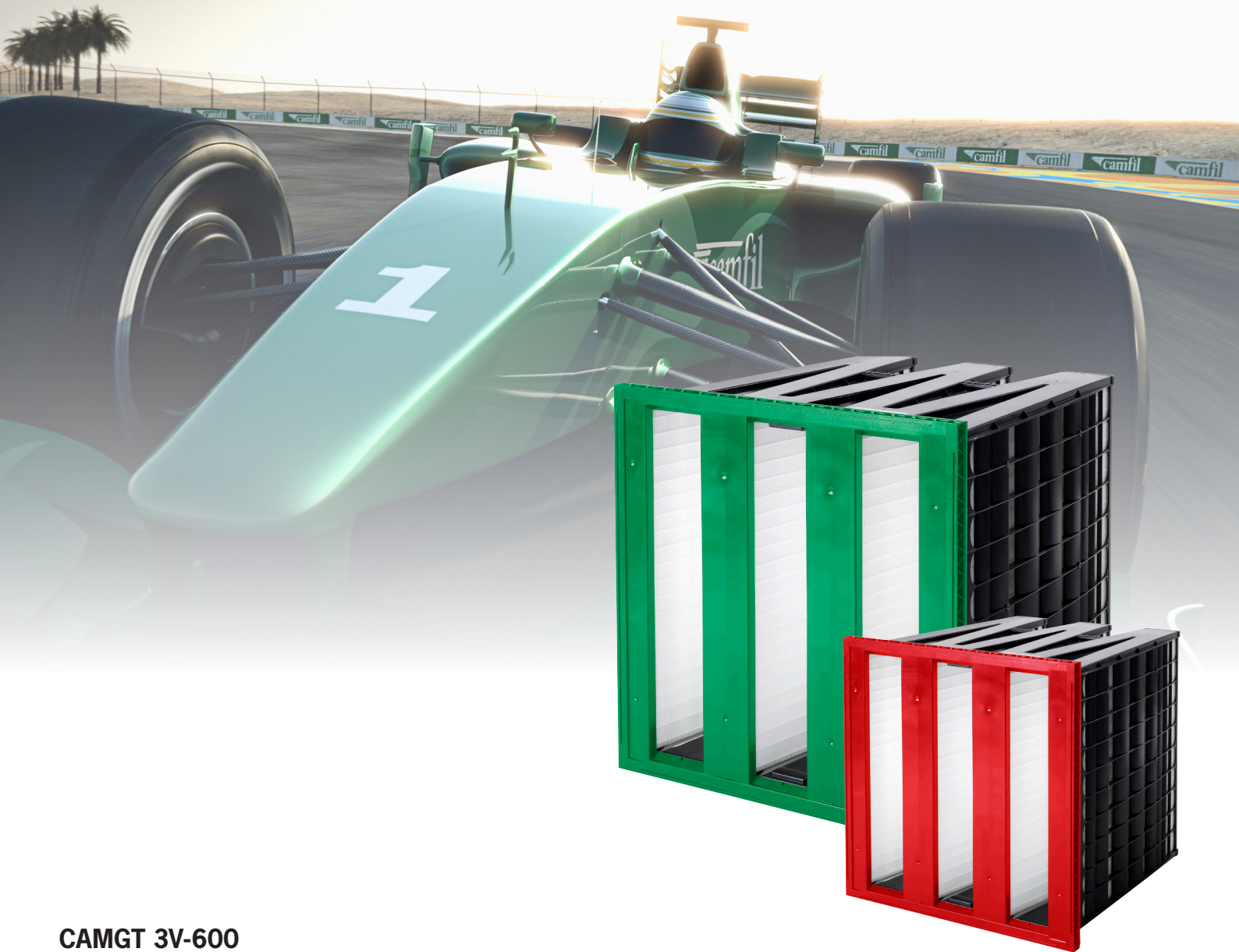




**CAMGT 3V-600**  
**NON STOP**  
**PERFORMANCE**

Clean air solutions for turbomachinery



## CAMGT 3V-600

# THE WINNING FORMULA FOR NON STOP PERFORMANCE

Air inlet filtration systems are essential for the operation of gas turbines and other turbo machinery. As the demand for gas turbine thermal efficiency escalates with firing temperatures increasing and machine tolerance decreasing, gas turbines become more sensitive to particles in the combustion air. This leads to requirements for more efficient and reliable air filtration equipment.

Engine availability is also a main concern for power producers and operators in the oil & gas industry where frequent

maintenance or unplanned stops are extremely costly. The need for longer service intervals and higher output, is forcing operators to optimize their air inlet systems, in both a short and long-term perspectives.

To meet increasing demands for performance and power output, Camfil has developed a new design meeting all the requirements of the latest gas turbines, diesel engines and compressors whilst maximising yield and minimizing costs – the CamGT 3V-600.

The CamGT 3V-600 has a solid 600 mm deep frame, which allows for unparalleled media area. Each filter grade is aerodynamically optimized in order to provide the lowest possible pressure drop and longest available life.

Upgrading your inlet system with (H)EPA CamGT 3V-600 can eliminate compressor washing, extend turbine life, and reduce total cost of ownership.

# MAXIMUM AVAILABILITY

The filter has a solid, airtight frame and a new technique for fixing the media to the frame; the double-sealing design. The same bonding technique is used in ULPA-class cleanroom filters, with the filter media packs glued onto a plastic container firmly fixed to a durable plastic frame. The double sealing prevents air bypass—a common phenomenon in ordinary inlet air filters that allows salt as well as coarse and submicron particles to bypass the filters. The end result is fouling, wearing down of turbine components and unnecessary and expensive downtime

### Superior engine protection

Operators typically specify a minimum of F9 efficiency or preferably stepping up to the EPA class range from E10 to E12 (EN 1822) which has a dramatic effect on engine fouling. With E12 efficiency we have taken the step into the “clean-room” world which enables operation periods of 2-3 years between shutdowns for water washing or filter replacement.

