

The TRI-DEK® **REVOLUTION**



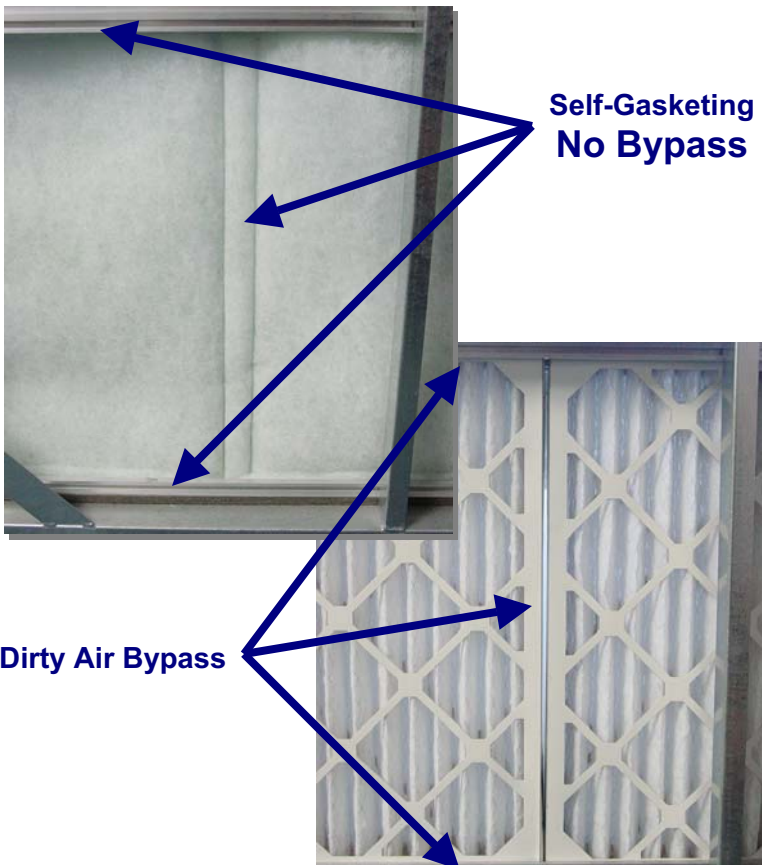
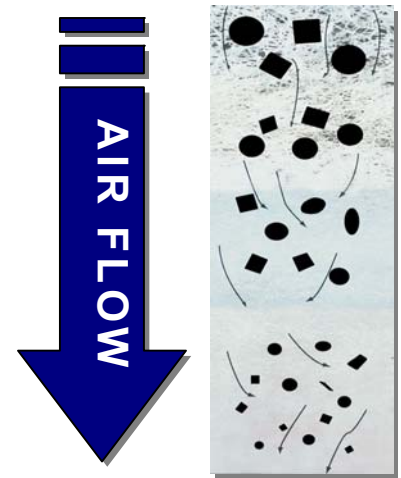


THE TRI-DEK® REVOLUTION

In 1968 Tri-Dim was founded by John Stanley, Tri-Dim's CEO and Chairman of the Board, to develop, manufacture and market filtration products by engineering medias from the ground up to be an air filter. This revolutionary approach generated the invention of TRI-DEK – the first depth loading synthetic media that was developed from the ground up as a filtration media. As a result of this 'ground-up' development, TRI-DEK medias utilize three principles of air filtration resulting in superior filter efficiency, extraordinary service life, moisture and mold resistance and a filter that eliminates air bypass.

TRI-DEK – HOW IT WORKS

TRI-DEK 15/40 media utilizes three different medias that are arranged from the coarsest to the finest – a depth loading arrangement allows for particulate to be captured throughout the depth of the media unlike 'strainer' type pleat media that typically utilizes only the surface to capture dirt. This difference is how the TRI-DEK 15/40, with a 'flat' panel construction, is able to outperform a pleat.



