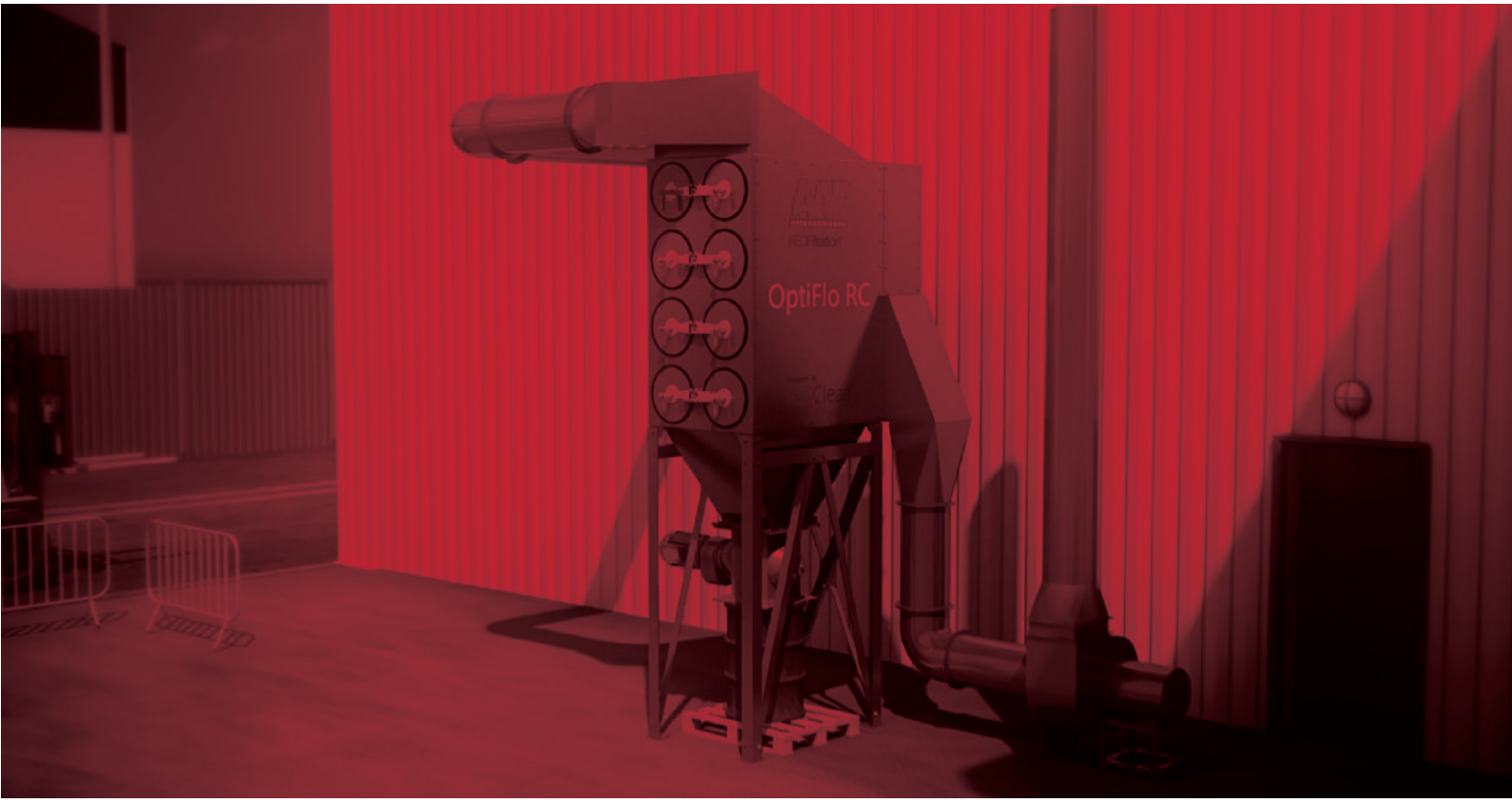
OptiFlo® RC

Pulse-Jet Cylindrical Cartridge Dust Collector

The next generation in dust collection



Powered by
REDClean™ media

AAF INTERNATIONAL®
BETTER AIR IS OUR BUSINESS®

Delivering excellence through innovation & technology

"If you always do what you've always done you'll always get what you've always got"

