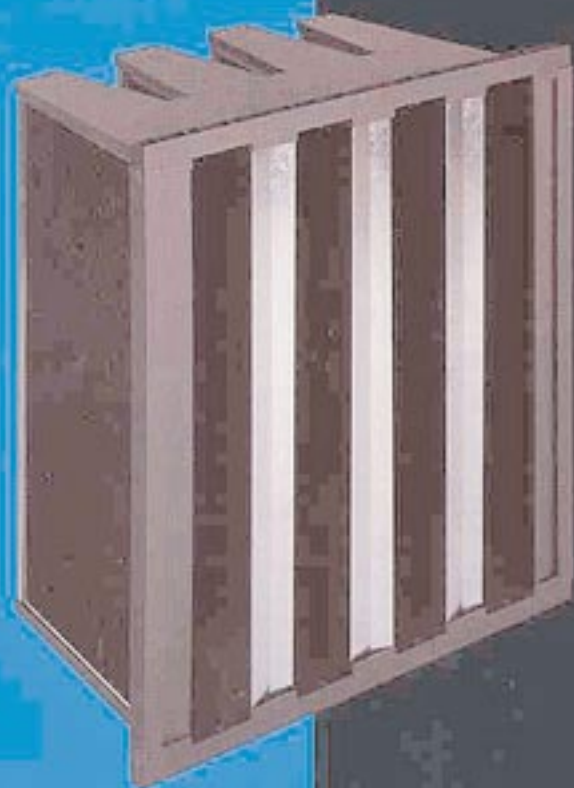




Koch Filter Corporation  
Filtration Products Crafted with Pride



- Provides effective removal of odors and VOC's
- Constructed with premium grade coconut shell carbon
- Two carbon capacity options
- Available with specially impregnated adsorption medias

## **DuraPURE**

Extended Surface  
Activated Carbon Filter

## DuraPURE Extended Surface Activated Carbon Filter



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 DuraPURE is 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 Corporation DuraPURE is an extended surface carbon filter which utilizes premium grade granular 60% activated carbon. DuraPURE's unique V-shaped frame holds up to 26 pounds of activated carbon in a single 24x24x12 filter, which insures maximum VOC and odor removal in any commercial or industrial application.

### Two Capacity Levels and Three Standard Sizes

To meet the tough requirements of today's complex air filtration systems, DuraPURE is available in three standard sizes, and two media capacity levels, Standard Capacity and High Capacity.

### Specialized Carbon Media

DuraPURE is also available with specialized impregnated carbon media for removal of ammonia, hydrogen sulfide, and other difficult-to-remove compounds. Consult your Koch Filter Corporation representative to find the appropriate DuraPURE model for your system.

## DuraPURE Applications

With two capacity levels, three standard sizes, and specially-impregnated carbons available, the DuraPURE can be used effectively in a wide variety of applications.



### Airports

*DuraPURE removes toxic compounds, such as aviation fuel emissions, and other airborne gases common to airport environments.*



### Hospitals

*DuraPURE provides effective control of undesirable odors and compounds such as fumes from parking garages.*



### Industrial Manufacturing Plants

*DuraPURE is useful in protecting people and processes from a wide range of gaseous emissions in source-capture or ventilation applications.*

### Commercial Office Buildings

*DuraPURE is an excellent choice for removal of food odors, and other harmful gases commonly found in urban settings.*



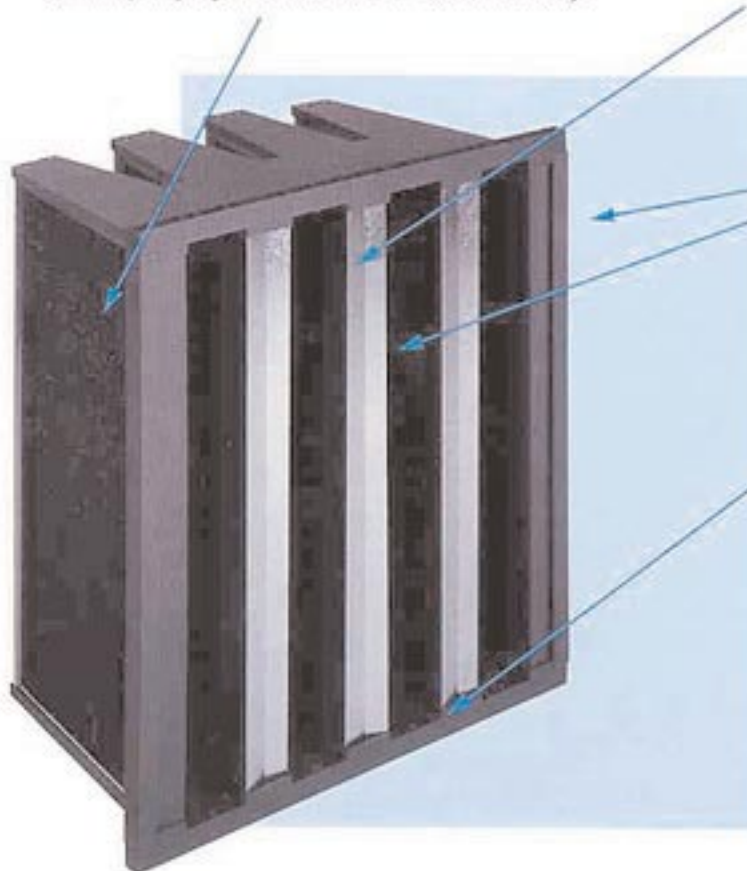
# DuraPURE Construction and Technical Data

## Activated Coconut Shell Carbon

Premium grade 60% activated carbon provides maximum adsorption of VOC's and odors (other specially impregnated medias are also available).

