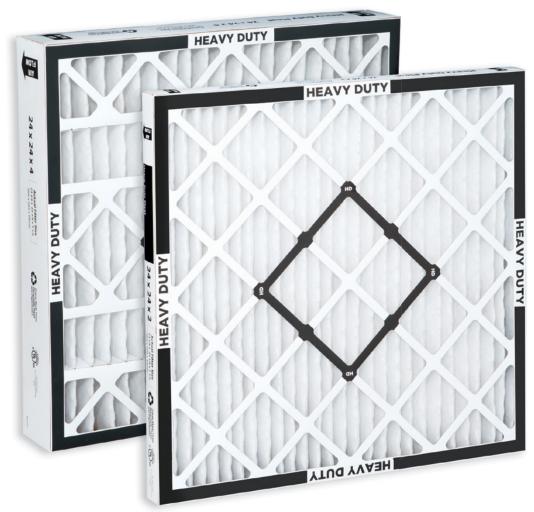


DEFiANT® Mark80-HD

Extended Surface Heavy Duty Pleated Filters



- MERV 9
- Low Initial Resistance and highest dust loading capacity
- Lasts up to 4X longer than standard commercial high capacity pleats
- Rugged design for the most demanding HVAC and process applications
- Quality engineered for consistent performance



The MERV 9 Defiant® Mark80-HD filter is the most durable pleated filter in the industry. Designed to withstand the most demanding commercial HVAC and process filtration environments, the Defiant Mark80-HD outperforms alternatives in efficiency, capacity and durability.

Defiant Mark80-HD will perform to MERV 9 throughout the life of the filter.

Media

- Low pressure drop and highest loading capacity for maximum performance and energy savings
- Lasts up to 4X longer than standard commercial high capacity pleats
- Mechanical efficiency achieves MERV 9 before and after filter conditioning
- Resistant to moisture and damage
- Independently tested and verified for performance and quality control
- Proprietary, 100% thermally bonded synthetic media

Construction

- Heavy duty construction for the most demanding HVAC and process air applications
- Moisture resistant beverage board frame, 30% higher in weight than standard commercial pleated filters
- Corrosion resistant, expanded galvanized steel wire backing, twice the thickness and weight of grids used in standard commercial pleated filters
- Two-piece frame provides rigidity with double-wall thickness around the outer edge
- Die-cut pattern provides 50% more contact points between media pack and frame, providing increased strength and rigidity
- 4" depth filters use die-cut finger separators to stabilize each pleat
- 100% water repellent, high strength adhesive coats entire interior surface of the frame, bonding frame with media pack

Heavy Duty Beverage Board Frame 100% Thermally Bonded Synthetic Media Media Pack Support Member Galvanized Steel Pleat Support Grid Water Repellent Adhesive Double Wall Frame

Pleat Consistency

Purolator™ uses sophisticated production control techniques to ensure consistent pleat count, height, shape, and spacing. This uniform spacing contributes to a better-performing pleat with low pressure drop, full depth dust loading, and longer service life.

Durability

The heavy duty media, die-cut frame and wire backing allow Defiant Mark80-HD to operate in the most demanding environments in HVAC and process air; elevated moisture conditions, high amounts of airborne dust, etc. This prevents delaminating, excessive buckling, collapsing, racking or warping. The wire backing maintains pleat shape and prevents deformation even in the most rugged conditions.

Compare

Compare the performance and value of Defiant Mark80-HD to other types of filters in the market, including disposables, ring panels, media pads and commercial grade pleats. The use of superior materials decreases filter change-outs and reduces energy consumption resulting in lower operating costs. It will outperform the alternatives in efficiency, capacity and durability.