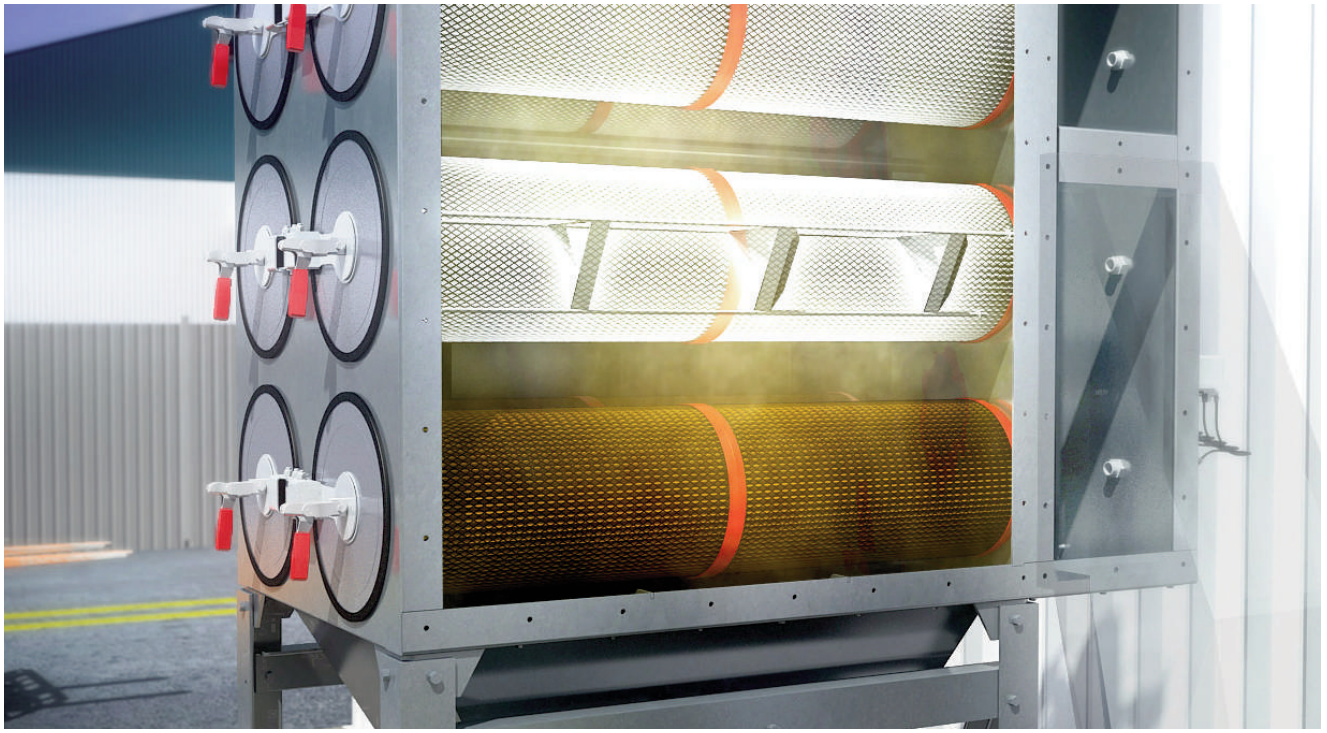
Heritage

For more than 90 years AAF International has been providing filtration solutions for industrial processes around the globe.

Our reputation for providing quality products and innovative solutions dates back to 1921 when a young paint shop entrepreneur pioneered the removal of airborne contaminants to improve the quality of automobile paint finishes.

Throughout our rich history AAF International has pioneered many of the techniques used today to control airborne dust, fume and vapour. With an extensive portfolio of products and solutions, individually tailored to meet the application requirements of our customers, AAF International continues to pioneer industrial air filtration.

Since industry is perpetually advanced by new technology, AAF International today continues to invest thousands of hours in the research and development of new products to embrace the challenge provided by modern industrial processes. Ensuring we deliver the most extensive, cost effective and energy efficient product portfolio available in the market today.