The CamGT is available in a range of efficiencies to meet individual requirements from F8 to E10-H13 (H)EPA grade filters.



*Ideal for installations with recurrent high humidity, industrial and rural environments as well as dry, arid and arctic areas.*

# FOR SAFE OPERATION

A gas turbine filter is sometimes exposed to extreme peaks in pressure drop, and so to prevent the media from bulging or bursting aerodynamic grids are added to the air exit sides.

To ensure the best possible protection, the CamGT 3V-600 has been tested under extreme conditions. Our specialized gas turbine test rig simulates the harshest environment with simultaneous heavy dust load, high humidity and high salt concentration. Combined with the new solid frame, the filter withstands a continuous pressure drop of over 6250 Pa under these extreme conditions.

### Resistant to humidity

The CamGT's large filter surface is based on Camfil's patented construction featuring vertical pleating and hot melt separators for optimum water handling.

The CamGT's construction allows trapped water to drain freely from the filter during operation, thus avoiding re-entrainment of dissolved impurities and maintaining low pressure drop under high humidity conditions.

### Key features

- High filtration efficiency
- Low pressure drop also in wet conditions
- Long filter life
- Resistant to turbulence

### User benefits

- Increased turbine availability
- Lower fuel consumption
- Higher power output
- Extended turbine life
- Reduced life cycle costs (LCC)



LESS FUEL CONSUMPTION



LESS MAINTENANCE STOPS



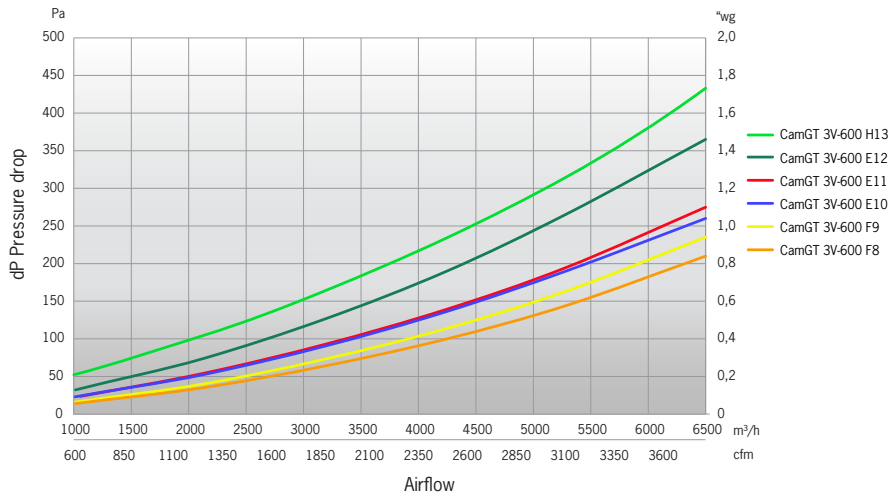
MAX AVAILABILITY



REDUCED COSTS

# Camfil Power Systems

## Pressure drop



Camfil filters are tested in our R&D center in Trosa, Sweden and also at a third party, in accordance with EN779 and ASHRAE 52.2. In addition burst pressure tests have been conducted according to the industry's latest and most stringent standards.

## Technical data

Model	WxHxD		Shipping data		Air flow/Press. loss		Filter class
	mm	inch	m <sup>3</sup> /ft <sup>3</sup>	kg/lb	m <sup>3</sup> /h/Pa	CFM/''wg	EN/ASHRAE
CamGT-F8	592x592x600	23.1/3x23.1/3x23.3/4	0.22 / 7.8	15 / 33	4250 / 95	2500 / 0.38	F8 / MERV 14
CamGT-F9	592x592x600	23.1/3x23.1/3x23.3/4	0.22 / 7.8	15 / 33	4250 / 115	2500 / 0.46	F9 / MERV 15
CamGT-E10	592x592x600	23.1/3x23.1/3x23.3/4	0.22 / 7.8	16 / 34	4250 / 135	2500 / 0.54	E10 / MERV 16
CamGT-E11	592x592x600	23.1/3x23.1/3x23.3/4	0.22 / 7.8	16 / 34	4250 / 140	2500 / 0.56	E11
CamGT-E12	592x592x600	23.1/3x23.1/3x23.3/4	0.22 / 7.8	17 / 35	4250 / 190	2500 / 0.76	E12
CamGT-H13	592x592x600	23.1/3x23.1/3x23.3/4	0.22 / 7.8	17 / 35	4250 / 240	2500 / 0.96	*H13

\* >99,97% efficiency@ 0,3 μm (= American HEPA)

<b>Type</b>	Compact pleated filter	<b>Rec. temperature</b>	70°C/158°F max. operating temp.
<b>Frame</b>	Injection moulded plastic	<b>Rec. final pressure drop</b>	600 Pa / 2.4" wg
<b>Media</b>	Pleated water resistant glass fiber media	<b>Burst strength</b>	>6 250 Pa continuous wet/soaked
<b>Separators</b>	Hot melt	<b>Efficiency class</b>	EN 1822:2009
<b>Gasket</b>	Continuous PU foam		EN779:2012
<b>Seal</b>	Polyurethane double sealing system		ASHRAE 52.2:2017

[www.camfil.com](http://www.camfil.com)

For further information please contact your nearest Camfil office.