INTRODUCING THE

Practical Pleat

NO FILTER BYPASS

NO RETROFITTING

NO HEADACHES

THE 5" MERV 10 HIGH PERFORMANCE FILTER

Designed to fit into 1" Return Air Grilles.

28X INCREASED EFFICIENCY

The "Practical Pleat" media is up to 28 times more effective at capturing particles than standard fiberglass panel filters.

LOW PRESSURE DROP

In general, the more efficient a filter is at removing particles, the greater it's resistance to airflow, and the greater the pressure drop it creates. One way to overcome this problem is to increase the surface area of the filter media. The "Practical Pleat" contains over 445% greater surface area than a comparable MERV 8 one inch pleat filter. For example:

	INITIAL RESISTANCE	SERVICE LIFE	ENERGY COSTS*
1" RETAIL PLEAT	.29 IN W.G.	30 DAYS	\$69.13
COMPETITOR'S MERV 8 4" PLEAT	.15 IN W.G.	180 DAYS	\$35.76
PRACTICAL PLEAT	.09 IN W.G.	180 DAYS	\$21.10

* Annual energy costs

LASTS 6X LONGER

Effective service life is six times longer than a comparable MERV 8 1" filter.



ELIMINATES FILTER BYPASS

Gaps between the filter and filter frames allow particles to be pulled around the filter, entering the duct system and ultimately, the inhabited spaces. Particles, that by-pass the filtering process, can accumulate on the evaporator coils. A 0.05-inch accumulation of these particles can reduce efficiency and increase utility bills up to 37% for that unit. These same particles provide nutrients for mold, mildew and other biological contaminants that can breed and grow in the ventilation system. The Practical Pleat's self sealing gasket conforms to imperfections in the filter track, eliminating filter by-pass, and preserving the integrity of the MERV 10 rating.



No retrofitting required – Designed to fit into one inch return air grilles. Eliminates the aggravation and expense of installing in-duct housings to accommodate duct mounted, deep pleat filters.

REDUCES ENERGY BILLS

Reduced resistance to airflow allows the air-conditioning/ heating system to operate more efficiently, thereby, reducing energy consumption by as much as 300% compared to a MERV 8 1" pleat filter.

LMS TECHNOLOGIES, INC. 6423 Cecilia Circle Bloomington, MN 55439 (952) 918-9060, Fax: (952) 918-9061				
Test Report-ASHRAE Test Standard 52.2				
Test Requested By:	Filtration Manufacturing, Inc.	Report # : 1245-1 Test Date : 10/25/2006		
Manufacturer:	Filtration Manufacturing, Inc.	-		
Product Name:	Practical Pleat	-		
Model Number:		-		
Dimensions:	24 x 24 x 5	_		
Number of Pleats:	21 - Pleats	_		
Filter Description:	White, synthetic pleat filter	_		
How Filter Obtained:	Provided by Filtration Manufa	cturing, Inc.		
Test Results				
Test Air Flow Rate(CFM)/Velocity (FPM)1180 cfm / 295 fpmInitial Resistance (in. WG).093"Final Resistance (in. WG)1.0"Minimum Efficiency Rating Value (MERV)MERV 10 @ 1180 cfmMinimum Average Efficiency 0.3 to 1.0 Microns (E1)27.9Minimum Average Efficiency 1.0 to 3.0 Microns (E2)55.6Minimum Average Efficiency 3.0 to 10 Microns (E3)85.3Dust Fed to Final Resistance(grams)116.3 grams				
Test Description				
Temp & Humidity: Particle Analysis: Test Dust: Test Aerosol:	70 @ 37% Hiac/Royco FE-80 ASHRAE 52.1 Dust KCL Neutralized	-		
Test Engineer :	Mick Flom/Emile Tadros/Kian	Imani/Todd Krueger/Pat Best		
Approved By:	K. C. Kwok, Ph.D.			

FILTRATION MANUFACTURING, INC.

Call 800-239-9495 for more information.

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