

**PULSEPAK<sup>®</sup> Prime**

**COMPACT &  
POWERFUL**



Bringing clean air to life.®



# PULSEPAK® Prime



## PULSEPAK® Prime

Discover the revolution in dust filtration with the **PulsePak® Prime** – a dust filter unlike any other.

The PulsePak® Prime – the ultimate answer to demanding dust challenges in a wide range of airflows. This cutting-edge dust collector seamlessly combines the efficiency of cartridges with the capacity of bag collectors, setting it apart as a unique and unparalleled solution in the market.

Experience the power of the **ONLY** cartridge collector that combines **DOWNWARD AIRFLOW** and **VERTICAL MEDIA**. The perfect fit, balancing small-scale design with powerful performance.

### PERFECT MATCH WITH



Industrial Minerals



Metalworking



Food & Beverage



Chemical industry

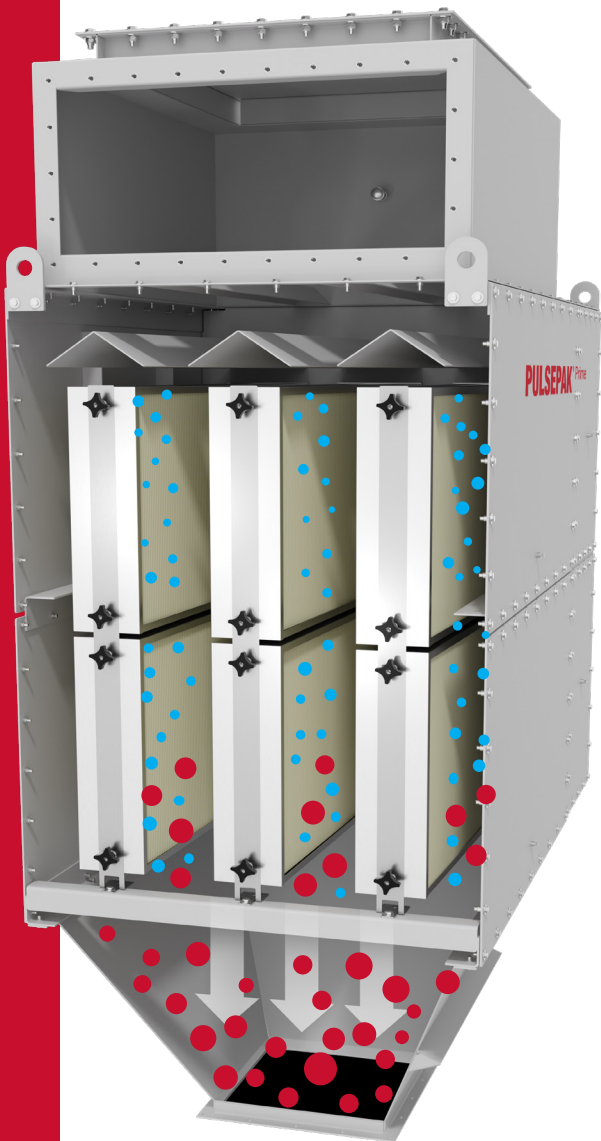
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# SPACE-SAVING PRECISION: Redefining Dust Collection with Unique Design, Unmatched Flexibility.

The PulsePak® Prime is a downflow cartridge collector which utilizes 100% of its media 100% of the time. The PulsePak® Prime incorporates a true downflow design, with an unobstructed pathway for incoming dust-laden air to drop heavy particulate straight into the hopper. Smaller particles are filtered by vertical filter media before being dislodged by the pulse cleaning system and falling directly into the hopper below. This unique design enables the PulsePak® Prime to handle inlet dust loads beyond the capacity of most cartridge collectors and to minimize internal turbulence, resulting in a lower differential pressure compared to competitors. The PulsePak® Prime sets a new standard for performance, where innovation meets unparalleled efficiency.



