

Hemipleat® technology combined with high efficiency synthetic media

- Proven open pleat technology reduces pressure loss
- Improved dust release extends filter life
- High efficiency, non discharging T9 & T10

Clean air solutions for turbomachinery

# CAMPULSE OFFERS PREMIUM PROTECTION

Supplying filtered combustion and ventilation air in harsh environments presents a technical challenge. In addition to the high dust load, there are also industrial contaminants to contend with, such as hydrocarbons, cement, shot-blast sand, dust from construction work etc.

## Protection for harsh environments

The climate also brings challenges, including salt-laden coastal storms or frequent ground fog. Solid particles, salt and other aggressive contaminants and aerosols can cause plugging and corrosion, resulting in deterioration in performance, higher operating costs and expensive shutdowns.

In high-dust environments, a pulse filter system is usually the ideal choice,

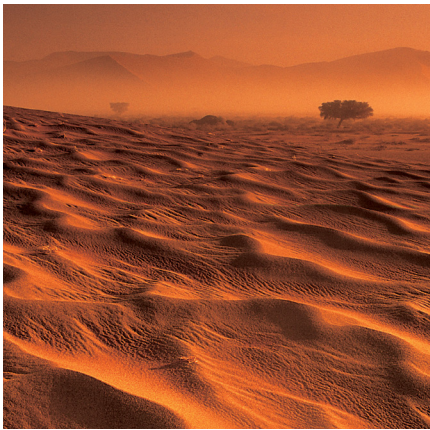
because the self-cleaning process allows for full and continuous operation with low, stable pressure drop. Self-cleaning or pulse filters were originally developed for use in desert or arctic environments where they pulsed off sand particles or snow and ice.

Historically these types of filters have been judged on their ability to capture and release coarse particles. This feature is still important, but most installations have other problems to handle, such as daily humidity and fog variations.

Some types of particle are hygroscopic and absorb humidity. Salt is traditionally one of the most difficult particles to filter, due to its ability to

change drastically in size and also to transform from a solid to a liquid. A salt particle can increase five- or sixfold in size purely as a result of humidity.

In order to provide the best possible protection and optimize engine performance, the filtration solution must be adapted to the specific site conditions. CamPulse GT is available in three different media options fully compliant with gas turbine manufacturers' performance specifications.



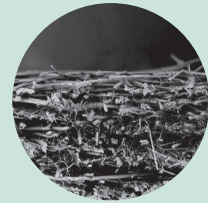
# CHOICE OF MEDIA

## GTC Synthetic

The GTC has a non-discharging fibre media with unique properties, giving the filter a high level of efficiency over its entire lifetime. The smooth synthetic fibres offer low resistance to airflow and, therefore, maintain a low pressure drop during the life of the filter. The combination of depth-loading coarse fibre media and a nano fiber core is the ideal solution for removing hygroscopic particles in areas of high humidity, such as coastal and wet tropical environments. The GTC option is the preferred choice for most installations.

**GTC (T9):** Ideal balance between pressure drop, filtration efficiency, and service life. This option provides good engine protection for most onshore locations that see a variety of contaminants.

**GTC10 (T10):** Enhance engine protection in coastal locations, as well as locations where there are small hydrocarbons, salt, corrosive particulates, or when there is high sulfur quantity in the fuel. This is ideal in applications where performance and capacity drive maintenance and life cycle cost considerations.



\*T9 & T10 acc. to ISO 29461-1:2021

# FOR ALL ENVIRONMENTS

- = First choice for highest performance and filter life time
- = Recommended for good performance and filter life time
- = Adequate performance

N.B These recommendations are for comparing Camfil products only. For other products, compare given test data.

