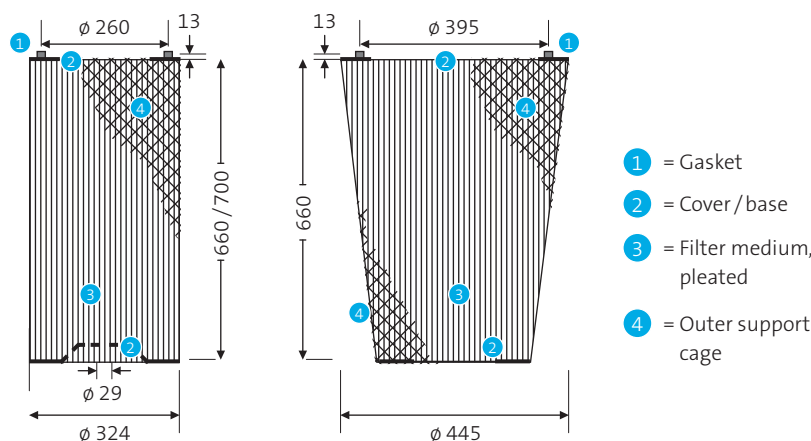


# THE SELF-CLEANING CARTRIDGE SOLUTION WITH AN OPTIMUM PRICE PERFORMANCE RATIO

## PULSE-JET FILTER CARTRIDGES – GTB SERIES

### CONSTRUCTION / DIMENSIONS



### The application

Viledon® self-cleaning pulse-jet filter cartridges of GTB series are used in supply air filtration systems for gas turbines and turbo compressors particularly where cartridges with an optimum price-performance ratio are required.

### The concept

GTB cartridges with their optimized self-cleaning characteristics maximize useful lifetimes and significantly en-

hance the cost lifecycle for supply of air filtration in turbomachinery systems. Here they meet the stringent requirements for clean air quality, in particular under critical on-site conditions where self cleaning cartridges are required and when process safety does not permit any compromises.





### The characteristics and the benefits

- High-strength blended microfiber

nonwoven with water repellent coating that allows the cartridge to maintain excellent operational characteristics in most climatic conditions.

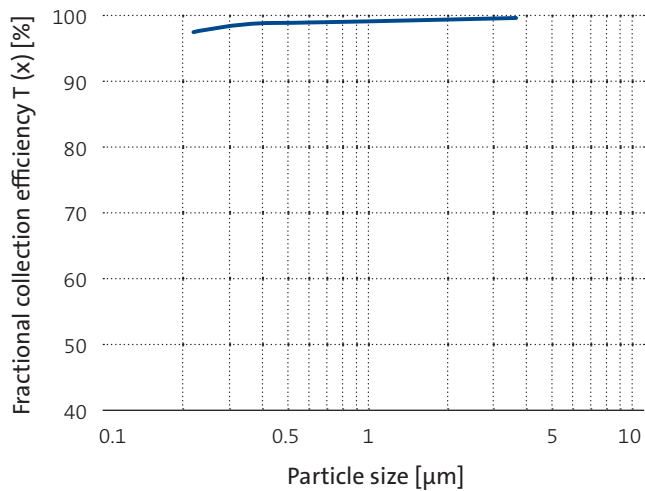
- The filter media, ensure high **arrestance**, high **dust holding capacity** (prior to self cleaning), **low average pressure drop** and **high cost efficiency**. This makes the GTB particularly suitable for predominantly dry locations with high dust concentrations in the ambient air.
- GTB cartridges have been optimized in terms of **filtering area**, **pleat depth** and **number of pleats**.
- To minimize corrosion and handling damage, the inner and outer support cages and end base end caps are made of galvanized steel or stainless steel. All components are cast together to ensure **leak-proof operation** as well as **high security against dust penetration** during pulse operation.
- The foamed-on EPDM gasket ensures optimum sealing against the mounting plate.
- Besides the versions shown, GTB cartridges can be obtained in a **variety of other dimensions and designs** and can be supplied with **installation accessories** (washers and nuts).
- Our product portfolio covers other cartridge solutions offering higher efficiency or with qualification for static applications.

### TECHNICAL DATA

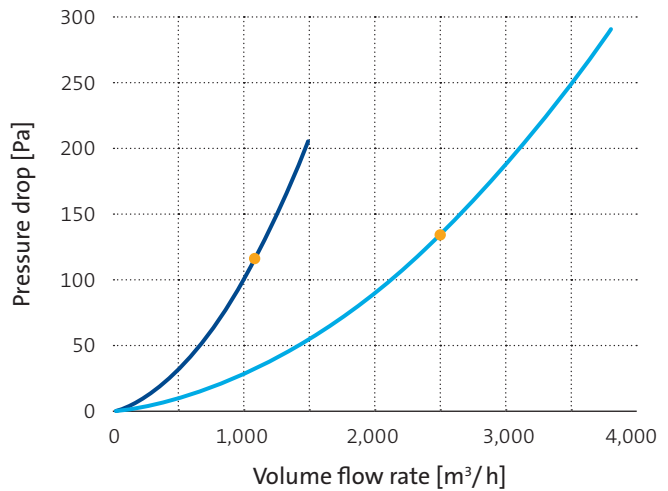
Cartridge dimension / outer diameter	mm	 GTB 324-445 W66S0-Set	 GTB 445 K66S0	 GTB 324 W66S0	 GTB 324 W70S0
Overall height	mm	1,330	660	660	700
Filter medium		Blended synthetic microfiber nonwoven			
Filter area, approx.	m <sup>2</sup>	46	25	21	23
Material for cover, base, support cages		Steel, galvanized			
Gasket		EPDM			
Moisture-resistance (rel. hum.)	%	100			
Thermal stability: continuous operation	°C	70			

# TECHNICAL FILTER TEST DATA TO EN 779

Fractional collection efficiency\* curve (partially loaded)



Pressure drop curve



— GTB 324 W66S0      — GTB 324-445 W66S0-Set      ● Nominal volume flow rate

\* Test conditions: Test at nominal volume flow rate, dust load at 200 g, test aerosol: DEHS, test with laser particle counter in test channel according to EN 779.

KEY DATA			GTB 324-445 W66S0-SET	GTB 445 K66S0	GTB 324 W66S0	GTB 324 W70S0
Initial arrestance		%			96	
Average arrestance	$A_a$	%			> 99	
Initial efficiency (0.4 µm)		%			18	
Average efficiency (0.4 µm)	$E_a$	%			96	
Dust holding capacity approx. (ASHRAE / 800 Pa)		g	2,500	n.a.	1,200	1,200
Nominal volume flow rate	●	m³/h	2,500	1,400	1,100	1,100
Maximum volume flow rate		m³/h	3,500	2,000	1,500	1,500
Initial pressure drop at nominal volume flow rate		Pa	135	—	120	120
Recom. final pressure drop		Pa			800	
Maximum recommended operating pressure		Pa			3,000	

The figures given are mean values subject to tolerances due to normal production fluctuations. Our explicit written confirmation is always required for the correctness and applicability of the information involved in any particular case. Subject to technical alterations.