



Cam-Flo XMGT



Cam-Flo XMGT

High efficiency during
its entire lifetime

Clean air solutions for turbo machinery

Looking for a pre-filter with high efficiency during its entire lifetime?



The Cam-Flo XMGT filter is the first and only synthetic media filter on the market that keeps its efficiency over its entire lifetime according to EN779:2011. The filter is certified in classes F6, F7, F9 (MERV 12, 13, 15). Self-supporting bags and a unique design make this filter an excellent pre-filter and coalescer choice for turbomachinery applications.

The Cam-Flo XMGT filter is a robust filter suitable for all environments such as industrial urban areas, rural areas and applications in high humidity areas like off-shore.

Application areas

Pre-filters protect the following filter stages in an air inlet system. Cam-Flo XMGT in combination with a high efficiency filter like CamGT F6-F9 or CamGT EPA class filter E10, E12, is the key to optimum performance.

Most common applications are:

- air inlets for turbine equipment
- axial reciprocating compressors
- offshore and coastal installations
- installations with recurrent high humidity.

Camfil Farr filters are tested in our R&D center in Trosa, Sweden and also at a third party, in accordance with both EN779:2002/2011 and ASHRAE 52.2. Burst pressure tests have been conducted with excellent results.



Key features

- Unique synthetic media
- Maximum surface use
- Mechanical strength
- Incinerable bags
- Higher dust holding capacity

Key benefits

- High and stable efficiency over lifetime
- Low pressure drop
- Resistant to humidity/turbulence
- Reduced environmental impact

Cam-Flo XMGT

for turbomachinery

Unique synthetic media

The Cam-Flo XMGT has a newly developed synthetic fibre media with unique properties, giving the filter a high efficiency during its entire lifetime. A typical synthetic filter would have high initial efficiency due to electrostatic charge, then the efficiency drops considerably.

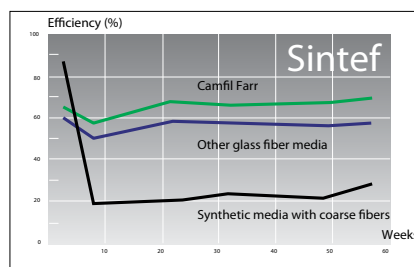
EN779:2002 states:

“Certain types of filter media rely on electrostatic effects to achieve high efficiencies at low resistance to air flow. Exposure to some types of challenges, such as combustion particles in normal atmospheric air or oil mist, may neutralise such charges resulting in decreased filter performance.”

The efficiency of Cam-Flo XMGT is not dependent on electrostatic charges. It is the construction of the media and the design of the filter pockets which keeps the efficiency at a high level.

High long-term efficiency combined with high dust holding capacity, optimizes performance of the total operation.

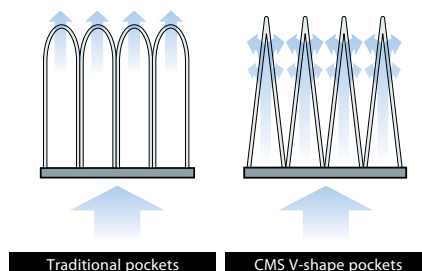
The improved media consists of polypropylene, fulfilling the requirements of EN779:2011.



Filter test, Sintef, Norway

Maximum surface use

The new design of the Cam-Flo XMGT makes the air more evenly distributed over the filter area, using the entire filter surface to its maximum. The design is made to optimize the airflow between the filter bags and the total filter surface used, thus minimizing operational pressure drop.



The filter pockets are manufactured using the proprietary CMS (Controlled Media Spacing) method. Each pocket is thus formed into a perfect V-Shape, inhibiting contact between bags and optimizing the airflow profile. The CamFlo is constructed with pockets made of synthetic fibre media and galvanized headers.

Mechanical strength

The synthetic media of the Cam-Flo XMGT has excellent high mechanical strength and self-supporting bags, which makes it a perfect pre-filter match for gas turbine operations in areas where considerations for high humidity and/or turbulence is important.