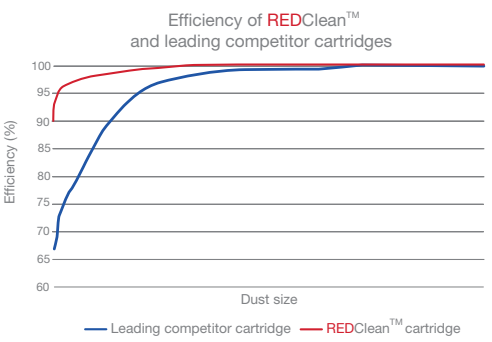


The OptiFlo® RC advantage

The AAF OptiFlo® RC cartridge collector is the optimum solution to a wide variety of in-plant air quality problems. The advantage is simple, through design optimisation and working in synergy with our class-leading REDClean™ cartridges, filtration performance is enhanced and the cost of ownership is reduced.

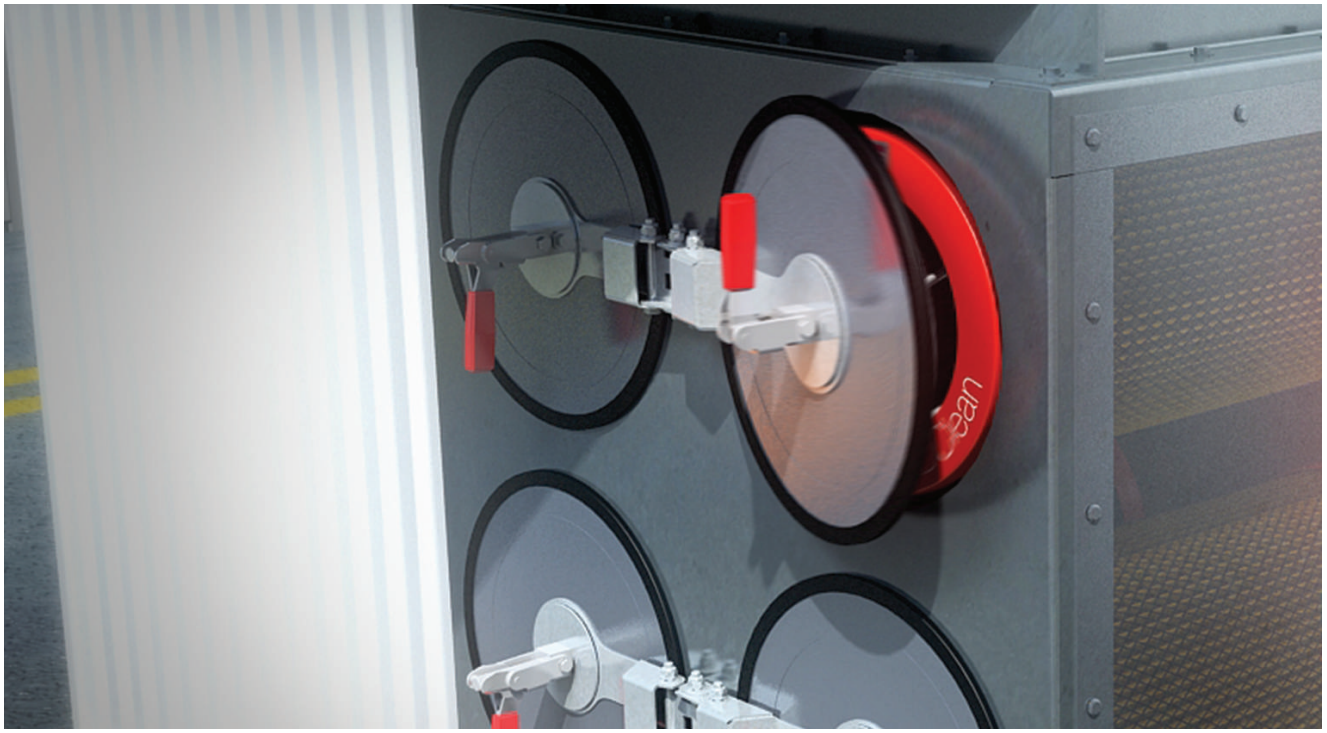
The new active mandrel is a key feature to increase filtration performance, working in conjunction with AAF's REDClean™ cartridges to deliver market-leading filtration performance. The mandrel has strategically placed deflector plates to drive the pulsed compressed airflow through the cartridge media. This maximises the effectiveness of the pulse operation, removing more dust from the REDClean™ cartridge's nanofiber media. The outcome is uniform cleaning on the whole cartridge, this new technology reduces energy consumption and lowers operating costs.

