



# SPARK GUARDIAN™

## GUARDIAN™ Fire Safety Solutions for Fume Control Systems

### CYCLONE SPARK ARRESTOR

The Spark Guardian™ is highly efficient in preventing sparks and cigarette butts from passing through, and on to the filter. Also, it is a very effective in-line pre-separator, reducing dust load in the connected fume control filter system.

The Spark Guardian™ is to be mounted in a horizontal position. Its modular housing enables maintenance without duct disassembly.

The Spark Guardian™ comes with a 5 gal. dustbin and inspection hatches. The distance between the spark arrestor and dustbin can be lengthened by adding a duct of 8 inches in diameter between the two.

### APPLICATIONS:

The Spark Guardian™ is part of Lincoln Electric's GUARDIAN™ fire safety solutions for fume control systems and is recommended for applications with an increased fire risk, such as:

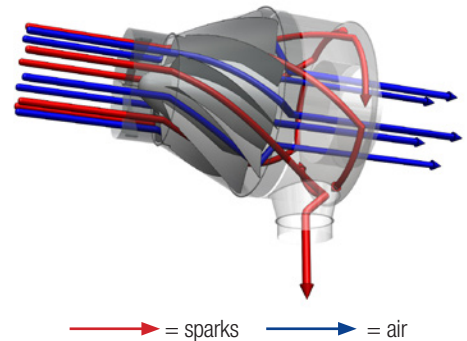
- Robotic welding of oily stamped products
- Robotic and automatic welding of oily products
- Manual welding of oily products
- Cutting tables
- Schools/Other areas with risk of cigarette butts

### SPECIFICATIONS:

#### • Physical Dimensions and Properties:

- Material:
  - Inlet & Outlet: Powder-Coated Steel
  - Spark Twist: Galvanized Steel
  - Dustbin: Steel (Painted Black)
  - Hose: Fiberglass/Kevlar/Metal

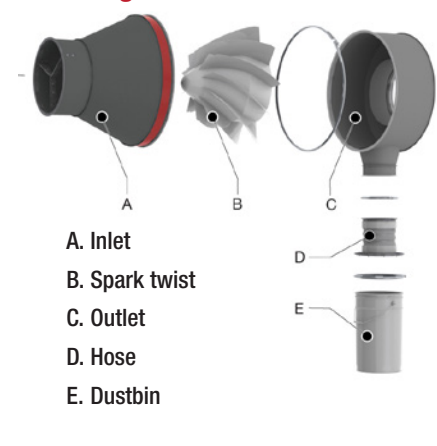
#### • Separation of Sparks:



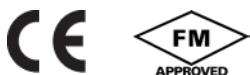
#### • Installation Possibilities:



### Mounting Position



### APPROVALS/CERTIFICATES



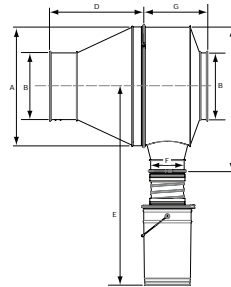


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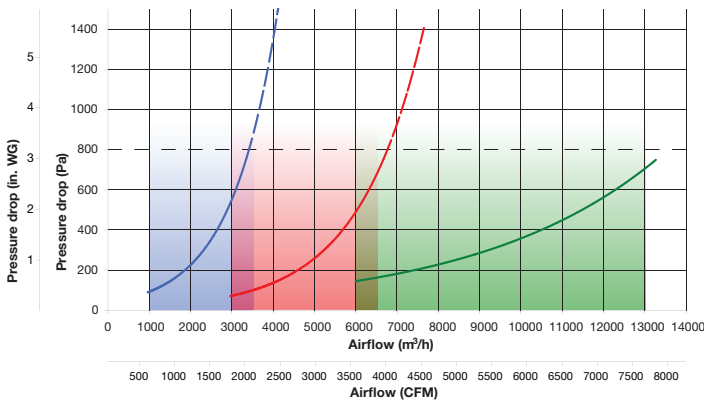
## GUARDIAN™ Fire Safety Solutions for Fume Control Systems

**TABLE 1: SPECIFICATIONS PER TYPE**

SPARK GUARDIAN™	10	16	20
<b>Physical Dimensions and Properties</b>			
A	19.7 in.	28.0 in.	35.4 in.
B	9.8 in.	15.7 in.	19.7 in.
D	17.0 in.	23.1 in.	25.7 in.
E	min. 41.3 in.	min. 47.2 in.	min. 52.2 in.
F	7.9 in.	7.9 in.	7.9 in.
G	13.6 in.	15.2 in.	19.9 in.
H	24.3 in.	34.1 in.	42.8 in.
Total Weight (net): Spark Arrestor Only:	52.1 lbs 44.1 lbs	79.4 lbs 70.5 lbs	119.0 lbs 110.0 lbs
Appropriate duct size	10 in.	16 in.	20 in.
<b>Accessories</b>			
Manual damper	MD-8	MD-8	MD-8
<b>Shipping Data</b>			
Gross weight - excl.pallet (incl. pallet)	61.7 lbs (81.6 lbs)	90.4 lbs (119.0 lbs)	132.3 lbs (187.4 lbs)
Packing dimensions - in.	31.5 x 23.6 x 31.5	47.2 x 31.5 x 39.8	47.2 x 39.8 x 47.2



### PRESSURE DROP & WORKING RANGE



SPARK GUARDIAN™	Pressure Drop	Working Range (max. 3 in. WG)
10	Blue line	Blue shaded area
16	Red line	Red shaded area
20	Green line	Green shaded area

### ORDER INFORMATION

Product Name	Product Number
Spark Guardian™ 10	AD1387-4
Spark Guardian™ 16	AD1387-5
Spark Guardian™ 20	AD1387-6

The operation of welding fume control equipment is affected by various factors including proper use and positioning of the equipment, maintenance of the equipment and the specific welding procedure and application involved. Worker exposure level should be checked upon installation and periodically thereafter to be certain it is within applicable OSHA PEL and ACGIH TLV limits.

#### CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to [www.lincolnelectric.com](http://www.lincolnelectric.com) for any updated information.

### WORLD-CLASS WELD FUME CONTROL EXPERTISE

Our technical sales team is trained and knowledgeable about the methodology of substitution, isolation, and ventilation. As a key partner, with a wealth of experience and knowledge of welding, welding fume removal, we can assist you to identify the right weld fume control solution for your application. Lincoln Electric has a global network of facilities and people to provide quick response and personalized attention, no matter where your welding operations are located.

### SUPPORT & TRAINING PROGRAMS

We offer support materials, training tools, free seminars and courses to enhance your welding and cutting safety program.

Our service and support programs are designed to meet your needs. For on-going preventive maintenance and support, our team can train your staff, conduct evaluations or audits and deliver the services you need to stay productive and effective.

### VALUABLE CUSTOM SOLUTIONS

The Lincoln Electric weld fume control team understands and recognizes that each welding application is unique with its own set of variables; one equipment and consumable solution does not fit every application. Our team will engineer a system to efficiently and effectively remove welding fume and particulate from your metalworking operations.

Contact us today!

#### Environmental Solutions Group

1-888-935-3878 (Menu option #4)

#### Automation After-Hours Technical Support

1-888-532-8001



#### The Lincoln Electric Company

Automation Division

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