



## MARK 7

*Self-Supported Pleated Panel Filters*



*Main Features:*

- **MERV 7 (Mechanical)**
- **100% Synthetic Media**
- **Self Supported**
- **Damage Resistant**
- **No Metal**
- **Fully Incinerable**

# MARK 7

Self-Supported Pleated Panel Filters

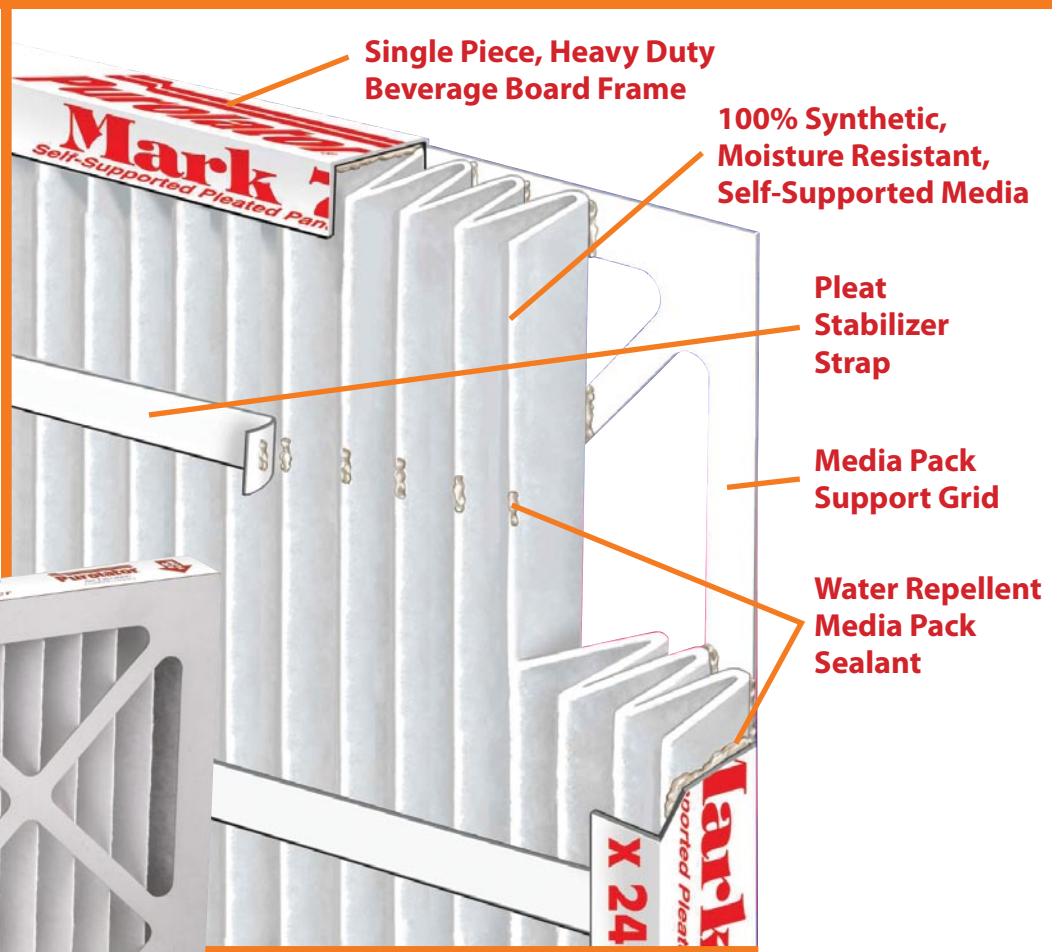
## Self-Supported Media Produces Totally Consistent Pleat Shape and Spacing

The inherent strength and stiffness of the unique Mark 7 media results in totally consistent pleat shape, pleat spacing and pleat height. Uniform pleat shape and spacing produce optimum performance, including uniform dirt loading, high dust holding capacity, long service life. No pleat bunching, no media blockage.



## Excellent Memory – No Pleat Deformation, Damage Resistant

The high strength, stiff media has excellent memory and resiliency. If it is damaged or deformed in any way, it snaps back to its original shape with no loss of structural integrity. Shipping and handling damage are largely a thing of the past with Mark 7 Pleats. They take a beating and keep on working.



*Consistent pleat shape and spacing allow dirt to collect evenly over the entire surface of the media. Pleat stabilizer straps add rigidity and maintain proper pleat spacing. Inset photo of air leaving side shows the integral media pack support grid.*

## Heavy Duty Single Piece Frame Reinforced with Pleat Stabilizer Straps

Mark 7 pleats are built tough to hold up in all types of operating conditions. The media pack is contained in a single piece beverage board frame for high moisture resistance and long service life. The frame has an integral media pack support grid on the air leaving side reinforced with pleat stabilizer straps on the air entering side.

The grid provides necessary support to the pleat pack as the dirt load builds and resistance rises. The stabilizer straps add rigidity to the filter assembly and maintain uniform pleat spacing to maximize dirt loading.

