

DEEP-BED PRESSURIZATION SYSTEMS

viledon®

FOR ENHANCED CORROSION CONTROL

APPLICATION

The **Viledon ChemControl Pressurization Systems** are multi-stage filtration systems that reliably provide complete protection against corrosion. They are designed to cover a wide range of room sizes and various gaseous contaminants which typically occur in paper mills, refineries, smelters, steel and chemical plants.

Viledon **Deep Bed Pressurization Systems (DPS)** are equipped with deep beds to handle high concentrations of gases while optimizing media life time.



KEY DATA	DPS-100	DPS-200	DPS-300	DPS-600	DPS-900
Nominal volume flow [m³/h]	725	1,400	2,100	3,650	5,650
Height [mm]	1,100	1,700	1,700	2,300	2,300
Width [mm]	900	900	1,200	1,600	2,200
Length [mm]	3,000	3,000	3,000	3,600	3,600
Number of filter stages			2		
Air intake			Gitter		
Air outlet			Rohr		
Control panel			IP 65		

MEDIA & CHARACTERISTICS

- Double wall design made of insulated panels, coated inside and outside meeting corrosion resistance category RC5 acc. to DIN55635/EN10169 and anodized aluminum framework, optionally available in stainless steel or painted carbon steel single wall constructions.
- Weatherproof designs: Inlet available with weather louver, weather hood or flange.
- Discharge flange spigot Connection.
- Optional pressure gauges to allow clear monitoring onsite.

BENEFITS

- High quality assembly ensures a smooth interior surface, thereby minimizing frictional losses and providing a positive air seal.
- Horizontal flow direction.
- Systems equipped with two deep bed stages or up to 3 stages with ChemControl modules.
- Pre- and fine filter available in different filter classes.



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.

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www.freudenberg-filter.com

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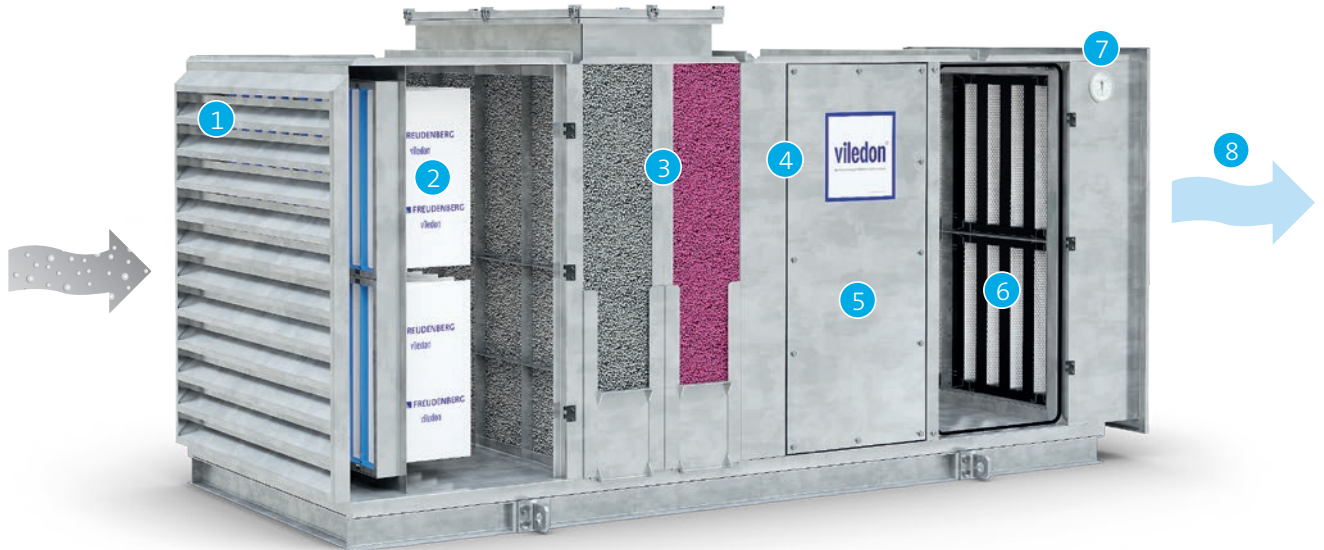
VILEDON DPS SERIES DEEP BED PRESSURIZATION SYSTEMS

viledon®

ENERGY-EFFICIENT SYSTEM SOLUTIONS
FOR ENHANCED CORROSION CONTROL

designed with

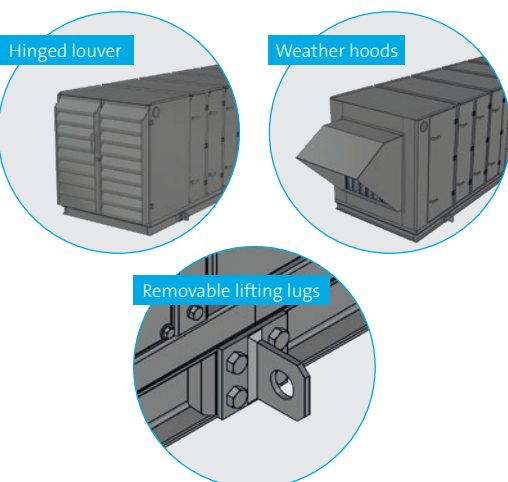
ChemGUIDE



How Viledon® Deep Bed Pressurization Systems work

- 1 Intake of contaminated outside air through louver or optional inlet.
- 2 Pre-filtration: Viledon® Compact pocket filter F 40 S (ISO Coarse 70%) or F 50 S (ISO ePM10 55%).
- 3 2 separate 300 mm deep beds with Viledon® ChemControl Pellets for gas-phase filtration, with filling and discharging ports.
- 4 Welded design suitable for outdoor usage available in different grades of stainless steel or in powder coated carbon steel.
- 5 High efficiency fan with energy optimized centrifugal impellers made of high strength corrosion resistant material with EC-motor and integrated controller to keep the volume flow constant.
- 6 Fine filtration: Viledon® MVP cassette filter with ISO ePM2,5 70%, ISO ePM1 70% or ISO ePM1 85%.
- 7 Local pressure gauge (manometer) for each particle filter stage.
- 8 Outlet of purified air free of fine particles and contaminant gases, flange for duct connection.

VILEDON DEEP BED PRESSURIZATION SYSTEMS (DPS) OPTIONS



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