DESIGNED WITH Impress® TECHNOLOGY

AmerShield™

Performance Enhancement for Gas Turbines

| Advanced-Technology Pre-filters

Barrier Pre-Filter/Coalescer

Description

Specifically designed for the rigorous environments of gas turbine inlet applications, AmerShield pre-filters offer an outstanding combination of advanced pleating technology and coalescing performance in a rugged, high-impact frame.

Thermal embossed-pleat technology and intermittent beads of adhesive create the ideal surface geometry for smooth and even airflow, while the entire perimeter of the filter media pack is bonded to the plastic frame to ensure a positive seal. AmerShield optimized pleat spacing technique allows the filter media to load evenly throughout its depth and maintain a low resistance to airflow, while also serving to maximize filter life.

In addition, AmerShield's hydrophobic media allows free-running moisture to form large droplets on the intake side of the media, which then fall out of the airstream to the bottom of the filter.

1 | **Reduced Lifecycle Cost**

2 | **Lower Pressure Drop**

3 | **Improved Fine Filter Protection**

Benefits

Low airflow resistance
AmerShield's advanced pleating design and optimized media area deliver the lowest possible resistance, increasing turbine output.

Longer filter life
The ideal pleat geometry of AmerShield facilitates full media utilization, long life, fewer filter change-outs and less downtime.

Coalescing media
The 100% synthetic, proprietary media is hydrophobic, allowing moisture to coalesce out of the airstream to protect final filters.

Lightweight
AmerShield is very lightweight, making removal and installation as easy as possible.

Rugged construction
The moisture-proof, high-impact plastic frame is designed for tough gas turbine intake environments.

Corrosion proof
AmerShield filters contain no metal components, preventing the corrosion that can add particulates to the airstream over time.

Product features

- Ideal pleat geometry for maximum service life and low cost of ownership
- Moisture-proof, thermally bonded synthetic media
- Very low airflow resistance for increased turbine output
- Completely incinerable and corrosion-proof
- Lightweight for easy removal and installation

Applications

- Coastal or high-moisture installations

AAF® INTERNATIONAL
BETTER AIR IS OUR BUSINESS®

GAS TURBINE SOLUTIONS

AmerShield™

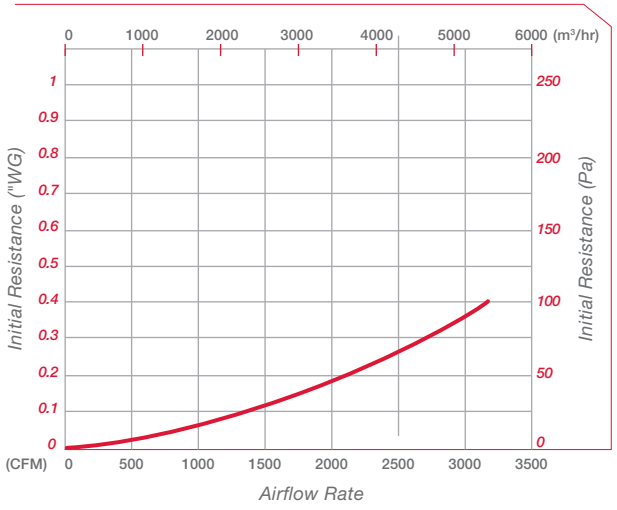
Performance Enhancement for Gas Turbines

| Advanced-Technology Pre-filters

Performance Specification Data

Efficiency	G4 according to EN779:2012 MERV 8 according to ASHRAE 52.2 - 2007
Initial Pressure Drop	70 Pa at 4280m³/Hr (0.28" WG @ 2520 cfm)
Dust Holding Capacity ISO Fine Dust	860 grams @ 375 Pa (1.5" WG)
Recommended Final Resistance	450 Pa (1.8" WG)
Temperature Range	-40˚C to +65˚C (-40˚F to +149˚F)
Humidity Range	0 to 100% relative humidity

RESISTANCE CURVE



CONSTRUCTION

Filter Media	100% Synthetic
Frame Material	High-Impact Plastic
Adhesive	Foamed Hot Melt
Potting	Polyurethane
Gasket	Closed Cell, Nitrile

DIMENSIONS

	24" x 24" x 4"	12" x 24" x 4"	18" x 24" x 4"	20" x 24" x 4"	24" x 24" x 6"*
Width	23-3/8" (594mm)	11-3/8" (298mm)	17-3/8" (441mm)	19-3/8" (492mm)	23-3/8" (594mm)
Height	23-3/8" (594mm)	23-3/8" (594mm)	23-3/8" (594mm)	23-3/8" (594mm)	23-3/8" (594mm)
Depth	3-3/4" (95mm)	3-3/4" (95mm)	3-3/4" (95mm)	3-3/4" (95mm)	5-7/8" (150mm)

*4" (Nominal) Deep Pack in 6" (Nominal) Deep Frame

Additional face dimensions, header and gasket options are available.
Consult with an AAF representative.

U.S. Patent
No. 6,685,833 B2

AAF INTERNATIONAL®

1.855.583.HEPA (4372)
aafgtsolutions.com

SALES OFFICES:

Europe & North Africa

AAF Ltd
Bassington Lane, Cramlington,
Northumberland NE23 8AF, UK
Tel: +44 1670 713 477
Fax: +44 1670 714 370

AAF International
Gas Turbine Division
Kreuzbergerstrasse 1
31226 Peine
Germany
Tel: +49 5171 294 80 14
Fax: +49 5171 294 80 15

AAF-SA
Rue William Dian,
B. P. 3
27620 Gasny
France
Tel: +33 2 32 53 60 60
Fax: +33 2 325 21917

AAF S.r.l.
Via Lario, 1
22070 Fenegrò (CO)
Italy
Tel: +39 031 35 25 311
Fax: +39 031 35 25 333

Middle East & Asia

AAF International
PO Box 28564
Dubai, UAE
Tel: +971 4 339 7688
Fax: +971 4 339 7881

AAF (Wuhan) Co. Ltd
268 CheCheng Road
Wuhan Economic & Technological
Development Zone
Wuhan, Hubei Province PR
China 430056
Tel: +86 27 84236698
Fax: +86 27 84236646

North & South America

AAF International Building
9920 Corporate Campus Drive,
Suite 2200
Louisville, KY 40223-5000, USA
Tel: +1 502 637 0408
Toll Free: 888 AAF 3596
Fax: +1 502 637 0147

AAF, S de RL de CV
Av. Primero de Mayo 85
San Andres Atenco
54040 Tlalnepantla
Estado de Mexico
Tel: +52 55 5565 5200
Fax: +52 55 5390 5814