



REDClean™

Cartridge Filtration with Enhanced Performance
and Exceptional Filtration Efficiency



POWERED BY
REDClean™ Technology



BETTER AIR IS OUR BUSINESS®



REDFiltration™

Reliable Efficient Durable™

Reliable **E**fficient **D**urable™

AAF®
INTERNATIONAL
REDFiltration™



Heritage of Environmental Solutions

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

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 vapor in virtually every production process. Our constant passion for innovation solutions has led us to offer the most reliable, efficient and durable products available on the market today.

AAF International, a member of DAIKIN Group, also believes in valuing our people, communities and environment. Our ISO 9001 certified facilities utilize LEAN GREEN technologies to deliver products with short lead times and the least environmental impact. Our people centered management philosophy enables us to deliver the best customer service and also give back to the communities in which we serve and live.



Trust the Power of **RED**



Engineered to Save You Money

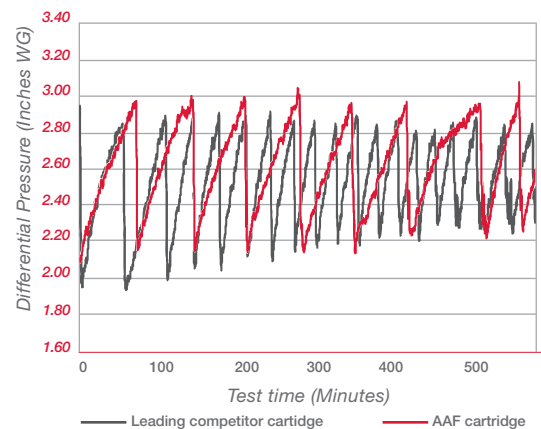
Understanding the Science of Filtration Performance

Since every operator understands the importance of return on their investment, AAF is able to correlate functionality versus cost.

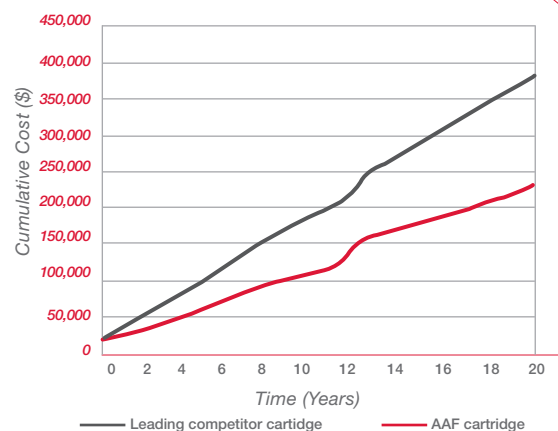
AAF product designs are focused on life cycle cost so operators are able to easily quantify the total cost of plant ownership to fully appreciate and evaluate product performance against known criteria. Through our extensive research and development program, we are able to quantify the improvement versus alternate suppliers. Switching to AAF's range of cartridges allows customers to maximize customer investment and value for money.

