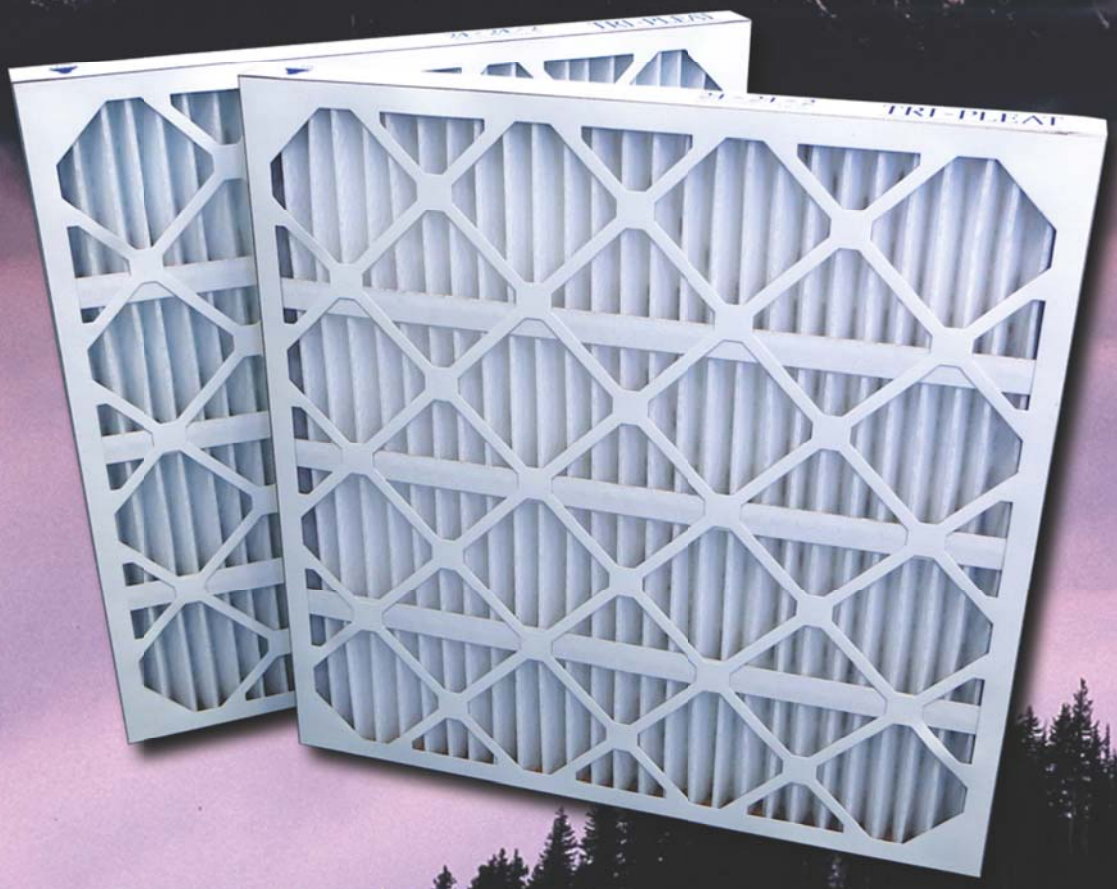
TRI-PLEAT XM10 MAX

TRI DIM
FILTER CORPORATION

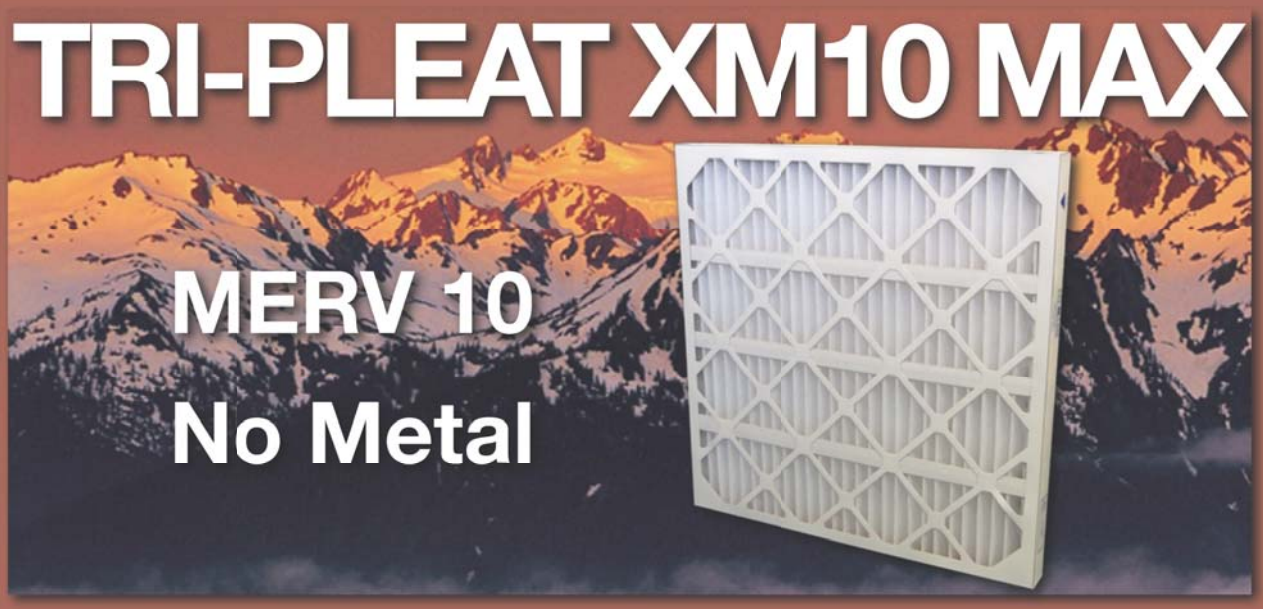
MERV 10



Mechanical Efficiency
Low Pressure Drop
No Metal

MECHANICAL

TRI-PLEAT XM10 MAX

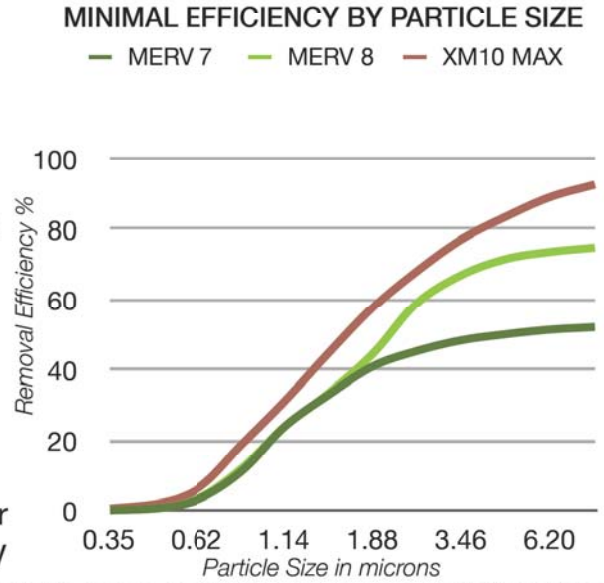


TRI-PLEAT XM10 MAX OFFERS THE ULTIMATE LEVEL OF PERFORMANCE

... mechanical MERV 10 performance, no metal content, and a low, energy saving pressure drop - exceeding all current performance by pleated air filters.

EFFICIENCY

The TRI-PLEAT XM10 MAX offers a mechanical MERV 10 efficiency. The graph to the right shows the XM10 MAX as well as a 'typical' MERV 7 and MERV 8 filter. Even though the differences may seem pretty insignificant - they can have a huge impact on airborne particle counts. Looking at particles in the 4.0-5.5 micron range we see that if all three filters are exposed to the same number of particles in this size range the MERV 8 will let 73% and the MERV 7 will let 205% more particles pass through the filter than the XM10 MAX. All of these particles are headed straight for the HVAC coils. There are plenty of studies that have documented that even a small amount of buildup on the coils can have a huge impact on the efficiency of the coils - as little as 0.006" of buildup can reduce heat transfer by 16%, other studies show dirty coils can reduce efficiency by as much as 37%. This can have a huge impact on how long the HVAC system has to run to heat or cool the space - costing a lot of energy dollars.



