

CarbonWeb® Carbon Rigid Filter

D-Mark **CarbonWeb®** Carbon Rigid Filter HEGA (High Efficiency Gas Adsorber) is specifically designed to remove unpleasant odors and gaseous pollutants entering the buildings HVAC system.

CarbonWeb media is a patented material utilizing a fine mesh CTC 60 High Activity Carbon (HAC) suspended in a synthetic web matrix. The heavy 645 gsm media and deep pleat filter design maximize carbon surface area for important first pass removal efficiency.

Rigid filter construction minimizes restriction of air flow and is designed for use in VAV or constant velocity air systems. Box style and single header frames are available for easy retrofit to existing units or new installations. CarbonWeb media can remove organic, inorganic, chlorinated hydrocarbons and many miscellaneous light gasses.

Special media blends can be developed for target contaminant removal via D-Mark engineering.



Partial List of Contaminants Effectively Removed with Carbon

Greenhouse	Liquid Fuels
Adhesives	Organic Chemicals
Asphalt Fumes	Ozone
Cooking Odors	Perspiration
Disinfectants	Animal Odors
Food Aromas	Sewer Odors
Hospital Odors	Vapors
Irritants	Waste Products

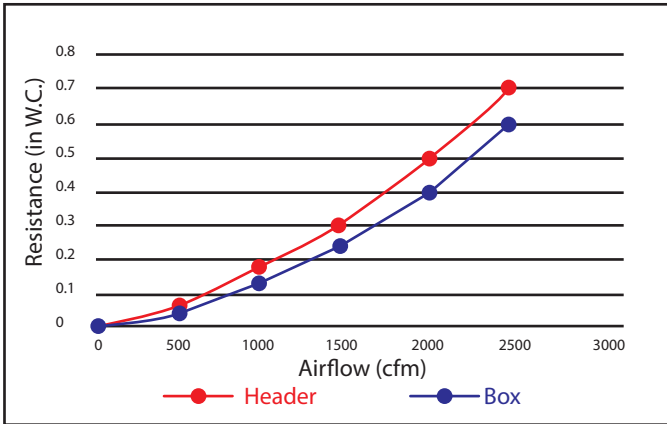
Model	Nominal Size	Media area	Per Filter Pounds GAC -Wt.	Initial Resistance (in w.g.)		Particulate Capacity (Grams)	Final Resistance WG
BOX STYLE				300 FPM	500 FPM		
CWCMC-12-800-01	12x24x12	29.0	3.8	0.167	0.425	270	1.5
CWCMC-12-800-05	20x20x12	39.9	5.3	0.167	0.425	371	1.5
CWCMC-12-800-06	20x24x12	48.3	6.4	0.167	0.425	450	1.5
CWCMC-12-800-08	24x24x12	58.7	7.8	0.167	0.425	547	1.5
SINGLE HEADER							
CWCMCH-12-800-01	12x24x12	26.0	3.4	0.167	0.425	242	1.5
CWCMCH-12-800-05	20x20x12	35.4	4.7	0.167	0.425	329	1.5
CWCMCH-12-800-06	20x24x12	43.4	5.7	0.167	0.425	404	1.5
CWCMCH-12-800-08	24x24x12	52.6	7.0	0.167	0.425	490	1.5

CarbonWeb® Patented Filter Media

RENSA FILTRATION

CarbonWeb® Carbon Rigid Filter

Performance Data



Specifications

Media: CarbonWeb 645 gsm media suspending 20 x 50 fine mesh 60 CTC carbon in a synthetic web matrix.