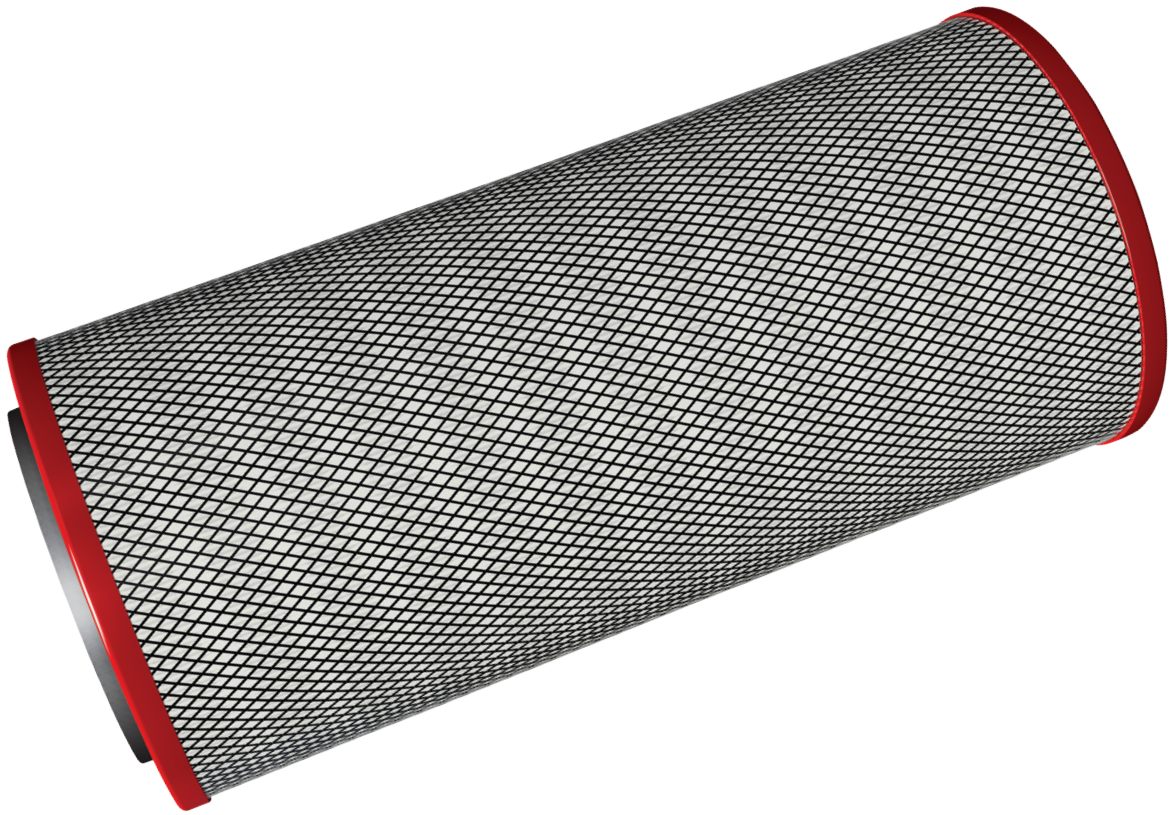
Testing has proven that switching from competitive medias to AAF REDClean™ will result in more than double filter life, while at the same time halving compressed air usage and reducing operational pressure drop to deliver maximum filtration performance.

Differential Pressure Across AAF and Leading Competitor Cartridges



Typical Operating Costs of a 4RC16 OptiFlo® with AAF Cartridges and the Leading Competitor's Cartridges





The REDClean™ Value

Leading Edge Media Technology from the Air Filtration Pioneers

AAF cartridge technology allows operators to realize 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.

