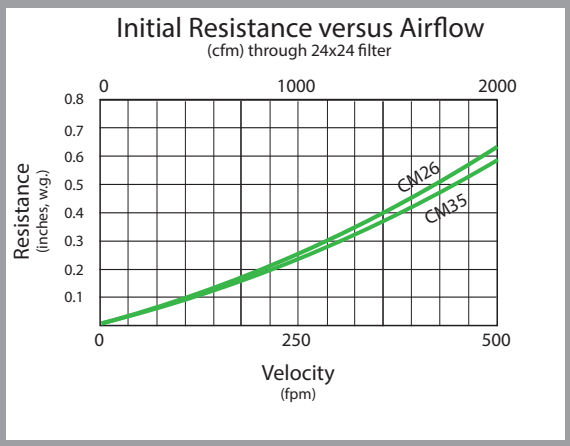
CamCarb CM

High capacity sorbent canisters for built-up banks or side-access filter housings



Pressure drop versus airflow, based upon 16 canisters per 2000 cfm

Camfil CamCarb CM canister molecular filters are recommended for high gas/vapor load make-up air and recirculation applications, where high removal efficiency and a large quantity of molecular media are required. CamCarb CM canisters have a high ozone removal value according to the unique rating system introduced by Camfil (Oz 9). Ozone is a pollutant known to be harmful to human health. The World Health organization (WHO) publishes guidelines for maximum human exposure to ozone. Applications include:

Treat make-up air (ventilation or outside air) for buildings, containing objectionable levels of:

- Ozone (O_3) from outdoor (smog) or indoor sources (photocopiers, etc.)
- Automobile fumes and diesel engine exhaust (SO_x, NO_x, H_2S, VOCs)
- Jet engine fumes in airports (SO_x, NO_x, H_2S, VOCs)
- Light levels of industrial emissions (acid gases, NH_3, solvents)

Removes odors and objectionable indoor vapor emissions from recirculated air:

- Created by occupants performing strenuous indoor activities
- Indoor emission sources (photocopiers, printing, cleaning materials)
- Light manufacturing processes (printing, pharmaceutical processing, degreasing)

Protect sensitive objects from harmful air pollutants:

- Laboratory operations and products
- Sensitive museum contents (art, fabric, sculpture, relics, etc.)
- Government document archives

Each Camfil loose-fill molecular canister system ensures:

- Maximum media exposure for the highest capture efficiency
- Air-tight construction including canister gasket seals eliminating air bypass and ensuring complete air treatment
- Maximum media utilization for a longer lifetime of molecular charge (fewer changeouts)
- Lower life cycle operating and maintenance costs
- Excellent noise attenuation (when matched with Camfil housing or frames sound attenuation is comparable to conventional silencers and sound absorbing dampers)

Specialized media are available. Consult the factory.

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Performance Data

Canister Model	Diameter & Length (inches)	Bed Depth (inches)	Nominal Resistance[1] (inches w.g.)	Sorbent Volume (cu. ft.)	Carbon Mass (lbs)	Ozone Rating	Residence Time	Typical Mass per 24" x 24" Opening (lbs)
CM26	5.7 x 18	1.0	0.63	0.15	4.5	Oz 9	0.07	72
CM35	5.7 x 24	1.0	0.59	0.20	6.0	Oz 9	0.094	96

[1] With proper number of cylinders (16) at 2000 cfm.

