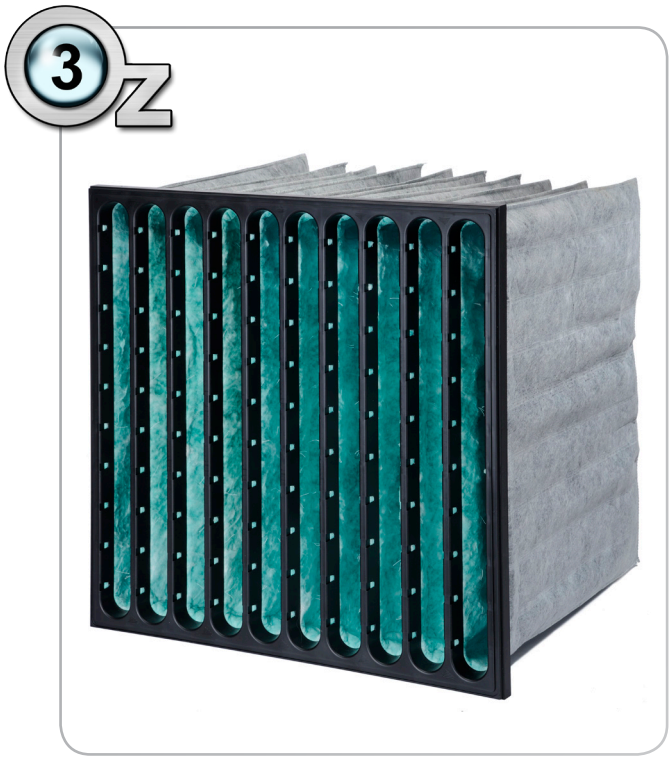
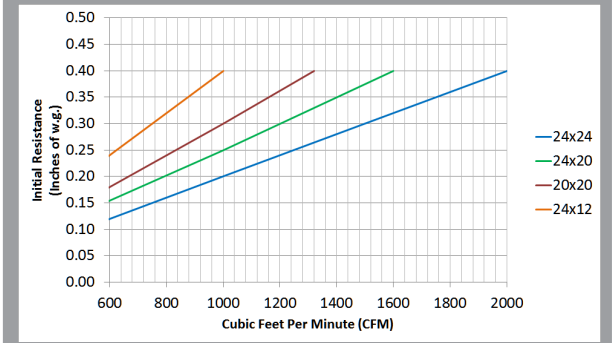
City-Flo® XL Bag Filter

Energy-Saving, Pocket-Style, For Removal of Particulates and Odors



Energy saving, low resistance air filter for control of particulate and gaseous contaminants. The City-Flo XL addresses today's green building concerns.



Initial resistance versus airflow, recommended velocity is 400 feet per minute or less to obtain published adsorbent efficiency.

The Camfil Farr City-Flo XL addresses the indoor air quality needs of today's green buildings and may be applied in applications where particulate and odorous contaminants may be a concern. The City-Flo XL is ideal for removing contaminants associated with harsh urban environments. Additionally, the filter can be applied to reduce outside air during temperature extremes through application of the Indoor Air Quality Procedure as outlined in ASHRAE Standard 62.1, Ventilation for Acceptable Indoor Air Quality.

Its unique tapered pocket design and single-piece casting plastic header ensure the lowest life-cycle cost and maintains integrity through varying airflows or HVAC system turbulence.

Tapered pocket design eliminates pocket-to-pocket contact ensuring full use of media area and reduced resistance to airflow for energy saving performance.

The media is constructed from a unique high efficiency fiberglass media bonded to a broad spectrum carbon adsorbent blend to provide efficient dust and odor control.

The City-Flo XL has a minimum efficiency reporting value (MERV) of 13 when evaluated per *ASHRAE Standard 52.2* to meet the minimum requirement for commercial applications designed to *LEED (Leadership in Energy and Environmental Design)* as established by the *United States Green Building Council (USGBC)*. It's fine fiber media maintains rated efficiency throughout the life of the product.

At rated airflow the City-Flo XL has an ozone removal efficiency exceeding 30%. For higher adsorption efficiencies the airflow may be reduced increasing contaminant contact time with the adsorbent. Contact factory for additional guidance or removal efficiencies on other gaseous contaminants.

To maintain adsorbent integrity each City-Flo XL is individually bagged and boxed to provide full published efficiency at the point of installation.

Ideal for office buildings, retail stores, food & beverage areas, shopping centers, schools and other public buildings where ambient air quality or energy savings through the reduction of ventilation air may be a concern.