Benefits

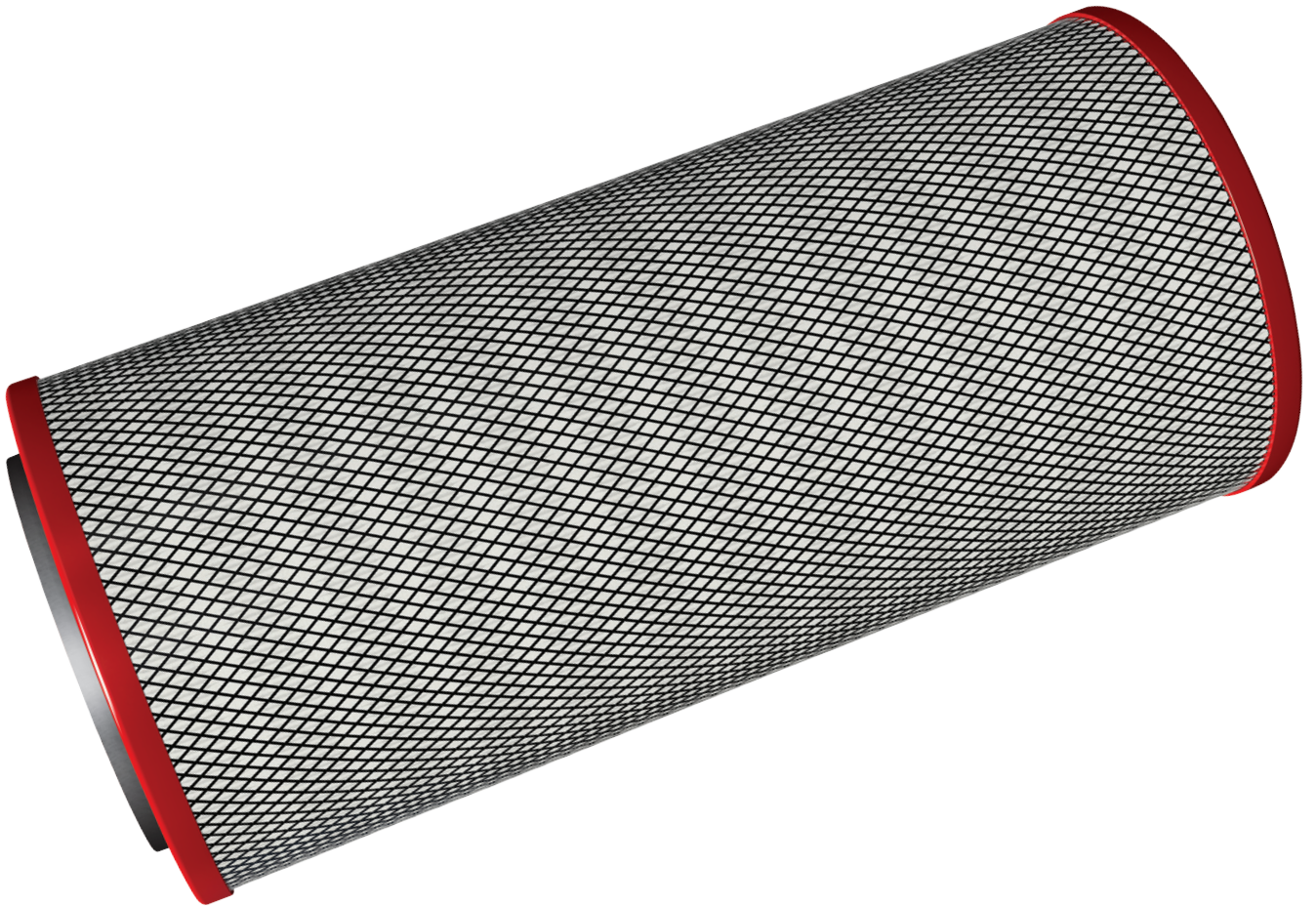
- Increased efficiency MERV 15 & F9 EN 779
- Increased life – lasting more than double the life of standard media
- Reduced compressed air usage – resulting in reduced cleaning and longer cartridge life
- Lower stable operating pressure – reducing the cost of operation
- Lower total cost of ownership – reducing the cost of providing clean air

The AAF REDClean™ media has been specifically developed to withstand the rigors of pulse cleaning with superior dust release, and in trials, outperforms all standard media. When the REDClean™ media is then packaged into an AAF optimized filter cartridge, the operational life can more than double for most applications, making switching to REDClean™ the quick and simplest way for operators to maximize savings and improve their bottom line.



Better by Design

With an extensive list of references spanning more than 90 years, AAF International has tackled some of the most difficult applications in almost every industrial sector. From wet, sticky, oil-laden air to hygroscopic and explosive dusts, AAF International has products and solutions to complement your operation.



More than Just a Filter

AAF's extensive development program has allowed us to perfect our filter construction, combining advanced substrates with our range of special medias and coatings, to create an unbeatable blend of high performance filtration and strength.