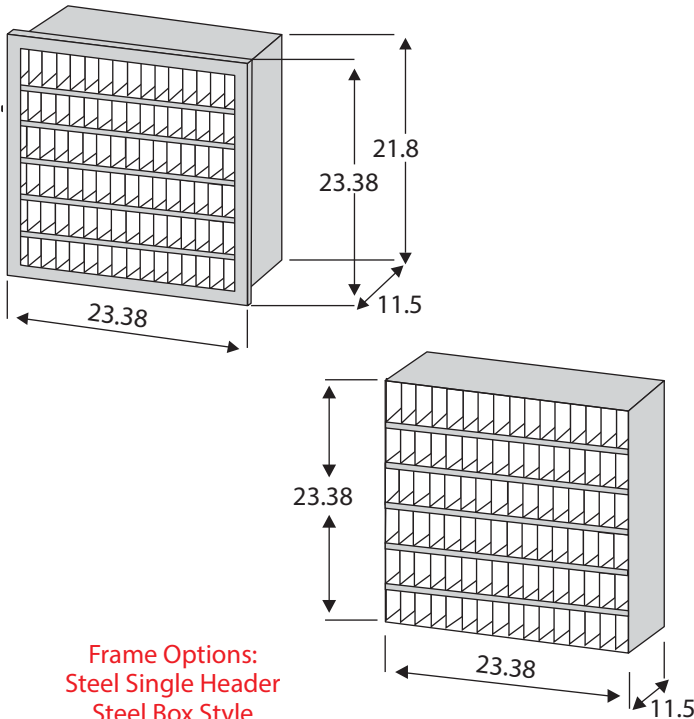
Frame: 26 gauge galvanized steel frame with diagonal support struts. Optional high impact plastic frame available.

Sealant: Media pack shall be bonded to frame utilizing moisture resistant adhesive for continuous seal.

Gasketing: Optional premium closed cell neoprene gasket available.

Maximum Operating Temp: 140F.

UL Classified in accordance to UL 900



Frame Options:
Steel Single Header
Steel Box Style
Plastic Single Header
Plastic Box



Pleat Packs Formed
Using CarbonWeb
Patented Media



Even Pleat Spacing
for Maximum Air
Flow



Food Odor



Restaurant



Hospital



Greenhouse



Animal Odor



Industry



Office



Sewer Gas



Sports Arena

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RENSA FILTRATION

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CarbonWeb® Plus Carbon/PP Rigid Filter

D-Mark **CarbonWeb® Plus** Carbon Rigid Filter HEGA (High Efficiency Gas Adsorber) utilizes a patented process method to blend CTC 60 High Activity Carbon and Activated Alumina chemically impregnated with 5% Potassium Permanganate.

Potassium Permanganate destroys odors and gas phase through the process of absorption, adsorption and chemical oxidation. Molecules are reduced to odorless, non-toxic by products, with no odor desorption to be experienced.

CarbonWeb Plus is specifically designed to remove or neutralize specific gases such as ammonia, sulfur dioxide, hydrogen sulfide and diesel fumes.

Extended surface rigid carbon filters provide high removal efficiency with low initial resistance and long service life.



Partial List of Contaminants Effectively Removed with Carbon & Potassium Permanganate 50/50 Blend