Small Particles      Large Particles

- Increased filter efficiency
- Lower differential pressure
- Increased efficiency during cleaning cycles

## REDClean® PanelPak Cartridges

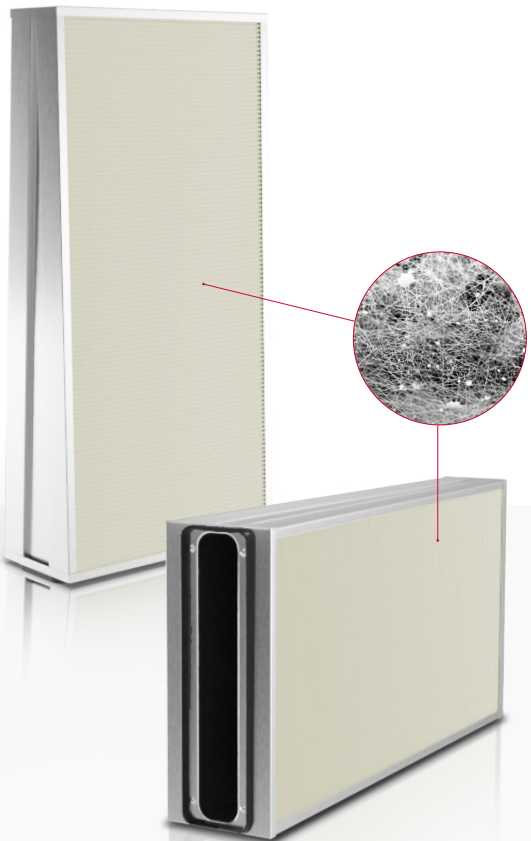
The PulsePak® Prime is equipped with REDClean® Media, offering best-in-class filtration. This unique filter is suitable for most industrial applications and provides high efficiency filtration, minimized energy consumption, and longer filter life, reducing the PulsePak® Prime's total cost of ownership compared to other dust collectors.

Downflow PanelPak filters come standard with 550 square feet of vertically oriented media for higher dust loading capacity and improved dust release for longer life.

### Vertical Filter Media

The PulsePak® Prime's PanelPak cartridges utilize vertically oriented media enabling dust particulate to flow unobstructed to the hopper in a true downflow design.

A single gasket sealing surface enhances filtration efficiency while significantly minimizing the risk of leakage. Additionally, the PulsePak® Prime's PanelPak cartridges are manufactured with consistent open pleat spacing design to ensure full utilization of filter media, to optimize pulse cleaning, and to reduce operating pressure and compressed air consumption.



Low energy consumption

Excellent dust release

Extended service life

Fewer cartridge replacements

## NANOFIBER, THE GAME- CHANGING MEDIA

The outer layer of nano-fiber incorporated onto REDClean® filters prevents fine particles from penetrating into the cartridge media. The particles cake on the outside of the filter until they are easily dislodged by the pulse cleaning system and then fall into the hopper. This creates a more efficient and longer lasting filter, reducing the frequency of cartridge replacements.

AAF International's technology based on the use of nano-fibers is leading the filtration market. AAF continues to relentlessly invest in R&D focused on higher filtration efficiency technologies and has developed a wide range of cartridge filters to meet the most demanding filtration needs in all industries requiring dust collection.

# PULSEPAK® PRIME DELIVERS . . .



01

**LARGE CAPACITY...**

With a standard 60 degree sloped hopper, the PulsePak® Prime is able to handle high dust loads without hopper clogging or bridging.

