DuraKleen™ V15 and V8

Extended Surface Activated Carbon Filter

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As worldwide Indoor Air Quality specifications become more demanding, gas phase adsorption is quickly becoming a major factor in commercial and industrial air filtration systems. The DuraKleen-V15 and DuraKleen-V8 are an excellent high performance solution in applications such as airports, industrial facilities, chemical plants, office buildings, and a wide variety of other air filtration systems.

The Koch Filter DuraKleen-V15 and DuraKleen V8 is an extended surface carbon filter which utilizes premium grade granular 60% activated carbon. DuraKleen's unique V-shaped frame holds up to 7 pounds of activated carbon in a single 24x24x12 filter, which insures maximum VOC and odor removal in any commercial or industrial application.

FEATURES

- Effective removal of odors and VOC's, diesel exhaust, acid gas, ammonia and amines
- Constructed with premium grade coconut shell carbon
- Available in MERV 8 and MERV 15

Two Efficiency Levels and Three Standard Sizes

To meet the tough requirements of today's complex air filtration systems, DuraKleen-V15 and DuraKleen V8 is available in three standard sizes, and two efficiencies.

Consult your Koch Filter representative to find the appropriate DuraKleen-V15 and DuraKleen-V8 model for your system.

Partial List of Contaminants Best Controlled by Activated Carbon

Acetic acid
Ally acetate
Benzyl acetate
Butyl acetate
Butyl ethyl ether
Butyric acid
Carbon tetrachloride
Chloroform
Chlorophenol
Furan
Hexane
Isoamyl alcohol
Isopropyl alcohol
Linalyl format
Methyl benzoate
Methyl oxyethanol
Cyclohexane
Cyclohexylbenzene
Decene
Dichlorotoluene
Dimethyl disulfide
Ethoxyethanol
Ethyl benzoate
Ethyl sulfide
Ethylene dichloride
Formic acid
Octane
Pentachloroethane
Phenol
Styrene
Thiophenol
Trichlorothane
Trimethylpentane
Methylsalycilate
Nitroanisole
Valeric acid
Xylene
Acetone
Benzaledehyde
Bezene
Butyl alcohol
Butyl mercaptan
Camphor
Chlorobenzene
Chloroctane
Cineole
Heptane
Indene
Isoamyl butrate
Limonene
LimoneneMethylally alcohol
Methylally Butanol
Methyl ethyl ketone (MEK)
Cyclohexanol
Cymene
Dibutylamine
Diethyl ketone
Dodecane
Ethyl acetate
Ethyl methyl ketone
Ethylbenzene
Ethylene glycol
Nitrogen dioxide<100ppb
Octanoic acid
Pentylamine
Propionic acid
Tetrachloroethane
Toluene
Trichloroethylene
Triethylhexane
Mineral Spirits
Nitroethane
Vinyl Pyridine
Acrylic acid
Benzonitrile
Bromoform
Butylbenzene
Butyl sulfide
Carbon disulfide
2-Chloroethanol
Chlorotoluene
Cresol
Heptene
Isoamyl acetate
Isobutyl propinate
Lynaly acetate
Methyl acetylsalicyate
Methyl cyclohexanol
Methyl propyl ketone
Cyclohexanone
Decane
Dichloroethane
Dimethyl disulfide
Ethanol
Ethynl lactate
Ethynl oxalate
Ethylcyclohexane
Ethylene glycol diethyl ether
Nonane
Octene
Pentyl ether
Pyridine
Tetrachloroethylene
Tributylamine
Tridecane
Methyl pentanone (MIBK)
Naphtha
Undecane
Vinyl toluene

