



# TRI-CUBE MERV 13

MERV 13 EXTENDED SURFACE CUBE FILTER

## INNOVATIVE SOLUTIONS



**TRI DIM**  
ENVIRONMENTAL SERIES

# MERV 13



## FEATURES

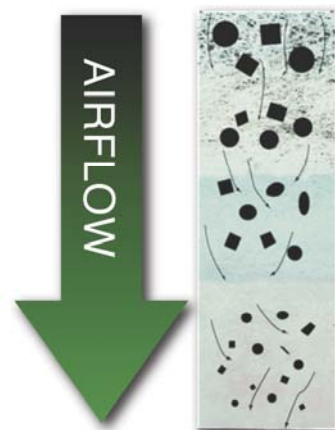
- LEED Points
- Depth Loading Media
- Extended Surface Area
- Trapezoid Shape
- Self Gasketing
- Reduced Waste to Landfill
- Extended Filter Service Life
- Mold/Mildew Resistant
- Post Consumer Recycled Content

## TRI-CUBE™ MERV 13

Tri-Dim's innovative TRI-CUBE MERV 13 filter offers high efficiency and LEED points with all the features and benefits of the conventional TRI-CUBE filters.

**DEPTH LOADING MEDIA** - TRI-DEK® media utilizes different layers or deniers of media arranged from coarsest to finest to create a depth loading arrangement. The media is a unique needle-felted electrostatic blended synthetic. Larger particles are captured on the air entering side of the media and as the air works its way through the media finer particles are removed. This approach maximizes filter life especially when compared to pleated filters that utilize the 'strainer' method of filtration. Media contains 11% Post-Consumer recycled content.

**EXTENDED SURFACE AREA** - The TRI-CUBE MERV 13 filter offers extended surface area in a unique trapezoid shape to maximize performance. The benefits of more surface area are a longer filter service life and a lower operating resistance (pressure drop). These will help you achieve lower energy cost, reduced filter related cost, higher efficiency, cleaner air handler surfaces, and reduced landfill waste - and these can help you achieve additional LEED credits.





**SELF GASKETING** - The TRI-CUBE filters use an integral wire support that is heat sealed into the media - this in turn creates the self-gasketing perimeter edge. The self-gasketing eliminates the bypass of contaminated unfiltered air around the filter. This perimeter edge allows for a 'friction' fit that eliminates the need for cumbersome holding clips in some applications.



**MOLD/MOISTURE RESISTANT** - TRI-DEK media is resistant to moisture and microbial growth – much more so than traditional cardboard framed filters. Cardboard framed filters inherently hold moisture regardless of what protective coatings are used. This means the frame will eventually deteriorate and can blow out of the air handler. The presence of moisture is also one of the key components for the growth of microbials.

Microbial growth in an HVAC system can have a detrimental affect on the health of the building occupants. Microbial growth can increase allergy and asthma attacks and depending upon the specific microbial can cause illnesses - including those that are severe. TRI-CUBE filters use no cardboard or other materials that hold moisture – in-fact synthetic media and a galvanized internal wire support frame are the only materials utilized.

## LEED CREDITS

1 Point  
Indoor Environmental Quality - IEQ Credit 1.4: IAQ Best Management Practices: Reduce Particulates in Air Distribution

**Requirement** - Have in place filtration media with a minimum efficiency reporting value (MERV) greater than or equal to 13 for all outside air intakes and inside air recirculation returns during the performance period. Establish and follow a regular schedule for maintenance and replacement of these filters according to the manufacturer's recommended interval.

*Additional LEED Credits may exist.*

# TRI-CUBE MERV 13

## Filter Specifications



### Media

Needle-Felted Electrostatic  
Blended Synthetic  
11% Post Consumer Recycled Content

### Frame - Internal

Galvanized Steel

### Seal

Thermally Generated and Sewn

### Efficiency - MERV

13

### Initial Resistance

#### 10" Deep

375 FPM (1.90 m/sec)

0.69" WG (172 PA)

#### 15" Deep

375 FPM (1.90 m/sec)

0.50" WG (124 PA)

500 FPM (2.54 m/sec)

0.73" WG (182 PA)

#### 20" Deep

375 FPM (1.90 m/sec)

0.35" WG (97 PA)

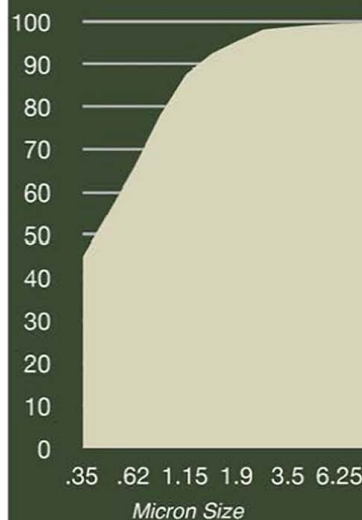
500 FPM (2.54 m/sec)

0.57" WG (142 PA)

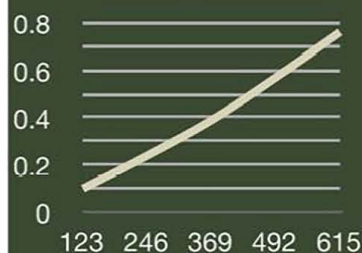
### Final Resistance

1.5" WG (373 PA)

### Fractional Removal Efficiency



### Initial Resistance 20" Deep Cube



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  $\pm 5\%$  variance in filter performance.

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