



## AIR FILTER MEDIA



# Mueller Environmental Designs, Inc.



**Air Filtration**  
**Evaporative Cooling**  
**Noise Control**  
**Mist Elimination**  
**Turnkey Projects**



FILTER SERIES	GTF-60	GTF-90	GTFX-60	GTFX-90
Application	Primary Filter	Primary Filter	Primary Filter	Primary Filter
Type	Static	Static	Static	Static
Media Type	*1	*1	*1	*1
Media Area (Sq. Ft.)	130	130	145	145
Nominal Size	24" x 24" x 12"	24" x 24" x 12"	24" x 24" x 12"	24" x 24" x 12"
Design CFM	2000	2000	2500	2500
Initial Resistance - Inches of Water	0.48	0.62	0.60	0.77
Recommended Final Resistance	2.50	2.50	2.50	2.50
Average Weight Arrestance *5	98%	99%	98%	99%
Average Efficiency *6	66%	88%	66%	88%
Dust Holding Capacity at Rated Flow (g)	1590	960	1672	1010
Degradation Pressure (in. water column) *7	15	15	15	15
Maximum Pressure (in. water column) *8	25	25	25	25

FILTER SERIES	GTFX-95	RSC-1	REF-1	PF-80
Application	Primary Filter	Primary Filter	Primary Filter	Pre-Filter
Type	Static	Self-Cleaning	Static	Static
Media Type	*2	*3	*3	*4
Media Area (Sq. Ft.)	194	204	100	*4
Nominal Size	24" x 24" x 12"	12.75" x 26"	24" x 24" x 2"	24" x 24" x 4"
Design CFM	2500	570	1500	2500
Initial Resistance - Inches of Water	0.81	0.67	0.90	0.18
Recommended Final Resistance	2.00	2.50	2.50	0.50
Average Weight Arrestance *5	98%	99.9%	99%	85%
Average Efficiency *6	79%	97%	86%	45%
Dust Holding Capacity at Rated Flow (g)	2050	385.5	195	260
Degradation Pressure (in. water column) *7	10	15	15	Not Applicable
Maximum Pressure (in. water column) *8	15	25	25	Not Applicable

### \* NOTES

1. Moisture proof dual gauge phase wet laid flat mat pleated fiberglass
2. Moisture resistant single phase flat mat mini-pleat micro fiberglass
3. Moisture resistant cellulose blend mini-pleat
4. Viscous impingement glass-fiber pad of progressive density
5. Average dust weight arrestance using AC fine test dust
6. Average atmospheric efficiency using atmospheric dust
7. Degradation pressure - pressure at which the efficiency of the filter element is negatively affected
8. Maximum pressure - pressure at which structural damage to the filter element will occur



MODEL MAF



MODEL RSIF



MODEL GTAF



MODEL RPSC



GTF-60, GTFX-60, GTF-90, GTFX-90 GTFX-95



REF-1



FF-2



FF-1



RSC-1

## USING THE MAGNEHELIC GAUGE TO DECIDE WHEN FILTERS NEED REPLACING

The magnehelic gauge measures the pressure differential across the filter elements and is a useful tool in making decisions on filter element changes. The gauge display has a range from zero to five that shows the vacuum in inches of Water Column (pressure drop). It is advisable to replace pre-filters regularly to enhance the life of the more costly main filter elements.

To decide when the filters need changing, record the initial baseline pressure drop from the magnehelic gauge when the engine is first run. This will provide a reference point for a comparison as the readings change during use. As part of your daily operations, log regularly the pressure drop shown on the magnehelic gauge. When the filters get dirty, pressure drop will increase because of the dirt and debris restricting air flow through the filters.

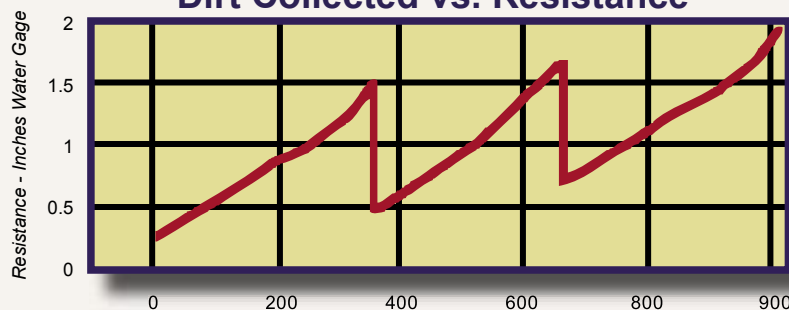
When the pressure drop increases an additional .5" - .75" WC past the baseline reading, the pre-filters need to be changed.

As new pre-filters are installed, the pressure drop will incrementally increase because of the main filters accumulating more dirt. Each time a new set of pre-filters is installed, record the new pressure drop next to the original baseline reading to keep track of the condition of the main filters. When a new set of pre-filters is installed and the pressure drop has increased 2" WC past the original baseline reading, the main filter cartridges need to be replaced.

Repeat the recording process when a new set of main filter cartridges and pre-filters are installed.

Pre-filters can be replaced while the unit is running, however the unit should be down for replacing the main filter cartridges. As a rule of thumb, when the engine is running continuously, the pre-filters should be changed approximately once a month and main filters should be changed once a year.

### Dirt Collected vs. Resistance



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