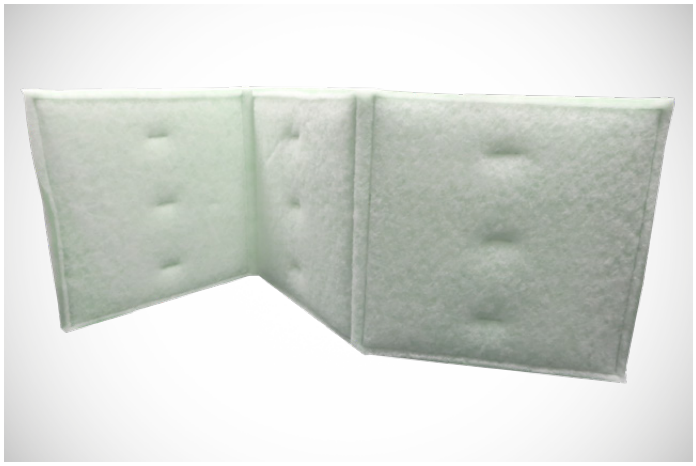
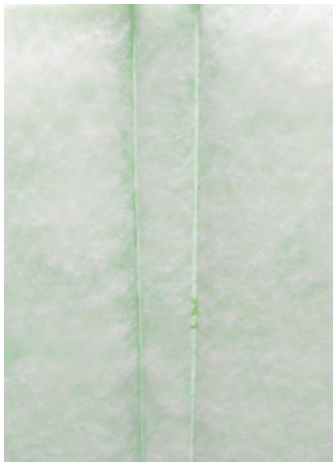
Tri-Dek 15/40
3-ply panel and link filters

TRIDIM
A MANN+HUMMEL Company

Tri-Dek 15/40
The one they all try to copy



Tri-Dek 15/40



Dirty air can pass through the gaps between pleated filters to the downstream application. Tri-Dek's selvedge edge eliminates air bypass.

THE ORIGINAL

In 1968 Tri-Dim was founded by John Stanley to develop, manufacture and market innovative filtration products and services. This revolutionary approach generated the invention of Tri-Dek – the first depth-loading synthetic media. As a result of this 'ground-up' development, Tri-Dek medias offer superior filter efficiency, extraordinary service life, moisture and mold resistance and a filter that eliminates air bypass.

TRI-DEK – HOW IT WORKS

Tri-Dek media utilizes three different medias that are arranged from the coarsest to the finest – this depth loading arrangement allows for particulate to be captured throughout the depth of the media unlike 'strainer' type pleat medias that typically utilize only the surface to capture dirt. This difference is how the Tri-Dek 15/40, with a 'flat' panel construction, is able to out perform a pleat. The Tri-Dek 15/40 media also offers LEED® credits for MERV 8 efficiency and contains 29% post-consumer recycled content.

BYPASS ELIMINATION

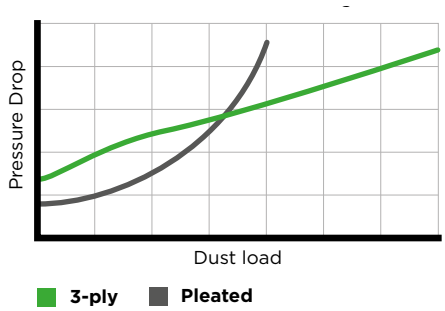
Tri-Dek eliminates the risk of unfiltered air bypass around or between filters or the filter and the filter rack. Tri-Dek utilizes a selvedge edge to provide a self-gasket – unlike cardboard-framed filters that do not seal and therefore inherently allow unfiltered air to go around the filter.

Dirty air bypass is one of the leading causes of coil fouling and can also result in reduced service life of expensive final filters. If there is no secondary filter, then unfiltered air bypass will result in no protection from biological agents and microbial contaminants – both are important concerns in today's world.

A longer service life
With easy storage and installation

TRI-DEK 15/40 VS PLEATED FILTERS

Resistance and dust holding



LONGER SERVICE LIFE

The Tri-Dek media 'manages' the dirt by utilizing depth loading which allows for Tri-Dek panels to outperform pleated filters. The graph to the left shows the results from a laboratory test for filter life. The results can be easily seen – Tri-Dek out lives a high capacity pleated filter by 75%, which is nearly twice the service life.

REDUCED SHIPPING/STORAGE

Tri-Dek panels are packed 24 per case, twice as many as pleats - this reduces shipping and storage cost by 50%. And more importantly it reduces the number of trips to the air handler.

MOISTURE AND MOLD RESISTANT

Tri-Dek media is resistant to moisture and microbial growth – unlike cardboard framed pleated filters. The pictures to the left show the effects of microbial growth and moisture on pleated filters. Cardboard inherently holds moisture regardless of what protective coatings are used. If pleated filters are subjected to moisture they will eventually deteriorate and blow out of the air handler. The presence of moisture is also one of the key components of microbial growth.

Tri-Dek 15/40 Technical Data

SPECIFICATIONS

Product	Tri-Dek 15/40
Media	Synthetic, 3 deniers
Frame	Galvanized wire
Seal	Thermally generated (standard sizes)
Resistance	0.07" W.G. @ 125 FPM *(17 Pa @ 0.64 m/sec)* 0.18" W.G. @ 250 FPM *(45 Pa @ 1.27 m/sec)* 0.31" W.G. @ 375 FPM *(77 Pa @ 1.91 m/sec)* 0.46" W.G. @ 500 FPM *(114 Pa @ 2.54 m/sec)* 0.62" W.G. @ 625 FPM *(154 Pa @ 3.18 m/sec)*
Final resistance	1.0" W.G *(249 Pa)*

Meets ANSI/UL-900 requirements

OPTIONS

Link – Individual panels linked together to form a linked filter that will fit from 'door-to-door' and eliminates gaps and metal spacers.

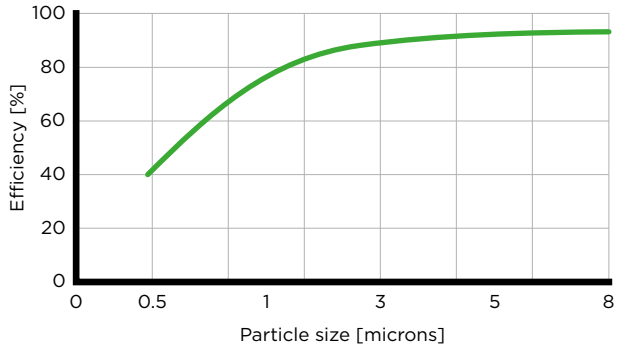
ALAP – A case of twenty-four linked panels.

Tri-Dek roll up – Panels filters are miniature sized to allow for use in tight spaces where a standard size filter cannot fit without being bent.

Antimicrobial treatment – EPA Approved treatment to control the growth of microbials within the filter.

TRI-DEK 15/40

Average efficiency vs Particle size



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

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