



SUPRACELL NRM

AIR INTAKE SYSTEMS



NRM - 90XL
NRM - 90
NRM - 60XL
NRM - 60



EFFICIENCY - CERTIFICATION

EFFICIENCY

Degradation pressure – 15"WG. At this pressure the filter efficiency begins to decrease.

Blow out pressure – 25"WG. This pressure is where structural damage will occur.

SupraCell filters are designed to fit standard filter frames and side access housings.

Due to the use of single duo-phase media, it is important that the filter be installed in the proper direction of airflow. For ease of installation, directions of airflow labels have been installed on both sides of the filter. The filter is simply removed from the holding frame or side access housing and disposed of when the final pressure drop has been reached, requiring only a minimum of maintenance time.

CERTIFICATION

Filtration LAB SupraCell NRM cartridges chosen at random have been put to rigorous laboratory testing by Air Filter Testing Laboratories, Inc., Kentucky, USA. The next few pages of this catalogue have been devoted to printing actual testing results of Filtration LAB cartridges by AFTL establishing total suitability of Filtration LAB cartridges for rotating machinery air-intake.

APPLICATION

The SupraCell NRM Filter is designed for use as high efficiency filtration for gas turbines, engines and centrifugal compressors where extreme pulsing and surging may occur. The rugged design of this filter allows it to withstand the conditions of these applications while providing efficiency of 99% by the mass arrestance weight test.

ADVANTAGES

- Welded face guards front and rear of filter.
- Single-duo-phase media for ultra high dust holding capacity and efficiency.
- Complete galvanized steel construction provides corrosion resistance and durability.

CONSTRUCTION

The SupraCell is manufactured using all galvanized steel construction with face guards spot-welded to the header flange front and rear. A single layer duo-phase media is used in the pleat pack to provide the graduated density which achieves the high dust holding capacity and high efficiency of both the 60% and 90% SupraCell. The pleat pack is constructed using corrugated aluminum separators to maintain rigidity and durability of the pleated pack, all of which is sealed in the frame by use of spot glue and glass fiber media, which ensures a positive seal.

	NRM-90XL	NRM-90	NRM-60XL	NRM-60
Nominal Size	24" x 24" x 12"			
Rated Air Flow, CFM	2000	2000	2000	2000
Initial Resistance	0.55"WG	0.55"WG	0.38"WG	0.36"WG
Recommended Final Resistance	2.5"WG	2.5"WG	2.5"WG	2.5"WG
Average Dust Spot Efficiency	90%	86%	71%	68%
Average Dust Weight Arrestance	100%	100%	99%	99%
Dust Holding @ Final Rated Resistance	1200 GMS	950 GMS	1300 GMS	850 GMS

Depending on the type used, pre-filter pads increase dust holding capacity three to four times and eliminates face loading problems.

SupraCell XL cartridge filters offer high dust holding capacity and gives a longer filter life that exceeds other rotating-machinery filters. Longer life ensures less downtime and lower maintenance costs for filter changing. SupraCell XL can operate at Air Volumes up to 2500 CFM while still offering high dust-holding capacity and high efficiency.

SupraCell cartridges are designed to be interchangeable in the field with other high efficiency unit filters without any alteration to retaining devices.