Effective dust removal reduces the number of compressed air pulses; with less strain on the cartridge media the filter has a longer life. Less compressed air usage and longer filter life are the perfect combination to lower the overall cost of ownership.



*Assuming AAF reference conditions

Performance tested to the internationally recognised BSR/ASHRAE 199P-2013

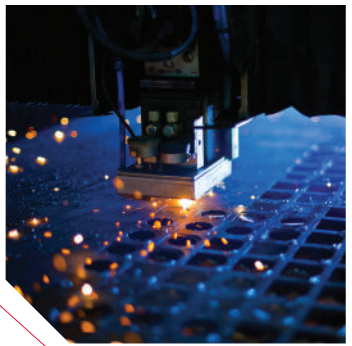


Reducing the cost of ownership

Through extensive research and development the AAF OptiFlo® RC benefits from several design enhancements. These improvements enhance the ease of maintenance, whilst reducing downtime and the overall cost of ownership.

The new innovative OptiFlo® RC utilises self-aligning quick release doors to reduce downtime and maintenance; ensuring cartridge change-out is safe, quick and easy. The independent doors have a double hinge ensuring a tight seal when the doors are locked. In the shut position the locking mechanism engages with the active mandrel to increase stability during operation. When the doors are opened they require no manual support, allowing cartridge change-out to be completed with ease.

The AAF OptiFlo® and REDClean™ cartridge range have been specifically developed to push back the boundaries of traditional cartridge dust collection to reduce the overall cost of environmental investment for the operator.



A winning balance of innovation, enhanced filtration and lower operating costs.

Better by design

The AAF OptiFlo® and REDClean™ combination is designed to maximise filtration efficiency, extend filtration life, reduce operational pressure drop and lower compressed air consumption. This results in a substantial reduction to the operator's overall life cycle cost, maximising return on investment and reducing the cost of plant ownership.

Features and benefits

- Minimum life cycle cost
- Low power consumption
- Compact modular design
- Ease of maintenance
- Reduced emissions
- Legislation compliance
- Continuous performance monitoring
- Quick and easy installation

Typical applications

Industrial processes

- Plastic & rubber (moulding & grinding)
- Rock & related products
- Coal dust
- Paint pigments
- Pesticides & fertiliser
- Powder paint
- Inorganic chemicals
- Tobacco

Food processing

- Cereals
- Confectionery
- Flour & mixes
- Dog & cat food
- Seasonings & additives
- Dairy
- Starch

Metalworking

- Abrasive cleaning sandblasting
- Grinding/polishing
- Laser cutting
- Metallising/thermal spray (Arc, plasma & flame spray, HVOF)
- Weld fume
- Battery manufacturing