	<b>Coarse particle/dry</b> High dust concentration in dry rural and industrial areas.	<b>Semi-Arid</b> Arid, frequent ground fog, seasonal humidity. Heavy dust concentration	<b>Urban/industrial</b> High dust load and contaminants like hydrocarbons, cement, blast sand, gypsum	<b>Humid areas</b> Inland and coastal areas. Hot and humid. Agriculture may produce corrosive dust	<b>Arctic areas</b> Cold dry air. Frost and ice fog. Silica. Quartz. Carbon. Iron. Iron oxide. Sodium	<b>Desert areas</b> Arid. Fluctuations in wind speed and dust concentration.
GTC (T9)	●●	●●●●	●●●●	●●●●	●●●●	●●
GTC10 (T10)	●●	●●	●●●●	●●●●	●●●●	●
PolyTech	●●●●	●●	●●	●●	●●	●●●●



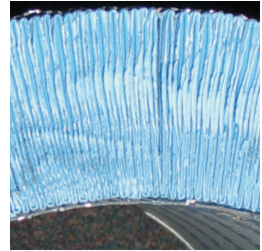
In situ testing clearly shows that Camfil's unique pleating technology, the HemiPleat®, outperforms the competition. The HemiPleat® captures more air pollutants and releases more when pulsed. This results in less fouling and a longer filter life.

#### Unique pleating technology

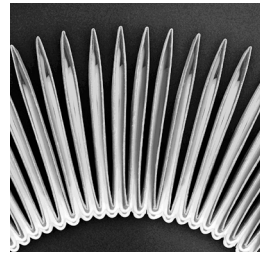
Synthetic beads hold the pleats further open and the wider spacing in the HemiPleat® design gives greater media utilization and more effective filtration. The HemiPleat® cartridge has been subjected to multiple tests in the lab and in the field. During the tests, the HemiPleat® media showed properties that

greatly enhance the effect of pulse-jet cleaning, together with other desirable characteristics.

- The cartridge has a lower clean media pressure drop for a given airflow.
- It holds a larger volume of dust before requiring cleaning than filters with more tightly packed media.
- It has more available/usable media for filtration.
- Particulate matter is ejected from deep within the pleats during pulsing.



Typical industry packed media pleats



HemiPleat® breathable media pleats

Replacement upgrade available for non-camfil inlet systems.



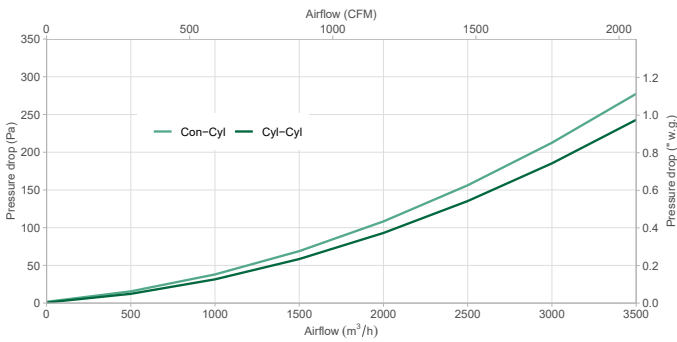
## Space is money

CamPulse cylindrical cartridges comes in a double package, two filters in one unit, for optimized storage and half the shipping cost.

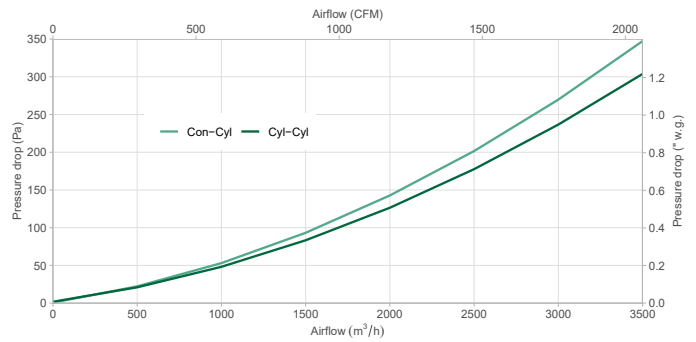


## Pressure drop

CAMPULSE GTC (T9)