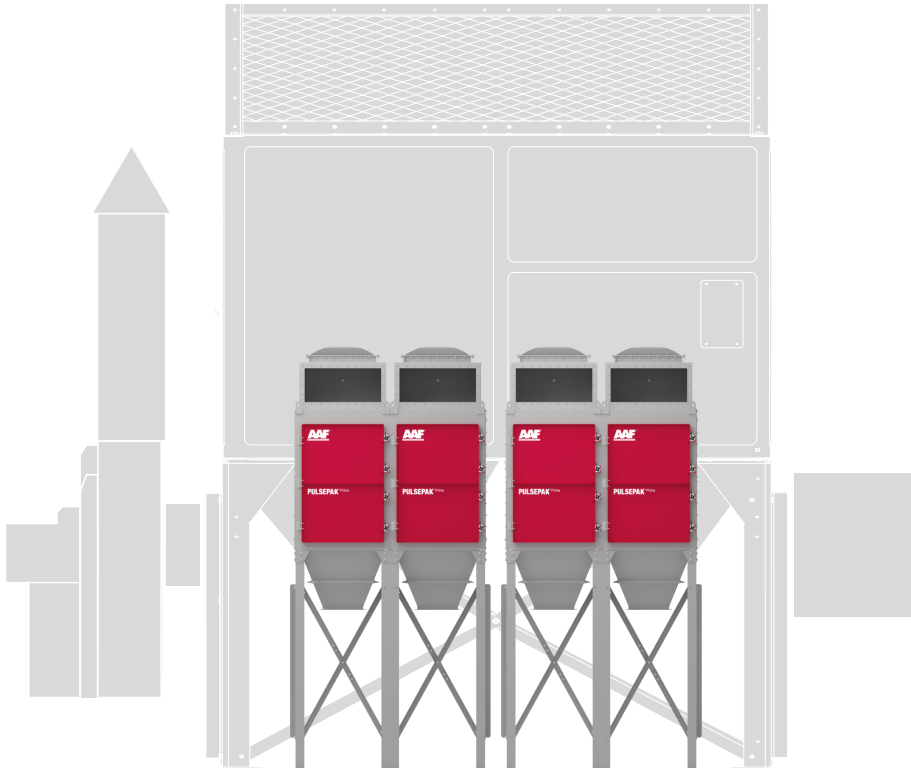
It is suitable for a wide range of air flows (1,000 to 120,000 CFM) for both small and large applications.

02

**IN A SMALLER FOOT-PRINT**

The PulsePak® Prime's compact, flexible design with high dust load capacity enables it to be easily sized and configured to meet a variety of requirements, from small indoor spaces to large airflow applications that require multiple modules.

One PulsePak® Prime filter comes standard with 550 square of media, the same amount of media as sixteen 14 foot long baghouse filters. The PulsePak® Prime provides massive filtration capacity in a smaller footprint.



04

**LESS RELATED COSTS**

The shorter height of PulsePak® Prime modules reduces transport and facility installation costs. Fewer filters and longer filter life also reduce filter replacement costs.

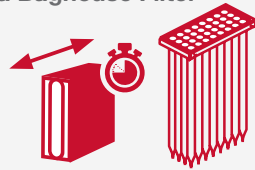
03

**EASIER AND  
FASTER MAINTENANCE**

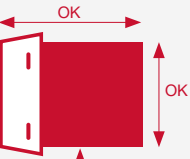


Large hinged access doors allow for minimized inspection and cartridge change-out time since multiple filter cartridges can be externally accessed through one door

**REDClean® PanelPak VS  
a Baghouse Filter**



Decreased filter change out time compared to Baghouses.



No confined space entry requirements.



# EQUIPMENT OVERVIEW



01

**EXPLOSION VENT**

Option available for combustible applications.



02

**CARTRIDGE ACCESS DOOR & DOOR LOCK**

Large doors simplify maintenance, allowing easy access to the filters through a sturdy door lock.



03

**CONSTRUCTION**

Built from 10 gauge and 3/16" steel. Built to last in the most demanding environments.



04

**CARTRIDGE**

Downflow PanelPak filters come standard with 550 square of vertically oriented media for higher dust loading capacity and improved dust release for longer life.



05

**COMPRESSED AIR MANIFOLD**

Easily accessible built-in compressed air cleaning system for simplified maintenance.



06

**DISCHARGE SYSTEM**

Multiple options available to meet any application's needs.

