

TRI DIM
FILTER CORPORATION

ultra^{xe}

High Efficiency V-Cell Filter



TRI DIM
ENVIRONMENTAL SERIES

ULTRA™ MEDIA

ULTRA media is a new generation of media that offers unmatched and innovative performance with MERV 15 and MERV 13 efficiency with ultra low resistance (0.36" WG on a MERV 15) - creating a new industry benchmark for efficiency and energy savings. The ULTRA media has proven itself in testing utilizing the ASHRAE 52.2-2007 Appendix J test method.

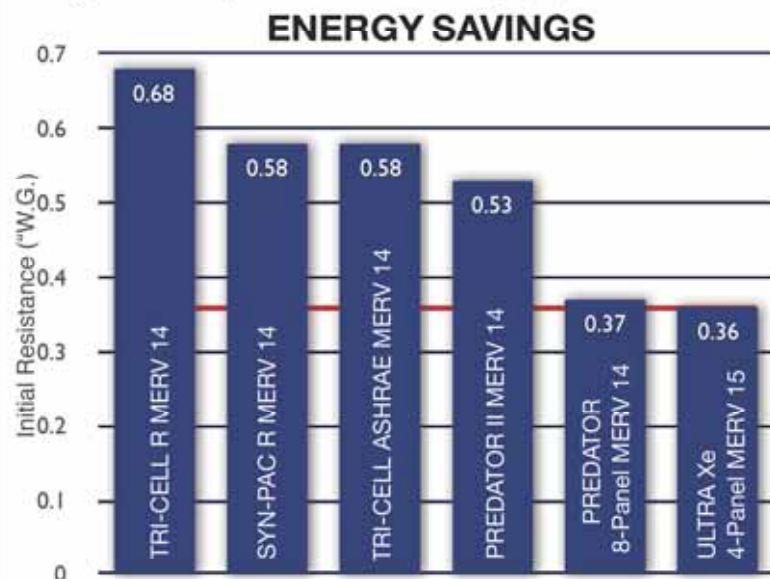
ULTRA media was also tested for resistance to UV light - since independent laboratories do not currently test filter media for UV light resistance, Tri-Dim has been testing various filter medias to direct UV dosages at a distance of 12" - and at this distance the test is highly accelerated. Some



competitive filter medias showed significant deterioration in only a few months - some of the filter medias turned to dust when touched. The ULTRA media was exposed for 6 months - which translates into 54 months of typical exposure and showed no noticeable signs of degradation (see photos left).

ENERGY SAVINGS

ULTRA Xe offers a reduction in operating resistance up to 50% (see chart), this leads to an energy savings when compared to conventional MERV 14 filters. Lower Resistance leads to reduced energy consumption in almost every application.

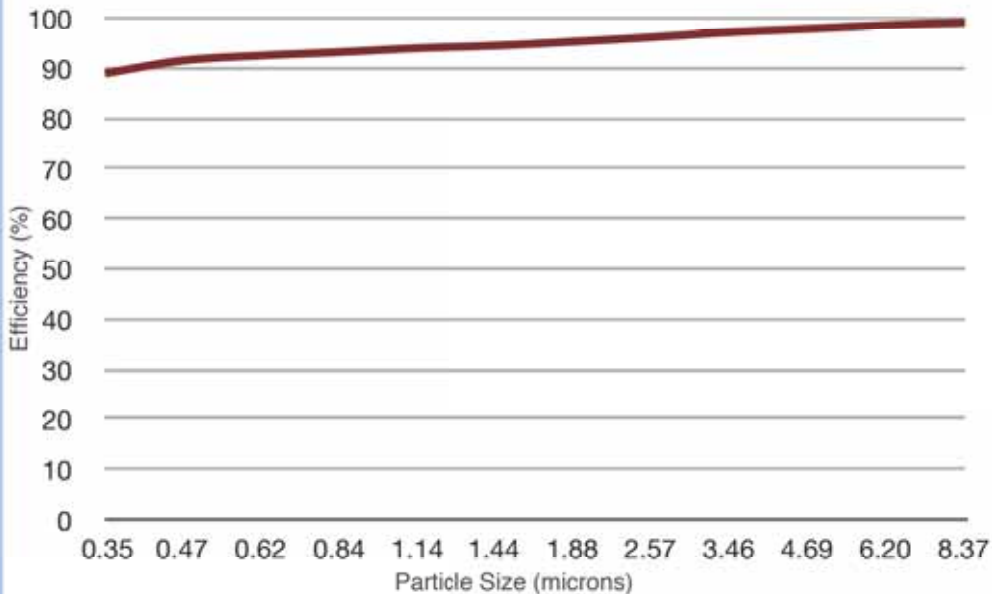


In a recent study that compared Tri-Dim's ULTRA media to conventional micro-glass filtration media, actual energy savings of 40% were documented by using precise equipment to monitor actual energy usage - not one of the many energy saving formulas or calculators.

Formulas and calculators have been proven to be inaccurate in estimating the actual energy savings by grossly over exaggerating the amount of the energy savings.

EFFICIENCY

ULTRA Xe MERV 15 Fractional Efficiency Appendix J ASHRAE 52.2



Tri-Dim's ULTRA Xe achieves a MERV 15 efficiency when tested under Appendix J of ASHRAE 52.2-2007.

The ULTRA Xe's performance on critical particle sizes of 1 micron exceeds 93% and exceeds 91% on 0.5 microns. This makes the ULTRA Xe ideal for use in medical and other applications where a consistent level of filtration is demanded.


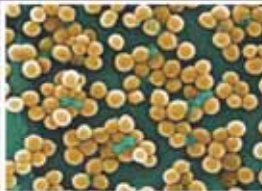

GREEN INITIATIVES

The ULTRA Xe filter offers many features that will be a benefit to your companies 'Green Initiatives Program'. These features include:

- ➔ Energy Savings - up to 40% already documented
- ➔ Greater than MERV 13 = LEED IAQ Credit
- ➔ Longer Service Life = Reduced Waste to Landfill
- ➔ Frame Top and Bottoms 100% Recycled Content - 60% is Post-Consumer
- ➔ Reduces Airborne Contaminants - reduced absenteeism

Contact your local representative for more information or to see how Tri-Dim Filter can assist with your Green Initiative Program.



Bio-aerosol	Photo <i>(Courtesy of CDC)</i>	Airborne Particle Size	ULTRA Xe MERV 15 Efficiency Appendix J
ANTHRAX		1-3 micron	95%
MRSA		0.5 micron 3.3 micron airborne	0.5 = 91.5% 3.3 = 88.9%
SWINE FLU		1 micron	93.2%

NOTE: The above efficiencies are the minimum efficiencies from independent ASHRAE 52.2-2007 Appendix J test - they represent the minimum efficiency on similar size particles - not on the bio-aerosols referenced above.

ULTRA Xe PRODUCT SPECIFICATION

Media

Hybrid

Initial Resistance @ 500 FPM (2.54 m/sec)

MERV 13

Frame

0.34" WG (85 PA)

- Single Header, Plastic w/Metal Struts

MERV 15

- Double Header, Metal Wrap

0.36" WG (90 PA)

- Tops/Bottoms 100% Recycled

Final Resistance

1.5" WG (373 PA)

Efficiency - ASHRAE 52.2 (ASHRAE 52.1)

MERV 13 (80-85%)

Filters Meet ANSI/UL-900 Requirements

MERV 15 (90-95%)

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. Tri-Dim® and Tri-Dek® are Registered Trademarks of Tri-Dim Filter Corporation.



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