ADVANTAGE TRI-DEK – 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 self-gasket – unlike cardboard-framed filters that do not seal and therefore inherently allow unfiltered air to go around the filter.

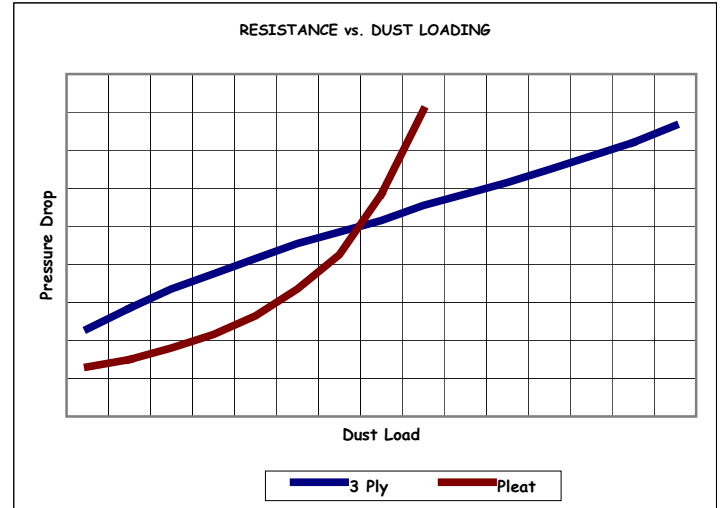
Dirty air bypass is one of the leading causes of coil fouling and can also result in reduced service life of expensive final filters. If only one filter bank is utilized unfiltered air bypass results in no protection from biological agents and microbial contaminants – both are important concerns in today's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

ADVANTAGE TRI-DEK – 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 right 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. There is dramatic savings in the extended service life – reduced filters to buy, shipping/storage cost, labor cost, disposal cost and more.



Two Pleats compared to Six TRI-DEK Panels



ADVANTAGE TRI-DEK – 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. The picture to the left shows two pleated filters in her right hand and six TRI-DEK panel filters in her left – that is a **67%** reduction in the number of trips to the air handler – and hard to reach air handlers just magnify the benefit of this feature.

ADVANTAGE TRI-DEK – MOISTURE AND MOLD RESISTANT

TRI-DEK media is resistant to moisture and microbial growth – much more so than cardboard framed pleated filters. The pictures to the right 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 utilizes no cardboard or other materials that hold moisture – in fact synthetic media and a galvanized internal wire support frame are the only materials utilized.



Moisture damage and microbial growth on pleated filters.

ADVANTAGE TRI-DEK – EASY CHANGE-OUT

TRI-DEK Linked Panels simplify the change out in larger side access systems. In larger systems all of the filters cannot be reached without the aid of a makeshift tool. This makes the filter change-out a hassle. However the linked panels can be easily and simply removed by a gentle tug – no more reaching and straining for the last filter. The TRI-DEK filters can then be folded up for easy disposal.



SPECIFICATIONS

MEDIA	Synthetic, 3 deniers
FRAME	Galvanized Wire
SEAL	Thermally generated

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)

UL CLASS 2 – per UL Standard 900

OPTIONS

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

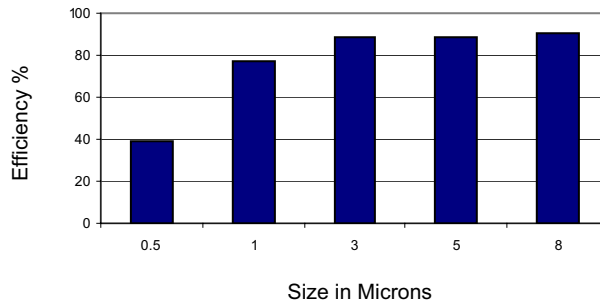
ALAP – A case of twenty-four linked panels.

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.

UL CLASS 1 – per UL Standard 900

AVERAGE EFFICIENCY 15/40 3-PLY



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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