

**HIGH EFFICIENCY  
FOUR PANEL  
V-CELL FILTERS**



EPA/ETV Test  
Verified  
Performance



## HIGH EFFICIENCY FOUR PANEL V-CELL FILTER



The PREDATOR II from Tri-Dim Filter Corporation is an effective, innovative, economical replacement to other high efficiency filters. The PREDATOR II is a high efficiency V-Cell air filter that utilizes an all plastic frame and micro-fiber media that is proven to produce consistent results in the test lab as well as in real world applications.

### EASY REPLACEMENT

The PREDATOR II allows for easy upgrades from other high efficiency filters – in fact the PREDATOR II will fit into almost any holding frame or housing that holds a single header, double-header or no header filter.



*Side Access Applications*



*Close-up of Front or Rear Load Spring Attachment*



*Front or Rear Load Applications*

### LOWER RESISTANCE

Increased surface area leads to lower resistance which will reduce energy consumption. The PREDATOR II will save over \$40 per year per filter when upgrading from a rigid R-Cell – making the upgrade from an R-Cell a net savings.

*Cost Savings based upon 1-24x24x12 95% filter operated at 2000 CFM, energy cost of \$0.10 per KWH, Time Period of 8760 hours and a Motor and Blower Efficiency of 65%*



## SERVICE LIFE

The Predator II's increased surface area, greater than **50%** more than an R-Cell, reduces the number of filters you have to buy and reduces the number of times a year that labor is required so you can focus on the essentials of your job or take that well deserved break.

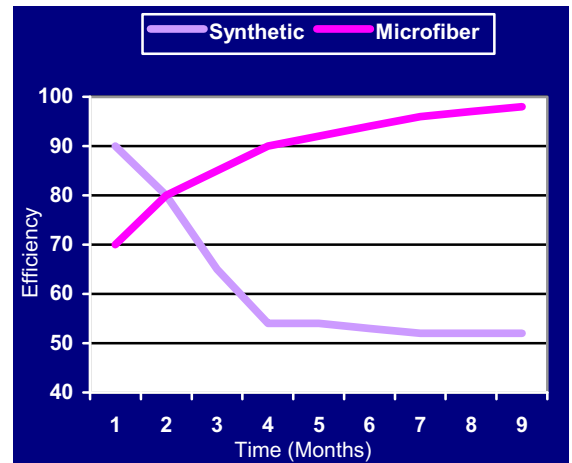


## MEDIA

The PREDATOR II uses a micro-fiber media that allows for high efficiency and does not utilize an electrostatic charge to increase efficiency so efficiency degradation is not an issue. The media pack is bidirectional allowing for 'reverse' installation. The media pack uses HEPA mini-pleat technology and is pleated in a cleanroom environment.

## SYNTHETIC EFFICIENCY DEGRADATION

The real world problem of efficiency degradation in synthetic electrostatically charged medias could dramatically reduce the effectiveness of your expensive, high efficiency filters. Efficiency degradation is caused when the charged electrostatic fibers become coated with fine particles, thus reducing the electrostatic charge and the filter efficiency. The net result is an expensive high efficiency filter that does not perform up to the efficiencies expected or demanded. The PREDATOR II is constructed of micro-fiber media that has a proven track record to produce consistent results both in the test lab as well as in real world applications.

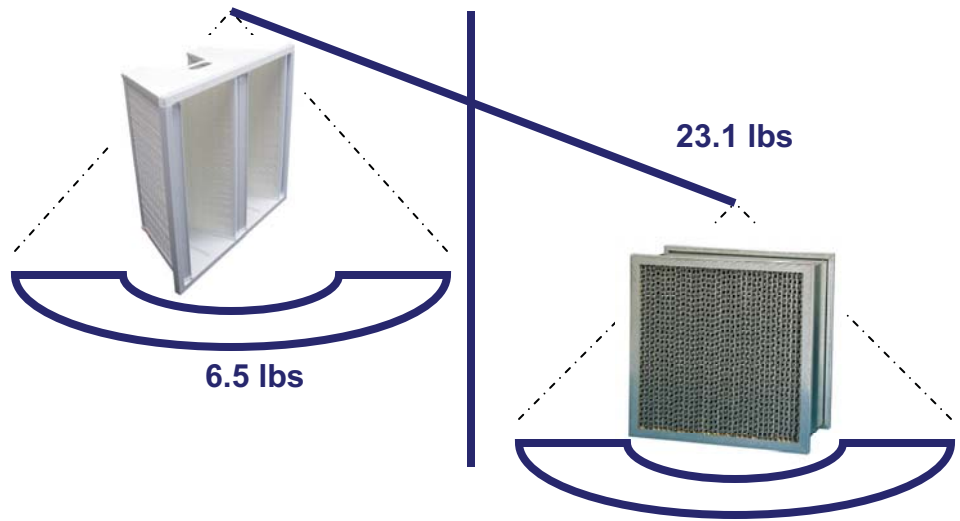


## FRAME

The PREDATOR II utilizes an all plastic frame that reduces the unnecessary weight and allows for easy disposal either by compacting or incineration. The uniquely designed frame also allows for the PREDATOR II to be used in all installation applications so the PREDATOR II can be used to easily replace any current high efficiency filter.

## LIGHT WEIGHT

The PREDATOR II weighs less than 7 pounds for a 24x24x12 filter. This is more than 70% less than a conventional ASHRAE box filter. The benefit is in reduced freight and reduced fatigue of maintenance staff.



## OTHER PREDATOR OPTIONS

The PREDATOR II Series also offers the PREDATOR, an eight panel V-Cell and the PREDATOR VR, a double-header version of the PREDATOR and PREDATOR II.



The PREDATOR (left) is an eight panel V-Cell available in 60-65%, 80-85% and 90-95%, 98%, 95% DOP and 98% DOP efficiencies.

The PREDATOR VR (right) is the PREDATOR with a metal 'wrap' to offer the PREDATOR in a double-header option for use in applications that will not accept a single header filter.



## SPECIFICATIONS

### MEDIA:

GLASS MICROFIBER

### FRAME MATERIAL:

ALL PLASTIC

### RATED EFFICIENCIES:

ASHRAE 52.2 (ASHRAE 52.1)  
 MERV 11 (60-65%)  
 MERV 13 (80-85%)  
 MERV 14 (90-95%)

### MEDIA AREA:

24x24x12	105 SQ. FT. (9.75 m <sup>2</sup> )
24x20x12	85 SQ. FT. (7.9 m <sup>2</sup> )
24x12x12	45 SQ. FT. (4.18 m <sup>2</sup> )
20x20x12	74 SQ. FT. (6.87 m <sup>2</sup> )

### INITIAL RESISTANCE:

	@ 500 FPM (2.5 m/sec)
60-65%	0.23" W.G. (57 PA)
80-85%	0.44" W.G. (110 PA)
90-95%	0.53" W.G. (132 PA)

### FINAL RESISTANCE:

1.50" W.G. (374 PA)

Information on the performance characteristics of the Predator II can be found at [www.epa.gov/etv](http://www.epa.gov/etv), or call Duane Colwell at 540-967-2600 for a copy of the ETV verification report. Use of the ETV Name or Logo does not imply approval or certification of this product nor does it make any explicit or implied warranties or guarantees as to product performance.

Tri-Dim Filter Corporation is committed to continual product development – all descriptions, specifications and performance data are subject to change without notice.

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