




Revolution Pocket Filters MERV 16

100% Mechanical Filter with Extended Surface Pockets

With a unique proprietary synthetic depth-loading media utilizing pre-formed pocket waves in the manufacturing process, the effective media area is increased by more than 2.4x in the same space. This proprietary manufacturing process greatly enhances the dust holding capacity. The unique synthetic fiber matrix will not lose its efficiency compared to other synthetic or “electrostatic” pocket or bag filters used in the market.



BENEFITS

-  2.4x more effective media area for a 15-30% lower pressure drop
-  High DHC (790 gms) with Low IR (0.34”) for a 8 pocket 22” depth filter
-  40% estimated energy savings after 1 year of usage

APPLICATIONS

- Industrial environments where sustained performance & high dust-holding capacity is required
- Surface Finishing Plants
- Telecommunications Stations
- Pharmaceutical Plants
- Food Processing Plants
- General HVAC Systems
- Data Centers
- Hospitals

Performance	Results
Pressure Drop @ 1,968 CFM	0.34” w.g. (124.5 Pa)
Particle Size Efficiency @ 5µm	100%
100% Burst Strength Pressure Test	12.0” w.g. (3000 Pa)
Sustainable Efficiency:	ASHRAE MERV 16
Dust Hold Capacity	791 grams @ 1.50” w.g.

		PM1 _{52.2}	PM2.5 _{52.2}	PM10 _{52.2}
US AQI Efficiency	MERV 16	98	98	98
	MERV 15	90	91	93
	MERV 14	80	85	88
	MERV 13	63	75	81
Particles	MERV 12	43	63	72
	MERV 11	28	50	63
	MERV 10	15	36	52
	MERV 9	8	25	43
	MERV 8	5	16	35
	NO2			
	O3			
	SO2			
Gases	CO			

The Revolution Pocket Filters have been tested to ASHRAE 52.2-2012 Appendix J



BENEFITS

- Galvanized header ensures rigidity while providing leak-proof design
- “Sustainable filter” - will not lose efficiency during operational life
- Low pressure drop (ΔP)
- Patented dust pocket waves throughout media
- High dust holding capacity
- V formed heat-sealed pockets for better air flow
- 100% RH resistance
- Maximum emperature 140°F (60°C)



Nano Wave Media



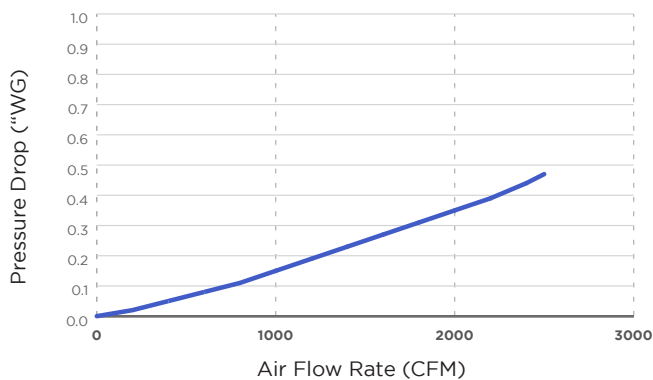
Performance Technical Data

Model Number	MERV Rating EN779	Actual Dimensions Inches (mm)			Capacity CFM (m ³ /hr)	Initial Pressure Drop inches w.g. (Pa)	Pockets	Efficiency
		Width	Height	Depth				
Revolution RV1624242208	16	23- 5/16" (592)	23- 5/16" (592)	22" (559)	2,000 (3,400)	0.34" w.g. (84.7 Pa)	8	58 ft ² 5.39 m ²
Revolution RV1612242204	16	11- 5/16" (287)	23- 5/16" (592)	22" (559)	1,000 (1,700)	0.34" w.g. (84.7 Pa)	4	29 ft ² 2.69 m ²

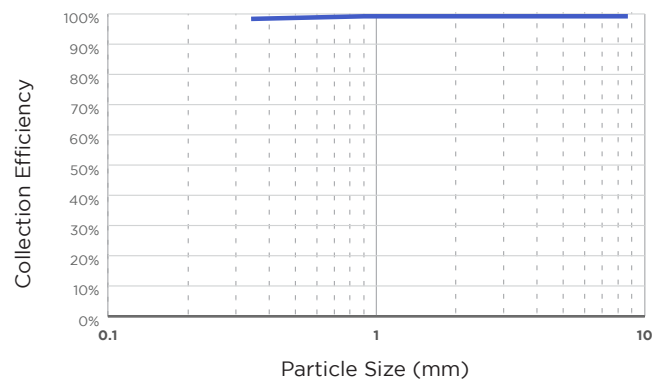
Product Shipping & Packaging Information

Filter Size	Actual Dimensions Inches (mm)			Weight Lbs (kg)	Packaging	Carton Dimensions Inches (mm)
	Width	Height	Depth			
Revolution RV1624242208	23- 5/16" (592)	23- 5/16" (592)	22" (559)	6.5 lbs (2.95 kg)	4 per carton	25"x25"x12" (635x635x305)
Revolution RV1612242204	11- 5/16" (287)	23- 5/16" (592)	22" (559)	3.75 lbs (1.70 kg)	4 per carton	12"x25"x12" (305x635x305)
Revolution RV1624242608	23- 5/16" (592)	23- 5/16" (592)	26" (660)	7 lbs (3.18 kg)	4 per carton	25"x25"x12" (635x635x305)
Revolution RV1612242604	11- 5/16" (287)	23- 5/16" (592)	26" (660)	4 lbs (1.81 kg)	4 per carton	12"x25"x12" (305x635x305)

Pressure Drop Curve



Particle Size Efficiency



For questions and orders contact
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or Air Filters Inc. at sales@airfilterusa.com

Filter Performance Data Notes:

1. Pressure drop represents inches of water (0.34" w.g.) for a 22" depth filter with the filter being in a clean condition at 2,000 CFM. Final pressure drop is recommended to 1.5" w.g., however, it is recommended that the pressure drop change should be selected on the basis of life cycle costing that optimizes the best energy savings in HVAC systems.
2. Efficiency is based upon ASHRAE Test Standard 52.2-2012 Appendix J.