





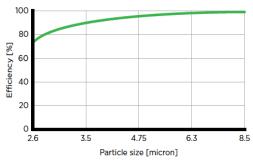
### **TRI-DEK D700**

MANN+HUMMEL Tri-Dek D700 diffusion media is designed to meet and exceed the high performance demands of today's high tech finishes and laminar flow spray booths. Tri-Dek D700 offers exceptional efficiency and superior laminar air flow characteristics and is the clear choice for today's sophisticated spray booths. Tri-Dek D700 is a nominal one inch thick synthetic media that is constructed utilizing graduated density to maximize dirt holding capacity and extended filter life. Tri-Dek D700 is rated to perform in conditions up to 212°F (100°C) with a minimum average removal efficiency of 99% on particles over 5 microns in size. Tri-Dek D700 also offers a very low initial resistance of 0.20 in. w.g. (50 Pa) at the rated air flow of 100 FPM (0.51 m/s). This low operating resistance equates to energy savings.

- Efficiency of 99% on > 5 micron size particles
- Initial resistance of 0.20 in. w.g. @ 100 FPM
- Available in rolls, pads and panels
- Also avaible in Tri-Dek D800 and D900
- Rated temperature up to 212 °F

### CONSTRUCTION

Fractional particle size removal efficiency



TRI-DEK D700 fractional particle size removal efficiency chart



### **TRI-DEK TR-1**

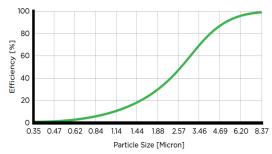
MANN+HUMMEL Tri-Dek TR-1 media and filters are designed for use in paint booth air make-up systems. The Tri-Dek TR-1 is engineered with a progressive density media that is treated with a exclusive tackifier to offer high efficiency, long service life and excellent prefiltration for high efficiency final filters. Tri-Dek TR-1 media also offers a very low initial resistance of 0.09 in. w.g. (22 Pa) at the rated air flow of 100 FPM (0.51 m/sec). This low operating resistance can provide significant energy savings for your system. Tri-Dek TR-1 also employs a non-migrating tackifier to eliminate particle migration through the media. The media has tackifier saturation for maximum efficiency and the elimination of particle and fiber migration.

- Efficiency of > 95% on 10 micron sized particles
- Initial resistance 0.09 in. w.g. @ 100 FPM for media pads or rolls
- Available in bulk rolls, media pads, panels or links
- Tackifier applied to eliminate particle migration
- One inch thickness on panel

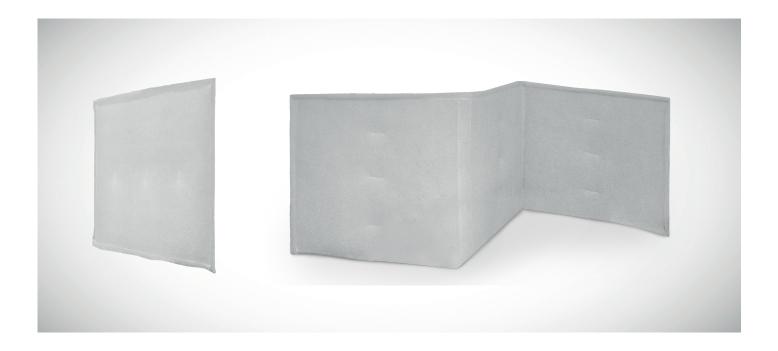
### **CONSTRUCTION**

### REMOVAL EFFICIENCY

vs Fractional Particle Size



TRI-DEK TR-1 removal efficiency vs. fractional particle size chart



### **TRI-DEK PANELS & LINKS**

Tri-Dek Panels and Links utilize three different medias that are arranged from the coarsest to the finest – this depth loading arrangement allows for particulates 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, with a 'flat' panel construction, is able to out perform a pleat. The Tri-Dek media also offers LEED® credits for efficiency and contains post-consumer recycled content. Tri-Dek Panels and Links eliminate the risk of unfiltered air bypass around or between filters or the filter and the filter rack. Tri-Dek Panels and Links utilize 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.

- MERV 6-8 efficiencies
- Self sealing to eliminate air bypass
- Moisture resistant
- Tackifier (available on 3 and 4-ply)
- Long service life



 $9\mbox{-}1/2$  gauge galvanized internal wire support and selvedge edge to eliminate bypass



### **TRI-DEK CUBES**

Tri-Dek Cube filters offer all the advantages of the Tri-Dek Panel and Link filters but with more surface area which translates into lower operating resistance, enhanced dust loading capacity and extended service life. The Tri-Dek media 'manages' the dirt by utilizing depth loading which allows for Tri-Dek Cube filters to outperform other filters. This translates into a significantly longer service life that is longer than traditional filters. There is dramatic savings in the extended service life – reduced filters to buy, shipping/storage cost, labor cost, disposal cost and more. Tri-Dek Cubes are available in a wide range of configurations, single or multiple pockets, self-sealing or metal header, optional antimicrobial, as well as media/efficiency options of 2-ply, 3-ply, 4-ply, MERV 11 and MERV 13.

- Depth loading synthetic media constructed as 2, 3 or 4 ply
- Self-sealing eliminates bypass
- Mold/moisture resistant
- Longer service life and reduced labor
- Available in high efficiency



No bypass



### **SELECT PA**

MANN+HUMMEL Select PA filters are designed for use in paint booth exhaust systems, including use in demanding applications. These filters are manufactured in a quality controlled manufacturing facility, ensuring the highest quality product, and is available in cut pads and bulk rolls with a wide range of standard and special sizes. Select PA is a two and one-half inch thick fiberglass media with a high holding capacity and high removal efficiencies. Tests have documented an average removal efficiency of a 99.3% on paint and a hold capacity of 949 grams. That is over two pounds of paint held in a single 20 in. x 20 in. pad.

