

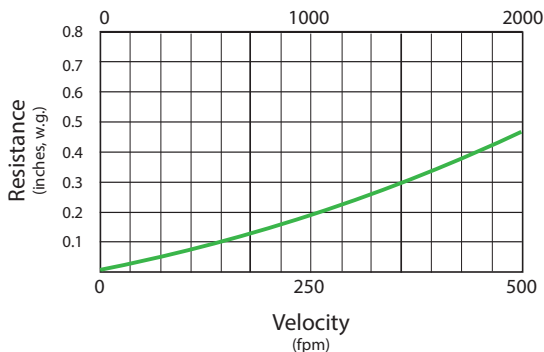
The industry standard for practical odor control, Camfil CamCarb PG panels were the first high-velocity 'straight through' carbon purification filters available.

Recommended for high gas/vapor load make-up air and recirculation applications, where high removal efficiency and a large quantity of media is required. Applications include:

- Treat make-up air for buildings containing objectionable levels of:
  - Ozone (O<sub>3</sub>) from outdoor air (smog)
  - Gasoline and diesel exhaust fumes from automobiles and heavy vehicles e.g. buses / trucks (NO<sub>2</sub>, BTEX, other VOCs)
  - Fumes from jet engines and ground traffic at airports (kerosene, NO<sub>2</sub>, VOCs, odors)
  - Medivac helicopter exhaust in hospitals
  - Light levels of industrial emissions (acid gases, NH<sub>3</sub>, solvents), kitchen odors from nearby restaurants
- Eliminate objectionable odors and emissions from recirculated or exhaust air
- Protect sensitive objects from harmful air pollutants:
  - Sensitive museum, library or archival storage (art, fabric documents, sculptures, relics)
- Reduce building operating cost:
  - Permits the recirculation (all or part) of ventilating air, reducing heating cost in the winter and cooling costs in the summer
- When filled with media LGX048, CamCarb PG will achieve a Oz 9 rating for ozone removal according to Camfil's unique in-house rating system.

## High capacity loose-fill plastic panels for gaseous contaminant and odor removal

Initial Resistance versus Airflow (cfm) through 24x24 filter



Top: Camfil loose-fill polystyrene molecular filtration media panels have a low resistance to airflow when used in matching Camfil CamCarb front access frames or CamCarb side-access housings (six one-inch panels per 1000 cfm rated). Photo shows removable service end cap used for media replacement.

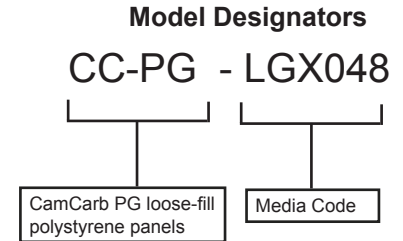
Bottom: Pressure drop values require 12 one-inch panels per 24" x 24" (6 one-inch panels per 12" x 24") opening.

Camfil loose-fill one-inch polystyrene panels:

- As standard are filled with at least 7 pounds of high quality coconut shell carbon for applications that require the removal of gaseous contaminants
- Are designed to easily slide in and out of Camfil housings on special panel guides
- Are installed in sets of twelve one-inch panels for a 24" x 24" opening or six one-inch panels for a 12" by 24" opening, providing a nominal residence time of 0.09 seconds to ensure optimum contaminant-to-molecular filtration media surface contact for high capture efficiency
- Are resistant to corrosive environments
- May be filled with a variety of molecular filtration media to meet the gaseous removal needs of additional specific applications
- Are easily recharged. Panels include a removable service end cap that opens to allow the removal of spent media and refill with fresh media.

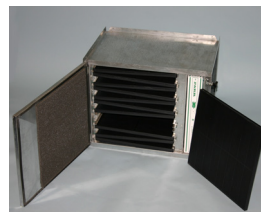
**CamCarb PM powder coated steel panels are available. Consult factory.**

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.			



**Data Notes:**  
 CamCarb PG loose-fill polystyrene panels were formerly known as CF Panels.  
 Operating temperatures to 155° F (68° C), consult factory or sales submittal drawings.  
 Not for installation in condensing environments or when entrained moisture is present.

**CamCarb PM powder coated steel panels are available. Consult factory.**



Matching hardware includes built-up bank modules and side-access housings.

## Specification

### 1.0 General

**1.1** - Panels shall be loose-fill, rechargeable type, filled with (select media from above or consult factory)\* designed for installation in matching (built-up banks, side access housings)\*.

**1.2** - Number of panels shall be six panels per 1000 cfm of system airflow.

### 2.0 Construction

**2.1** - Panel shall be of high-impact resistant polystyrene construction. Panel size shall be nominal 22" by 24" by 1" deep.

**2.2** - Media shall be loose-fill, and factory-filled, using a shaker assembly that ensures at least 7 pounds of molecular filtration media per panel.

**2.3** - Each panel shall include a removable service end cap on the short side, accessible through a permanently mounted set screw to allow the replacement of molecular filtration media media.

**2.4** - Each panel shall contain 60 perforations per square inch of exposed panel surface area. Perforation slots shall be 0.05" by 0.08", and shall preclude molecular filtration media migration.

**2.5** - Panels shall be capable of operating temperature range of 35° F (2° C) to 155° F (68° C).

### 3.0 Performance

**3.1** - When installed in matching hardware, system pressure drop shall not exceed 0.34" w.g. at a velocity of 500 fpm.

**3.2** - Manufacturer shall provide a letter of certification noting molecular filtration media activity rating to published values.

**3.3** - Manufacturer shall provide evidence of facility certification to ISO 9001:2008.

### 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.



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