**Moisture Resistant,  
100% Synthetic Media (Uncharged)**

Mark 7 media is a unique blend of synthetic fibers formed into a rigid mat with high strength and high stiffness characteristics. The inherent strength provides rugged durability in operation. Stiffness allows totally consistent pleating. Blended fiber construction allows full depth loading for high dust holding capacity. The media is unaffected by high humidity or moisture and does not support microbial growth.

Mark 7 filter media operates totally on mechanical filtration principles which causes efficiency to increase as the filters load. It is not enhanced with an electrostatic charge.

**100% Adhesive Application –  
Assures Filter Integrity**

The inside of the die cut frame is completely coated with adhesive to assure a solid bond at all points of contact with the media pack. The pack is sealed inside the frame and the pleat tips are bonded to the stabilizers and diagonal support members.

**Water Repellent Adhesive –  
Adheres Even When Wet**

The sealant used to bond the frame and media pack into a unitized assembly is highly water repellent. The filters maintain structural integrity even when wet. No delaminating, no excessive buckling, no collapsing.

**No Metal Components.  
Fully Incinerable, No Rust**

Self-supported Mark 7 filters eliminate the need for a metal backing to shape the pleats. They are fully incinerable, simplifying disposal. Metal-free construction is rust-free and also eliminates sharp edges which could injure maintenance personnel.



*Exceeds ASHRAE  
Standard 62 air cleaning  
specifications for filters  
installed upstream of  
cooling coils.*

**It's all about Engineering  
with Imagination**

Mark 7 Pleats are the result of combining creative engineering with imagination. Through effective use of materials, media development and a breakthrough in automated assembly techniques, Mark 7 sets a new standard for pleated filter construction and performance.

# MARK 7

Self-Supported Pleated Panel Filters

Nominal Size <sup>2</sup> Inches (WxHxD)	Actual Size Inches (WxHxD)	Rated Air Flow Capacity (CFM)		
		300 FPM	500 FPM	625 FPM
10 x 20 x 2	9½ x 19½ x 1¾	425	700	870
12 x 20 x 2	11½ x 19½ x 1¾	500	840	1050
12 x 24 x 2	11¾ x 23¾ x 1¾	600	1000	1250
14 x 20 x 2	13½ x 19½ x 1¾	590	980	1220
14 x 25 x 2	13½ x 24½ x 1¾	730	1220	1525
14½ x 26¾ x 2	14½ x 26¾ x 1¾	810	1350	1690
15 x 20 x 2	14½ x 19½ x 1¾	630	1050	1310
16 x 20 x 2	15½ x 19½ x 1¾	670	1120	1400
16 x 24 x 2	15¾ x 23¾ x 1¾	800	1340	1670
16 x 25 x 2	15½ x 24½ x 1¾	840	1400	1750
18 x 20 x 2	17½ x 19½ x 1¾	750	1250	1570
18 x 24 x 2	17¾ x 23¾ x 1¾	900	1500	1875
18 x 25 x 2	17½ x 24½ x 1¾	940	1570	1960
20 x 20 x 2	19½ x 19½ x 1¾	840	1400	1750
20 x 24 x 2	19¾ x 23¾ x 1¾	1000	1670	2090
20 x 25 x 2	19½ x 24½ x 1¾	1050	1750	2170
24 x 24 x 2	23¾ x 23¾ x 1¾	1200	2000	2500
25 x 25 x 2	24½ x 24½ x 1¾	1310	2170	2720

- All performance data is based on the ASHRAE 52.2 Test Standard
- Filters may be installed with the pleats either vertical (preferred) or horizontal.

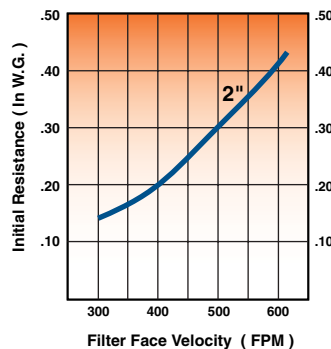
**Underwriters Laboratories, Inc. Classification:** Mark 7 filters are classified U.L. Class 2 per U.L. Standard 900.

**Operating Temperature Limits:** Maximum operating temperature is 150°F (65°C).

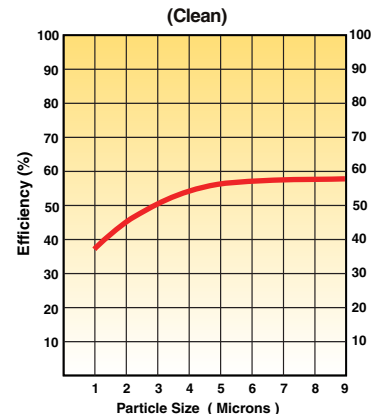
## Performance Data

MERV Rating.....7  
 Initial Resistance  
 @300 FPM .....14"  
 @500 FPM .....30"  
 Recommended  
 Final Resistance..... 1.0" W.G.

## Initial Resistance vs. Filter Face Velocity



## Efficiency by Particle Size



P-MARK7-407



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