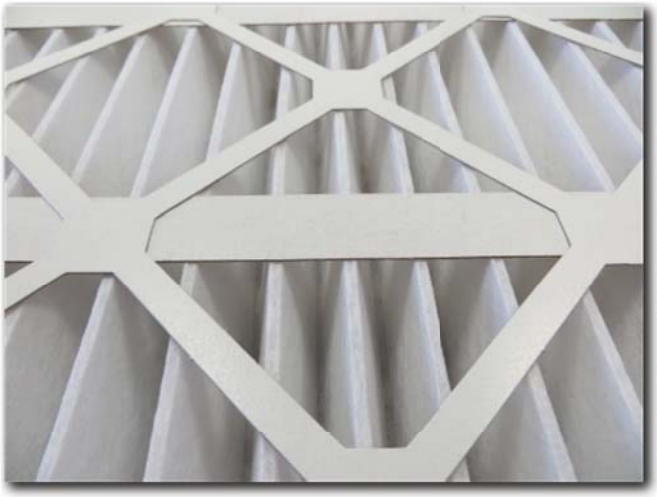
Particles Capture per 100,000

Particle Size	XM10 MAX	MERV 8	MERV 7
4.0-5.5	83,600	71,600	50,000
7.0-10.0	92,600	74,800	52,000

SUSTAINABLE

LOW PRESSURE DROP

TRI-PLEAT XM10 MAX offers low resistance 0.28"WG at 2000 CFM (for a 24x24x2) - this is up to 30% lower than similar products. This equals a significant reduction in operating resistance which can equal energy savings. The TRI-PLEAT XM10 MAX combination of high efficiency, MERV 10, and low resistance, lower than some competitive MERV 8 pleats, is unmatched among wireless pleats.



CONSTRUCTION

TRI-PLEAT XM10 MAX utilizes a moisture resistance die-cut frame with diagonal supports and horizontal strips bonded to the media pack for extra strength and to maintain proper pleat spacing. The pleat pack is bonded to a two piece frame. The media pack uses no metal and is exceptionally strong.

The XM10 MAX media pack can take significant abuse and still retain it's shape and pleat spacing. The XM10 MAX can withstand over four times its recommended final resistance during burst testing.

GREEN BENEFITS

The TRI-PLEAT XM10 MAX has many Green Benefits that have already been mentioned, i.e.- low resistance, in addition it utilizes no dyes or metal in its components and is completely incinerable. The XM10 MAX also has a MERV 10 efficiency, a substantial upgrade from the traditional MERV 7-8. This upgrade equates into cleaner coils, and as already discussed reduces energy usage. This reduced energy usage will translate into reduced CO_2 emissions of over 137 tons per 100 filters. There is additional CO_2 reductions in eliminating the metal backing. That comes to a reduction of 1.38 tons per filter per year - see chart to right.

Potential CO_2 Reductions per 100 Filters	
Cleaner Coils Energy Savings	137.3 tons
No Metal to Landfill	0.31 tons
Total	137.61

Specifications

PERFORMANCE

MEDIA Synthetic, Mechanical

FRAME 100% Reclaimed Fiber Moisture Resistant Die-Cut with Horizontal Strips - NO METAL

FINAL RESISTANCE 1.0" WG *(249 PA)*

RESISTANCE @ 500 FPM

2" Deep XM10 MAX Series = 0.28"WG *(70 PA)*
4" Deep XM10 MAX Series = 0.22"WG *(55 PA)*

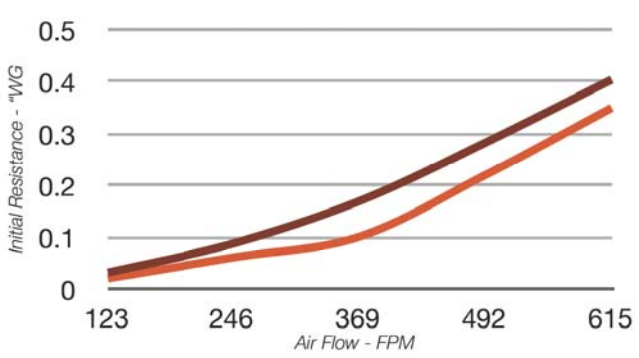
APPROX. SQ. FT. OF MEDIA *(per 1.0 Sq. Ft. of Filter Face Area)*

2" Deep XM10 MAX Series Pleat = 4.3 Sq. Ft.
4" Deep XM10 MAX Series Pleat = 5.9 Sq. Ft.

EFFICIENCY

MERV 10 per ASHRAE 52.2

Initial Pressure Drop vs. Air Flow Rate



TRI DIM

Local Representation:

Brochure # 900-10
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