BEHRINGER®

MERV 8 Extended Surface Pleat

Standard Capacity

Behringer's extended surface area pleated filters are medium efficiency panel filters manufactured using heavy duty moisture-resistant beverage board frames that are coated with adhesive and bonded to the media to prevent air bypass. The 100% synthetic filter media is made of thermally bonded, continuous hydrophobic polyolefin material that will not shed fibers or absorb moisture. The filters are electrostatically charged, which provides higher initial efficiency with reduced resistance to airflow. No chemical binders are used during the manufacturing process. The MERV 8 Extended Surface Pleats are MERV 8 rated according to ASHRAE 52.2 standards.



Features and Benefits

- Electrostatically charged synthetic media
- Moisture-resistant beverage board frame
- High dust-holding capacity
- 30% More efficient than fiberglass panels
- Low resistance to airflow
- Does not promote microbial growth
- Available in 1", 2", and 4" depths
- 100% Synthetic media material

Understanding MERV Ratings

Standard 52.2 Minimum Efficiency Reporting Value (MERV)	Composite Average Particle Size Efficiency, % in Size Range, µm			Typical Controlled Contaminant
	Range 1 0.30 to 1.0	Range 2 1.0 to 3.0	Range 3 3.0 to 10.0	
16	$95 \le E_1$	$95 \le E_2$	$95 \le E_3$	**0.3 to 1.0 um Particle Size** All bacteria, Most tobacco smoke, Droplet nuclei (sneeze), Cooking oil, Most smoke, Insecticide dust, Copier toner, Most face powder, Most paint pigments
15	$85 \le E_1$	$90 \le E_2$	$95 \le E_3$	
14	$75 \le E_1$	$90 \le E_2$	$95 \le E_3$	
13	$50 \le E_1$	$85 \le E_2$	$90 \le E_3$	
12	$35 \le E_1$	$80 \le E_2$	$90 \le E_3$	**1.0 to 3.0 um Particle Size** Legionella, Humidifier dust, Lead dust, Milled flour, Coal dust, Auto emissions, Nebulizer drops, Welding fumes
11	$20 \le E_1$	$65 \le E_2$	$85 \le E_3$	
10	N/A	$50 \le E_2$	$80 \le E_3$	
9	N/A	$35 \le E_2$	$75 \le E_3$	
8	N/A	$20 \le E_2$	$70 \le E_3$	**3.0 to 10.0 um Particle Size** Mold spores, Hair Spray, Cement dust, Powdered milk, Pudding mix, Dusting aids

Technical Information

Part Numbers

1" Depth Extended Surface Pleat Filters						
Behringer Part Number	Size (inches)	Actual Dimensions (inches) H	W	D	Velocity (fpm)	Airflow (cfm)
BPF10101-8	10x10x1	9.5	9.5	0.88		200
BPF10201-8	10x20x1	9.5	19.5	0.88		425
BPF12121-8	12x12x1	11.5	11.5	0.88		300
BPF12201-8	12x20x1	11.5	19.5	0.88		500
BPF12241-8	12x24x1	11.38	23.38	0.88		600
BPF14141-8	14x14x1	13.5	13.5	0.88		425
BPF14201-8	14x20x1	13.5	19.5	0.88		575
BPF14241-8	14x24x1	13.5	23.38	0.88		700
BPF14251-8	14x25x1	13.5	12.5	0.88		725
BPF14301-8	14x30x1	13.5	29.5	0.88		875
BPF15201-8	15x20x1	14.5	19.5	0.88		625
BPF16161-8	16x16x1	15.5	15.5	0.88		550
BPF16201-8	16x20x1	15.5	19.5	0.88		675
BPF16241-8	16x24x1	15.5	23.5	0.88	300	800
BPF16251-8	16x25x1	15.5	24.5	0.88		850
BPF16301-8	16x30x1	15.5	29.5	0.88		1000
BPF18181-8	18x18x1	17.5	17.5	0.88		675
BPF18201-8	18x20x1	17.5	19.5	0.88		750
BPF18241-8	18x24x1	17.38	23.38	0.88		900
BPF18251-8	18x25x1	17.5	24.5	0.88		950
BPF20201-8	20x20x1	19.5	19.5	0.88		850
BPF20241-8	20x24x1	19.38	23.38	0.88		1000
BPF20251-8	20x25x1	19.5	24.5	0.88		1000
BPF20301-8	20x30x1	19.5	29.5	0.88		1250
BPF24241-8	24x24x1	23.38	23.38	0.88		1200
BPF24301-8	24x30x1	23.5	29.5	0.88		1500
BPF25251-8	25x25x1	24.5	24.5	0.88		1300