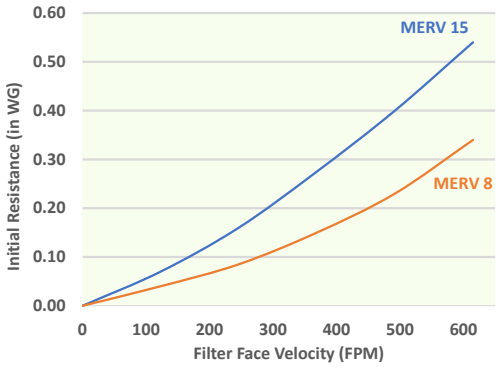
KOCH FILTER
PURE PERFORMANCE

DuraKleen V15 & V8 Performance Data

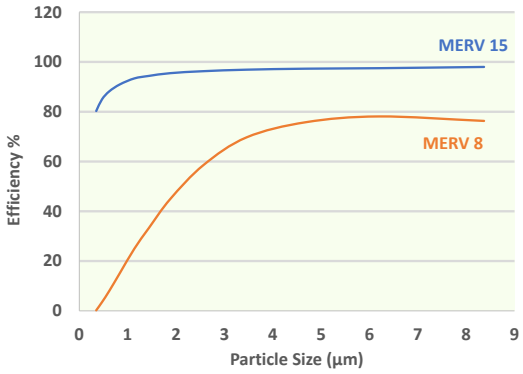
Efficiency	Intial Reistance (inches w.g.)	Final Resistance (inches w.g.)
MERV 15	0.40	1.5
MERV 8	0.23	1.5

Part Number NHM (No Header)	Nominal Size* WxHxD	Actual Size WxHxD	Capacity (CFM) 500 FPM	Carbon Weight per Filter (lbs.)	Efficiency
111-811-101	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	2000	7	MERV 15
111-811-102	20 x 24 x 12	11-3/8 x 23-3/8 x 11-1/2	1000	5.5	MERV 15
111-811-103	12 x 24 x 12	23-3/8 x 23-3/8 x 5-7/8	1000	3.6	MERV 15
Part Number	**WxHxD**	**WxHxD**	**500 FPM**		
111-810-101	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	2000	7	MERV 8
111-810-102	20 x 24 x 12	11-3/8 x 23-3/8 x 11-1/2	1000	5.5	MERV 8
111-810-103	12 x 24 x 12	23-3/8 x 23-3/8 x 5-7/8	1000	3.5	MERV 8

Initial Resistance vs. Air Flow Rate



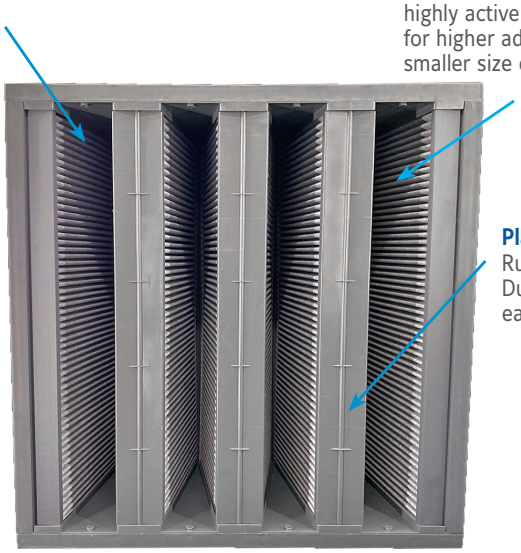
Efficiency by Particle Size



DuraKleen V™ Construction

Activated Coconut Shell Carbon
Premium grade 60% activated carbon provides maximum adsorption of VOC's and odors.

Pleated Media Packs
The media packs feature a pleated media encapsulating the carbon between two synthetic layers. The highly active carbon particles allow for higher adsorption rates due to the smaller size of the carbon granules.



Plastic Frame Components
Rugged components make the DuraKleen-V extremely rigid and easy to install.

Thermoplastic Hot-Melt Adhesive
Specialized sealant eliminates air bypass and secures the individual carbon cells within the frame.

Engineering Specifications

1.0 General Specifications
- 1.1 Filters shall be DuraKleen V15 or DuraKleen V extended surface pleated air filters as manufactured by Koch Filter.
- 1.2 Filters shall be available in nominal depth of 12 inches.
- 1.3 Filters are manufactured by an ISO 9001 registered company.

2.0 Filter Material and Construction
- 2.1 Media shall be 100% synthetic mechanical media impregnated with activated carbon.
- 2.2 Filters shall have a plastic frame.
- 2.3 Filters will have single header.
- 2.4 Filter frame shall be comprised of a high impact polystyrene designed to increase filter strength and rigidity. Frame shall be recyclable.

3.0 Filter Performance
- 3.1 Filters shall be MERV 15 or MERV 8 when tested in accordance with ASHRAE 52.2 Test Standard.
- 3.2 For initial resistance of filters, see Performance Data chart above.
- 3.3 Filters shall be rated to withstand a continuous operating temperature up to 130°F.
- 3.4 Filters shall have a recommended final resistance of 1.5" w.g.

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