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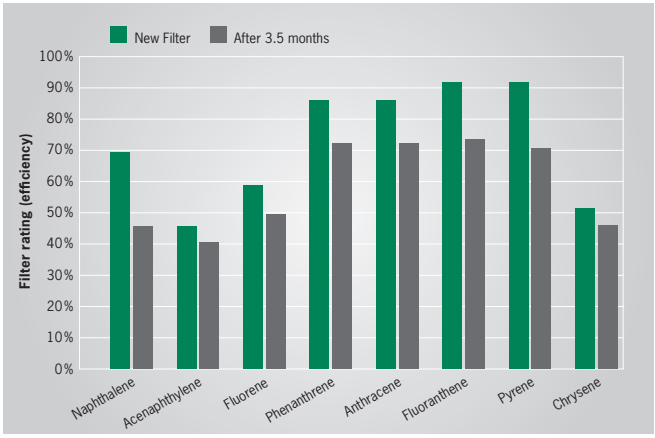
Performance Data

Efficiency per ASHRAE Standard 52.2	Camfil Farr Part Number	Camfil Farr Model Number	Nominal Dimensions (H x W) (inches)	Pocket Depth (inches)	Actual Dimensions (H x W X D) (inches)	Rated Airflow	Initial Resistance (inches w.g.)	Shipping Weight (lbs)
MERV 13 [1]	405780A22	CFMV13/24/24/22/10	24 x 24	22	23.31 x 23.31 x 22	2000	0.40	7.7
	405780B22	CFMV13/24/20/22/8	24 x 20		23.31 x 19.31 x 22	1600		6.4
	405780C22	CFMV13/24/12/22/5	24 x 12		23.31 x 11.31 x 22	1000		4.0
	405780D22	CFMV13/20/20/22/8	20 x 20		19.31 x 19.31 x 22	1320		5.3

DATA NOTES
[1] MERV, Minimum Efficiency Reporting Value per ASHRAE Filter Testing Standard 52.2.
Maximum operating temperature 122° F (50° C). 70% RH maximum for optimum adsorption.
Schedule air filters for change when initial pressure drop has doubled. Final pressure drop should not exceed 1.50" w.g.

EFFICIENCY ON GASEOUS PAHs



Test conducted in winter (outdoor air, ordinary ventilation plants in Stockholm).

The chart to the right notes City-Flo XL removal efficiencies on polycyclic aromatic hydrocarbons (PAH), substances that are known for their carcinogenic, mutagenic and teratogenic properties. Other studies have shown that high prenatal exposure to PAH is associated with lower IQ and childhood asthma.

Its MERV 13 particulate level filtration is consistent with the requirements of LEED. MERV 13 is effective on fine particles which have been shown to be a health detriment in urban environments. The City-Flo XL will also maintain its particulate level efficiency throughout the life of the filter.

Specifications

1.0 General

1.1 - Air filters shall be extended surface pocket style filters consisting of high loft air laid microfine glass media, a carbon adsorbent layer, an impact resistant plastic header, locking pocket-to-pocket tabs, and bonding agents to prevent air bypass.

1.2 - Sizes shall be as noted on enclosed drawings or other supporting materials.

2.0 Construction

2.1 - Filter media shall consist of high-density air-laid lofted microfine glass media that is bonded to a permeable media support backing forming a lofted filter blanket. The media shall include a layer of broad spectrum carbon for the removal of odors and gases.

2.2 - Individual pockets shall have a minimum of 40 stitching support points per square foot of media area. All stitching centers shall be sealed through the use of a sealant that shall remain pliable throughout the life of the filter. The sides and ends of each pocket shall be sewn with a chain-link over lock stitch.

2.3 - Pockets shall be formed into tapered pleats, supported by controlled media space stitching, to promote uniform airflow across the surface of the media. At any point, the sizes of the upstream and downstream passages shall be proportional to the volume of filtered air.

2.4 - Support members shall include a a single-piece casting plastic header. The header shall be bonded to the media to prevent air bypass. Individual pockets shall be fastened with an integral locking tab to join individual pockets into a total number of pocket to meet airflow requirements. The media pockets shall be bonded to the pocket retainers to prevent air bypass. The frame shall form a rigid and durable support assembly.

2.5 - A filter-to-filter sealing gasket shall be installed on one of the vertical members of the filter header to prevent air bypass in side access systems.

3.0 Performance

3.1 - The filter shall have a Minimum Efficiency Reporting Value of MERV 13 when evaluated per ASHRAE Standard 52.2. It shall have a minimum ozone removal efficiency of 35% at rated airflow.

3.2 - The filter shall be capable of withstanding 5.0" w.g. without failure of the filter.

3.3 - Each filter shall be individually bagged and boxed.

3.4 - Manufacturer shall provide evidence of facility certification to ISO 9001:2000.

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

camfil FARR ISO 9001:2008 Certified Quality System

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U.S. GREEN BUILDING COUNCIL MEMBER

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