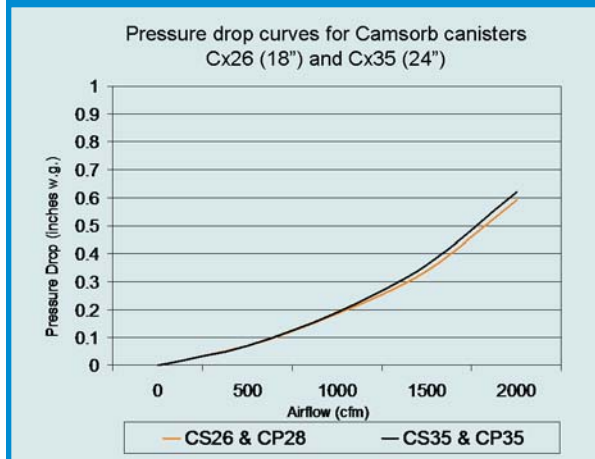


# camsorb™ canisters

Loose-Fill Plastic Disposable or Stainless Steel Rechargeable Sorbent Canisters



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 Farr canister sorbent systems are recommended for high gas/vapor load make-up air and recirculation applications, where high removal efficiency and a large quantity of sorbent media are required. Applications include:

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

- Ozone (O<sub>3</sub>) from outdoor (smog) or indoor sources (photocopiers, etc.)
- Automobile fumes and diesel engine exhaust (SO<sub>x</sub>, NO<sub>x</sub>, H<sub>2</sub>S, VOCs)
- Jet engine fumes in airports (SO<sub>x</sub>, NO<sub>x</sub>, H<sub>2</sub>S, VOCs)
- Light levels of industrial emissions (acid gases, NH<sub>3</sub>, 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 Farr loose-fill sorbent canister system ensures:

- Maximum sorbent 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 sorbent charge (fewer changeouts)
- Lower life cycle operating and maintenance costs
- Excellent noise attenuation (when matched with Camfil Farr housing or frames sound attenuation is comparable to conventional silencers and sound absorbing dampers).

Specialized sorbents are available. Consult the factory.

Camfil Farr	Product Sheet
Camsorb™ Canisters	2112 - 0606
Camfil Farr - clean air solutions	

## PERFORMANCE DATA

Canister Model	Diameter & Length (inches)	Bed Depth (inches)	Nominal Resistance <sup>1</sup> (inches w.g.)	Sorbent Volume (cu. ft)	Carbon Mass (lbs)	Typical Mass per 24" x 24" Opening (lbs)
CX26	5.7 x 18	1.0	0.63	0.15	4.5	72
CX35	5.7 x 24	1.0	0.59	0.20	6.0	96

<sup>1</sup> With proper number of cylinders (16) at 2000 cfm.

Sorbent	Description	Typical Applications
CFS-201	Activated carbon	New construction odors, VOCs, tobacco, ozone
CFS-202	Impregnated carbon for corrosive & acid gases	Pulp & paper, sewerage treatment facilities, manufacturing & chemical processing
CFS -101 /Campure 4	Activated alumina impregnated with 4% potassium permanganate	Indoor air quality, low molecular weight hydrocarbons, oxidizable acid gases
CFS-002	Blended carbon & Campure 4	Airports, pharmaceutical make-up air, funeral & nursing homes, animal care facilities, make-up air
CFS-103 /Campure 6XL	Activated alumina impregnated with 6% potassium permanganate and other proprietary impregnations	Pulp & paper, sewerage treatment facilities, manufacturing & chemical processing and acidic sulphur gases
CFS-004	Blended carbon and Campure 6XL	Airports, pharmaceutical make-up air, funeral & nursing homes, animal care facilities, make-up air

### DATA NOTES:

Canisters are also available in stainless steel. Stainless steel canisters are factory rechargeable/refillable. Please contact factory for assistance in selecting the optimum sorbent for your application. Camsorb canisters should be prefiltered by particulate filters with a minimum of MERV 9 per ASHRAE Standard 52.2. A MERV 6 filter may be used downstream to control sorbent dusting (if required). Operating temperature limitations 105° F (41° C) for plastic and 140° F (60° C) for stainless steel. Not for installation in condensing environments or when entrained moisture is present. Camsorb cylindrical sorbent canisters are also known by the trade name of Camcarb (in Europe). For sound attenuation data request Test Report 1/1999, Institute for Acoustics, available from Camfil Farr.



Camfil Farr Canisters remove easily with a 24mm wrench (plastic) or a Camfil Farr canister removal tool (steel).



Camsorb canisters are designed to attach to Camfil Farr Camsorb holding frames. Built-up bank and side-access housing versions are available. See product sheets 2117 and 2118 respectively. Above shows a 24" x 24" and a 12" x 24" frame.

## Specifications

### 1.0 General

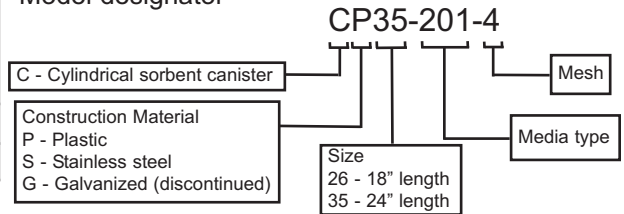
- 1.1 - Air filters shall be (plastic disposable, stainless steel factory rechargeable) loose-fill sorbent canisters and matching (holding frames, side access housings).
- 1.2 - Sizes shall be as noted on enclosed drawings or other supporting materials.

### 2.0 Construction

- 2.1 - Sorbent canisters shall be constructed of (ABS HDPE plastic, 22 gauge stainless steel) and shall be capped with a (plastic, stainless steel) end plate.
- 2.2 - Each canister shall include a minimum of (30, 115) airflow perforations per square inch of cylinder surface area. Perforations shall be a minimum of (0.090", 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.

## Model designator

## CAMSORB™ CANISTERS



Optional stainless steel model shown.

- 2.5 - Sorbent shall be Camfil Farr (select one of the following):  
 (CFS - 201, activated carbon, with a minimum activity rating of 60% on carbon tetrachloride.)  
 (CFS - 202, impregnated carbon for adsorption of corrosive and acidic gases)  
 (CFS - 101, activated alumina impregnated with potassium permanganate)  
 (CFS - 002, blended activated carbon and activated alumina impregnated with potassium permanganate.)  
 (CFS - 103, activated alumina impregnated with 6% potassium permanganate and other impregnations)  
 (CFS - 004, blended carbon and Campure 6XL)

### 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..

Camfil Farr 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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