



Ultra Gold
Energy saving
V-cell filter

Ultra Gold

Energy-saving efficiency



1

MEDIA

The ULTRA GOLD media has been engineered to maximize its particle removal efficiency and minimize its resistance footprint by intelligent design of fiber diameters and basis weight compilations of the unique fiber structure.

2

CONSTRUCTION

The ULTRA GOLD utilizes an all plastic frame that was designed with intelligence to reduce landfill waste while maximizing product strength. The vertical struts are constructed of double-walled plastic to give the maximum strength in demanding applications. The frame has been engineered to provide maximum performance by improved design that helps reduce the resistance to air flow.

3

EFFICIENCY

Particle penetration per challenge of 100,000

Particle Size	ULTRA GOLD	MERV 15	MERV 14	% Reduction
0.3 µm	7,500	26,100	37,500	70 to 80%
0.5 µm	4,600	16,200	27,300	72 to 83%
1.0 µm	1,000	3,000	8,400	67 to 88%
3.0 µm	200	800	3,700	75 to 95%

4

MEDIA PACK

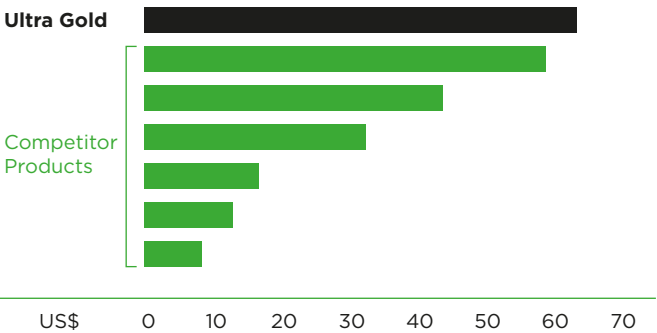
The media pack is pleated on a computer-controlled pleater just like HEPA filters. The media pack is attached to the frame with a polyurethane sealant, also like HEPA filters. The sealant is applied by an automatic system to ensure the pack is completely sealed.

5

RESISTANCE

The chart below shows how the ULTRA GOLD compares against competitive V-Cell filters. As you can see, the ULTRA GOLD low resistance adds up to significant energy savings.

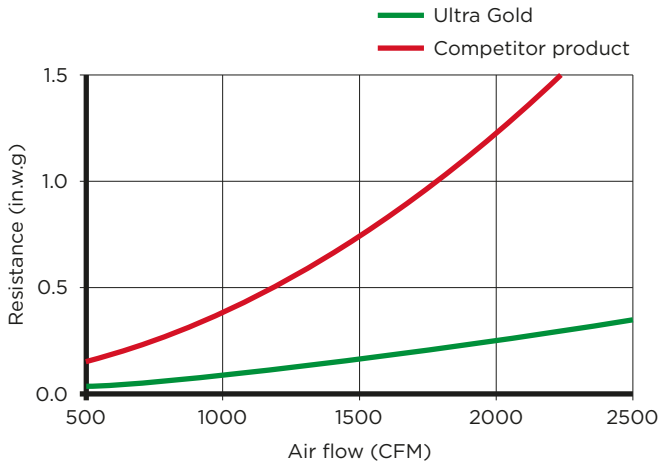
Energy savings per filter per year
Upgrading from an R-cell



6

FRAME

The frame design leads to minimal design loss has an impact on the filter's performance. One way is the upstream open face area - the ULTRA GOLD has up to 18% more open area than competitive filters. This helps give the ULTRA GOLD an advantage on resistance, energy savings and service life as shown in the graph (below).

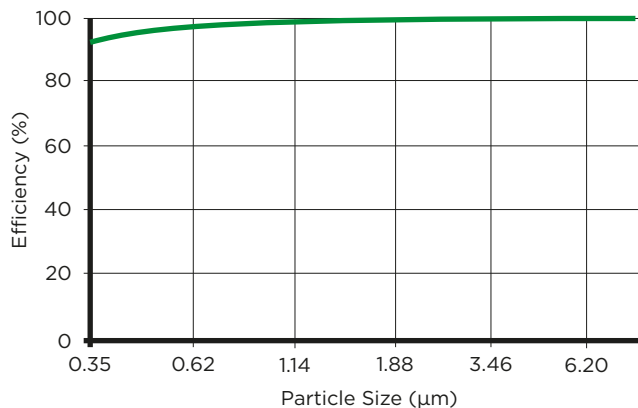


Specification and performance

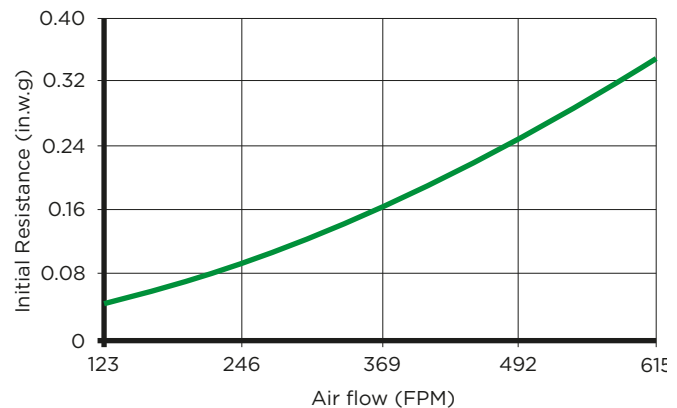
SPECIFICATION

Media	Synthetic
Frame	Plastic Frame - no metal components
Final resistance	1.5" WG (373 PA)
Initial resistance @ 500 FPM	0.25" WG (62 PA)
Efficiency	MERV 16A per ASHRAE 52.2 Appendix J

FILTRATION EFFICIENCY



INITIAL PRESSURE DROP



Tri-Dim Filter Corporation is committed to continual product development – all descriptions, specifications and performance data are subject to change without notice. Tri-Dim products are manufactured to exacting criteria – there can be a ±5% variance in filter performance.

LOCAL REPRESENTATIVE