



quality . experience . service

**G-4**  
High Efficiency  
Pre-Filter

# G-4 High Efficiency Pre-Filter

DRB Industries' extended surface **High Efficiency Pre-Filters** come standard with 100% Synthetic electro-statically charged gradient density media, optimum pleat spacing and high quality construction. The **High Efficiency Pre-Filter** is designed to collect a preponderance of dust particulate (particle build up) prior to the air entering your Final Filter. The **High Efficiency Pre-Filter** has a double wall high wet strength heavy duty beverage board frame and the media packs are completely bonded to the frame with a metal support grid backing. Diagonal Stabilizer support grids are also bonded to the pleats to provide additional support and prevent pleat collapse.

The **High Efficiency Pre-Filter** has the performance characteristics that you would expect from a DRB Industries LLC product offering. A **High Efficiency Pre-Filter** with Low Initial Pressure Drop, High Dust Holding Capacity, and Extended Service Life, the **High Efficiency Pre-Filter** can last *up to 4 times longer* than standard pads or panel type filters. It is also easy to dispose of saving you maintenance labor costs. Installing **High Efficiency Pre-Filters** is the best protection for your Gas Turbine and will prolong the life of your Final Filters.



*Low Initial Pressure Drop,  
High Dust Holding  
Capacity, Extended  
Service Life*

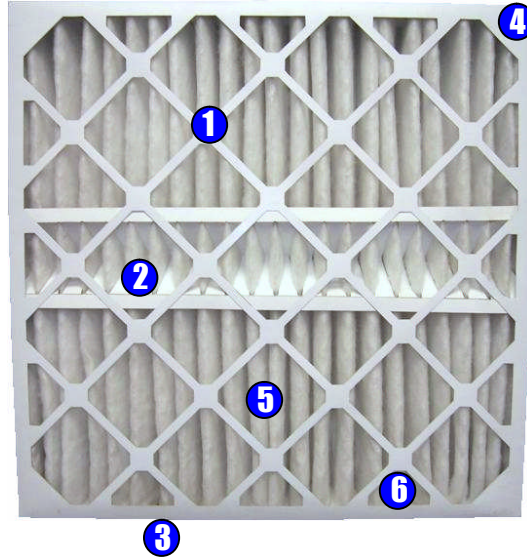
## Specifications

Part #	Size (mm)	Size (in)	MERV Rating	Media	Frame
PF-G4M82	594 x 594 x 48	24 x 24 x 2	8	100% Gradient Density Synthetic Media (Electrostatically Charged) with 30 gauge Media Support Medal Grid	High Wet Strength Double Wall Heavy Duty Beverage Board
PF-G4M84	594 x 594 x 95	24 x 24 x 4	8		
PF-G4M112	594 x 594 x 48	24 x 24 x 2	11		
PF-G4M114	594 x 594 x 95	24 x 24 x 4	11		
Square Feet of Media	Pleats	ASHRAE Efficiency	Initial Pressure Drop	Dust Holding Capacity	Air Flow (CFM)
Up to 28.4	Not less than 22 (+ / - 1 pleat)	(G4) >90%+	0.457" w.g.	1000 grams (SAE)	2500

# G-4 High Efficiency Pre-Filter

## Construction

- 1 Diagonal Support Members**  
Reinforced Diagonal Support Members add structural stability to the frame.
- 2 Pleat Separators**  
Separators allow even pleat separation to eliminate "fluttering" and allow consistent use of entire surface area of media.
- 3 Media Support Metal Grid**  
Moisture resistant Galvanized Metal Support Grid supports filter and adds structural stability to pleated media.



- 4 Die Cut Heavy Duty Beverage Board Double Wall Construction**  
90 weight, 28 count Heavy Duty Wet Strength Reinforced Beverage Board for greater moisture protection.
- 5 Pleated Media**  
Now with a more "lofty" high efficiency synthetic filter media. 1000 grams of dust holding capacity – highest in the industry.
- 6 Media Bonding Adhesive**  
Media Bonding Adhesive to ensure structural integrity and filter media adherence bonding.

## Test Results (Merv 11)

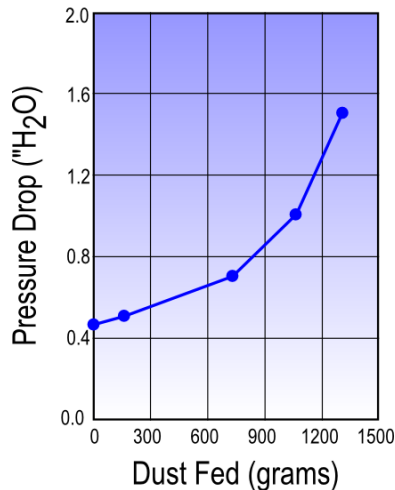
Testing by: *LMS Technologies, Inc*

Dust Fed	Pressure Drop
0.00	0.457
150.0	0.512
750.0	0.724
1050.0	1.000
1300.0	1.500

Dust Fed	% Arrestance
150.0	66.0
750.0	80.0
1050.0	82.0
1300.0	82.8

Sample ID	Pre-Filter
Test Type	Loading
Test Aerosol	SAE Fine Dust
Flow	2500 cfm
Size	24" x 24" x 4"
Dust Fed	2 grams / 1000 cfm
Arrestance	80%
Holding Capacity @ 1.5"	1029.6 grams

Dust Fed vs. Pressure Drop



Dust Fed vs. % Arrestance