2" Depth Extended Surface Pleat Filters						
Behringer Part Number	Size (inches)	Actual Dimensions (inches) H	W	D	Velocity (fpm)	Airflow Capacity
BPF10202-8	10x20x2	9.5	19.5	1.75		700
BPF12122-8	12x12x2	11.5	11.5	1.75		500
BPF12202-8	12x20x2	11.5	19.5	1.75		850
BPF12242-8	12x24x2	11.38	23.38	1.75		1000
BPF14202-8	14x20x2	13.5	19.5	1.75		975
BPF14242-8	14x24x2	13.5	23.38	1.75		1175
BPF14252-8	14x25x2	13.5	24.5	1.75		1225
BPF15202-8	15x20x2	14.5	19.5	1.75		1050
BPF16162-8	16x16x2	15.5	15.5	1.75		900
BPF16202-8	16x20x2	15.5	19.5	1.75		1125
BPF16242-8	16x24x2	15.5	23.5	1.75		1350
BPF16252-8	16x25x2	15.5	24.5	1.75	500	1400
BPF18182-8	18x18x2	17.5	17.5	1.75		1125
BPF18202-8	18x20x2	17.5	19.5	1.75		1250
BPF18242-8	18x24x2	17.38	23.38	1.75		1500
BPF18252-8	18x25x2	17.5	24.5	1.75		1575
BPF20202-8	20x20x2	19.5	19.5	1.75		1400
BPF20242-8	20x24x2	19.38	23.38	1.75		1675
BPF20252-8	20x25x2	19.5	24.5	1.75		1750
BPF20302-8	20x30x2	19.5	29.5	1.75		2100
BPF24242-8	24x24x2	23.38	23.38	1.75		2000
BPF24302-8	24x30x2	23.5	29.5	1.75		2500
BPF25252-8	25x25x2	24.5	24.5	1.75		2175

4" Depth Extended Surface Pleat Filters						
Behringer Part Number	Size (inches)	Actual Dimensions (inches) H	W	D	Velocity (fpm)	Airflow Capacity
BPF12244-8	12x24x4	11.38	23.38	3.75		1000
BPF16204-8	16x20x4	15.5	19.5	3.75		1125
BPF16254-8	16x25x4	15.5	24.5	3.75		1400
BPF18244-8	18x24x4	17.38	23.38	3.75	500	1500
BPF20204-8	20x20x4	19.5	19.5	3.75		1400
BPF20244-8	20x24x4	19.38	23.38	3.75		1675
BPF20254-8	20x25x4	19.5	24.5	3.75		1750
BPF24244-8	24x24x4	23.38	23.38	3.75		2000

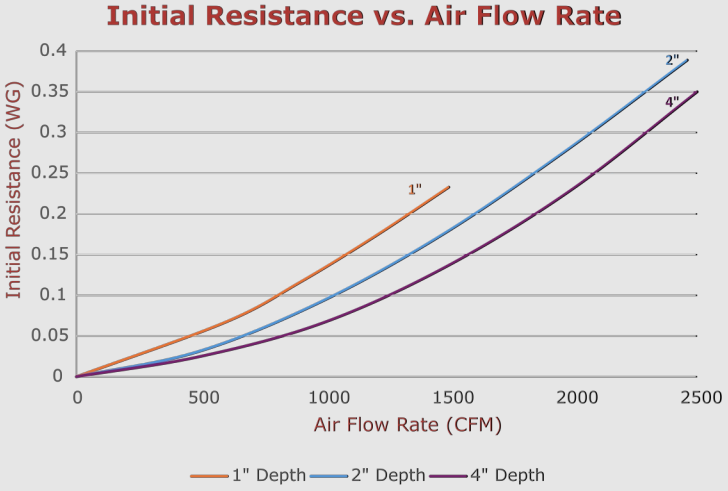
Specifications

Filter Depth	Velocity (FPM)	Air Flow Rate (CFM)	Initial Resistance (in. w.g.)	Pleats per Linear Foot
1"	300	1200	0.172	14
2"	500	2000	0.277	10
4"	500	2000	0.231	8

Technical Data

Filter Media	100% Synthetic Material
Media Efficiency	MERV 8, ASHRAE 52.2
Media Support	Wire Mesh on Downstream Side
Frame	High Wet Strength Beverage Board
Rec. Change-Out	1.0" w.g. Final Resistance
Maximum Temperature	200 °F (93 °C)

Performance



Technical Notes:

1. Pleated panels are constructed of 100% synthetic filter material.
2. Filter media is bonded to the coated frame using adhesive to prevent air bypass.
3. Filters are MERV 8 when tested in accordance with ASHRAE 52.2 testing standards.
4. Frames are constructed of high strength moisture-resistant beverage board materials.
5. 1" and 2" depth filters are supplied 12/case. 4" depth filters are supplied 6/case.

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