



# 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 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 intermittent; 248°F 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 is constructed of all metal cell sides with spot welded face guards and header flange on the air entering and air leaving sides.

The DuraCel 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 separators is placed in from 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.

### ENERGY EFFICIENT

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

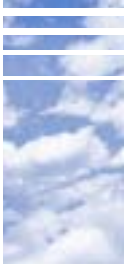
Where long runs between the main element changeout are required, the DuraCel filter's high dust holding capacities give filter life that exceeds any other rotating machinery barrier filter available. Longer runs eliminate downtime and maintenance cost for filter changeout.

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 an applications where airflows are periodically increased, the DuraCel has the ability to operate at air volumes of up to 2500 cfm and still offer high dust holding capacity and high efficiency.

### MANY SIZES AVAILABLE

The DuraCel is available in all standard sizes. It will provide air cleaning efficiencies at a wide range of airflows. This is due to the filtering properties inherent in the unique media which acts as a barrier to dirt particles. The nominal ratings of 2000 cfm or 2500 cfm offer the most optimum performance. However, the filter may be operated at other air volumes to meet the individual requirements of a system with no loss of efficiency. Pressure loss and filter life are the two variables that will be affected.



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## INSTALLATION AND MAINTENANCE

The DuraCel filter installs directly into a filter bank housing. 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 DuraCel is designed to be interchangeable in the field with other AAF designs of high efficiency unit filters without any alteration of retaining devices.

All DuraCel filters are designed to fit in standard filter frames. The cell is placed in the frame. In the standard configuration 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. Other filter latching arrangements are available.

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 progressively packed media.

## TECHNICAL DATA

Style Code:	XL60	XL60N	XL90	XL90N
Actual Size: (w x h x d)	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>			
Initial Resistance (In. W.G.)	0.45	0.57	0.67	0.68
Airflow Capacity (CFM)	up to 2500			
Avg. Atmospheric Dust Spot Eff. (%)	70	80	91	91
Dust Holding Capacity (g)	1376	1806	1381	1619

### Notes:

- Initial resistance and dust holding capacity measured @ 2000 cfm.
- Recommended final resistance is 2.5" w.g.
- Filter net weight is 16.5 lbs.
- Each filter is individually packed in a cardboard box. Gross weight is 19 lbs.



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