

AIVY Compact SPK™



STATE OF THE AIR



AAF[®]
INTERNATIONAL
Bringing clean air to life.®

AIVY™

AIVY™



STATE OF THE AIR is bringing air back to its natural origins. With the power to inspire pioneering, innovation and purity.

The **AIVY™ range** of air filtration solutions has been designed to provide the most **compact, efficient, and durable option** on the market. A cutting-edge range of cartridge dry dust collectors designed to ensure clean and safe air for any industry.

AIVY™ is specifically designed and adapted to your needs by a multidisciplinary, motivated and experienced technical team. People who became experts with a deep understanding of the demands of every industry, as a result of the long-term close collaboration with a variety of companies from different sectors.

We challenge ourselves every day to ensure the **optimization and environmental quality control of your workspaces. Innovating** through the perspective of our **responsibility to both people and the planet.**

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THE SPARK RESISTANT SOLUTION



AIVY Compact SPK™

AIVY Compact SPK™ is a **Plug & Play** dust collector with an integrated spark arrestor, specially **designed to meet metalworking industry needs** on those applications where sparks are generated.

Designed as a compact solution, it integrates all the elements required for an agile, easy installation and start-up, including an integrated fan, electrical panel, dust bin and self-cleaning system. Available in several sizes, it can handle a wide range of flows, **between 600 CFM and 12,000 CFM**, with a smaller footprint than other dust collection systems operating in the same filtration.

AIVY Compact SPK™ incorporates a spark protection component at the inlet of the filtration chamber to reduce risk of hot sparks generated during metal working processes from reaching the filter cartridges.

PERFECT MATCH WITH



Aerospace Industry



Automotive Industry



Metalworking Industry



AIVY Compact SPK™

is

**INNOVATIVE
RESPONSIBLE
EASY
ADAPTABLE**

Industrial Air Quality is above all, our purpose, our promise. We are committed to protecting industrial workers from breathing harmful pollutants and the environment from unnecessary pollution while ensuring maximum efficiency in any industrial sector.

The result is a more productive, more efficient, and a healthier world.

AIVY Compact SPK™
IS THE RESULT OF OUR
PROMISE OF CONSTANT
IMPROVEMENT

INNOVATIVE

An R&D team always striving for more, for better. The **AIVY™** range is bringing exciting innovations to the filtration market.

“Because achieving a better future may be a matter of taking small steps, rather than big leaps.”

**ADDING MORE
SIMPLICITY
IN MAINTENANCE**

New door system

Our R&D efforts to provide the easiest functionality and the fastest maintenance has resulted in a new vertical door system which offers speed and efficiency during cartridge change-out operations, but also the durability and high-level performance an efficient dust collector requires.

With a multi-hole cartridge door designed for 180° opening, filters can be quickly accessed and replaced.

The new design also features multi screw-on and robust hinges ensuring a tight seal and long-term durability.

Simplified maintenance, as a result of designing from the user's perspective.



**IMPROVING
PERFORMANCE**

New filter support system

AIVY Compact SPK™ introduces a new filter support structure that eliminates the need of a mandril to support the cartridges. This new design decreases resistance to clean air passing through the cartridges to reach the clean chamber resulting in a notable improvement in pressure drop reduction*.

The removal of mandrils that internally support cartridges enables an easier and quicker operation during cartridge change out.

Improved performance as a result of our R&D team's quest for constant improvement.

**In comparison to other equipment operating in the same filtration range in the market.*



RESPONSIBLE

WE LIKE TO PRACTICE
WHAT WE CALL
**RESPONSIBLE
INNOVATION.**

The desire to do our bit for both the planet and the people who make it up is the driving force behind this product range. AIVY™ is a range with a purpose and, above all, committed to it.

Introducing

NANOFIBER

Game-changing media

ENHANCED FILTRATION EFFICIENCY

The improved nanofiber outer layer of our REDClean® cartridges marks a turning point in filtration efficiency. An AAF proprietary and patented technology that also ensures greater durability and a decrease in the frequency of cartridge replacement.

