PERFECT FIT MEDIA PERFORMANCE DATA

PB0024.FTR
October 10, 2000

FEATURING:

- Filter design concepts
- Initial Efficiencies
- Peak Removal Efficiencies
- MERV Rating
- Dust Holding Capacity
- Arrestance Value
- Pressure Drop chart
- Dimension matrix chart

The data inside explains why the Perfect Fit media is the most well rounded filter in the industry. It offers good air filtration and still s meets the equipment airflow needs. The filtration efficiencies, Air Tite™, easy-fast maintenance, matched with the design robustness of Perfect Fit is the ultimate in the air cleaning industry.

If it is not a Perfect Fit, it is a hassle!

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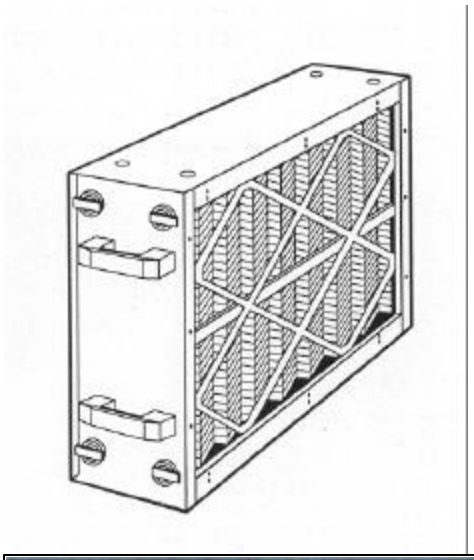
PERFECT FIT AIR CLEANERS



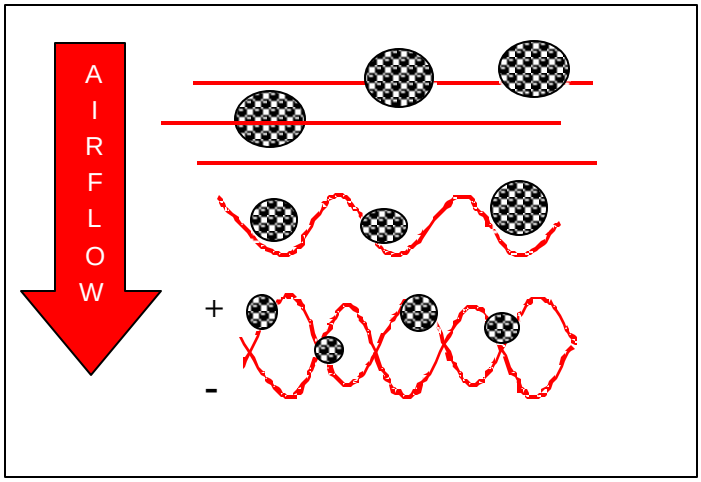
The Perfect Fit air cleaners are designed to perfectly fit furnace and air handlers bottom return for horizontal or up flow applications. Most furnace side return applications require no duct transitions and does not have turbulent airflow because the case fits below the heat exchanger screw line. Upgrading to an electronic air cleaner is easy because all connections and changes are made to the front of the air cleaner case. No difficult wiring connections to the side are required.

Features

- Removes particles as small as .3 microns
- Low pressure drop across media
- High dust hold capacity
- Designed to deliver the required system airflow
- Testing based on new standard from ANSI/ASHRAE Standard 52.2 – 1999
- Flush Fit, allows the air cleaners to fit into areas where space is a problem.
- Air Tite™, No leakage of unconditioned or unfiltered air into the system.
- Requires no electrical connections
- Easy to replace cartridge filters
- Less than one minute to change the filter
- All hardware included to install
- Easy upgradable to electronic models

Tests based on *FM245A0FR0

HOW THE FILTERS WORK

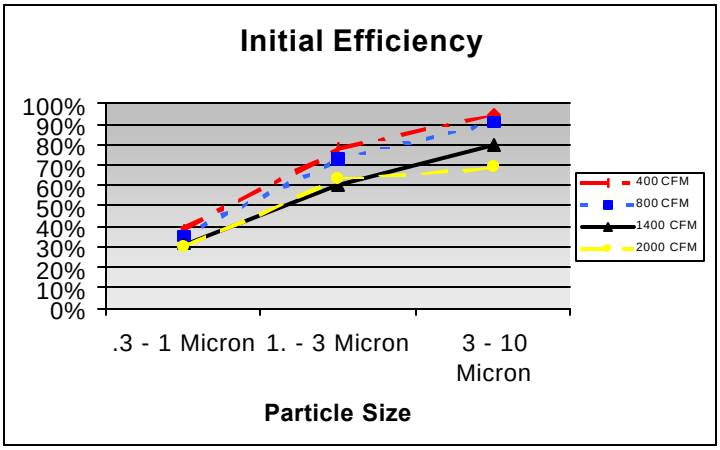


1. As large particles (3-10 microns) enter the first layer they are captured but still allow clean air to bypass.

2. The smaller particles (1-3 micron) continue to pass until they reach the second level of filtration where they are capture.

