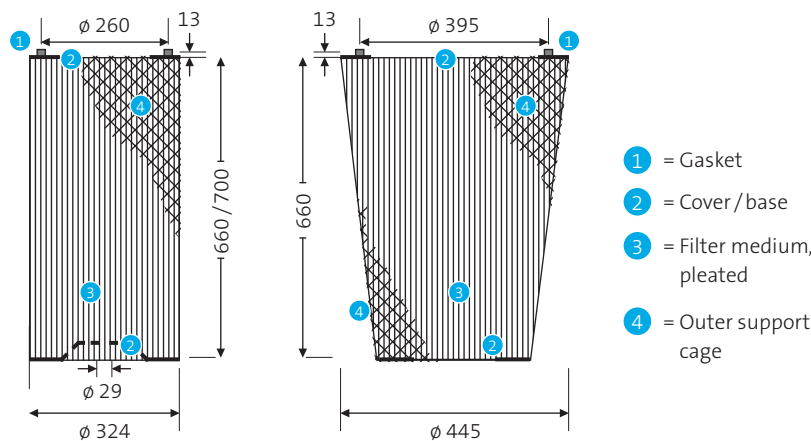


HIGH FILTERING PERFORMANCE FOR GAS TURBINES AND COMPRESSORS

DEPTH-LOADING FILTER CARTRIDGES – GTG SERIES

CONSTRUCTION / DIMENSIONS



The application

Depth-loading filter cartridges of the GTG series are used in supply air filtration systems for gas turbines and turbo compressors.

The concept

GTG depth-loading cartridges with their optimum pressure drop characteristics and maximized useful lifetimes, significantly enhance the cost efficiency of turbomachinery systems.

They are particularly successful whenever the cleaning of surface filter cartridges does not produce any effective reduction in pressure drop, because the dust concentrations are too low and/or the dusts concerned are too sticky.

The characteristics and the benefits

- Innovative high strength synthetic micro-glassfiber nonwoven with water repellent coating and uniform

pleat spacing for maximum dust holding capacity.

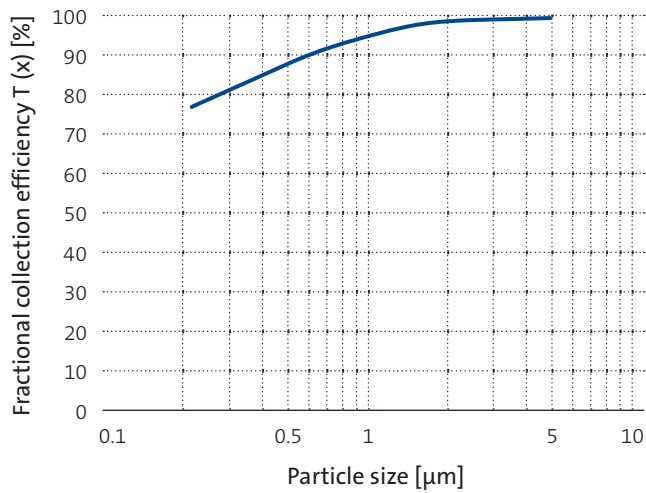
- The filter medium offers excellent initial efficiency (of Filter class F9 level), high dust holding capacity, low pressure drop and high cost efficiency. This makes the GTG cartridges particularly suitable for locations with high fine dust concentrations in the ambient air.
- GTG cartridges have been optimized in terms of filtering area, pleat depth and number of pleats which means the active filtering area remains completely effective over its entire operating lifetime.
- The pleat pack, plus the inner and outer support cages are cast into the steel-galvanized or stainless steel end caps in a leakproof configuration. The foamed-on EPDM gasket ensures optimum sealing against the mounting plate.
- GTG depth-loading cartridge filters can be obtained in a variety of other dimensions and designs.
- The Freudenberg Filtration Technologies product range comprises other cartridge solutions for pulse applications.

TECHNICAL DATA

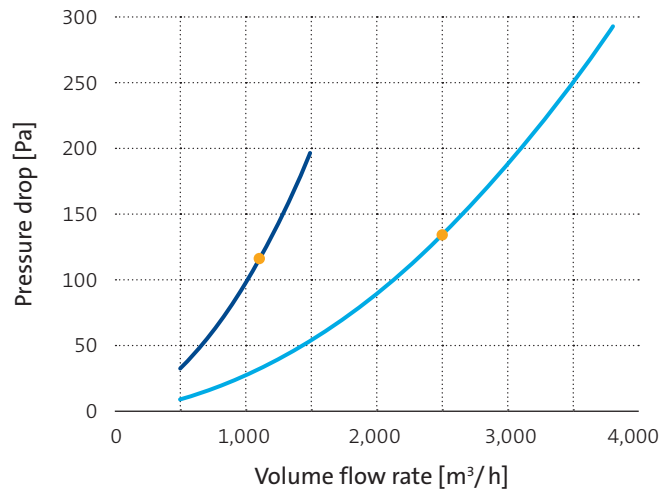
Cartridge dimension / outer diameter	mm	GTG 324-445 W66S0-Set	GTG 445 K66S0	GTG 324 W66S0
Overall height	mm	1,330	660	660
Filter medium		Synthetic micro-glassfiber nonwoven		
Filter area, approx.	m ²	40.1	22.0	18.1
Material for cover, base, support cages		Steel, galvanized		
Gasket		EPDM		
Moisture-resistance (rel. hum.)	%	100		
Thermal stability: continuous operation	°C	70		

TECHNICAL FILTER TEST DATA TO EN 779

Fractional collection efficiency* curve (initial)



Pressure drop curve



— GTG 324 W6650 — GTG 324-445 W6650-Set ● Nominal volume flow rate

* Test conditions: Test at nominal volume flow rate, test aerosol: DEHS, test with laser particle counter in test channel according to EN 779.

KEY DATA		GTG 324-445 W6650-SET	GTG 445 K6650	GTG 324 W6650
Filter class (EN 779:2012)		F9	—	F9
Initial arrestance	%	99.9	—	99.9
Average arrestance	A _a %	>99	—	>99.9
Initial efficiency (0.4 µm)	%	84	—	84
Minimum efficiency (0.4 µm)	%	82	—	82
Average efficiency (0.4 µm)	E _a %	98	—	98
Dust holding capacity approx. (ASHRAE / 450 Pa)	g	>1,750	n.a.	>800
Nominal volume flow rate ●	m³/h	2,500	1,400	1,100
Maximum volume flow rate	m³/h	3,500	2,000	1,500
Initial pressure drop at nominal volume flow rate	Pa	135	—	120
Recommended final pressure drop	Pa	800	—	—

The information or figures given are subject to tolerances due to normal production fluctuations. Our explicit written confirmation is required in each case for the correctness of the information. Subject to technical alterations. You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility.

FREUDENBERG FILTRATION TECHNOLOGIES

Contact us

www.freudenberg-filter.com

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