



TRI-DEK® e8

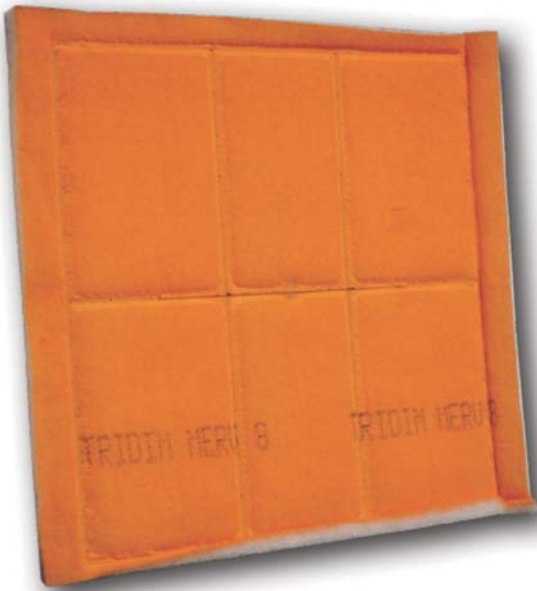
MERV 8 Environmental Series



**ANOTHER
INNOVATIVE
SOLUTION
FROM
TRI-DIM
FILTER**



TRI  DIM
ENVIRONMENTAL SERIES



TRI-DEK® e⁸

The TRI-DEK e⁸ is a MERV 8 Panel filter designed with meeting LEED goals and sustainable initiatives in mind. The TRI-DEK e⁸ is the next generation in a long line of Tri-Dek Panel filters. Tri-Dim® Filter Corporation was founded by John Stanley in 1968 to fulfill John's vision of a better way to provide cleaner air - the Tri-Dek Panel was the result. Since 1968 Tri-Dim has continued to refine the Tri-Dek Panel and are we are pleased to announce the latest member of the Tri-Dek family - the TRI-DEK e⁸ Environmental Series Panel Filter.

The TRI-DEK e⁸ panel filter utilizes a plastic grid frame in place of the traditional galvanized wire frame for more disposal options. The plastic grid can be more easily compacted, shredded or incinerated.

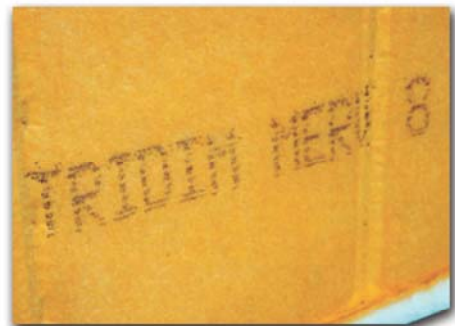
TRI-DEK e⁸ MERV 8 rating gives you instant compliance with LEED guidelines for filter efficiency in new construction and renovation. The efficiency is imprinted directly on the filter media to give quick verification of the filters performance.

As with its predecessors the TRI-DEK e⁸ Panel Filter improves the integrity of the HVAC system by eliminating the bypass of dirty, unfiltered air. This bypass can cause huge IAQ (Indoor Air Quality) issues if it allows bio-matter to accumulate and propagate in the HVAC system - essentially turning your HVAC system into a petri dish.

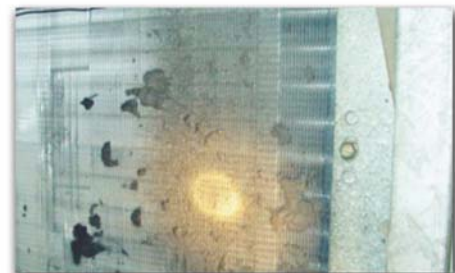
TRI-DEK e⁸ Features:



Plastic Grid provides support and easy disposal



MERV 8 Media - Imprinted for instant verification



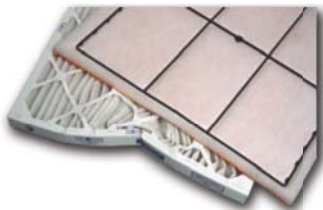
Reduced Bio-matter in an HVAC System

TRI-DEK e⁸ is the solution for environmentally friendly filtration!

Additional benefits include:



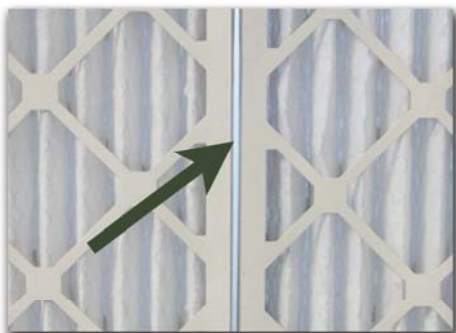
Storage and Freight Savings - TRI-DEK e⁸ filters are packed twenty-four per case, that is a smaller size box in which twelve traditional pleated filters are packed in, resulting in a 70% reduction (see photo left) in freight and storage area and cost. Reducing transportation related expenses can certainly be helpful in satisfying requirements of some Green Incentives. An additional benefit from this feature is it also translates into less trips transporting the filters to the mechanical room.



