

ACCESSORIES

MOUNTING FRAMES, SEALS



Freudenberg Filtration Technologies offer high-quality accessories matched to the entire range of filters. These include mounting frames for air filters, clip-on seals for mounting frames, pressure drop measuring instruments, and an extensive range of accessories for dust removal filters.



ACCESSORIES

MOUNTING FRAMES



SPECIFICATIONS	
Note	ARV = Mounting frame galvanized; ARE = Mounting frame stainless steel

Design features

- High inherent rigidity thanks to special jointing process and large construction depth.
- Centering guides assure optimum positioning of the filter elements.
- Consistent leakproofing thanks to four friction-locked clamping springs, which are fixed in position in “locking noses”.
- The shape of the springs enables the filters to be easily installed and removed, since the free cross-sectional area of the mounting frame is available in full.
- The boreholes for the screws have been selected so as to ensure that mounting frames of different sizes can be combined without any problems.
- An ultra-flexible, silicone-free rubber clip-on seal with a hollow compartment is supplied with the frame. The clip-on seal is weather-proof and thermally stable within a range of approx. -40 °C to +100 °C, with good resistance to alcohols, lyes and weak acids, and very long-lived.
- Depending on the size of the filter wall, and the stresses acting on it, we recommend providing additional reinforcements as a substructure. M 6 × 8 screws should be used for affixing the frames; if reinforcements are provided, then correspondingly longer screws must be selected.

Application category

Designing new air-conditioning systems and modifying existing ones with variable dimensions.

Use

Supporting Viledon® filters with a top frame, e.g. Compact pocket filters or MaxiPleat cassette filters. Panel filters featuring the standard depth of 48 mm can also be installed.

Execution

Non-corroding stainless steel (material 1.4301) or galvanized steel sheeting (U-St 1203), burr-free, inherently rigid, in four sizes. Operationally dependable clamping spring system with four clamping springs and mechanical locking, including rubber clip-on seal enclosed loose. The mitered corners are rendered airtight with a permanently elastic sealing compound.

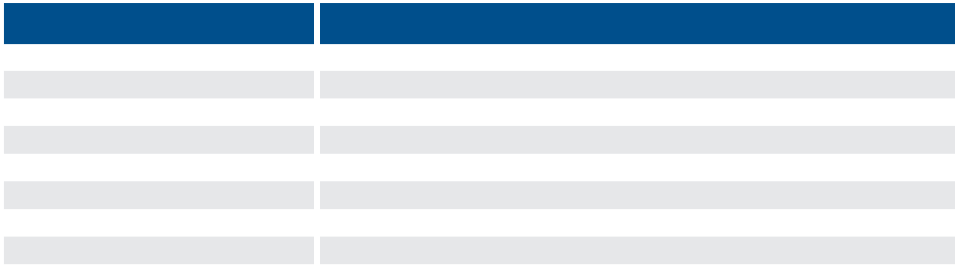
ARTICLE	ARTICLE NUMBER	DIMENSIONS (W × H × D) [mm]	SUITABLE FOR FILTERS IN THE DIMENSIONS [mm, approx.]
ARV-LD NF 1/1 A-Rahmen verzinkt mit Dichtung	53373316	610 × 610 × 75	1/1 592 × 592
ARE-LD NF 1/1 A-Rahmen Edelstahl mit Dichtung	53373325	610 × 610 × 75	1/1 592 × 592
ARV-LD NF 5/6 A-Rahmen verzinkt mit Dichtung	53435027	508 × 610 × 75	5/6 490 × 592
ARE-LD NF 5/6 A-Rahmen Edelstahl mit Dichtung	53435039	508 × 610 × 75	5/6 490 × 592
ARV-LD NF 1/2 A-Rahmen verzinkt mit Dichtung	53377509	305 × 610 × 75	1/2 287 × 592
ARE-LD NF 1/2 A-Rahmen Edelstahl mit Dichtung	53377510	305 × 610 × 75	1/2 287 × 592
ARV-LD NF 1/4 A-Rahmen verzinkt mit Dichtung	53435028	305 × 305 × 75	1/4 287 × 287
ARE-LD NF 1/4 A-Rahmen Edelstahl mit Dichtung	53435040	305 × 305 × 75	1/4 287 × 287

Subject to technical changes.



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SEALS



Clip-on seal

- U-shaped seal profile made of closed-pore EPDM soft rubber with embedded wire clamping band and formed sealing lips plus a hollow compartment made of EPDM cellular rubber; colour: Black.
- The seal can be installed without needing any tools simply by pressing it in place by hand.
- The clip-on seal is held in position by the clamping effect of the rubber lips; no adhesives or other attachment aids are required.
- The Viledon® clip-on seal is weatherproof and thermally stable in the range from -40 °C to +100 °C, possesses good resistance to alcohols, lyes and weak acids, and is durable. It is not resistant to concentrated acids, chlorinated hydrocarbons, aromatic hydrocarbons, oil and fuel.
- