BEHRINGER®

MERV 8HC Extended Surface Pleat

High Capacity

Behringer's MERV 8 high capacity pleated filters incorporate additional pleats to increase dust holding capacity and filter life. The filters are 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. The MERV 8 high capacity filters are MERV 8 rated according to ASHRAE 52.2 standards.



Features and Benefits

- Electrostatically charged synthetic media
- Moisture-resistant beverage board frame
- Increased 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)			Velocity (fpm)	Airflow (cfm)
		H	W	D		
BPF10101-8HC	10x10x1	9.5	9.5	0.88	300	200
BPF10201-8HC	10x20x1	9.5	19.5	0.88		425
BPF12121-8HC	12x12x1	11.5	11.5	0.88		300
BPF12201-8HC	12x20x1	11.5	19.5	0.88		500
BPF12241-8HC	12x24x1	11.38	23.38	0.88		600
BPF14141-8HC	14x14x1	13.5	13.5	0.88		425
BPF14201-8HC	14x20x1	13.5	19.5	0.88		575
BPF14241-8HC	14x24x1	13.5	23.38	0.88		700
BPF14251-8HC	14x25x1	13.5	12.5	0.88		725
BPF15201-8HC	15x20x1	14.5	19.5	0.88		625
BPF16161-8HC	16x16x1	15.5	15.5	0.88		550
BPF16201-8HC	16x20x1	15.5	19.5	0.88		675
BPF16241-8HC	16x24x1	15.5	23.5	0.88		800
BPF16251-8HC	16x25x1	15.5	24.5	0.88		850
BPF16301-8HC	16x30x1	15.5	29.5	0.88		1000
BPF18181-8HC	18x18x1	17.5	17.5	0.88		675
BPF18201-8HC	18x20x1	17.5	19.5	0.88		750
BPF18241-8HC	18x24x1	17.38	23.38	0.88		900
BPF20201-8HC	20x20x1	19.5	19.5	0.88		850
BPF20241-8HC	20x24x1	19.38	23.38	0.88		1000
BPF20251-8HC	20x25x1	19.5	24.5	0.88		1000
BPF20301-8HC	20x30x1	19.5	29.5	0.88		1250
BPF24241-8HC	24x24x1	23.38	23.38	0.88		1200
BPF24301-8HC	24x30x1	23.5	29.5	0.88		1500
BPF25251-8HC	25x25x1	24.5	24.5	0.88		1300

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

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

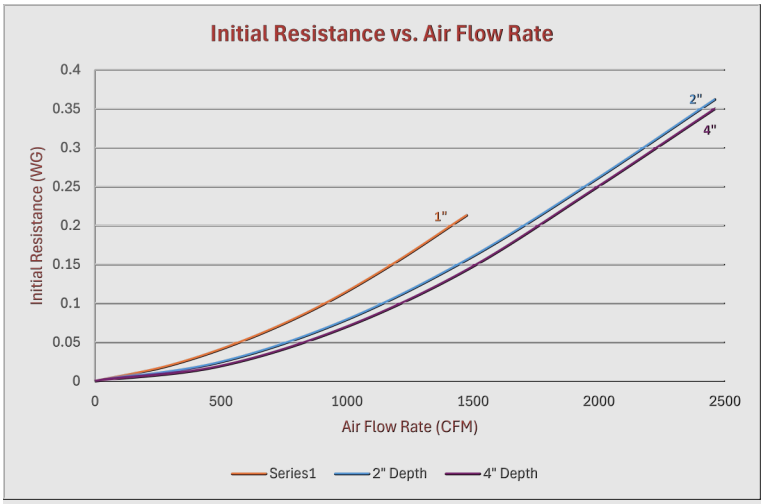
Specifications

Filter Depth	Velocity (FPM)	Air Flow Rate (CFM)	Initial Resistance (in. w.g.)	Pleats per Linear Foot
1"	300	1200	0.150	16
2"	500	2000	0.255	15
4"	500	2000	0.244	11

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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