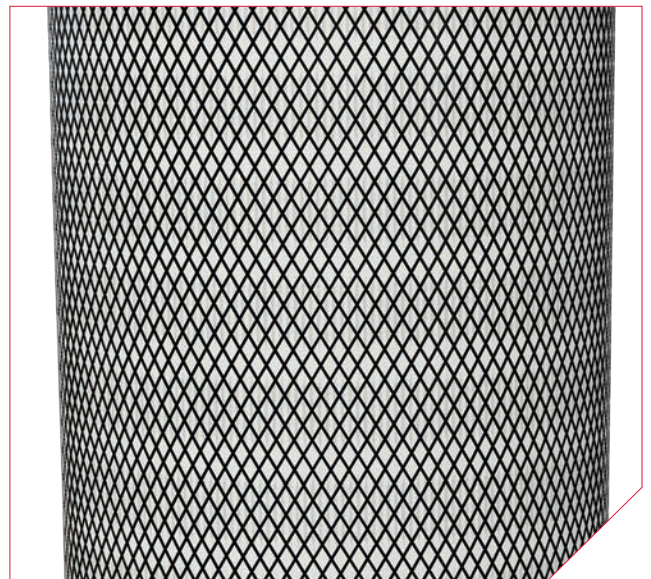
End Caps

Traditional open-ended cartridges can be supplied in a variety of materials and finishes from galvanized and powder coated steel to plastic. AAF is also able to offer a variety of end cap designs to suit the majority of original manufacturers' equipment, including trays, lugs and twist locks.



Linings and Banding

The strength of any cartridge comes from its carefully engineered construction. At AAF, we maximize the strength of the canister through carefully designed mesh and banding engineered to be unobtrusive to the cartridge's filtration performance and dust release.



Media

The correct choice of media is critical in the design of any filtration system. AAF's media section and packaging are designed to extend filtration life while reducing operational pressure drop, change frequency, and most importantly, operational costs. Through extensive research and development, AAF has developed a range of media suitable for the most arduous applications, supplemented with our nanofiber technology to deliver class-leading performance when measured against other commercially available media selections.



REDClean™ N

A high performance grade constructed of a proprietary blend of high strength synthetic reinforced base media with a nanofiber outer layer. The REDClean™ media offers superior performance, increased efficiency and longer life, reducing customers' total cost of ownership.



REDClean™ NFR

A high performance grade constructed of a proprietary blend of high strength synthetic reinforced base media with a nanofiber outer layer and flame retardant finish. The REDClean™ media offers superior performance, increased efficiency and longer life, reducing customers' total cost of ownership.



REDClean™ D

A commercial grade constructed of a proprietary blend of high strength synthetic reinforced base media. Suitable for general low dust efficiency challenges.

Features & Benefits		REDClean™ N	REDClean™ NFR	REDClean™ D
Media Type	Substrate	Synthetic/Cellulose Blend	Synthetic/Cellulose Blend	Synthetic/Cellulose Blend
	Dust Release	Surface Loading	Surface Loading	Depth Loading
	Nanofiber	Yes	Yes	No
Typical Life		16-24 Months	16-24 Months	8-12 Months
Maximum Operating Temp	F° (C)°	180° (80)°	180° (80)°	180° (80)°
Initial Resistance		Excellent	Excellent	Good
Abrasion Resistance		Good	Good	Good
Efficiency Classification	MERV	15	15	11
	EN779	F9	F9	F6
Humidity Resistance		Fair	Fair	Fair
Chemical Resistance		Fair	Fair	Fair
Flame Retardant		No	Yes	No

*Based upon AAF recommended test conditions Other media available for specialist applications



REDClean™ DFR

A commercial grade constructed of a proprietary blend of high strength synthetic reinforced base media with a flame retardant finish. Suitable for general low dust efficiency challenges.



REDClean™ S

A blend of 100% synthetic fibers proving a media which offers exceptional resistance to abrasion, temperature and humidity.