Paint Solvents
Irritant Oxides
Ammonia
Formaldehyde
Pulp & Paper Mill

Diesel Exhaust
Airport Fumes
Ozone
Acrid Odor
Industrial Gas

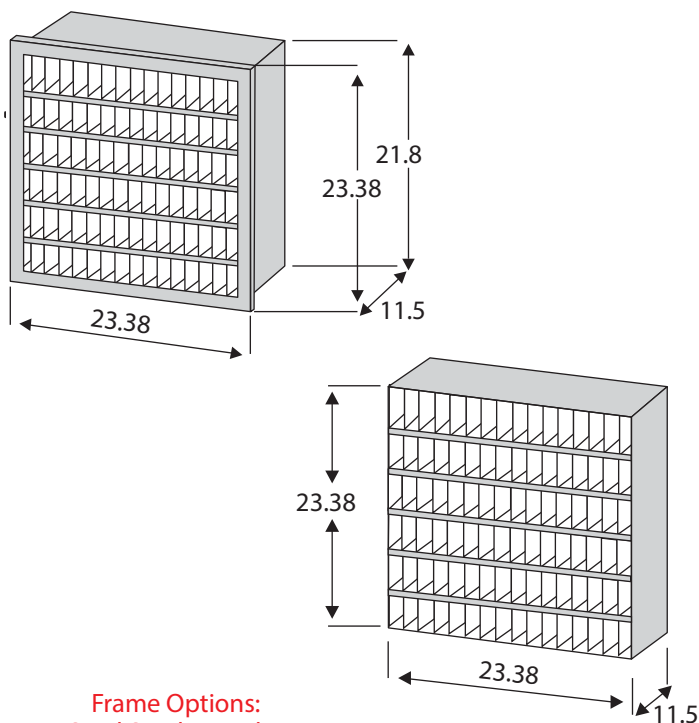
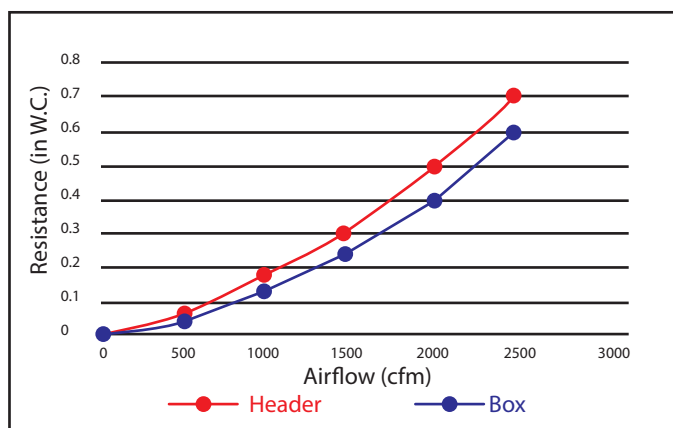
Model	Nominal Size	Media area	Per Filter Pounds GAC -Wt.	Initial Resistance (in w.g.)		Particulate Capacity (Grams)	Final Resistance WG
BOX STYLE				300 FPM	500 FPM		
CWBMC-12-800-01	12x24x12	29.0	4.8	0.167	0.425	270	1.5
CWBMC-12-800-05	20x20x12	39.9	6.6	0.167	0.425	371	1.5
CWBMC-12-800-06	20x24x12	48.3	8.0	0.167	0.425	450	1.5
CWBMC-12-800-08	24x24x12	58.7	9.8	0.167	0.425	547	1.5
SINGLE HEADER							
CWBMCH-12-800-01	12x24x12	26.0	4.3	0.167	0.425	242	1.5
CWBMCH-12-800-05	20x20x12	35.4	5.9	0.167	0.425	329	1.5
CWBMCH-12-800-06	20x24x12	43.4	7.2	0.167	0.425	404	1.5
CWBMCH-12-800-08	24x24x12	52.6	8.8	0.167	0.425	490	1.5

CarbonWeb® Patented Filter Media

RENSA FILTRATION

CarbonWeb® Plus Carbon/PP Rigid Filter

Performance Data



Frame Options:
 Steel Single Header
 Steel Box Style
 Plastic Single Header
 Plastic Box

Specifications

Media: CarbonWeb Plus media suspending 20x50 fine mesh CTC 60 HAC carbon and activated alumina with 5% potassium permanganate in a synthetic web matrix.

Frame: 26 gauge galvanized steel frame with diagonal support struts. Optional high impact plastic frame available.

Sealant: Media pack shall be bonded to frame utilizing moisture resistant adhesive for continuous seal.

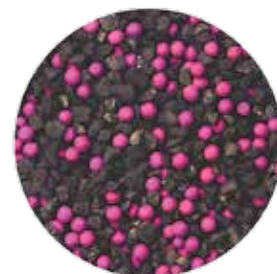
Gasketing: Optional premium closed cell neoprene gasket available.

Maximum Operating Temp: 140F.

UL Classified in accordance to UL 900



Pleat Packs Formed
 Using CarbonWeb
 Patented Media



50/50 Blend of
 HAC Carbon and
 Activated Alumina



Airport



Diesel Exhaust



Hospital



Greenhouse



Industrial



Museum



Sewer Gas



Paint Solvent

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CarbonWeb® CP MERV 15 Rigid Filter

D-Mark **CarbonWeb® CP MERV 15** rigid filter is specifically designed to remove both gaseous pollutants and provide a high level of fine airborne particulate filtration efficiency to air entering a buildings HVAC system.

CarbonWeb® CP MERV 15 utilizes a specifically engineered blend of 500 gsm high activity carbon and a synthetic high efficiency particulate layer. The combination media addresses both molecular and particulate contaminants in a single filter, eliminating the need for multiple filter stages.

Effective elimination of odor and gasses often require high levels of particulate filtration as contaminants can adhere to airborne particles not adsorbed or captured by carbon media.

Open flow design and engineered pleat spacing minimize resistance to air flow and increase the filter life-cycle. Rigid design can be used in VAV or constant velocity HVAC systems.



