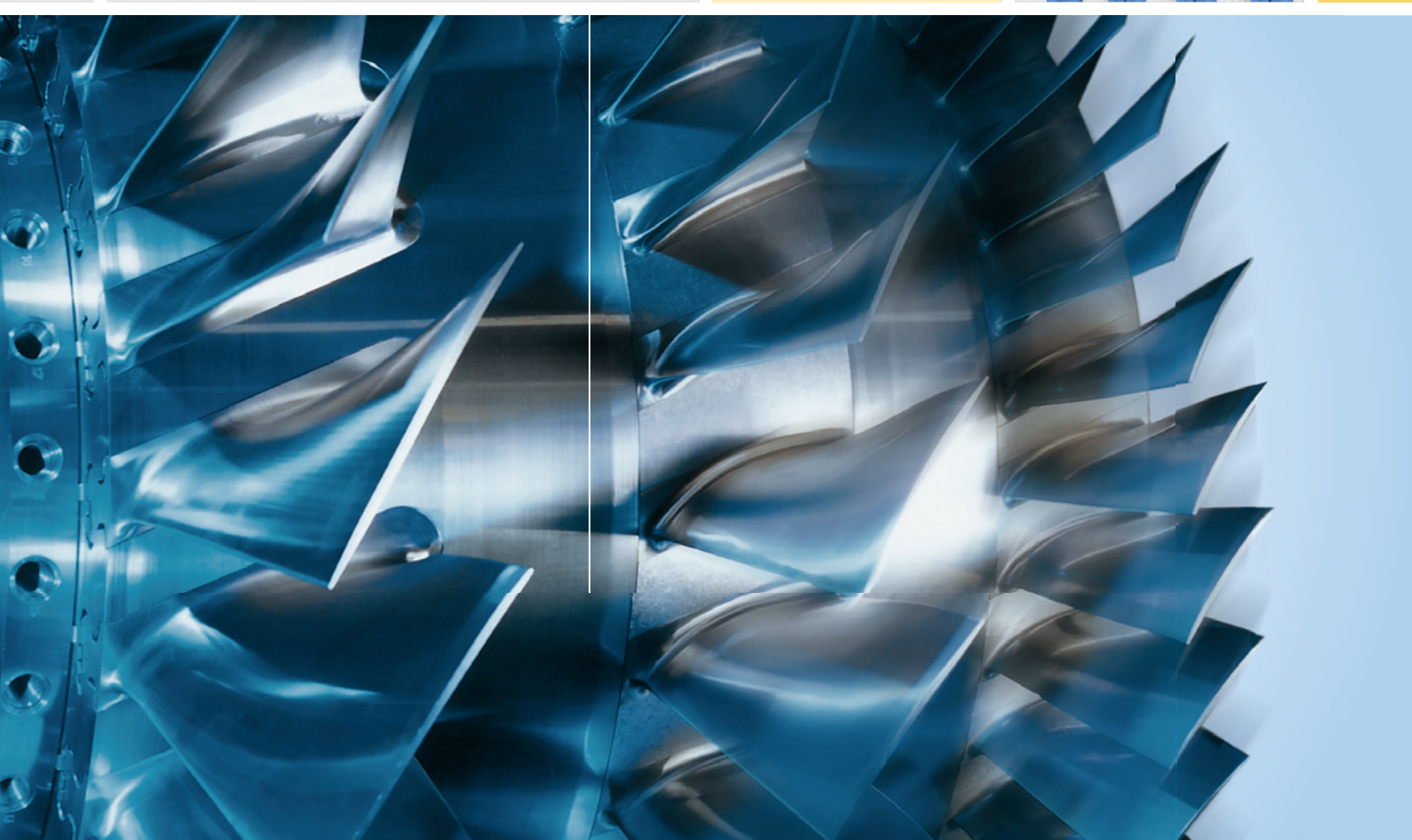
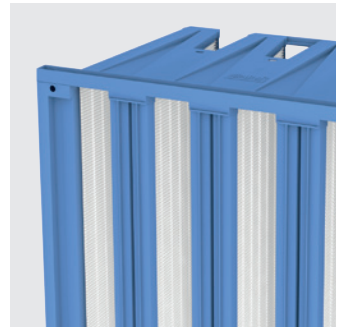




## Viledon® air intake systems

Superior filtration for optimum turbine performance








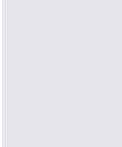




Industrial Air Filtration | Turbomachinery

# The Viledon® filter range

## for optimum turbine performance

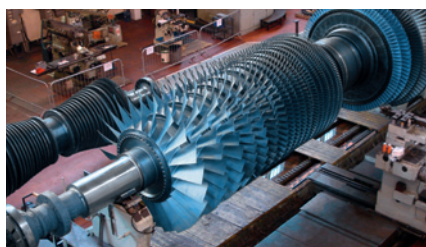
Particle soiling in the intake air is an important factor affecting the operation and efficiency of gas turbines and turbocompressors. Damage to the blading or dust encrustations and fouling on the blades themselves can be prevented by selecting a cost-efficient combination of prefilters and final filters. With the Viledon® filter range, Freudenberg Filtration Technologies offers various solutions tailored to local factors like ambient air conditions, available space and the specifications of the turbomachinery.