Tough and Durable Design - Traditional pleated filters use a fragile cardboard frame to support the media, TRI-DEK e⁸ filters utilize a sturdy plastic frame that can withstand the harsh treatment filters often endure during shipping and handling.



Moisture and Mold Resistant - Another benefit of not using a cardboard frame filter is they are not moisture or mold resistant. The cardboard frame will hold moisture and over time deteriorate to the point the filter will frequently fall completely out of the frame and fall against the coil or get pulled into the fan. If the conditions are favorable, a wet cardboard frame can also support microbial growth - like mold, mildew, and the list goes on and on. Reduction of moisture and microbial growth could be helpful in achieving IAQ requirements of some

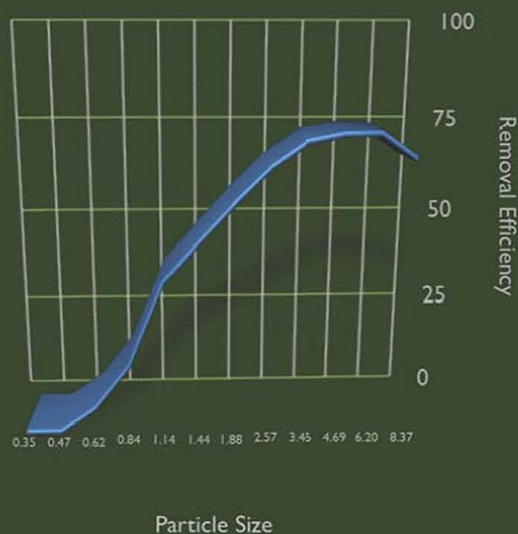


Bypass and System Efficiency - TRI-DEK offers the advantage of self-sealing to eliminate the bypass of dirty, unfiltered air. Recent studies have documented the dramatic efficiency loss when bypass gaps are present, these gaps are common when using traditional cardboard framed filters. The system's efficiency is far more important than the results of a filter tested in a controlled lab. Elimination of air bypass results in a higher 'real world' system efficiency.

PRODUCT SPECIFICATIONS

Nominal Filter Size	Airflow	Pressure Drop	Airflow	Pressure Drop
12 x 24 305 x 610	600 CFM 0.28 m ³ /sec	0.33" WG 82 PA	750 CFM 0.35 m ³ /sec	0.43" WG 107 PA
16 x 20 406 x 508	667 CFM 0.31 m ³ /sec	0.33" WG 82 PA	833 CFM 0.39 m ³ /sec	0.43" WG 107 PA
16 x 25 406 x 635	833 CFM 0.39 m ³ /sec	0.33" WG 82 PA	1042 CFM 0.49 m ³ /sec	0.43" WG 107 PA
20 x 20 508 x 508	833 CFM 0.39 m ³ /sec	0.33" WG 82 PA	1042 CFM 0.49 m ³ /sec	0.43" WG 107 PA
20 x 25 508 x 635	1042 CFM 0.49 m ³ /sec	0.33" WG 82 PA	1302 CFM 0.61 m ³ /sec	0.43" WG 107 PA
24 x 24 610 x 610	1200 CFM 0.56 m ³ /sec	0.33" WG 82 PA	1500 CFM 0.71 m ³ /sec	0.43" WG 107 PA

Composite Minimum Particle Size Efficiency



LEED Credits

~1 Point - *Indoor Environmental Quality - EQ Credit 1.5: IAQ Best Management Practices: Management for Facility Alterations and Additions*

Requirement - If air-handlers must be used during construction, filtration media with MERV 8 must be used at each return air grille, as determined by ASHRAE 52.2-1999. Replace all filtration media immediately prior to occupancy. After construction ends and all interior finishes have been installed, install new filtration media and flush-out the affected space. Tri-Dek e⁸ is imprinted with MERV 8 Efficiency for easy and instant verification.

~1 - 2 Points - *Materials & Resources MR Credits 7.1 and 7.2: Solid Waste Management: Ongoing Consumables*

Intent - To facilitate the reduction of waste and toxins generated from the use of ongoing consumable products by building occupants and building operations that are hauled to and disposed of in landfills or incineration facilities. Tri-Dek e⁸ with its long service life, no metal components and ease of compacting or shredding helps to actualize this intent.

From Green Building Rating System For LEED® for Existing Buildings: Operations & Maintenance

Other credits may exist - please contact your local representative for more information

TRI DIM
ENVIRONMENTAL SERIES

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

Even though 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. LEED™ is a Trademark of the U.S. Green Building Council.



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