REDClean™ SA

A high performance grade constructed of a proprietary blend of high strength synthetic reinforced base media with an antistatic finish for explosive applications.



REDClean™ M

Washable, proprietary blend of synthetic filters. Excellent resistance to humidity.

REDClean™ DFR	REDClean™ S	REDClean™ SA	REDClean™ M
Synthetic/Cellulose Blend	100% Synthetic	Synthetic	Synthetic
Depth Loading	Depth Loading	Depth Loading	Depth Loading
No	No	No	No
8-12 Months	8-12 Months	8-12 Months	8-12 Months
180° (80)°	270° (130)°	270° (130)°	275°
Good	Good	Good	Good
Good	Excellent	Excellent	Good
11	11	11	11
F6	F6	F6	F6
Fair	Tolerant	Tolerant	Excellent
Fair	Excellent	Excellent	Excellent
Yes	No	No	No

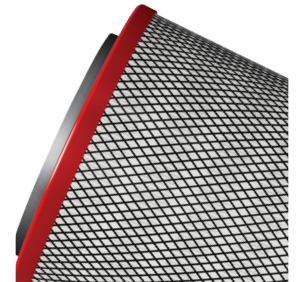
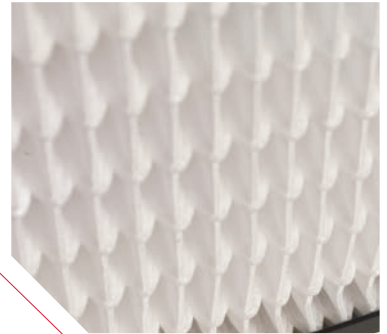
Adhesives and Gaskets

Adhesives

Unlike more traditional static filters, the cartridges used in reverse pulse cleaned cartridge collectors are required to be more robust to withstand the stresses from the pulse cleaning operation through the full life cycle of the product. Only AAF selects adhesives and potting compounds specifically designed to withstand the rigors of the pulse cleaning operation.

Gaskets

Any cartridge or filtration product is only as good as its effective sealing technology. As many maintenance managers understand, an incorrectly designed simple gasket can result in substantial losses in production, high emissions and penalties. Through extensive trials, AAF has optimized gasket performance to ensure filtration performance is not impaired by inadequate gasket shape molding and splice design.



Coatings and Treatments

Simple cellulose/synthetic blended media will only achieve a basic level of filtration efficiency for standard applications. To ensure optimum plant performance and minimum operational life cycle cost, AAF has developed a range of class-leading products based upon our proven nanofiber technology, supplemented for more specialist applications with our range of coatings and treatments.

Antistatic **For explosive applications**

Hydrophobic **For high humidity**

PTFE **For Ultra filtration performance**

Whatever the application, AAF has a cartridge to match your requirements.



Media Selection

At AAF, we understand that every application is different, and while many medias look similar, their performance can vary significantly. Only through the micro examination of any original cartridge can substandard media selections be identified that will ultimately result in the premature failure of a filter leading to unscheduled downtime and cost to the operator.

The knowledgeable engineer, however, understands that to ensure filtration performance and longevity of life, only a high performing media should be chosen, supported by selection knowledge gained through industry, application and operating experience. Any dust collector is only as good as its filtration medium.

As one of the largest suppliers of cartridge collectors in the world today, AAF has years of experience in selecting products based upon applications operating knowledge and provides a general guide on media selections as detailed in the table. We would, however, always recommend contacting your local representative for optimum product selection to suit your exact application requirements.