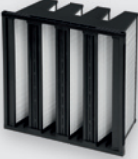






	Prefilters	Pocket Filters					
Key Data	MP 45 KTC	F 45 S	F 40	F 50	T 60	T 90	
							
Filter Class to EN 779 / EN 1822	G4	G4	G4	M5	M6	F7	
Energy Efficiency Class							
Medium + Special features	Progressively structured, thermally bonded nonwovens made from break-resistant synthetic-organic fibers.	High-performance nonwovens made from non-breaking, synthetic-organic fibers. Single- or multi-layered progressive structure of the filter media. T 90 with <b>4-layer</b> progressively structured high-performance nonwoven featuring a nanofiber layer.					
Nominal air flow rate [m³/h]	3,400	3,400	4,250	4,250	4,250	4,250	
Initial pressure drop at nominal air flow rate [Pa]	50	40	30	50	65	115	
Recommended final pressure drop [Pa]	250	250	250	450	450	450	
Bursting strength [Pa]	-	>3,000	>3,000	>3,000	>3,000	>3,000	
Average arrestance [%]	91	95	95	97	99	>99	
Average efficiency [%]	Not applicable	Not applicable	Not applicable	51	63	89	
Dust holding capacity AC Fine / 800 Pa [g]	Not applicable	Not applicable	Not applicable	4,800	5,000	3,000	



energy efficiency  
performance



Cassette Filters				Pulse-jet Filter Cartridges			
MX 75 MX 85 MX 95 MX 98	MX H 10  MX 100 MX 120	eMaxx - 420 mm  	MVP GT 85 MVP GT 95 MVP GT 98 - 292 mm	GTS series GTS 324-445 W 66 S0-Set	GTB series GTB 324-445 W 66 S0-Set	GTG series GTG 324-445 W 66 S0-Set	
							
M 6 F 7 F 8 F 9	E 10 <sup>1</sup> E 11 <sup>1</sup> E 12 <sup>1</sup>	E 10 <sup>1</sup>	F 7 F 8 F 9	F 9 <sup>2</sup>	F 9 <sup>2</sup>	F 9 <sup>2</sup>	
							
High-strength micro-glassfiber papers with a <b>special thermoplastic bonding system and hydrophobic coating.</b>		High-strength synthetic glassfiber papers with <b>hydrophobic coating.</b>	Micro-glassfiber papers with hydrophobic fibers.	High-strength synthetic-microfiber nonwovens with <b>water-repellent coating.</b>	High-strength <b>blend-ed</b> synthetic microfiber nonwovens with <b>water-repellent coating.</b>	High-strength synthetic <b>micro-glassfiber nonwovens</b> with water-repellent coating and uniform pleat spacing.	
4,250	4,250   3,400   3,400	3,400	4,250	2,500	approx. 2,500	2,500	
135   140   150   175	235   195   320	Please ask our sales team for technical data.	125   135   165	130	135	135	
650	650		600	800	800	800	
> 6,000	> 6,000		> 4,000				
Not applicable	Not applicable		Not applicable	99	> 99	> 99	
75   86   92   96	≥ 85 <sup>3</sup>   ≥ 95 <sup>3</sup>   ≥ 99.9 <sup>3</sup>		≥ 80   ≥ 90   ≥ 95	97	96	98	
2,300   1,900   1,700   1,500	approx. 630   610   485		approx. 1,000   880   800	approx. 2,500	approx. 2,500	approx. 1,750	

\* rated at 3,400 m³/h

1 Filter class to EN 1822

2 Filter class in broad conformity with EN 779 (at 800 Pa)

3 Initial minimum efficiency for MPPS

4 Energy Efficiency Class A for MX 85 | 95 | 98

# Complete filter housing construction

## from design and built to operational servicing

### Providing superior solutions

Viledon® Engineering are specialists in the new build, retrofitting, renovation and servicing of filtration installations. With many years of experience in the design and build of cutting-edge filtration plants, we are able to offer a complete, end-to-end service, from initial feasibility studies through to training and operational maintenance programs. We are experienced in providing optimized, cost-efficient solutions for filter plants in all areas of the world, including hot and humid climates.



### A complete engineering portfolio

No matter what the scale of your project is, we can take care of the whole filter housing plant, including:

- Anti-icing systems i.e. Viledon® IceProtect
- Cooling air system
- Electrical equipment
- Fans
- Filter stages
- Front buildings
- Silencers
- Support construction
- Transition ducts and elbows
- Weather hoods