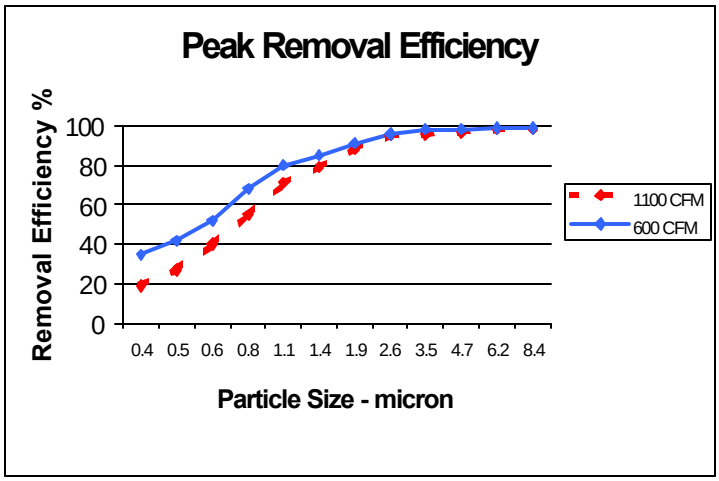
3. The smallest of particles (.3-1 micron) are contained in the third level of filtration where the electrically charged fibers capture the contaminates with the positive and negative charged media strands.

Tests based on *FM245A0FR0



When determining how to best filter the air the equipment selection must be considered. The best cleaning efficiencies are gained when the airflow is at a low level. The variable speed indoor equipment is best suited for cleaning the air because during the system OFF cycles the fan can be ran at 50% of the cooling speed. An example is a five-ton variable speed air handler would deliver approximately 2200 CFM during cooling. During the fan continuous mode the fan would slow down the airflow to 1100 CFM. Remember the filter can only clean if the blower is running.

Tests based on *FM245A0FR0

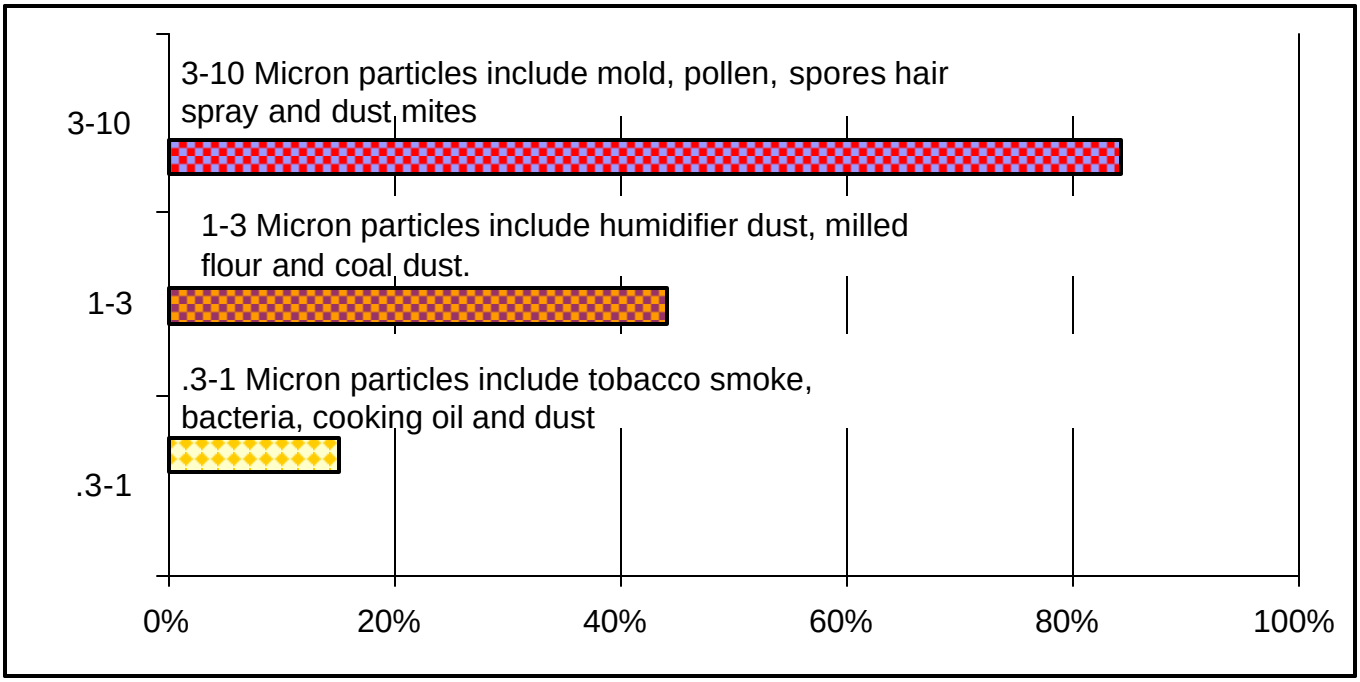


The Peak Removal Efficiency is a filter's ability to remove contaminates near its end of life. As a filter loads with contaminates it actually begins to restrict particles that typically would pass through.

