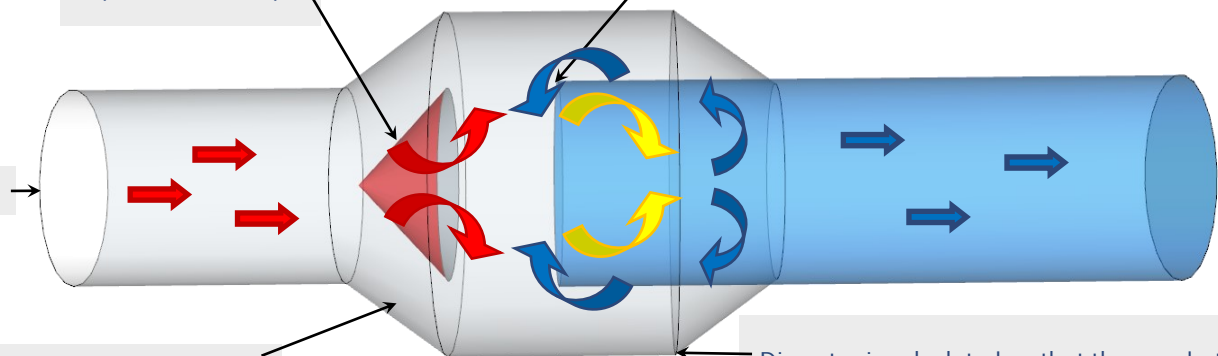
Because of the custom cone and the outlet inset design, our spark trap effectively eliminates sparks before they can exit the trap and thus, it can be installed right at the dust collector, adding convenience and eliminating distance requirements!



Radially Finned Cone
Dia. = In x 1.2
(varies with dia.)

Outlet Duct Dia. Extends into the expansion chamber

Inlet



Reducing Inlet Cone
Length* = 1/2 Inlet Dia.
(*only the taper)

Diameter is calculated so that the area between the finned cone and the outer duct is equal to the area of the inlet.
Area of Outer Duct - Area of Cone = Area of Inlet



Also available with drop out (boot trap) for application with dust. Must be connected to sealed container.

Check out the Spark Trap in Action!

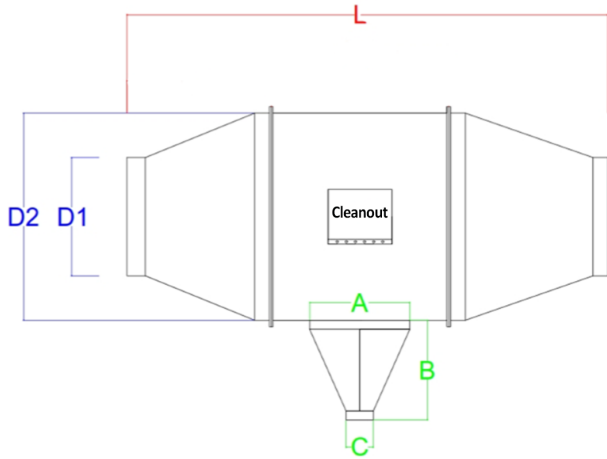
Visit the link below:

www.bettersparktrap.com



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Recommended velocity is 3200 FPM - Pressure drop .8". The unit can be applied to higher velocities but the pressure will jump exponentially to ~ 2.8" if run at 4500 FPM.

US Duct Spark Trap Dimensions (in inches)

Inlet (D1)	Outside Dia of Mid Section (D2)	Overall Length (L)	Dropout: (A)	Dropout: (B)	Dropout: (C)	Clean-Out Door (CO)
4	8	36	4	8	4	6x8
5	9	40	5	8	4	6x8
6	11	45	6	8	4	8x10
7	12	41	7	8	4	8x10
8	14	46	8	8	4	8x10
9	16	48	9	8	4	8x10
10	18	51	10	8	4	8x10
12	22	59	12	8	4	10x12
14	25	66	14	14	6	10x12
16	29	70	16	14	6	10x12
18	33	78	18	14	6	12x14
20	36	81	20	14	6	12x14
22	40	85	22	14	6	12x14
24	44	96	24	14	6	12x14
26	46	102	24	18	6	12x14
28	50	110	24	18	6	12x14
30	54	114	24	18	6	12x14
32	58	121	24	18	6	12x14
34	62	131	24	18	6	12x14
36	66	137	24	18	6	12x14
38	70	155	24	18	6	12x14
40	72	159	24	18	6	12x14
42	76	163	24	18	6	12x14
44	80	167	24	18	6	12x14
46	84	184	24	18	6	12x14
48	88	188	24	18	6	12x14
50	92	192	24	18	6	12x14