Reduced environmental impact

All the advantages of this high-efficiency filter help save energy, labour, and the environment. Other benefits are less green house gas emissions and waste water usage during the carefully supervised processes at our own production facilities.

The importance of good filtration

The prime function of an inlet filter system is to protect the gas turbine from pollutants in the inlet air.

Particles entering the gas turbine can cause erosion or fouling of the turbine internals. Erosion is mainly caused to relatively coarse particles, above 5 µm in size. Smaller particles in the sub micron size, cause fouling of turbine blades and cooling coils, which rapidly reduces performance and becomes a serious threat to the turbine.

Effective capture of small particulate and airborne salt is therefore of vital importance for long and efficient operation.

If not removed by the inlet air filtration system, the particle injection will force the operator to frequently water wash the compressor either by temporal on-line washing or more efficiently during shut down. Maintenance is costly due to the loss of power during the necessary stand still for water wash.

Camfil Farr gas turbine filters optimize the power output by minimizing the effect of erosion and fouling and significantly reduce the maintenance costs while increasing the compressor and turbine lifetimes.

Economic benefits:

- Higher power output
- Less maintenance
- Less fuel consumption
- Extended turbine life
- Reduced life cycle costs

One complete system supplier

Camfil Farr Power Systems is a global company offering high quality air filtration and noise reducing systems for turbomachinery. Our scope of supply comprises; intake systems (ducts, silencers and filter houses), sound enclosures and ventilation, exhaust systems, dampers and slides, service and retrofits.

Life Cycle Cost (LCC) is the key:

For example; 100 Pa less operating pressure drop at the intake system will increase the turbine output by approximately 0.2 % and reduce the fuel consumption by approximately 0,1%.

Camfil Farr can run calculations to determine the optimum combination of filters needed for the lowest total cost over a given time period.

The LCC programme takes into account such factors as engine sensitivity, energy cost, running time, filter price, cleaning cost, different environments and filter characteristics.

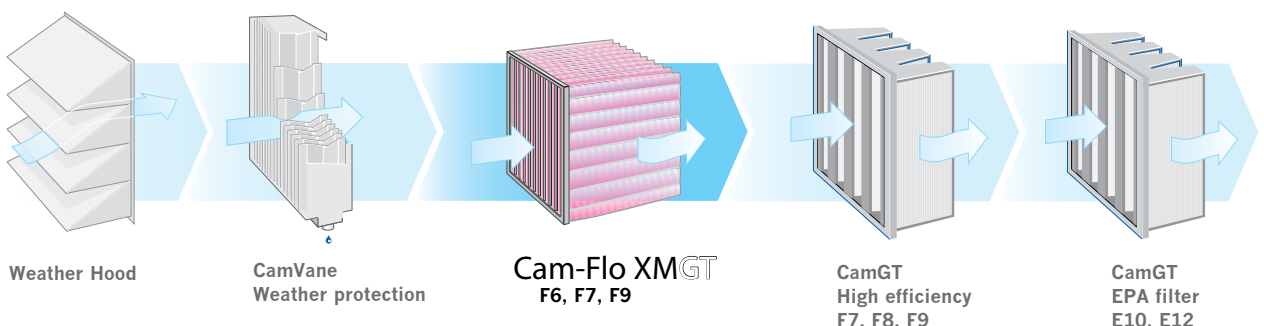
Camfil Farr's calculations are based on real life testing data from a large number of sites.

The cost of clean air is not the cost of replacement filters - it is how much energy the filters use during their working life at the desired efficiency.

Contact us for LCC calculations applicable to your site.

Camfil Farr inlet air filtration system

An air inlet system is adapted to environment and operating conditions. Contact us for free consultation.