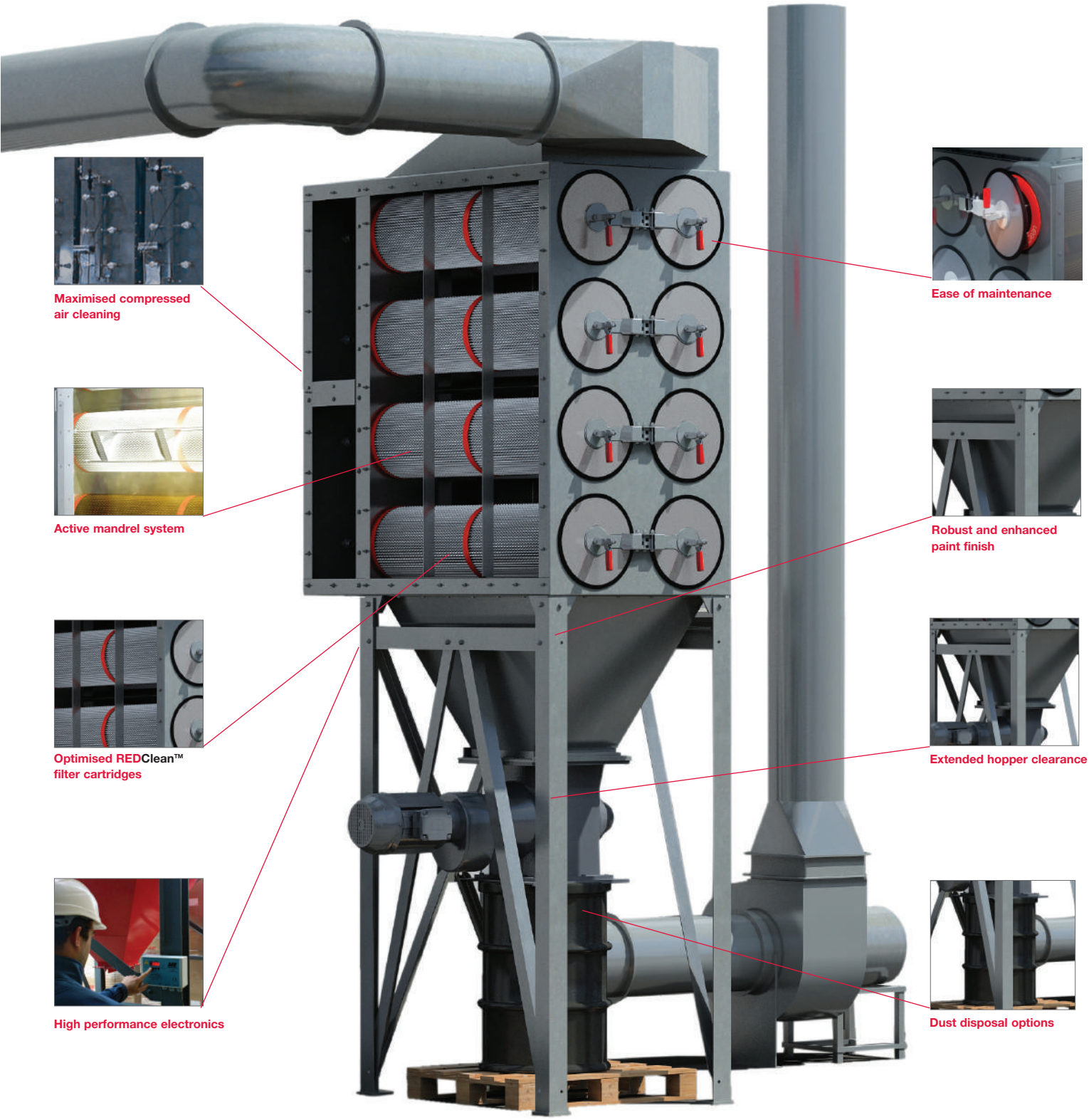
Pharmaceutical

- Tablet coating
- Tablet presses
- Material handling
- Packaging

Woodworking

- Furniture manufacturing
- Cabinetry

Please speak to your AAF representative if you have a specific application requirement.