Nominal Size	Actual Size	Rated Air Flow	Initial Resistance	Media Area
12x24x1	11-3/8 x 23-3/8 x 3/4	600	0.16	3.7
14x20x1	13-1/2 x 19-1/2 x 3/4	585	0.16	3.8
15x20x1	14-1/2 x 19-1/2 x 3/4	625	0.16	4.0
16x20x1	15-1/2 x 19-1/2 x 3/4	665	0.16	4.3
16x25x1	15-1/2 x 24-1/2 x 3/4	835	0.16	5.3
20x20x1	19-1/2 x 19-1/2 x 3/4	830	0.16	5.5
20x25x1	19-1/2 x 24-1/2 x 3/4	1040	0.16	6.9
24x24x1	23-3/8 x 23-3/8 x 3/4	1200	0.16	8.1
12x24x2	11-3/8 x 23-3/8 x 1-3/4	1000	0.28	8.6
16x20x2	15-1/2 x 19-1/2 x 1-3/4	1120	0.28	9.8
16x24x2	15-3/8 x 23-3/8 x 1-3/4	1340	0.28	11.7
16x25x2	15-1/2 x 24-1/2 x 1-3/4	1400	0.28	11.7
20x20x2	19-1/2 x 19-1/2 x 1-3/4	1400	0.28	12.4
20x24x2	19-3/8 x 23-3/8 x 1-3/4	1670	0.28	14.8
20x25x2	19-1/2 x 24-1/2 x 1-3/4	1750	0.28	15.5
20x30x2*	19-1/2 x 29-1/2 x 1-3/4	2085	0.28	18.6
24x24x2	23-3/8 x 23-3/8 x 1-3/4	2000	0.28	17.9
12x24x4	11-3/8 x 23-3/8 x 3-3/4	1000	0.23	12.4
16x20x4	15-1/2 x 19-1/2 x 3-3/4	1120	0.23	14.5
16x25x4	15-1/2 × 24-1/2 × 3-3/4	1400	0.23	18.3
20x20x4	19-1/2 x 19-1/2 x 3-3/4	1400	0.23	18.7
20x24x4	19-3/8 x 23-3/8 x 3-3/4	1670	0.23	22.4
20x25x4	19-1/2 x 24-1/2 x 3-3/4	1750	0.23	23.5
24x24x4	23-3/8 x 23-3/8 x 3-3/4	2000	0.23	27.4

^{*}Reverse Pleat Direction

- 1. Rated air velocity for 1" filters is 300 FPM. Rated air velocity for 2" and 4" filters is 500 FPM.
- 2. Defiant Mark80-HD is MERV 9 per ASHRAE standard 52.2-2012. Test data based on 295 FPM on 24x24x1 and 492 FPM on 24x24x2 and 24x24x4 size filters.
- 3. Filters may be installed with pleats either vertical (recommended) or horizontal.
- 4. Custom sizes are available.

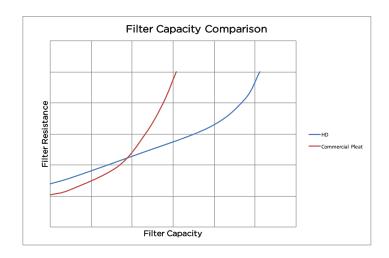


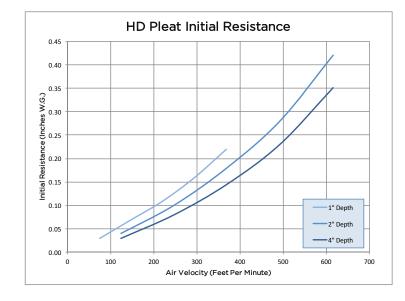
Value-Added Summary

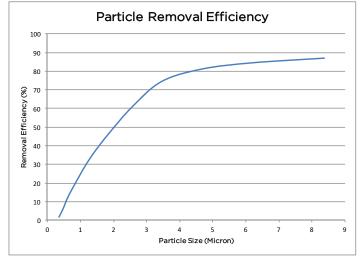
- · Low pressure drop with highest dust loading capacity
- Mechanical efficiency
- Water and moisture resistant media, frame and adhesive
- · Engineered for high strength, rigidity and durability
- Synthetic media does not support microbial growth

Applications

- Virtually any application or air handling system
- Built-up filter banks, central station air handlers, rooftop units, side access housings
- Pre-filters in multi-stage system for both HVAC and process air









WARNING: This product can expose you to chemicals, including acetaldehyde, antimony oxide, which are known to the State of California to cause cancer, and lead, methanol, which are known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

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Parker Hannifin Corporation **HVAC Filtration Division**100 River Ridge Circle

Jeffersonville, Indiana 47130
phone 866 247 4827

www.parker.com/HVAC

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