

# BAG FILTER

## HIGH EFFICIENCY FILTER



### HIGHLIGHTS

- Low pressure drop
- Synthetic and Fiberglass Media available
- Loops available upon request
- MERV 9, 11, 13, and 14
- 24 gauge galvanized frame
- UL Classified

**APPLICATION** The Smith Bag Filter Filter provides high-efficiency filtration where a clean air environment is a necessity. This includes Hospitals, Laboratories, Office Buildings, Food and Beverage Processing Plants. etc. Greater dust holding capacity means the longer service life and lower operating costs. Greater efficiency means cleaner air and reduced maintenance costs. Smith's Bag Filter excels in both of these performance characteristics.

**CONSTRUCTION** The Smith Bag Filter is an extended surface high capacity air filter consisting of multiple sewn pockets supported by a corrosion-resistant 24 gauge galvanized header frame. The filter pockets are constructed of either synthetic media or ultra-fine fiberglass media. The pockets are ultrasonically sealed stitched.



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## PERFORMANCE DATA

ASHRAE EFFICIENCY	NOMINAL SIZE W X H X D (INCHES)	RATED AIR FLOW CAPACITY (CFM)			RATED INITIAL RESISTANCE (W.G)			MEDIA AREA (SQ. FT.)
		LOW	MEDIUM	HIGH	LOW	MEDIUM	HIGH	
<b>6 POCKET</b>								
<b>40-45% MERV 9 TAN</b>	12 x 24 x 10	800			0.21			11.7
	20 x 20 x 10	1050						17.4
	20 x 24 x 10	1250						19.4
	24 x 24 x 10	1600						23.3
	12 x 24 x 15	1000			0.22			17.5
	20 x 20 x 15	1300						26
	20 x 24 x 15	1500						29.2
	24 x 24 x 15	2000						35
	12 x 24 x 18	1250			0.27			21
	20 x 20 x 18	1750						31.3
	20 x 24 x 18	2000						35
	24 x 24 x 18	2500						42
	12 x 24 x 22	1500			0.33			25.7
	20 x 20 x 22	2000						38.2
	20 x 24 x 22	2500						42.8
	24 x 24 x 22	3000						51.3
<b>60-65% MERV 11 ORANGE</b>	12 x 24 x 22	500	625	750	0.12			25
	20 x 20 x 22	750	1000	1250				34
	20 x 24 x 22	750	1000	1250				39
	24 x 24 x 22	1000	1250	1500				47
	12 x 24 x 30	500	750	1000	0.10			34
	20 x 20 x 30	800	1200	1600				48
	20 x 24 x 30	800	1200	1600				54
	24 x 24 x 30	1000	1500	2000				65
	12 x 24 x 36	500	750	1000	0.08			42
	20 x 20 x 36	800	1200	1600				58
	20 x 24 x 36	800	1200	1600				67
	24 x 24 x 36	1000	1500	2000				82
<b>80-85% MERV 13 PINK</b>	12 x 24 x 22	500	625	750	0.14			25
	20 x 20 x 22	750	1000	1250				34
	20 x 24 x 22	750	1000	1250				39
	24 x 24 x 22	1000	1250	1500				47
	12 x 24 x 30	500	750	1000	0.14			34
	20 x 20 x 30	800	1200	1600				48
	20 x 24 x 30	800	1200	1600				54
	24 x 24 x 30	1000	1500	2000				65
	12 x 24 x 36	500	750	1000	0.12			42
	20 x 20 x 36	800	1200	1600				58
	20 x 24 x 36	800	1200	1600				67
	24 x 24 x 36	1000	1500	2000				82
<b>90-95% MERV 14 YELLOW</b>	12 x 24 x 22	500	625	750	0.20			25
	20 x 20 x 22	750	1000	1250				34
	20 x 24 x 22	750	1000	1250				39
	24 x 24 x 22	1000	1250	1500				47
	12 x 24 x 30	500	750	1000	0.25			34
	20 x 20 x 30	800	1200	1600				48
	20 x 24 x 30	800	1200	1600				54
	24 x 24 x 30	1000	1500	2000				65
	12 x 24 x 36	500	750	1000	0.20			42
	20 x 20 x 36	800	1200	1600				58
	20 x 24 x 36	800	1200	1600				67
	24 x 24 x 36	1000	1500	2000				82