Maximised compressed air cleaning

Active mandrel system

Optimised REDClean™ filter cartridges

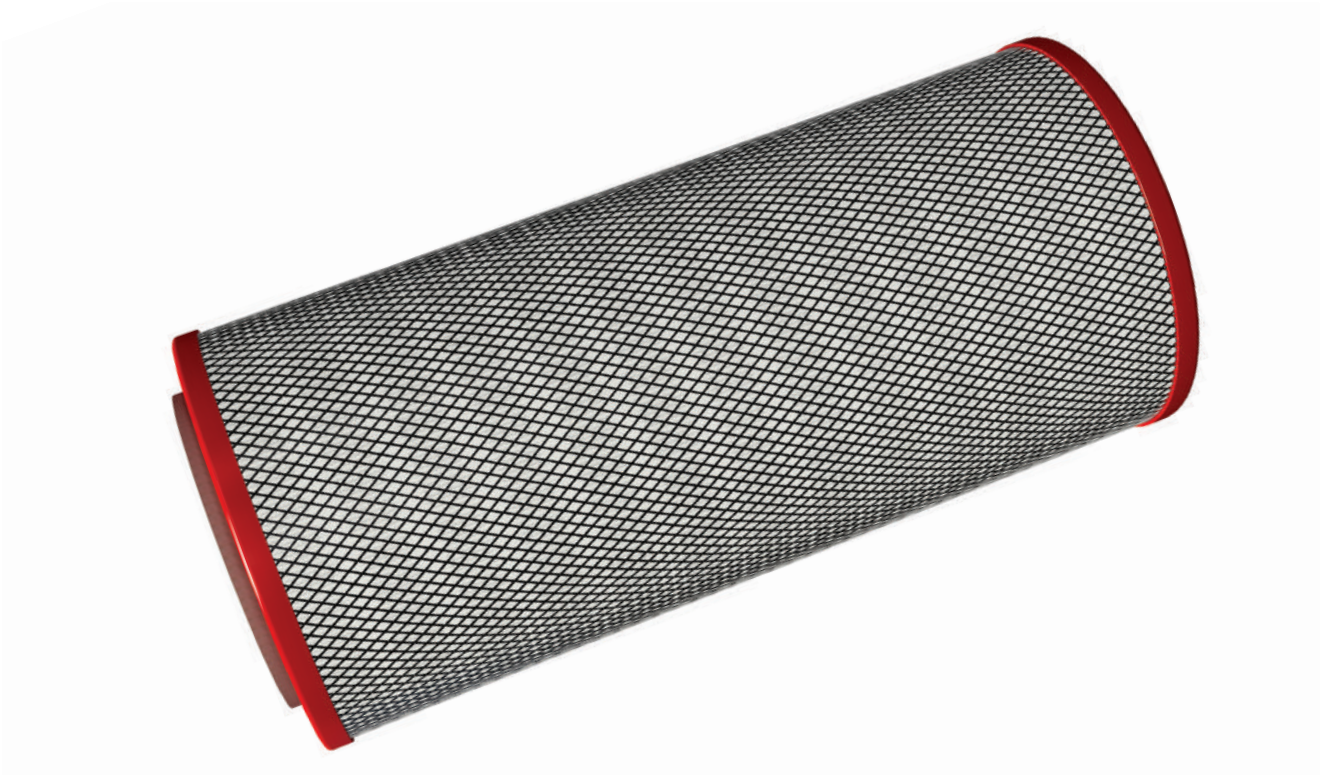
High performance electronics

Ease of maintenance

Robust and enhanced paint finish

Extended hopper clearance

Dust disposal options



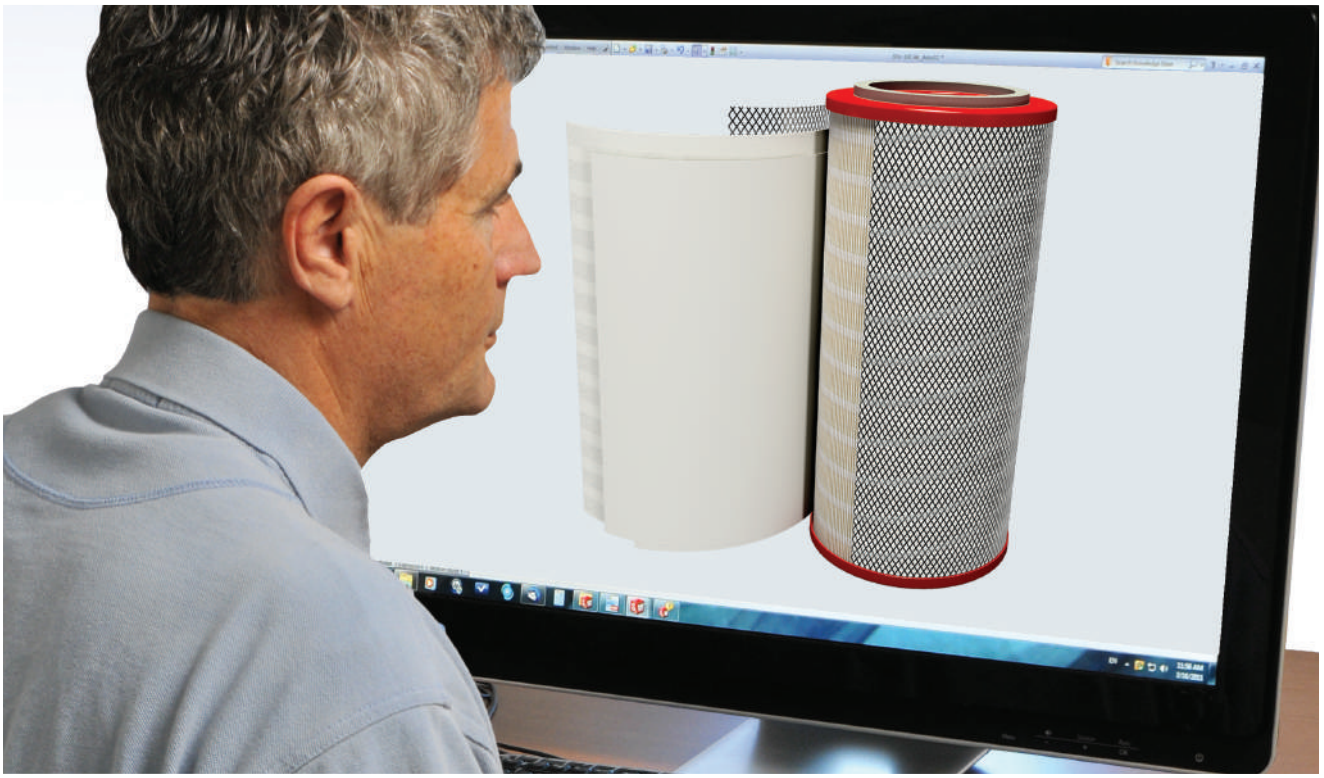
The value of REDClean™

AAF cartridge technology allows operators to realise substantial cost savings in their total plant ownership by reducing power consumption, enhancing efficiency and extending the time between change-outs even in the most difficult industries and applications:

- Increased efficiency - MERV 15 & F9 EN779 (2002)
- Increased filter life - 50% increase compared to leading competitor
- Reduced compressed air costs - less pulse cleaning required
- Lower stable operating pressure - reducing the cost of operation
- Lower cost of ownership - reducing the cost of providing clean air

REDClean™ has been specifically developed to withstand the rigours of pulse cleaning with superior dust release. This reduction enhances filter life and reduces the cost of ownership. In trials REDClean™ outperforms all standard media, including the leading competitor. Switching to REDClean™ cartridges is the quick and easy way for operators to maximise savings and improve their bottom line.