Media selection

INDUSTRY	MARKET	REDClean™ DFR	REDClean™ NFR	REDClean™ S	REDClean™ SA
Industrial Minerals	Formica	●	●		●
	Rockwool/Insulation	●	●	●	
	Solar Panels	●	●		
	Cement/Lime/Gypsum	●	●	●	
	Glass	●	●	●	
	Asphalt	●	●		
	Concrete	●	●	●	
	Quarry	●	●		
	Mining	●	●		●
	Pottery/Ceramics	●	●	●	
	Tiles/Porcelain/Bricks	●	●	●	
Primary Metals	Coke Ovens				●
	Ferrous/Non-Ferrous	●		●	
	Ferro Alloys	●		●	
	Foundry	●	●	●	
	Galvanizing		●		
Metalworking	Powder Coating				●
	Shot Blasting		●	●	
	Plasma/Laser Cutting			●	●
	Welding		●	●	
	Flame Spray			●	●
	Grinding		●	●	
	Buffing		●	●	
Paper Industry					●
Woodworking					●
Food & Beverage	Production/Farms				●
	Collection/Transfer				●
	Processing				●
Chemicals	Fertilizer	●	●	●	●
	Pharmaceutical	●	●	●	●
	Cosmetics	●		●	●
	Battery	●	●	●	●
	Petrochemical				●
	Refinery	●	●	●	●
	Tires/Rubber	●		●	●
	Plastic	●	●	●	●
	Semi-Conductors	●		●	●
	Specialist Chemicals	●	●	●	●
	Detergents	●	●	●	●
	Paint/Coatings/Pigments	●	●	●	●
	Pesticides				●



Assembly

While many companies can pleat media and produce standard cartridges, very few understand the technology of pleating and the importance of assembly to overall filtration performance.

Through our extensive research into pleat optimization, AAF has been able to quantify significant improvements to our range of cartridges.

Any cartridge is only as good as the assembly of its individual components, and through consistent, repeatable assembly through our ISO certified production facilities, AAF is able to guarantee performance.



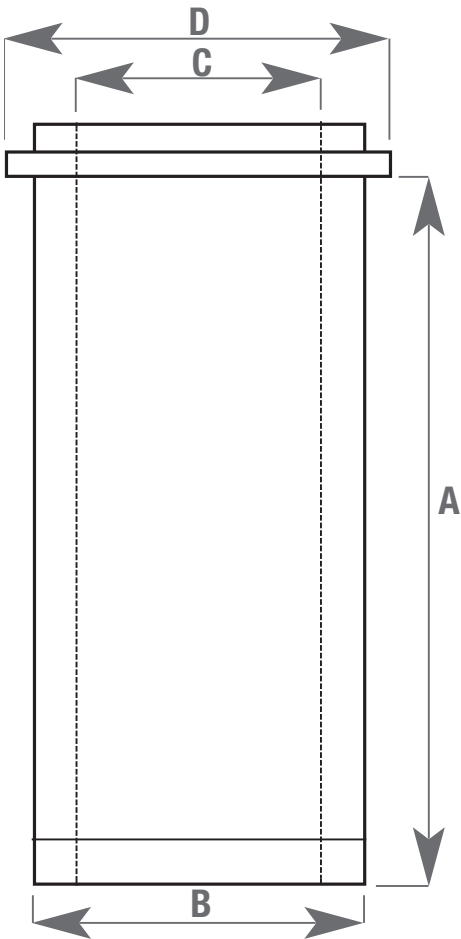
Filter Specification Form

At AAF, we are able to package our class-leading media into virtually any cartridge configuration, provided we understand the dimensional constraints associated with your cartridge collector.

Original Equipment Type	Size
Industry	Application
Number of Cartridges	

Dimensions

A. Overall Length in. (Not Incl. Gasket)	B. Outside Diameter in.
C. Inside Diameter in.	D. Top Flange Diameter in.



End Cap Style

☐ Single
 ☐ Double
 ☐ Open Ended

Gasket Size in.

_____ x _____ x _____ OD

Materials

Center Core
Top Cap
Bottom End Cap
Outer Support
Gasket

Media

Overall Surface Area
Number of Pleats
Pleat Depth

Quality, expertise and innovation

Sales Offices:

Europe, Middle East & Africa

AAF Ltd

Bassington Lane, Cramlington
Northumberland, NE23 8AF UK
Tel: +44 1670 713 477
Email: apc@aafgb.com

AAF, S.A.

