



DuraCel[®] XL

High Efficiency Cartridge Filter

- High efficiency and dust holding capacity
- Lightweight, easy to install
- Low average operating resistance
- Longer life than standard filters
- Less filter changeout



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

Construction

DuraCel XL comprises a media pack in a metal frame with spot welded face guards and header flange on the air entering and air leaving side. Two types are available, the XL-60 and XL-90. The media pack of the DuraCel XL Cartridge Filter consists of a high efficiency glass fibre media of graduated density that ensures full depth loading. The filter media is folded between aluminium separators in a pleated design. The separators are spot

glued to the adjoining media panel and the leading edge of the separators is installed from the inside of the media fold. This unique construction prevents the separators from moving and puncturing the media.

The DuraCel XL Cartridge Filter is capable of withstanding temperatures up to 150°C.

Energy Efficiency

The DuraCel XL Cartridge Filter can be used to provide high efficiency air filtration in a variety of operating conditions. Where long runs between filter changeout are required, the DuraCel XL Cartridge Filter's high dust holding capacity ensures a filter service life that is longer than that of any other rotating machinery barrier filter.

When low operating pressure drop is the primary concern, the DuraCel XL Cartridge 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 the filter housing size must be kept to a minimum or in applications in which airflow is subject to change, the DuraCel XL can handle air volumes up to 4250 m³/h while still offering high dust holding capacity and high efficiency.

The DuraCel XL Cartridge Filter is available in all standard sizes. It will provide air cleaning efficiencies at a wide range of airflows. This is due to the filtering property of its media which acts as a barrier to dirt particles.



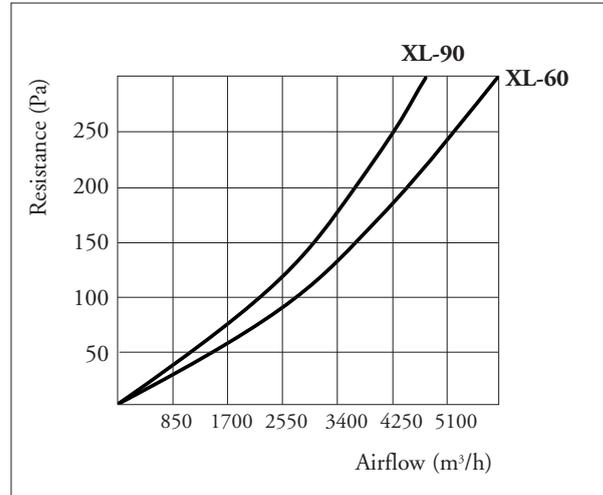


DuraCel® XL

Technical Data

Type	XL-60	XL-90
Cell size (inch)	24x24x12	24x24x12
Actual size (mm)	594x594x292	594x594x292
Initial resistance (Pa)		
at 4250 m ³ /h	178	226
at 3400 m ³ /h	122	157
Final resistance (Pa)	635	635
Average atmospheric dust spot efficiency (%)	69	91
Average arrestance by weight on AC Fine Test Dust (%)	98,2	99,95

Airflow vs Resistance



The nominal ratings of 3400 m³/h or 4250 m³/h provide the most optimum performance. However, the filter may be operated at other air volumes to meet the individual requirements of a system without compromising efficiency. When coupled with AAF AmerKleen M80 media, the DuraCel XL Cartridge Filter offers the most effective filter system available on the market today. AmerKleen's graded density allows for progressive dust loading of the prefilter and eliminates face loading problems.

Installation and Maintenance

The DuraCel XL Cartridge Filter can be directly installed into a retaining frame. The filter is completely disposable when the final resistance has been reached. There are no wire baskets or other retaining devices required to change out

the filters. The filter is interchangeable with other AAF designs of high efficiency unit filters without having to alter the retaining device.

Both DuraCel XL Cartridge Filters are designed to fit in standard filter frames. The cell is placed in the frame. The filter retaining clips are positioned on the header flange and tightened with the adjustable screw fastener. The prefilter is held in place with a wire grid that fits into the curled ends of the retaining straps.

When installing DuraCel XL Cartridge Filter cells, be sure to secure them in the proper direction to the airflow as indicated by the eyes, hands, and arrows on the unit. This is important because of the progressively packed media.

Package Units

DuraCel XL Filters can also be installed in custom-built filter housings, engineered and designed by AAF to meet the particular requirements of the equipment and the space limitations of the installation. In the housings, DuraCel XL Filters are placed in 1.5 mm galvanized steel frames and secured in place by latches supplied with the unit. All housings provide easy access to the filter cells. The only maintenance required is periodic replacement of the cells. Housings can be constructed to contain any number of filter cells to arrive at the airflow requirements of the installation.

A draft gauge should be installed as part of the system to indicate when the system has reached its maximum allowable resistance.

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