## Individual Media Cells

Moisture resistant honeycomb carbon cells offer high efficiency contaminant removal, with relatively low resistance to airflow.



## Plastic and Metal Frame Components

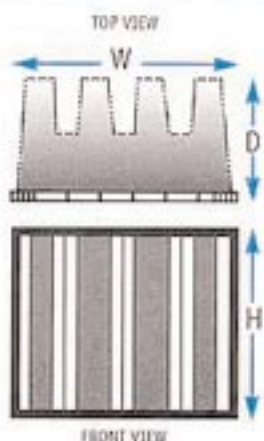
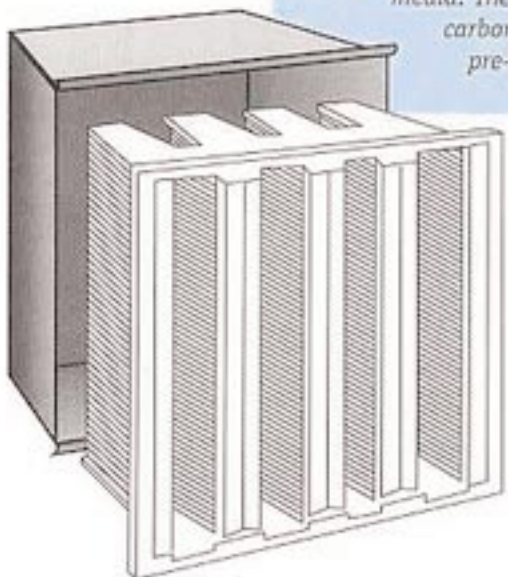
Rugged components make the DuraPURE extremely rigid and easy to install. Single or double header available.

## Thermoplastic Hot-Melt Adhesive

Specialized sealant eliminates air bypass and secures the individual carbon cells within the frame.

## DustNet™ Afterfilter

DuraPURE filters may also be furnished with an optional DustNet™ a cube-style afterfilter constructed with 100% polyester synthetic filter media. The DustNet™ provides enhanced efficiency and prevents carbon dusting downstream. When ordered, DustNet™ is shipped pre-installed on the DuraPURE filters.



## DuraPURE Dimensions\*

	NOMINAL	ACTUAL
H	24"	23 3/8"
	20	19 3/8
	12	11 1/2
W	24	23 3/8
D	12	11 1/2

## Metric Conversion Table

1.0 inches	2.54 cm
1 ft <sup>2</sup>	.093 m <sup>2</sup>
1 FPM	.005/m second
1 CFM	1.7m <sup>3</sup> /hour
1.0 in. w.g.	249 Pa

\*Dimensions do not include the DustNet™

## DuraPURE Product Information

DuraPURE Model No.	Nominal Size (HxWxD)	Actual Size (HxWxD)	Initial Pressure Drop (in. w.g.)	Carbon Weight Per Filter (lbs.)	Total Weight Per Filter (lbs.)
<b>DuraPURE Standard Capacity</b>					
DPC-442-SC	24x24x12	23 3/8x23 3/8x 11 1/2	.34	18	33
DPC-042-SC	20x24x12	19 3/8x23 3/8x 11 1/2	.34	15	30
DPC-242-SC	12x24x12	11 3/8x23 3/8x 11 1/2	.34	8	26
<b>DuraPURE High Capacity</b>					
DPC-442-HC	24x24x12	23 3/8x23 3/8x 11 1/2	.74	26	41
DPC-042-HC	20x24x12	19 3/8x23 3/8x 11 1/2	.74	24	36
DPC-242-HC	12x24x12	11 3/8x23 3/8x 11 1/2	.74	12	32

### Additional DuraPURE Information

Solvent capacity of Standard Capacity DuraPURE: 5 lbs.

Solvent capacity of High Capacity DuraPURE: 8 lbs.

Carbon Activity Rating: Minimum 60% on carbon tetrachloride (CCl<sub>4</sub>) at 25°C.

## Partial List of Contaminants Best Controlled by Activated Carbon

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



### Koch Filter Corporation Filtration Products Crafted with Pride

Post Office Box 3186  
625 West Hill Street (40208)  
Louisville, KY 40201  
Phone: 502.634.4796  
Fax: 502.637.2280  
E mail: [www.kochfilter.com](http://www.kochfilter.com)

*Koch Filter Corporation maintains a policy of continuous product research and improvement, and retains the right to change product specifications and design without notice.*

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