C/ Urarte, 11
Polígono Ali-Gobeo
01010 Vitoria, Spain
Tel: +34 945 214851
Email: info@aaf.es

AAF France

Rue William Dian
B.P.3
27620 Gasny, France
Tel: +33 2 32 53 60 60
Email: apc@aaf-sa.fr

AAF Sri

Via Lario, 1
22070 – Fenegrò (CO), Italy
Tel: +39 031 35 25 311
Email: informazioni@aaf-europe.com

AAF Luftreinigungssysteme

Gesmbi-i

Campus 21
Europaring F12 401
2345 Brunn am Gebirge, Austria
Tel: +43 (0) 2236 677 628 0
Email: Info.Austria@aafeurope.com

AAF International B.V.

Sales Benelux
P.O. Box 101
7800 AC EMMEN, The Netherlands
Tel: +31 (0)591 66 4466
Email: aaf.verkoop@aafeurope.com

AAF – Lufttechnik Gmbh-i

Centroalle 263 b
D 46047
Oberhausen, Germany
Tel: +49 208 828423 0
Email: sales.germany@aafeurope.com

AAF – Environmental Control Epe

1, Ifaistou & Kikladon
15354- Glika Nera, Greece
Tel: +30 2106632015
Email: Greece@aafeurope.com

AAF Hava Filtreleri ve Ticaret AS

Hürriyet Mahallesi
Yakacık D-100 Kuzey Yan Yol No: 49/1-2
34876 Kartal, Istanbul, Turkey
Tel: +90 216 4495164/65
Email: ali.alp@aafeurope.com

AAF International – Middle East

FZS1BC01-BC04, Jebel Ali Dubai, UAE
Tel: 009714 8894886
Email: info@aaf-ae.com

AAF Saudi Arabia Ltd.

P.O. Box 59336 Riyadh 11525,
Kingdom of Saudi Arabia
Tel: +966 1 265 0883
Email: info@aaf-ae.com

Asia

America Air Filter Manufacturing Sdn Bhd

(Asia Regional Office)

Lot 6, Jalan Pengapit 15/19
Seksyen 15 40000 Shah Alam
Selangor Darul Ehsan, Malaysia
Tel: (60) 3 5039 7777 +603 5039 7732
Email: pni_inquiry@aafmal.com

AAF (Wuhan) Co. Ltd., (China HQ)

268 CheCheng Road
Wuhan Economic & Technological
Development Zone
Wuhan, Hubei Province PR,
China 430056
Tel: +86 27 8447 3671 +86 27 8447 3672
Email: enquiry@aafwuhan.cn

AAF International (Thailand) Co., Ltd.

100 Moo 4 Soi Namdang – Bangplee 44
Bangkaew Bangplee, Samutprakarn
10540, Thailand
Tel: +66 2738 7788
Email: aafthailand@aafthailand.com

Daikin Australia Pty Ltd

(AAF Australia & New Zealand Sales Office)

15 Nyadale Road Scoresby Victoria 3179,
Australia
Tel: +61 (0)3 9237 5562
Email: aafapcsales@daikin.com.au

North & South America

AAF International

9920 Corporate Campus Drive, Suite 2200
Louisville, KY 40223-5000, USA
Tel: 1 502 637 0011
Toll Free: 1 800 477 1214
Email: redfiltration@aafintl.com

AAF, S de RL de CV

Av. Primero de Mayo No. 85,
Col. San Andrés Atenco,
C.P. 54040 Tlalnepantla Edo.
De Mexico, México
Tel: +52 55 5565 5200
Email: redfiltration@aafintl.com

American Air Filter Brasil Ltda.

Rua Cubatão, numero 86, sala 801.
Vila Mariana – São Paulo – SP
04013-000, Brazil
Tel: +55 11 5567 3028
Email: redfiltration@aafintl.com

AAF has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.