

MODULE RECIRCULATION SYSTEMS

viledon®

ENERGY-EFFICIENT AND LOW NOISE SYSTEM SOLUTIONS

APPLICATION

The **Viledon ChemControl Module Recirculation Systems (MRS)** are multi-stage filtration systems which can be placed directly in the room to be protected to purify the air exactly at the place needed. They have an optimized footprint and handle low and medium concentration of various corrosive gases.

The Module Recirculation Systems (MRS) are equipped with a pre-filtration stage made of a progressively structured nonwoven of non-breaking synthetic-organic fibers with a stable polypropylene plastic frame, up to two stages of ChemControl Modules and as well cassette filters to ensure secure fine filtration.

They are also available with an additional pressurization function using an admixture of air from outside the room. The proportion between recirculated air and outside air can be adjusted by a manual damper placed at the top of the unit.



KEY DATA	MRS-025	MRS-100	MRS-200
Depth [mm]	450	750	750
Nominal volume flow [m³/h]	450	1,800	3,600
Height [mm]	1,500	2,300	2,300
Width [mm]	450	750	1,350
Number of filter stages	1	2	2
Number of modules per stage		4	8

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, alternatively stainless steel or painted carbon steel single wall constructions.
- High quality assembly ensures a smooth interior surface, thereby minimizing frictional losses and providing a positive air seal.
- Optional pressure gauges to allow clear monitoring onsite.

BENEFITS

- High quality pre-filter and fine filter (available in different filter classes) stage.
- Vertical flow direction.
- Units equipped with up to 2 stages of ChemControl modules.



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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Contact us

www.freudenberg-filter.com

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FILTRATION TECHNOLOGIES

VILEDON MRS SERIES MODULE RECIRCULATION SYSTEM

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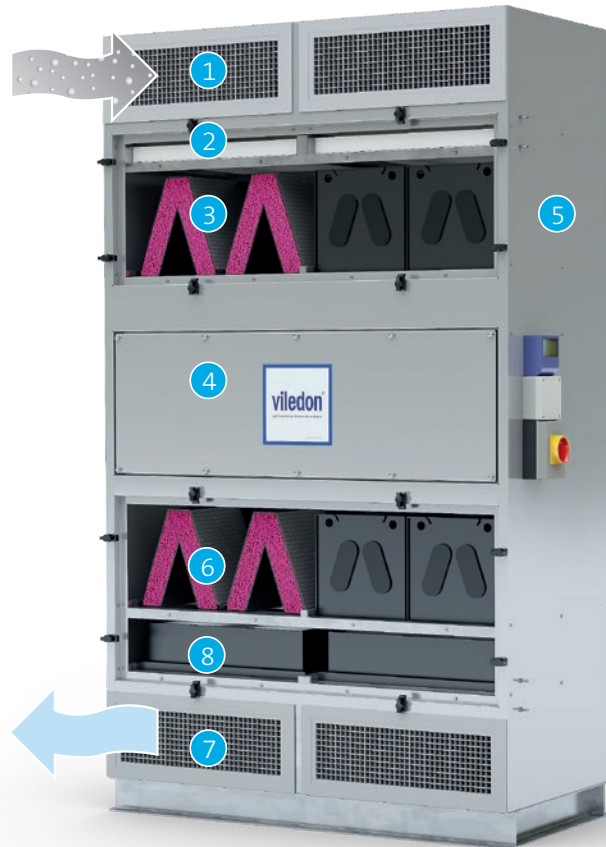
ENERGY-EFFICIENT SYSTEM SOLUTIONS FOR
ENHANCED CORROSION CONTROL

designed with

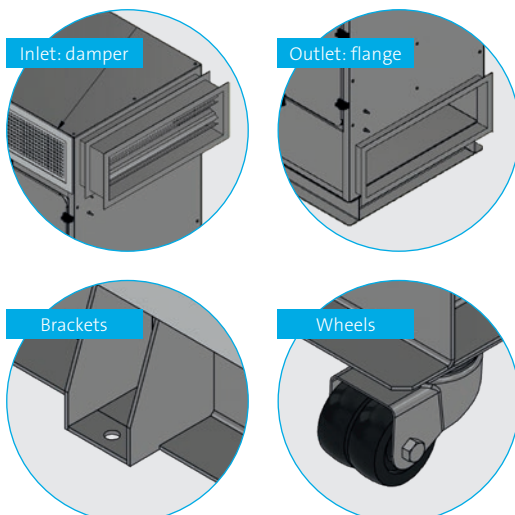
ChemGUIDE

How Viledon® Module Recirculation Systems work

- 1 Intake of contaminated air through grill or optional inlet.
- 2 Pre-filtration: Viledon® filter cells MP45 with ISO Coarse 65%.
- 3 Up to 2 gas-phase filtration stages with Viledon® ChemControl Modules (CCM1205 or Deep Boxes).
- 4 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 (minimum IP54 or equivalent).
- 5 Welded design suitable for indoor usage available in different grades of stainless steel or in powder coated carbon steel.
- 6 Tapping point for differential pressure measurement for each particle filter stage.
- 7 Fine filtration: Viledon® MaxiPleat cassette filter with ISO ePM2,5 65%.
- 8 Outlet of purified air free of fine particles and contaminant gases through grill or optional outlet.



VILEDON MODULE RECIRCULATION SYSTEMS (MRS) OPTIONS



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