CAMPULSE GTC10 (T10)



## Technical data

Model	Media	Length x O.D.		Shipping data		Air flow/Press. loss		Filter class ISO 29461-1:2021
		mm	inch	m³/ft³	kg/lb	m³/h / Pa	CFM / "wg	
CamPulse GTC Conical-Cylindrical	Synthetic GTC	660 x ø324 660 x ø445	26 x ø12 <sup>3</sup> / <sub>4</sub> 26 x ø17 <sup>1</sup> / <sub>2</sub>	0.15 / 5.3	12.0 / 26 <sup>1</sup> / <sub>2</sub>	2500/165	1470/0.66	T9
CamPulse GTC Cylindrical-Cylindrical	Synthetic GTC	660 x ø324 660 x ø445	26 x ø12 <sup>3</sup> / <sub>4</sub> 26 x ø17 <sup>1</sup> / <sub>2</sub>	0.15 / 5.3	12.0 / 26 <sup>1</sup> / <sub>2</sub>	2500/140	1470/0.56	T9
CamPulse GTC10 Conical-Cylindrical	Synthetic GTC10	660 x ø324 660 x ø445	26 x ø12 <sup>3</sup> / <sub>4</sub> 26 x ø17 <sup>1</sup> / <sub>2</sub>	0.15 / 5.3	12.0 / 26 <sup>1</sup> / <sub>2</sub>	2500/200	1470/0.80	T10
CamPulse GTC10 Cylindrical-Cylindrical	Synthetic GTC10	660 x ø324 660 x ø445	26 x ø12 <sup>3</sup> / <sub>4</sub> 26 x ø17 <sup>1</sup> / <sub>2</sub>	0.15 / 5.3	12.0 / 26 <sup>1</sup> / <sub>2</sub>	2500/175	1470/0.70	T10
Tenkay GTC	Synthetic GTC	864 x ø362	34 x ø 14 <sup>1</sup> / <sub>4</sub>	0.14 / 4.95	8.6 / 19	1150/115	680/0.46	T9
Tenkay GTC10	Synthetic GTC10	864 x ø362	34 x ø 14 <sup>1</sup> / <sub>4</sub>	0.14 / 4.95	8.6 / 19	1150/200	680/0.80	T10

<b>End caps</b>	Galvanized steel, stainless steel or powder coated	<b>Gasket</b>	Continuous PU
<b>Pleating</b>	HemiPleat® (also available as dimple pleat on request)	<b>Rec. temperature</b>	70°C / 160°F Operating 80°C / 180°F Surge
<b>Liner</b>	External helical cords and internal screen secure the filter element from movement without obstruction to the pulse.	<b>CamPulse standard configuration</b>	Cylindrical/Cylindrical for optimum dP Also available as Cylindrical/Conical
		<b>Efficiency standard</b>	ISO 29461-1:2021

# Camfil Power Systems

## **Camfil – a global leader in air filters and clean air solutions**

For more than half a century, Camfil has been helping people breathe cleaner air. As a leading manufacturer of premium clean air solutions, we provide commercial and industrial systems for air filtration and air pollution control that improve worker and equipment productivity, minimize energy use, and benefit human health and the environment. We firmly believe that the best solutions for our customers are the best solutions for our planet, too. That's why every step of the way – from design to delivery and across the product life cycle – we consider the impact of what we do on people and on the world around us. Through a fresh approach to problem-solving, innovative design, precise process control and a strong customer focus we aim to conserve more, use less and find better ways – so we can all breathe easier.

The Camfil Group is headquartered in Stockholm, Sweden, and has 31 manufacturing sites, six R&D centres, local sales offices in 35+ countries, and 5,200 employees and growing. We proudly serve and support customers in a wide variety of industries and in communities across the world. To discover how Camfil can help you to protect people, processes and the environment, visit us at [www.camfil.com](http://www.camfil.com).

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For further information please contact your nearest Camfil office.