Understanding the science of filtration performance.

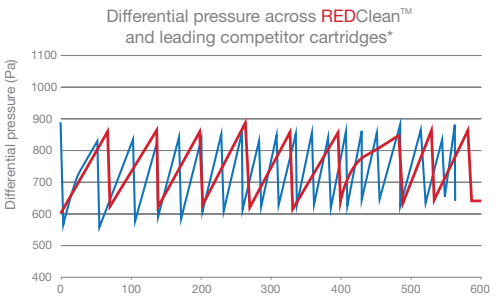


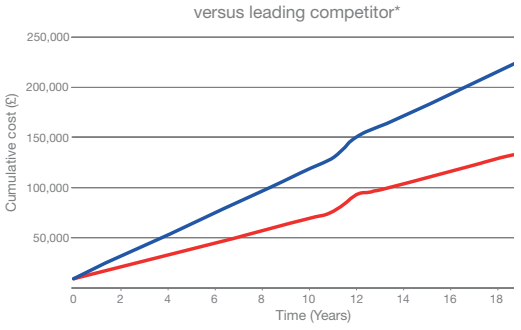
Engineered to save you money

AAF understands the importance of maximising return on investment and through extensive research and development is able to correlate functionality versus cost.

AAF product designs are focused on life cycle cost so that operators are able to easily quantify the total cost of plant ownership, to fully appreciate and evaluate product performance against known criteria. Through our advanced research and development programme we are able to quantify levels of improvement achieved.

Switching to REDClean™ cartridges has been proved during tests to increase filter life by up to 50% compared to the leading competitor. This is due to customised advanced nanofiber technology, creating a very fine mesh in front of the natural and synthetic fibres. The spacing between the nanofibers captures the particles on the surface of the filter media. This surface loading increases dust release properties that reduce the frequency of pulse cleaning. An additional benefit of this performance improvement is a reduction of 50% in the quantity of compressed air used, while enhanced filtration performance and efficiency are maintained.