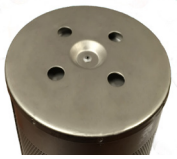
Model Designator

CC-CM35-LGX048

- Product Code: CC - CamCarb
- Construction Material: M - Stainless Steel
- Nominal Size (inches)
- Media Code

Media Name	Media Code	Description	Typical Applications
LGX048	LGX048	Granular activated carbon	New construction odors, VOCs, tobacco, ozone
CEX004	CEX004	Pelletized activated carbon	New construction odors, VOCs, tobacco, ozone
CEX004A3	CEX004A3	Pelletized activated carbon impregnated to target a range of acidic gases	Pulp & paper, sewerage treatment facilities, manufacturing & chemical processing
CamPure 4, 8, 9	CP4, CP8, CP9	Activated alumina impregnated with potassium permanganate	Indoor air quality, low molecular weight hydrocarbons, oxidizable acid gases
CamPure 44, 84, 94	CP44, CP84, CP94	CamPure media blended with pelletized activated carbon	Airports, pharmaceutical make-up air, funeral & nursing homes, animal care facilities, make-up air
CamPure 10	CP10	Activated alumina impregnated with sodium permanganate	Pulp & paper, sewerage treatment facilities, manufacturing & chemical processing, and acidic sulfur gases
CamPure 15	CP15	Activated alumina and activated carbon powders impregnated to target a range of acidic gases	Pulp & paper, sewerage treatment facilities, manufacturing & chemical processing, and acidic sulfur gases
Other media available. Contact factory for details.			

Stainless steel model shown.


CamCarb CM canisters are designed for easy removal.


CamCarb CM canisters are designed to attach to CamCarb holding frames. Built-up bank and side-access housing versions are available. Image shows a 24" x 24".

DATA NOTES:
Please contact factory for assistance in selecting the optimum sorbent for your application. CamCarb CM canisters should be prefiltered by particulate filters with a minimum of MERV 13 per ASHRAE Standard 52.2. Operating temperature limitations 140° F (60° C) for stainless steel. Not for installation in condensing environments or when entrained moisture is present. For sound attenuation data request Test Report 1/1999, Institute for Acoustics, from Camfil.

Specification

1.0 General

1.1 - Cylinders shall be stainless steel factory rechargeable loose-fill sorbent canisters and matching (holding frames, side access housings).
1.2 - Sizes shall be as noted on enclosed drawings or other supporting materials.

2.0 Construction

2.1 - Sorbent canisters shall be constructed of 22 gauge stainless steel and shall be capped with a stainless steel end plate.
2.2 - Each canister shall include a minimum of (115) airflow perforations per square inch of cylinder surface area. Perforations shall be a minimum of (0.060") diameter in size.
2.3 - Each canister shall include a mounting assembly with three integral bayonets for mounting to matching cylindrical mounting flange.
2.4 - Each canister shall contain at least 1.5 pounds of sorbent per 6" of canister length.
2.5 -Molecular media shall be Camfil (*select one of the following):
LGX048, activated carbon, with a minimum activity rating of 60% on carbon tetrachloride.
CEX004A3, impregnated carbon for adsorption of corrosive and acidic gases.
CP4, activated alumina impregnated with potassium permanganate.
CP48, blended activated carbon and activated alumina impregnated with potassium permanganate.
CP9, activated alumina impregnated with 6% potassium permanganate and other impregnations.
CP94, blended carbon and CamPure 9.

3.0 Performance

3.1 - System pressure drop shall not exceed (0.59, 0.63)" w.g. at a velocity of 500 fpm when mounted to matching canister holding frame(s).
3.2 - Canister to mounting hardware procedure shall form a mechanical connection with a seal limiting air bypass across canister mounting assembly.
* Items in parentheses ( ) require selection.

4.0 Performance Testing

4.1 - Manufacturer shall provide results of efficiency testing against nitrogen dioxide, ozone, and toluene.
4.2 - Test to be conducted on full size complete filters when challenged with typical ambient concentrations, i.e. 1 to 5 ppm at 2,000 cfm.
4.3 - Gas detectors must have lower level of detection (LLoD) values <1 ppb.
4.4 - Filters to be tested by the manufacturer using a protocol in accordance with ASHRAE 145.2. Full details of test protocol to be included with photographic evidence.

For detailed specifications please consult your local Camfil Distributor, Representative or www.camfil.com. Camfil has a policy of uninterrupted research, development and product, improvement. We reserve the right to change designs and specifications without notice.

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