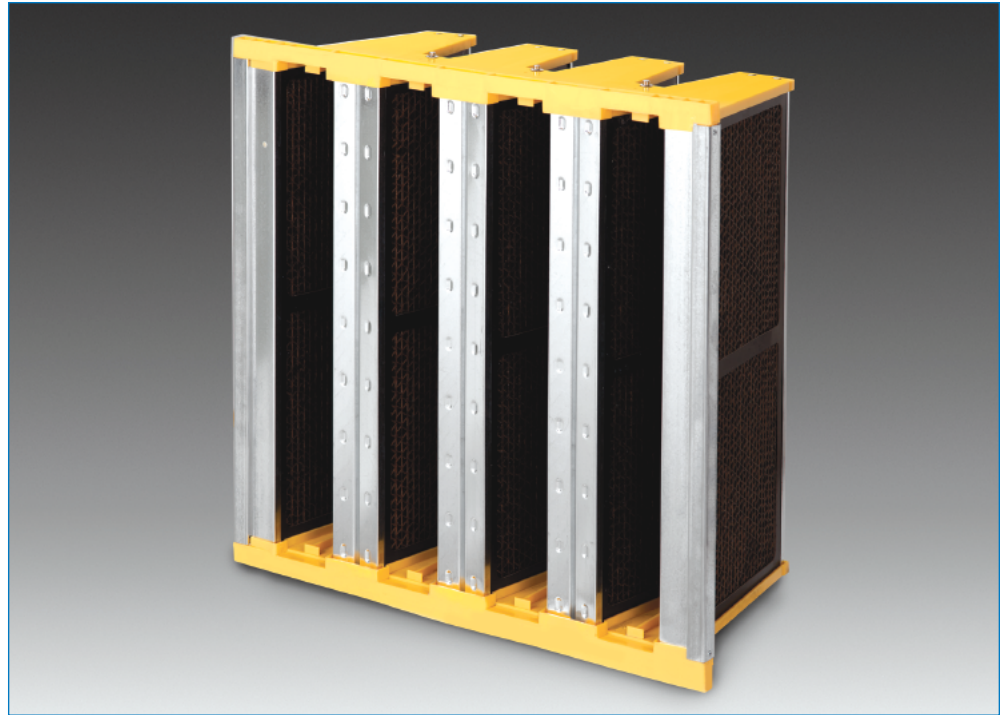




- *Improve indoor air quality through effective removal of contaminants, odors and gases*
- *Available with activated carbon for adsorption, potassium permanganate for chemisorption, or a 50/50 blend of both*
- *100% fill for maximum single pass efficiency and longer service life*

FP GAS PHASE FILTER



DESCRIPTION

The FP Gas Phase filter is designed to remove a wide range of odors and common indoor air pollutants at high air flows. Constructed of heavy-duty galvanized steel and plastic, with 3/4" honeycomb media packs, the FP Gas Phase filter can be filled with one of two media – or a blend of the two – to fit any application.

BENEFITS

The FP Gas Phase filter provides effective odor removal with just a moderate increase in pressure drop.

Using 60% CTC activated carbon, potassium permanganate on zeolite, or a blend of the two, the FP Gas Phase filter removes a broad spectrum of compounds including Volatile Organic Compounds (VOCs), vehicle exhaust, sulfur compounds and formaldehyde.

APPLICATIONS

These filters are used in commercial and industrial applications when odors and gases need to be removed to protect people, processes, equipment or artifacts.

With a standard header it can be used in existing HVAC systems, easily retrofitted or specified for new construction. The dual direction design allows for a front or reverse mount installation, without a reduction in filter performance.

