



Better Air is Our Business®

AmericanAirFilter® DuraCel® XL & XLN

High Efficiency Barrier Filter

An exceptional high efficiency filter utilizing a glass fiber woven media. Available in four efficiency grades, it is designed for use as the final filter stage in machinery intake systems where rigid construction and long service life are essential.

The DuraCel® Filter Features Advanced Design for Superior Performance

- High performance in both efficiency and dust holding capacity
- All metal cell sides
- Flanged headers
- Welded face guards on air entering and air leaving sides
- Light weight
- Temperature limits: up to 302°F/150°C intermittent; 248°F/120°C continuous
- Low average operating resistance
- Longer life than standard filters
- Less filter changeout

The DuraCel is a heavy duty, high efficiency filter unit developed especially for the rotating machinery industry. It is designed to withstand the rigors of centrifugal compressors, gas turbines and engines where severe surging or pulsations occur.

Construction

The DuraCel filter is constructed of all metal cell sides with spot welded face guards and header flanges on the air entering and air leaving sides.

The DuraCel filter is available in four styles, XL-60, XL-60N, XL-90 and XL-90N. The media pack of the DuraCel filter consists of a new high efficiency glass media of graduated density that ensures full depth loading. The filter media is folded between aluminum separators in a pleated design. The separators are spot glued to the adjoining media panel and then the leading edge of the separator is placed in the inside of the media fold. This unique construction feature prevents the separators from moving and puncturing the media.



The advanced media in the DuraCel filter consists of minute glass fibers finely woven into a glass mat which is capable of withstanding temperatures up to 302°F/150°C.

Energy Efficient

The DuraCel filter offers users a choice of operation strategies to obtain the highest efficiency for their application.

Where long runs between the main element changeout are required, the DuraCel filter's high dust holding capacities provide a filter life exceeding any other rotating machinery barrier filter available. Longer runs eliminate downtime and maintenance cost for filter changeout.

Where low operating pressure drop is the primary concern, the DuraCel filter, because of its capacity, will operate at a lower average pressure drop than other high integrity barrier filters. Lower operating pressure drop means fuel savings to the user.

Where filter housing size must be kept to a minimum or where airflows are periodically increased, the DuraCel filter has the ability to operate at air flows of up to 2500 CFM/4250 M³/hr, and still offer high dust holding capacity and high efficiency.

Many Sizes Available

The DuraCel filter is available in all standard sizes. It will provide air cleaning efficiencies at a wide range of airflows due to the filtering properties inherent in the unique media, which acts as a barrier to dirt particles. The nominal ratings of 2000 CFM/3400 M³/hr or 2500 CFM/4250 M³/hr offer the most optimum performance. However, the filter may be operated at other air flows to meet the individual requirements of a system with no loss of efficiency.

Installation and Maintenance

The DuraCel filter installs directly into a filter bank housing. The filter is completely disposable when the final pressure drop value has been reached.

The DuraCel filter is designed to be interchangeable in the field with other AAF designs of high efficiency unit filters without any alteration of retaining devices. There are no wire baskets or other retaining devices required to change out the filters.

All DuraCel filters are designed to fit in standard filter frames. Once the filter is placed in the frame, filter retaining clips are positioned on the header flange and tightened with an adjustable screw fastener. The prefilter is held in place with a wire grid that fits into the curled ends of the retaining straps. Other filter latching arrangements are available if necessary.

When installing DuraCel filter cells, be sure to insert them in the proper direction to airflow as indicated by directional arrows located on the unit. This is important because of the graduated density media.

Technical Data

Style Code	XL60	XL60N	XL90	XL90N
Initial resistance, in. WC	0.45	0.55	0.67	0.64
Initial resistance, pascals	112	137	167	160
Airflow, Ft ³ /min	2000	2000	2000	2000
Airflow, M ³ /hr	3400	3400	3400	3400
Average Atmospheric Dust Spot Eff. (%) Rating	70	80	90	90
Dust Holding Capacity, grams	1376	1771	1381	1525
ASHRAE 52.2 MERV Rating	11	11	14	14
EN 779 Rating	F6	F6	F8	F8

Notes:

- Recommended final pressure drop value is 2.5" w.g./625 pascals
- Filter net weight is 16.5 lbs./7.5 kg
- Each filter is individually packed in a cardboard box. Gross weight is 19 lbs./8.6 kg
- Actual size is 23 3/8" wide x 23 3/8" high x 11 1/2" deep/59.4 cm x 59.4 cm x 29.2 cm.

DuraCel® is a registered trademark of AAF-McQuay Inc. in Argentina, Mexico, and the U.S.

Contact Information

AAF Ltd
Bassington Lane, Cramlington
Northumberland NE23 8AF, UK
Telephone: ++44 1670 713477
Fax: ++44 1670 714370

AAF-McQuay Inc.
10300 Ormsby Park Place
Suite 600, Louisville KY 40223 USA
Telephone: ++1 502 637 0411
Toll Free: 888 AAF 3596
Fax: ++1 502 637 0401

AAF-International B.V.
PO Box 7928
1008 AC Amsterdam
The Netherlands
Telephone: ++31 20 54 94 411
Fax: ++31 20 64 44 398

AAF SA
Rue William Dian, Boite Postale 3
27620 Gasny, France
Telephone: ++33 232 536060
Fax: ++33 232 521917

AAF-Lufttechnik GmbH
Gernostraße 23
44319 Dortmund, Germany
Telephone: ++49 231 921033-13
Fax: ++49 231 921033-23

AAF-S.A.
C/Urartea 11, P. Industrial Ali-Gobeo
01010 Vitoria, Spain
Telephone: ++34 945 241 800
Fax: ++34 945 248 086

AAF S.r.l.
Via E. Mattei 11
22076 Mozzate-Co, Italy
Telephone: ++39 0331 838611
Fax: ++39 0331 838644

AAF-Luftreinigungssysteme Ges.m.b.H
IZ NOe Sued, Strasse 16, Objekt 61
A-2355 Wr. Neudorf, Austria
Telephone: ++43 2236 677628
Fax: ++43-2236-677628-1

AAF McQuay
PO Box 28564, Dubai
Telephone: ++971 433 90894
Fax: ++971 433 80028

AAF WUHAN Co Ltd
WUHAN, CHINA
Telephone: +86 27 8423 6698
Fax: +86 27 8423 6646