Partial List of Contaminants and Applications Effectively Neutralized with Carbon & Particulate Composite Media

Diesel Exhaust	Helipads
Greenhouse	Organic Chemicals
Cigarette Smoke	Ozone
Asphalt Fumes	Airports
Cooking Odors	Office Buildings
Disinfectants	Sewer Odors
Food Aromas	Vapors
Hospitals	Industrial

Model	Nominal Size	Media area	Weight Each	Initial Resistance WG		Estimated Initial MERV	Final Resistance WG
CarbonWeb CP-15 Box				300 FPM	500 FPM		
HVHMC-12-800-01	12x24x12	29.0	12.5	0.14	0.25	15	1.2
HVHMC-12-800-05	20x20x12	39.9	17.3	0.14	0.25	15	1.2
HVHMC-12-800-06	20x24x12	48.3	21.0	0.14	0.25	15	1.2
HVHMC-12-800-08	24x24x12	58.7	25.0	0.14	0.25	15	1.2
CarbonWeb CP-15 SH							
HVHMCH-12-800-01	12x24x12	29.0	12.0	0.19	0.32	15	1.2
HVHMCH-12-800-05	20x20x12	39.9	16.6	0.19	0.32	15	1.2
HVHMCH-12-800-06	20x24x12	48.3	20.0	0.19	0.32	15	1.2
HVHMCH-12-800-08	24x24x12	58.7	24.0	0.19	0.32	15	1.2

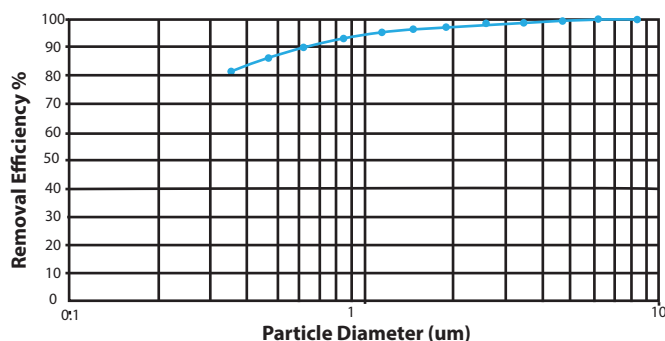
CarbonWeb® Patented Filter Media

RENSA FILTRATION

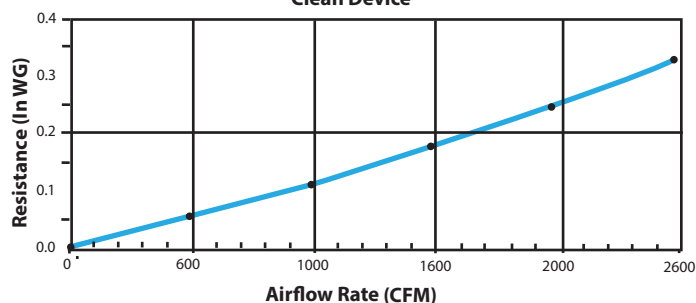
CarbonWeb® CP MERV 15 Carbon Rigid Filter

Performance Data

Initial Particle Size Removal Efficiency



Air Flow vs Resistance
Clean Device



Dual Layer Composite of
Carbon and Particulate Media

Specifications

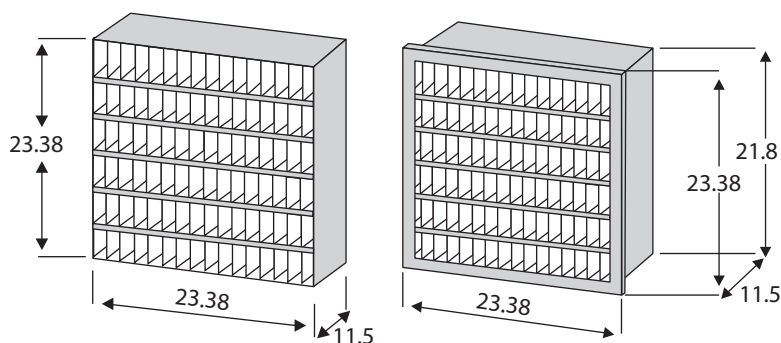
Media: CarbonWeb CP media is an engineered composite of 500 gsm High Activity Carbon material laminated with a synthetic MERV 15 grade particulate media.

Frame: 26 gauge galvanized steel frame with diagonal support struts. Optional high impact plastic frame available.

Sealant: Media pack shall be bonded to frame utilizing moisture resistant adhesive for continuous seal.

Gasketing: Optional premium closed cell neoprene gasket available.

Maximum Operating Temp: 140F.



Greenhouse



Office



Hospital



Industrial



Airport



Diesel Fume



Sewer Gas

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