

## DuraPURE™

### Extended Surface Activated Carbon Filter



- Provides effective removal of odors and Volatile Organic Compounds (VOC).
- Constructed with premium grade coconut shell carbon
- Available with specially impregnated adsorption medias

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 **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 representative to find the appropriate DuraPURE model for your system.

## Partial List of Contaminants Best Controlled by Activated Carbon

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

## DuraPURE Standard Capacity

Model	Nominal Size	Actual Size	Initial Pressure Drop (in w.g.)	Carbon Weight Per Filter (lbs.)	Total Weight Per Filter (lbs.)
DPC-442-SC	24x24x12	23.38 x 23.38x 11.50	.34	18	33
DPC-042-SC	20x24x12	19.38 x 23.38 x 11.50	.34	15	30
DPC-242-SC	12x24x12	11.38 x 23.38 x 11.50	.34	8	26

## DuraPURE High Capacity

Model	Nominal Size	Actual Size	Initial Pressure Drop (in w.g.)	Carbon Weight Per Filter (lbs.)	Total Weight Per Filter (lbs.)
DPC-442-HC	24x24x12	23.38 x 23.38x 11.50	.74	26	41
DPC-042-HC	20x24x12	19.38 x 23.38 x 11.50	.74	24	36
DPC-242-HC	12x24x12	11.38 x 23.38 x 11.50	.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 (CCL4) at 25 ° C.

## 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.

**Qualifies as a Koch Green Product**  
The Koch Green icon identifies the DuraPURE as a product that meets or exceeds our criteria in one or more of the following categories: Earns LEED Points, Reduces Energy Costs, Extends Filter Lifecycles, Conserves Resources and/or Improves Indoor Environmental Quality.



**KOCHFILTER**  
PURE PERFORMANCE

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