In addition, thanks to excellent dust release and lower pressure drop, it enhances the energy reduction of the range.

In short, durability, energy and time savings, but above all the security of having the most innovative and efficient cartridges on the market.



REDClean® Media

REDClean® NFR

Nanofiber high-performance cartridge with a flame-retardant finish to increase safety, slowing down combustion and flame propagation when handling dust with incandescent particles.

REDClean® C

Providing filtration efficient carbon impregnated media, the REDClean® C excels at meeting the needs of pungent, odorous applications

REDClean® M

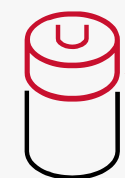
For applications with higher humidity the REDClean® M offers durable filtration with a polyester and fiberglass media blend.

REDClean® M HT

The REDClean® M HT is a high temperature version for difficult applications with operating air temperatures up to 275°F.

REDClean® SA

A high-strength spunbond polyester media made for abrasive and/or high humidity applications together with an anti-static finish for safety with potentially combustible applications.



**SIGNIFICANT
ENERGY SAVINGS**
For a better world

UP TO 20%

AIVY™ features up to 20% reduction in energy consumption.

The innovations applied to the construction system guarantee optimized performance and lower pressure drop, which allows for an increased reduction in the total cost of ownership of the air filtration solution.

EASY

WHEN LESS IS MORE

AIVY Compact SPK™ has been designed to take up as little space as possible, to spend as little time as possible on maintenance and to avoid safety issues affecting your production. In short, offering so much has never taken so little.

 **PLUG & PLAY**

SAVE ON TIME AND HASSLE

The Plug & Play system saves installation time, integrating all the necessary elements for a start-up that requires nothing more than plugging in the equipment. From a built-in dust bin, a self-cleaning system, an integrated fan and electrical panel to a sound reducing enclosure, the AIVY Compact SPK™ is built from the user's perspective.

A modular and compact system to save you time and hassle.

Discover AIVY Compact SPK™ main components that simplify operation and improve efficiency.



01
Enclosed fan
For less noise

Fully-enclosed fan mounted on top of unit helping reduce noise to levels lower than that of external ventilation systems.



02
Compressed air manifold
To ensure performance always at highest levels

Built-in compressed air cleaning system that allows continuous operation for prolonged periods of time, ensuring a constant pressure drop, with an accessible position for simple maintenance.



03
Electrical panel
As easy as switching the on-off button

Compact and pre-wired, making start-up of the fan and the cleaning controller faster and easier. Industrial equipment as intuitive and simple to manage as a domestic lighting.



04
Dust bin
For larger capacity

Offers a larger storage capacity (26 gal) than the average capacity offered by similar units on the market.

Ensuring the high-safety standards required for protecting metalworking industry workers and processes

SPARK ARRESTOR

TO MEET METALWORKING SPECIFIC NEEDS

AIVY Compact SPK™ incorporates a spark protection component at the inlet of the filtration chamber to reduce risk of hot sparks generated during metal working processes from reaching the filter cartridges.



An essential component ensuring:

- + Increased safety for equipment
- + Extra safety for workers
- + Extended lifecycle for cartridges
- + Reduced maintenance cost from longer cartridge life.

The spark arrestor has optional inlets: on the side and at the bottom. Either can be used for equipment connections as well as for inspection.

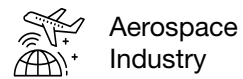
AN AIR FILTRATION RANGE EASILY ADAPTED TO WHATEVER YOUR APPLICATION AND PROCESS REQUIREMENTS ARE.

ADAPTABLE

AIVY Compact SPK™ is simple adaptability. Without resorting to time-consuming projects and deadlines. Without having to look any further.