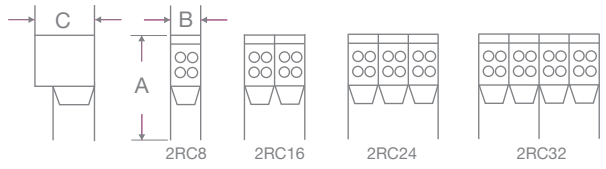


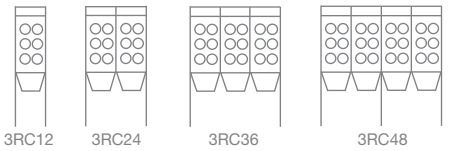
*Assuming AAF reference conditions

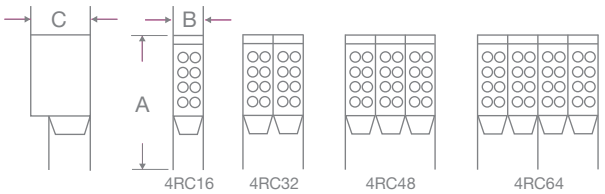
Dimensions and specifications

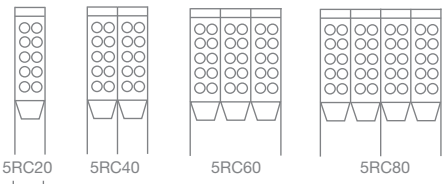
The compact modular design of the AAF OptiFlo® RC makes it ideally suited for the modern workplace, offering total flexibility for the variable nature of global demand.

Typical configurations









Size	Dimensions A	B	C	Qty of Valves	Qty of Hoppers to No of Inlets		Weight
	mm	mm	mm		Hoppers	Inlets	KG
2RC4	3169	896	2155	4	1	1	754
2RC8	3169	896	2155	4	1	1	800
2RC16	3169	1913	2155	8	2	1	1164
2RC24	3169	2929	2155	12	3	2	1546
2RC32	3169	3944	2155	16	4	1	2072
2RC40	3169	4960	2155	20	5	2	2710
3RC6	3639	896	2155	6	1	1	907
3RC12	3169	896	2155	6	1	1	954
3RC24	3169	1913	2155	12	2	1	1417
3RC36	3169	2929	2155	18	3	1	1908
3RC48	3169	3944	2155	24	4	1	2535
3RC60	3169	4960	2155	30	5	2	3325
3RC72	3169	5975	2155	36	6	2	3952
4RC16	4109	896	2155	8	1	1	1067
4RC32	4109	1913	2155	16	2	1	1671
4RC48	4109	2929	2155	24	3	1	2253
4RC64	4109	3944	2155	32	4	1	2978
4RC80	4109	4960	2155	40	5	2	3924
4RC96	4109	5975	2155	48	6	2	4649
4RC112	4109	6991	2155	56	7	3	5231
4RC128	4109	8006	2155	64	8	3	5956
5RC20	4579	896	2155	10	1	1	1234
5RC40	4579	1913	2155	20	2	1	2581
5RC60	4579	2929	2155	30	3	2	3846
5RC80	4579	3944	2155	40	4	1	5141
5RC100	4579	4960	2155	50	5	2	6427
5RC120	4579	5975	2155	60	6	2	7722
5RC140	4579	6991	2155	70	7	3	8987
5RC160	4579	8006	2155	80	8	3	10282
5RC180	4579	9022	2155	90	9	3	11516

Filter specification form

At AAF we are able to offer our class-leading OptiFlo® RC into virtually any application provided we understand the operational and dimensional constraints associated with your process.

Name			
Company			
Telephone no.			
Email			
Industry			
Application		**Max plan area**	
Type of dust		**Max height**	
Volume/Flow		**Explosive dust**	YES / NO
Temperature		**Classification**	

Scope of supply

Housing material			**Explosion vents**	YES / NO
Inlet configuration	TOP	FRONT	**Hopper outlet transition**	YES / NO
Filter cartridge			**Dust disposal**	
Hopper angle			**Abrasion resistant inlet**	YES / NO
Hopper clearance			**Platform and ladder**	YES / NO
Bag in/Bag out	YES	NO	**Comp. air filters/reg.**	YES / NO
Pulse valve silencers	YES	NO	**Fan**	YES / NO
Pulse control	YES	NO	**Ext. pressure for fan**	
Pressure gauge	YES	NO	**Fan location**	
Sprinkler connections	YES	NO	**Fan outlet silencer**	YES / NO
Paint finish				

BETTER AIR IS OUR BUSINESS®

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