FILTER PERFORMANCE

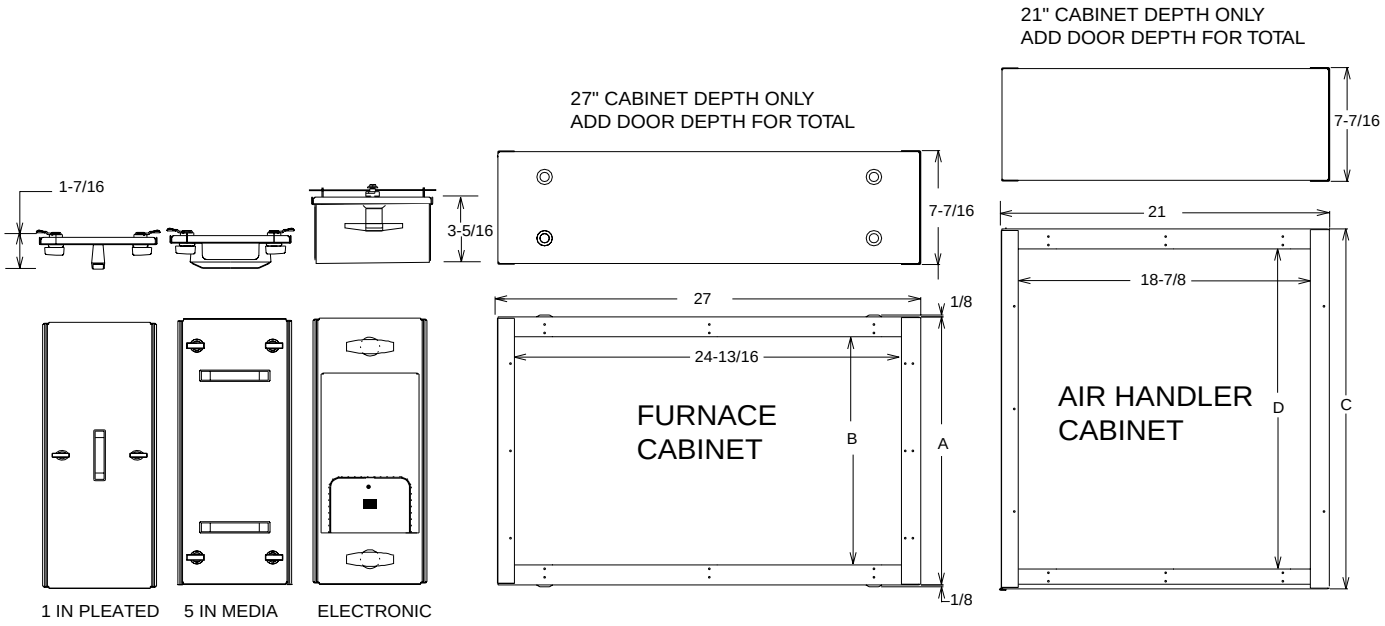
Media Performance at 600 CFM	Media Performance at 1100 CFM
MERV 8 rating 98% Peak removal efficiency 282g Dust holding capacity 95% Arrestance value	MERV 8 rating 98% Peak removal efficiency 172g Dust holding capacity 94% Arrestance value

Filter efficiencies were determined by tests on *FM245A0FR0. The results may vary slightly from model to model because of their specific airflow requirements.



PRESSURE DROP AT SPECIFIC AIR FLOW PER MODEL

	400 CFM	600 CFM	800 CFM	1000 CFM	1200 CFM	1400 CFM	1600 CFM	1800 CFM	2000 CFM
*FM145FR0	0.03	0.06	0.10	0.14	0.20				
*FM175FR0	0.02	0.03	0.06	0.08	0.11	0.15	0.18		
*FM210FR0	0.01	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.20
*FM245FR0				0.04	0.05	0.06	0.08	0.10	0.12
*FM210AH0	0.02	0.04	0.06	0.09	0.12	0.16			
*FM235AH0		0.03	0.05	0.07	0.10	0.13	0.17	0.23	
*FM260AH0			0.04	0.06	0.08	0.11	0.13	0.16	0.19



FURNACE MODEL NUMBERS				
1 IN PLEATED	5 IN MEDIA	ELECTRONIC	A	B
TFP145A0FR0	TFM145A0FR0	TFE145A9FR0	14-1/2	11-7/8
TFP175A0FR0	TFM175A0FR0	TFE175A9FR0	17-1/2	14-7/8
TFP210A0FR0	TFM210A0FR0	TFE210A9FR0	21	18-3/8
TFP245A0FR0	TFM245A0FR0	TFE245A9FR0	24-1/2	21-7/8

AIR HANDLER MODEL NUMBERS				
1 IN PLEATED	5 IN MEDIA	ELECTRONIC	C	D
TFP215A0AH0	TFM215A0AH0	TFE215A1AH0, A9AH0	21-1/2	18-7/8
TFP235A0AH0	TFM235A0AH0	TFE235A1AH0, A9AH0	23-1/2	20-7/8
TFP260A0AH0	TFM260A0AH0	TFE260A1AH0, A9AH0	26	23-7/8