AIVY COMPACT SPK™ FITS ANY INDUSTRY



Aerospace Industry



Automotive Industry



Metalworking Industry

AND ANY APPLICATION

+ SURFACE TREATMENT:

- Grinding, Cutting, Trimming
- Powder Coating

- Shot Blasting
- Metallizing

+ TERMAL CUTTING:

- Laser Cutting
- Plasma Cutting

CONFIGURE YOUR OWN AIVY COMPACT SPK™

STEP 1 CHOOSE...

A SIZE

No matter the airflow, AIVY Compact SPK™ has you covered through a range that include **5 different equipment sizes** that can house a different number of cartridges depending on the filtration needs



Airflow range: **600 CFM to 12,000 CFM**

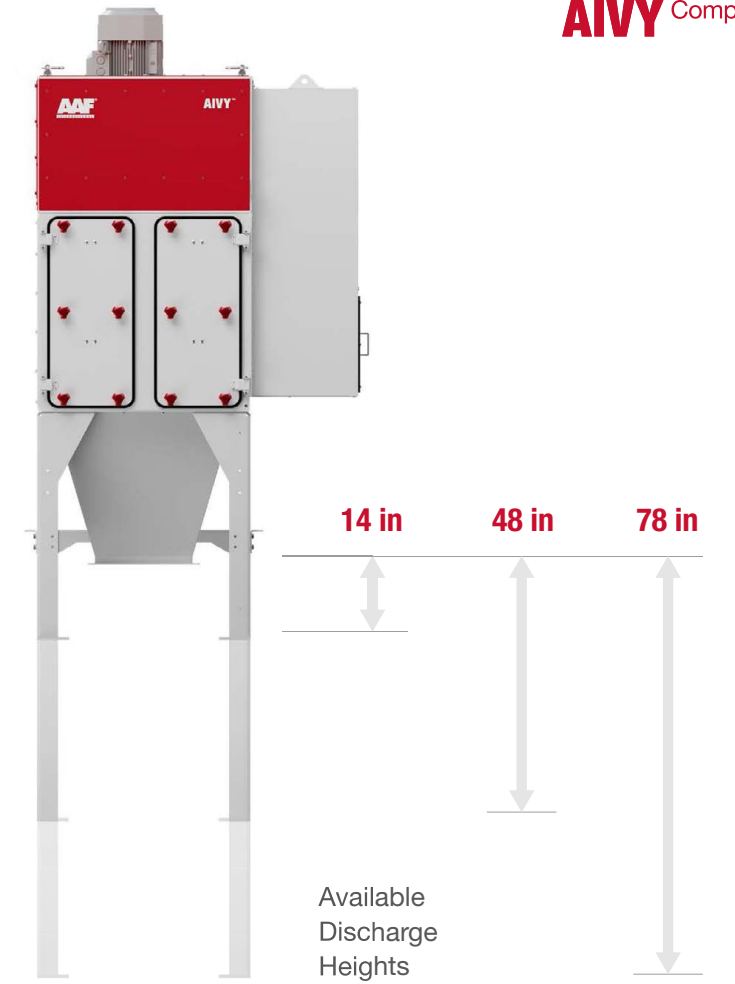


Can house between **4 and 16 cartridges**

ENSURING ADAPTABILITY

A HEIGHT

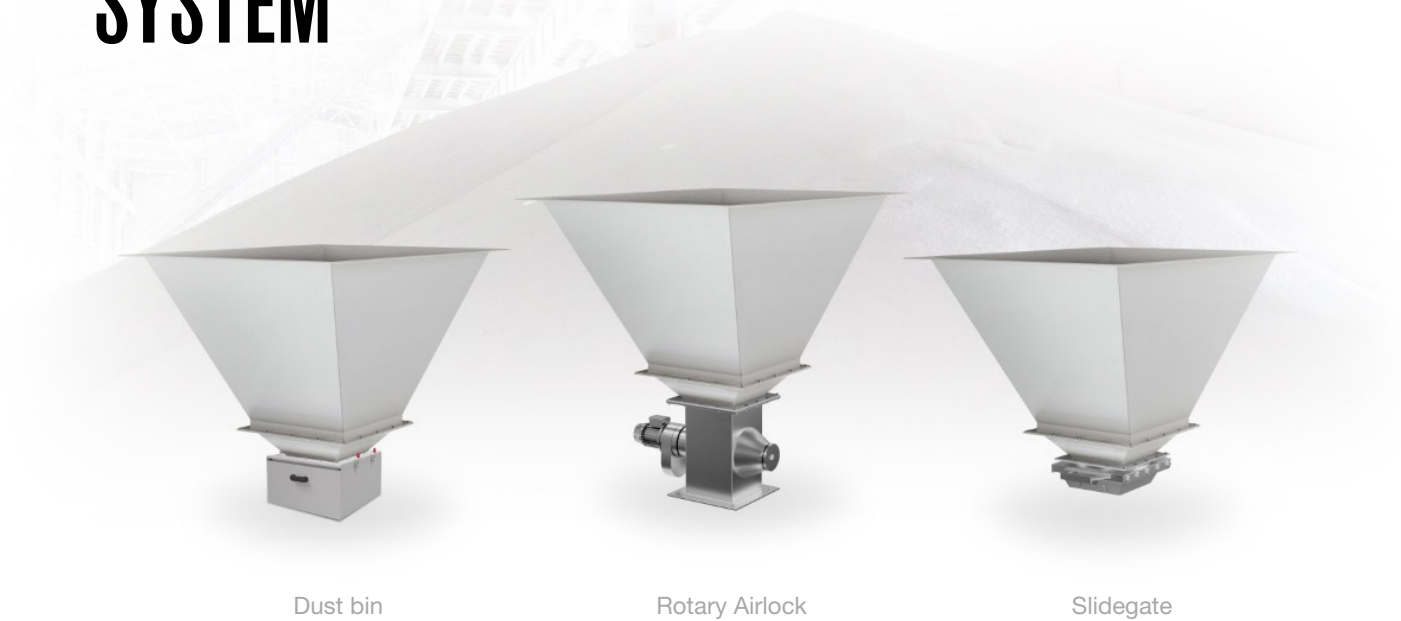
You do not need to adapt your installation, process or existing machinery to integrate with the dust collector. AIVY Compact SPK™ adapts itself to the existing requirements by selecting the structure height that best fits your plant conditions.



Available Discharge Heights

A DISCHARGE SYSTEM

Depending on your installation, application or process performance, you can select the discharge system based on your specific dust management needs.



Dust bin

Rotary Airlock

Slidegate



CONFIGURE YOUR OWN AIVY COMPACT SPK™

STEP 2 ADD OPTIONS...

EXPLOSION PROTECTION OPTIONS

For greater adaptability to the existing process

For applications handling combustible or potentially explosive dust, NFPA compliant venting, isolation and suppression options are available.



AIVY™

OUTLET FLANGE ADAPTERS

For greater adaptability to the existing process

Different adapters are available to meet the requirements of different applications and/or flow rates.

AIR OUTLET CONTROL DAMPER

For greater adaptability to the user's needs

This optional damper allows the air flow to be manually regulated by selecting an open position, a half-open or a closed one.

DUST LEVEL PROBE VALVE

For easier and simplified maintenance

An option of adding a dust level switch on the hopper is available.



Bringing clean air to life.®

A light gray world map is centered in the background of the page. A semi-transparent white rectangular box is overlaid on the map, containing the company name and a paragraph of text.

AAF International

Filtration has been at the heart of our business since 1921 and thanks to the high caliber of our products and services, we are trusted by many of the world's leading power and industrial companies. We provide our customers with the expertise, the solutions and the best available filtration technology to increase operational performance. Bringing clean air to life, our products provide the highest levels of indoor air quality, the lowest environmental emissions and the optimum safety conditions for employees and the wider community.

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