

Prime10

Standard & High Capacity Pleated Filters

OVERVIEW

The Prime10 is an extended surface, pleated air filter, created to provide high efficiency and low pressure drop. The Prime10 is available in standard capacity as well as high capacity (Prime10HC). As an extended-surface air filter, the Prime10, performs at superior levels in comparison to standard pleated filters. The Prime10 has a MERV 10 rating per ASHRAE Test Standards 52.2 and is pending UL 900 classification.

Upgrading to the Prime10 from a MERV 8 pleated air filter leads to a significant increase in filter efficiency, allowing fewer particles to pass through the filter's media. Using our Prime10 pleated filters lessens build up on your HVAC's coils, in turn saving you money and making your indoor space more energy efficient.

CONSTRUCTION

The Prime10 has a durable, moisture-resistant, beverage board frame with wire-supported media. The Prime10's media is a mechanical blend of synthetic fibers that are designed for use specifically in extended surface pleated filters. Our Prime10's mechanical media means that these filters are highly efficient and have a low pressure drop. This media also allows the Prime10 to maintain its MERV 10 rating before and after ASHRAE 52.2 testing has been done. The wire support is made from galvanized metal to prevent corrosion and reinforces the filter's media creating better air flow uniformity.

APPLICATION

The Prime10 should be used anywhere a higher level of indoor air quality is required. Created to filter particles between 1 and 10 microns in size, the Prime10 is best used to filter irritants like mold spores, dusting aids, lead dust, humidifier dust, coal dust and cement dust as well as nebulizer droplets and legionella. Applications that would benefit from the Prime10 pleated air filter include schools, hotels, commercial office buildings, hospitals, pharmaceutical plants, laboratories, and other commercial and industrial facilities.

ADDITIONAL PLEATED OPTIONS

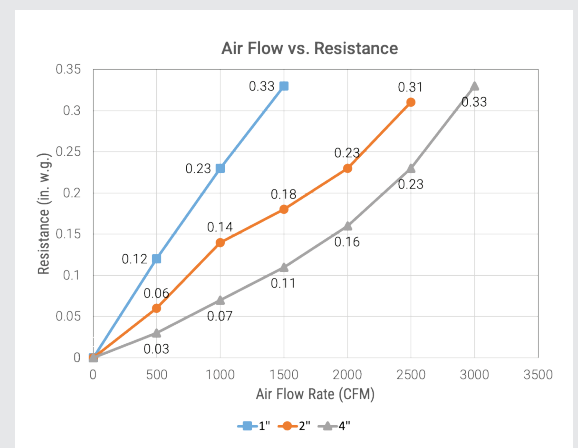
- Prime8 - Standard & high capacity MERV 8A filters (see DS208)
- Prime11 - Standard & high capacity MERV 11 filters (see DS211)
- Prime13 - High efficiency MERV 13 filters (see DS213)



PRODUCT SPOTLIGHT

- MERV 10
- Available in 1", 2" and 4"
- 100% synthetic mechanical media
- Heavy duty wire-supported construction
- Moisture resistant beverage board frame
- Max operating temp: 180° F
- Made in the USA

TECHNICAL DATA



Prime10

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PERFORMANCE DATA

Nominal Depth	Nominal Size (WxHxD)	Actual Size (in.)			Air Flow @ Capacity (CFM)	Resistance @ Capacity (in. w.g.)		Total Media Area (sq. ft.)		Number of Pleats Per Linear Foot	
		Width	Height	Depth		Standard	High	Standard	High	Standard	High
1"	10x10x1	9.50	9.50	0.75	240	0.23	0.20	1.1	1.3	13	15
	10x20x1	9.50	19.50		490			2.2	2.6		
	10x25x1	9.50	24.50		610			2.7	3.2		
	12x12x1	11.38	11.38		350			1.6	1.9		
	12x20x1	11.50	19.50		580			2.6	3.1		
	12x24x1	11.50	23.50		700			3.2	3.8		
	12x25x1	11.75	24.75		730			3.3	3.9		
	14x20x1	13.50	19.50		680			3.1	3.7		
	14x25x1	13.50	24.50		850			3.9	4.6		
	15x20x1	14.50	19.50		730			3.3	3.9		
	15x25x1	14.50	24.50		910			4.2	4.9		
	16x16x1	15.75	15.75		620			2.9	3.4		
	16x20x1	15.50	19.50		780			3.6	4.2		
	16x24x1	15.50	23.50		930			4.3	5.1		
	16x25x1	15.50	24.50		970			4.5	5.3		
	18x18x1	17.75	17.75		790			3.7	4.3		
	18x20x1	17.50	19.50		880			4.1	4.8		
	18x24x1	17.50	23.50		1050			4.8	5.7		
	18x25x1	17.50	24.50		1100			5.1	6.0		
	20x20x1	19.50	19.50		970			4.5	5.3		
20x24x1	19.50	23.50	1170	5.4	6.4						
20x25x1	19.50	24.50	1215	5.6	6.6						
22x22x1	21.75	21.75	1180	5.4	6.4						
24x24x1	23.50	23.50	1400	6.5	7.7						
2"	10x20x2	9.50	19.50	1.75	700	0.23	0.19	5.1	6.0	10	15
	12x24x2	11.38	23.38		1000			7.5	8.8		
	14x20x2	13.50	19.50		975			7.3	8.6		
	14x25x2	13.50	24.50		1220			9.1	10.7		
	15x20x2	14.50	19.50		1040			7.8	9.2		
	16x20x2	15.50	19.50		1110			8.3	9.8		
	16x24x2	15.38	23.38		1335			10.0	11.8		
	16x25x2	15.50	24.50		1390			10.5	12.3		
	18x18x2	17.75	17.75		1125			8.5	10.0		
	18x20x2	17.50	19.50		1250			9.4	11.1		
	18x24x2	17.38	23.38		1500			11.3	13.3		
	18x25x2	17.50	24.50		1565			11.8	13.9		
	20x20x2	19.50	19.50		1390			10.5	12.3		
	20x24x2	19.38	23.38		1670			12.6	14.8		
	20x25x2	19.50	24.50		1740			13.2	15.5		
24x24x2	23.38	23.38	2000	15.2	17.9						
4"	12x24x4	11.38	23.38	3.75	1000	0.18	0.16	13.9	16.3	9	13
	16x20x4	15.50	19.50		1110			15.5	18.2		
	16x25x4	15.50	24.50		1390			19.4	22.8		
	18x24x4	17.38	23.38		1500			21.0	24.7		
	20x20x4	19.50	19.50		1390			19.5	22.9		
	20x24x4	19.38	23.38		1670			23.5	27.6		
	20x25x4	19.50	24.50		1740			24.4	28.7		
	24x24x4	23.38	23.38		2000			28.2	33.2		

Notes:

- 2" & 4" deep filters are rated at 500 fpm and 1" deep filters are rated at 300 fpm.
- More sizes are available. Please consult Pamlico Portal or contact customer service at customerservice@pamlico-air.com.
- Performance data is based on ASHRAE Test Standards 52.2 – 2017.



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PRIME10 | DS210-1020