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ASHRAE EFFICIENCY	NOMINAL SIZE W X H X D (INCHES)	RATED AIR FLOW CAPACITY CFM			RATED INITIAL RESISTANCE (W.G)			MEDIA AREA (SQ. FT.)
		LOW	MEDIUM	HIGH	LOW	MEDIUM	HIGH	
<b>8 POCKET</b>								
<b>60-65% MERV 11 ORANGE</b>	12 x 24 x 22	500	750	1000	0.08	0.13	0.18	30
	20 x 24 x 22	800	1200	1600				52
	24 x 24 x 22	1000	1500	2000				58
	12 x 24 x 30	750	1000	1250	0.13	0.23	0.33	40
	20 x 24 x 30	1200	1600	2000				70
	24 x 24 x 30	1500	2000	2500				79
	12 x 24 x 36	750	1000	1250	0.10	0.18	0.28	50
	20 x 24 x 36	1200	1600	2000				79
	24 x 24 x 36	1500	2000	2500				98
<b>80-85% MERV 13 PINK</b>	12 x 24 x 22	500	750	1000	0.18	0.28	0.43	30
	20 x 24 x 22	800	1200	1600				52
	24 x 24 x 22	1000	1500	2000				58
	12 x 24 x 30	750	1000	1250	0.23	0.33	0.48	40
	20 x 24 x 30	1200	1600	2000				70
	24 x 24 x 30	1500	2000	2500				79
	12 x 24 x 36	750	1000	1250	0.18	0.28	0.43	50
	20 x 24 x 36	1200	1600	2000				79
	24 x 24 x 36	1500	2000	2500				98
<b>90-95% MERV 14 YELLOW</b>	12 x 24 x 22	500	750	1000	0.33	0.43	0.58	30
	20 x 24 x 22	800	1200	1600				52
	24 x 24 x 22	1000	1500	2000				58
	12 x 24 x 30	750	1000	1250	0.38	0.48	0.68	40
	20 x 24 x 30	1200	1600	2000				70
	24 x 24 x 30	1500	2000	2500				79
	12 x 24 x 36	750	1000	1250	0.33	0.43	0.58	50
	20 x 24 x 36	1200	1600	2000				79
	24 x 24 x 36	1500	2000	2500				98

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ASHRAE EFFICIENCY	NOMINAL SIZE W X H X D (INCHES)	RATED AIR FLOW CAPACITY CFM			RATED INITIAL RESISTANCE (W.G)			MEDIA AREA (SQ. FT.)
		LOW	MEDIUM	HIGH	LOW	MEDIUM	HIGH	
<b>10 POCKET</b>								
<b>60-65% MERV 11 ORANGE</b>	12 x 24 x 22	500	750	1000	0.15	0.20	0.30	35
	20 x 24 x 22	800	1200	1600				56
	24 x 24 x 22	1000	1500	2000				70
	12 x 24 x 30	750	1000	1250	0.15	0.25	0.40	48
	20 x 24 x 30	1200	1600	2000				75
	24 x 24 x 30	1500	2000	2500				96
	12 x 24 x 36	1000	1250	1500	0.30	0.35	0.45	60
	20 x 24 x 36	1600	2000	2400				96
	24 x 24 x 36	2000	2500	3000				120
<b>80-85% MERV 13 PINK</b>	12 x 24 x 22	500	750	1000	0.20	0.30	0.40	35
	20 x 24 x 22	800	1200	1600				56
	24 x 24 x 22	1000	1500	2000				70
	12 x 24 x 30	750	1000	1250	0.25	0.35	0.50	48
	20 x 24 x 30	1200	1600	2000				75
	24 x 24 x 30	1500	2000	2500				96
	12 x 24 x 36	1000	1250	1500	0.35	0.45	0.55	60
	20 x 24 x 36	1600	2000	2400				96
	24 x 24 x 36	2000	2500	3000				120
<b>90-95% MERV 14 YELLOW</b>	12 x 24 x 22	500	750	1000	0.35	0.45	0.60	35
	20 x 24 x 22	800	1200	1600				56
	24 x 24 x 22	1000	1500	2000				70
	12 x 24 x 30	750	1000	1250	0.35	0.50	0.70	48
	20 x 24 x 30	1200	1600	2000				75
	24 x 24 x 30	1500	2000	2500				96
	12 x 24 x 36	1000	1250	1500	0.45	0.60	0.80	60
	20 x 24 x 36	1600	2000	2400				96
	24 x 24 x 36	2000	2500	3000				120