① Slide gate



② Rotary Airlock Valve



③ Screw Conveyor

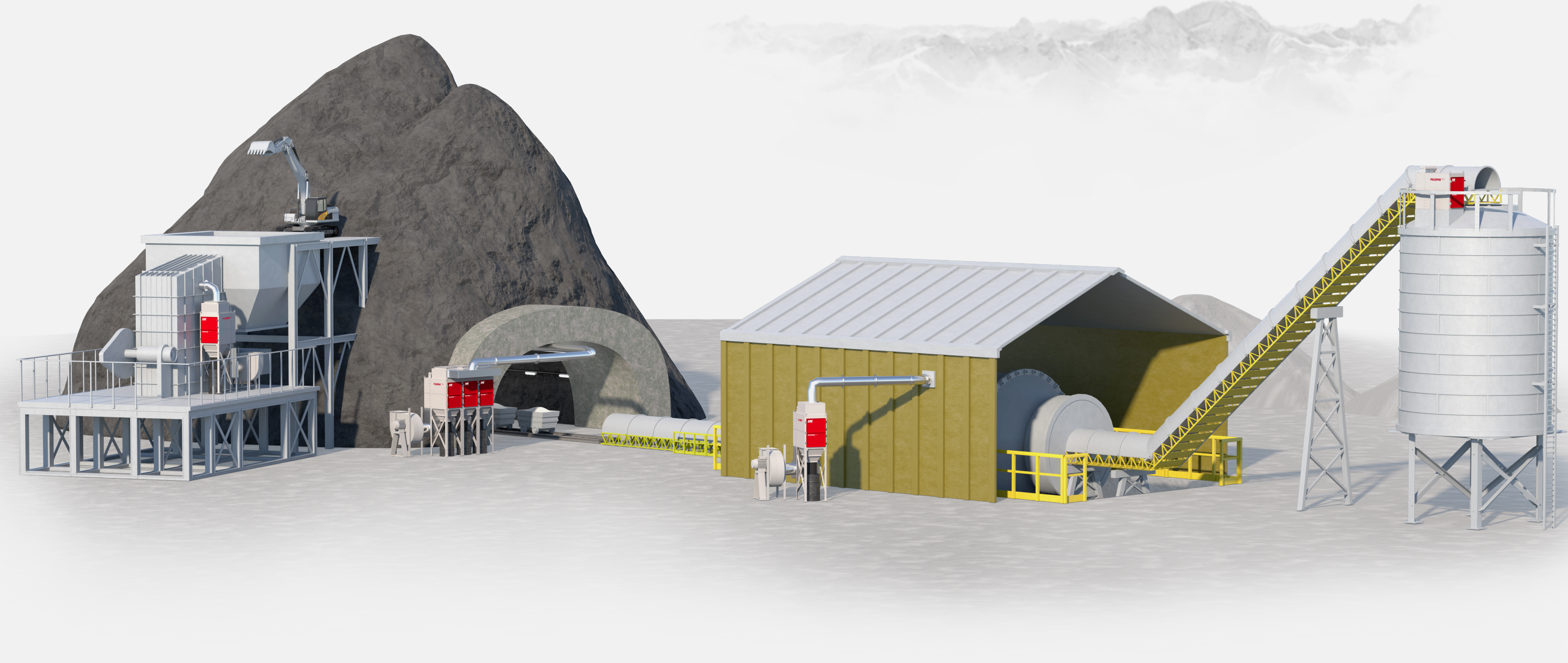


④ Drum










# APPLICATIONS



PULSEPAK® PRIME FITS ANY INDUSTRY

-  Food & Beverage
-  Chemical industry
-  Wood, pulp and paper
-  Industrial Minerals
-  Metalworking

AND ANY APPLICATION

- + BULK MATERIAL HANDLING

  - Conveying
  - Silo Venting
  - Bag Dumping
- + MATERIAL PROCESSING

  - Drying
  - Mixing
  - Granulating
- + METALWORKING

  - Powder Coating
  - Shot Blasting
  - Metalizing
  - Grinding, Cutting, and Trimming



**PULSEPAK<sup>®</sup> Prime**

**COMPACT  
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Bringing clean air to life.®

A light gray world map is centered in the background of the page, showing the continents of North America, South America, Europe, Africa, Asia, and Australia.

## 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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