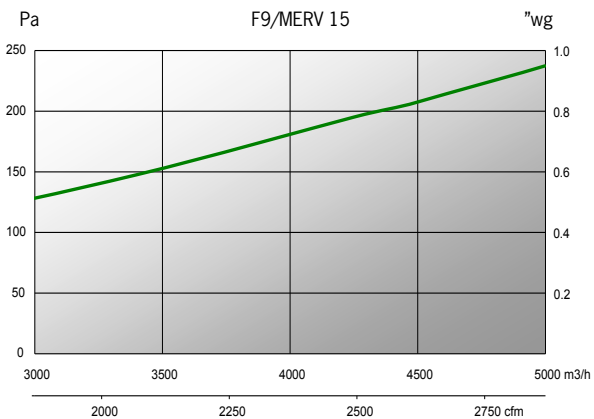
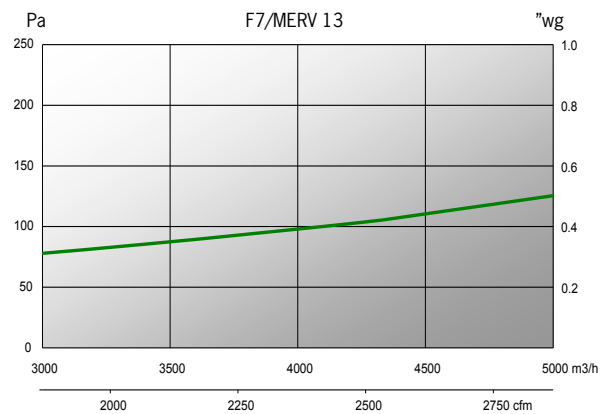
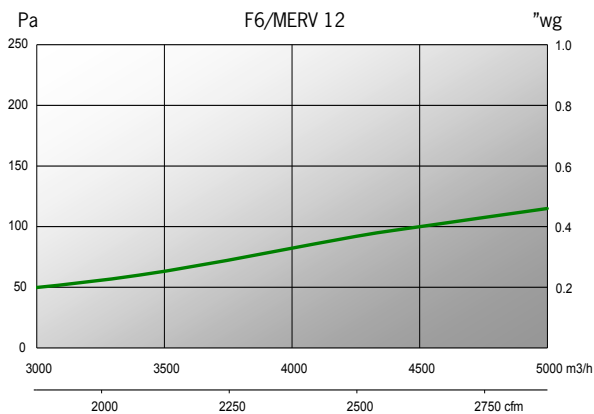


Filter data

Model	W×H×D		Media area		Air flow/Pressure loss		Filter class			Dust holding capacity at 450 Pa/1.8 "wg g/lb/ 3400 m³/h
	mm	inch	m²	ft²	m³/h/Pa	CFM/"wg	EN 779 2002	EN 779 2011	MERV	
Cam-Flo XMGT - F6	592×592×640	23.¼×23.¼×25.2	7.5	80.7	4250/92	2500/0.37	F7	F6	12	891/1.96
Cam-Flo XMGT - F7	592×592×640	23.¼×23.¼×25.2	7.5	80.7	4250/103	2500/0.41	F8	F7	13	806/1.78
Cam-Flo XMGT - F9	592×592×640	23.¼×23.¼×25.2	7.5	80.7	4250/196	2500/0.78	F9	F9	15	752/1.66

The Cam-Flo XMGT is also available in half and special size filters on request.

Pressure drop



Specifications

Type	High efficiency pre-filter	Class EN 779: 2011	F6, F7, F9
Frame	Galvanized steel	Class EN 779: 2002	F7, F8, F9
Media	Plastic fibre, polypropylene	ASHRAE 52.2	Eq. to MERV 12, 13, 15
Temperature	+70 °C max. operating temp.	Dust holding capacity	ASHRAE dust
		Recommended final pressure drop	450 Pa
		Recommended air flow nominal	4250 m³/h / 2500 cfm



Camfil Farr Power Systems

CAMFIL FARR is the world's largest and leading manufacturer of filters and clean air solutions

There is a good chance that, at this very moment, you are breathing clean air that has passed through a filter manufactured by us. Our products can be found everywhere from offices to clean rooms for sensitive electronics production, mines, factories, hospitals and nuclear power stations. Camfil Farr is a global company with 29 subsidiaries, 23 production plants and an extensive network of agents in Europe, North America and Asia.

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