

**RoboVent**<sup>®</sup>

**Delta3**



**Superior spark arrestance for  
welding, grinding and  
metal cutting applications.**

## Stop fires before they start.

Sparks are a natural byproduct of welding, grinding and metal cutting—but if they are left uncontrolled, the resulting fires can have devastating consequences. Now you can protect your workers, equipment and facilities with the most advanced and efficient spark arrestance system available on the market today.

Delta3 is built on groundbreaking technology that uses centrifugal force to kill sparks before they have a chance to grow. By stopping fires right at the source, Delta3 creates a safer work environment and vastly reduces the risk of avoidable work accidents. And our innovative design will help you keep productivity high, operating costs low, and maintenance costs to a minimum.

How? Our Delta3 units are self cleaning to minimize maintenance costs and system downtime. They also provide superior air flow compared to traditional spark arrestance systems, which lowers energy costs and maximizes the life of your filters. Delta3 delivers:

- Excellent spark control
- Self-cleaning operation
- Low pressure drop

## Protect your workers and your assets with the Delta3 Spark Arrestance System.



### Fires: An accident waiting to happen

Fires require three main elements in order to ignite or be sustained:

- Fuel Source
- Oxygen
- Heat or Ignition Source

In a Fume Collection system servicing a welding or metal cutting process, these three elements come together when a hot spark makes its way into the collector and comes in contact with a filter cartridge. Fume Collection systems move air at high speed and therefore provide an excellent source of Oxygen, so it is critical to employ a system that effectively kills the sparks (the Ignition source) before they reach the dust particulate (the Fuel).



Delta3 can be in-line duct mounted or collector mounted, depending on your configuration.

### A Breakthrough in Engineering

Delta3 is based on an advanced patent-pending technology that represents a major breakthrough in spark arresstance. RoboVent Engineers used Computational Fluid Dynamics (CFD) to accurately model how embers would respond to different spark arresstor designs. We simulated hundreds of design iterations and put the best ones to test in real-world comparison studies against existing competitive systems.

The result? **Delta3 was the only unit that provided complete, reliable spark arresstance in comparative studies, controlling 99.9% of sparks.**



#### Helpful Hint

Under extensive lab testing, the Delta3 proved to be more effective than leading competitors at preventing sparks from entering the filter cabinet. Visit [www.robovent.com/delta3comparison](http://www.robovent.com/delta3comparison) for a video demonstration.

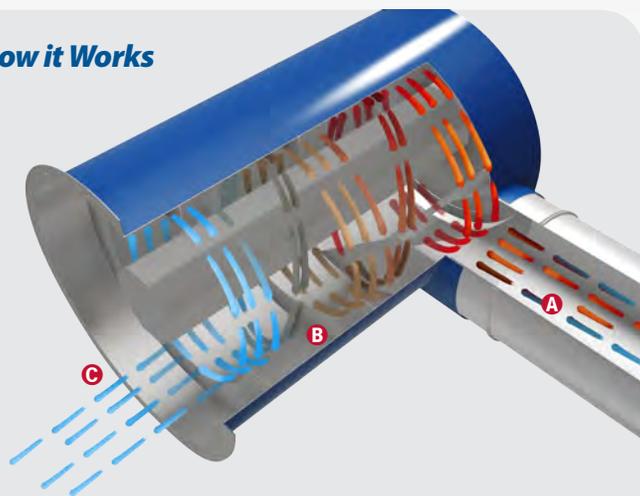
### Delta3 vs. The Competition:

Delta3 stamped out the competition in comparative tests. It's the only technology in our comparative testing that extinguished 99.9% of sparks for welding, grinding and plasma cutting applications.

#### Sparks per Minute

Application	RoboVent DELTA3 SPARKOUT	Competitor 1	Competitor 2	Competitor 3
Welding	0	4	150	1
Plasma Cutting	0	45	1050	5
Grinding	0	180	4760	300

### How it Works



- A** Centrifugal action drives sparks and embers against the outer wall of the device, stripping off the thermal envelope that surrounds them so that they are rapidly cooled and extinguished.
- B** High air velocities are maintained on the surfaces inside the device, eliminating particulate deposits so the unit is constantly cleaning itself.
- C** Internal air turbulence is minimal, which lowers the restriction to airflow. This reduces the energy required for operation and improves filter life.

**It only takes one spark to start a fire. Call us today to find out how Delta3 can help you protect your workers and your plant from preventable fires.**

**Call 888.ROBOVENT today!**

*Manual  
Welding Fume  
Extraction*



*Integrated  
Cooling  
Equipment*



*Robotic  
Welding Fume  
Collection*



*Maintenance  
Programs*



*Oil Mist  
Extraction*



*Full-Plant /  
Ambient Air  
Cleaning Systems*

*Dust Collection  
Systems*



*Mobile Dust  
Collectors*



*Laser & Plasma  
Cutting Fume  
Collection*

*Aftermarket  
Replacement  
Filters*



**RoboVent**<sup>®</sup>

*Improving Lives through Clean Air*<sup>™</sup>

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