FP GAS PHASE FILTER



DIMENSIONS AND PERFORMANCE DATA

ACTIVATED CARBON (100% FILL)

PART NUMBER	NOMINAL SIZE (H x W x D)	INITIAL ACTUAL FILTER DIMENSIONS (H x W x D)	RESISTANCE AT 500 fpm (* w.g.)	MEDIA WEIGHT PER FILTER	SHIPPING WEIGHT
40223	12 x 24 x 12	11 3/8 x 23 3/8 x 11 1/2	0.51	11	16
40226	20 x 24 x 12	19 3/8 x 23 3/8 x 11 1/2	0.51	20	27
40175	24 x 24 x 12	23 3/8 x 23 3/8 x 11 1/2	0.51	24	32

Contaminants removed by Activated Carbon

Acetone	Naphtha
Benzene	Nitrobenzene
Chlorobenzene	Ozone
Chloroform	Paint Fumes
Gasoline	Perchloroethylene
Methylene Chloride	Pyridine
Methyl Chloroform	Styrene
Methyl Ethyl Ketone	Toluene

POTASSIUM PERMANGANATE (100% FILL)

PART NUMBER	NOMINAL SIZE (H x W x D)	INITIAL ACTUAL FILTER DIMENSIONS (H x W x D)	RESISTANCE AT 500 fpm (* w.g.)	MEDIA WEIGHT PER FILTER	SHIPPING WEIGHT
40316	12 x 24 x 12	11 3/8 x 23 3/8 x 11 1/2	0.36	14	19
40324	20 x 24 x 12	19 3/8 x 23 3/8 x 11 1/2	0.36	26	33
40325	24 x 24 x 12	23 3/8 x 23 3/8 x 11 1/2	0.36	32	40

Contaminants removed by Potassium Permanganate Impregnated Media

Acetylene	Mercaptans
Alcohols	Nitrogen Oxides
Low Molecular Weight Aldehydes (like Formaldehyde)	Organic Oxides
	Sulfur Oxides

ACTIVATED CARBON/POTASSIUM PERMANGANATE (BLEND)

PART NUMBER	NOMINAL SIZE (H x W x D)	INITIAL ACTUAL FILTER DIMENSIONS (H x W x D)	RESISTANCE AT 500 fpm (* w.g.)	MEDIA WEIGHT PER FILTER	SHIPPING WEIGHT
40218	12 x 24 x 12	11 3/8 x 23 3/8 x 11 1/2	0.36	13	18
40234	20 x 24 x 12	19 3/8 x 23 3/8 x 11 1/2	0.36	23	30
40217	24 x 24 x 12	23 3/8 x 23 3/8 x 11 1/2	0.36	28	37

Contaminants removed by Activated Carbon / Potassium Permanganate Blend

Acetic Acid	Cooking Odors
Animal Odors	Diesel Fumes
Auto Exhaust	Isopropanol
Butyric Acid	Sodium Thiosulfate
Chlorine	Tobacco Smoke
Chlorine Dioxide	Trichloroethylene
Cleaning Compounds	Urea

ENGINEERING SPECIFICATIONS

1.0 General

- 1.1 Filters shall be Aerostar® FP Gas Phase air filters as manufactured by Filtration Group.
- 1.2 Filters shall be available in nominal depths of 12" only.
- 1.3 Filters are manufactured by an ISO 9001 registered company.

2.0 Filter Materials of Construction

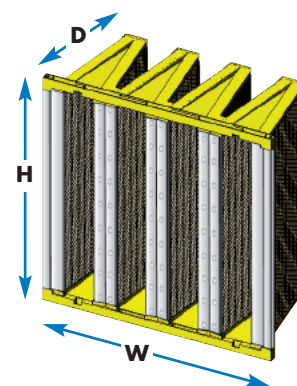
- 2.1 Media shall be 3/4" honeycomb media packs filled with virgin coconut shell 6 x 12 mesh activated carbon, potassium permanganate impregnated zeolite or a 50/50 blend of activated carbon and potassium permanganate impregnated zeolite.
- 2.2 Frame shall be a high impact plastic with a built in header on top and bottom along with galvanized steel vertical supports on front and back.
- 2.3 Filters media pack shall be adhered and sealed to frame with polyurethane to prevent by-pass.

3.0 Filter Performance

- 3.1 Filter shall have a low initial pressure drop.
- 3.2 Model 24 x 24 x 12 @ 500 fpm:

	Initial Resistance	Media Weight	Shipping Weight
Activated Carbon	0.51	24	32
Potassium Permanganate	0.36	32	40
Activated Carbon/Potassium Permanganate	0.36	28	37

- 3.3 Filters shall be rated to withstand a continuous operating temperature of up to 150°F.



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