- 2,700 grams paint holding capacity (20 in. x 20 in. pad)
- 0.02 in. w.g. initial resistance at 148 FPM
- 99.3% average removal efficiency
- Quality controlled manufacturing facility
- Fiberglass arrestor available in pads and rolls



Select PA resistance vs. air flow chart



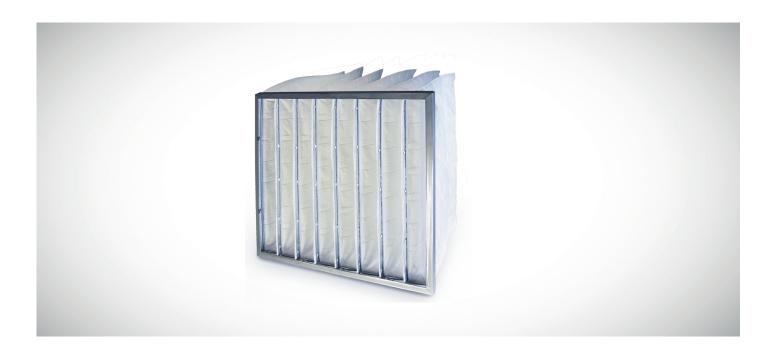
### **TRI-DEK PA**

MANN+HUMMEL Tri-Dek PA filters are designed for use in the demanding application of paint booth exhaust systems. The Tri-Dek PA is a one inch, multidenier synthetic media with a high holding capacity and high removal efficiencies. Tests have documented an average removal efficiency of a 99.5% on paint and a hold capacity of 1,875 grams. That is over four pounds of paint held in a single 20 in. x 20 in. pad. These filters are manufactured in a quality controlled manufacturing facility to ensure the highest quality product available. Tri-Dek PA is available in cut pads and bulk rolls, with a wide range of standard and special sizes.

- 99.6% average removal efficiency
- 2,100 grams paint holding capacity (20 in. x 20 in. pad)
- Synthetic media available in rolls or pads
- Initial resistance = 0.08 in. w.g. @ 148 FPM
- Quality controlled manufacturing facility



Tri-Dek PA resistance vs. air flow chart



### **PROPOCKET ULTRA**

The ProPocket Ultra HVAC bag filters are high efficiency, extended surface filters that feature progressive density synthetic media that offers high efficiency at a minimal resistance to air flow. These filters utilize an advanced dual layer melt blown media. The medias dual layers allow for depth loading – which means they manage dirt and debris by capturing larger particles on the 'prefilter' layer and having the second layer focus on removing the smaller 'target' particles. Depth loading results in much higher debris holding capacity – allowing for longer service life. The final layer of the ProPocket Ultra media is a spun bonded scrim backing that supports and protects the filter media. The combination of high removal efficiency and long service life makes the ProPocket Ultra a great value and an excellent choice for high humidity and moisture applications.

- Sonic sealed pockets
- Extended surface synthetic media
- Media backing provides durability
- Constructed in a controlled environment
- MERV 10, 12, 14 and 15



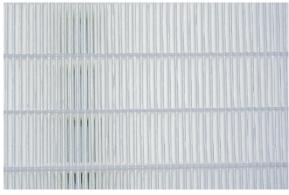
Pocket seal



### **VB4 ELITE & ULTRA**

The V-Bank Series, Elite and Ultra products are designed and tested to meet the requirements of High Purity critical manufacturing, commercial applications, and laboratories. They are ideal for use in variable-air-volume (VAV) systems due to their rigid nature. The VB4 Elite and Ultra V-Bank filters are beneficial due to their large media area, robust durability, low pressure drop and long service life. These filters also have a low Total Cost of Ownership (TCO) due to their high dust holding capacity. Available in 2V or 4V, the V-Bank Elite and Ultra filters are constructed with moisture-resistant, fiberglass or synthetic media and can be ordered as MERV 11, MERV 13, MERV 14, MERV 15 and MERV 16.

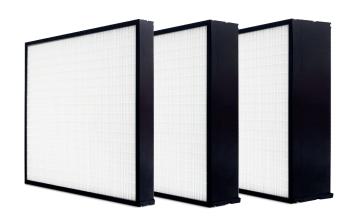
- Available in nominal 12" depth
- MERV 11, 13, 14, 15 & 16
- Available in 2V & 4V configurations
- High impact polystyrene (HIPS) frame
- Synthetic or fiberglass media
- Made in USA



Mini pleat media

# Additional Products Paint Booth Filtration





### **PROCELL PLUS HT**

- For high temperature applications
- Available MERV 11 and MERV 14 efficiencies
- Single and double header models available
- Up to 900° F

### **THIN LINE SERIES**

- Available in MERV 11, 13, 14, 15 and 16
- Available in 2 in., 4 in. and 6 in. depths
- Micro-fiber and synthetic media
- M16 available in 4 in. and 6 in. depths
- Temperature rating up to 175°F

MANN+HUMMEL is committed to continual product development – all descriptions, specifications and performance data are subject to change without notice. MANN+HUMMEL products are manufactured to exacting criteria – there can be a ±5% variance in filter performance.

### LOCAL REPRESENTATIVE

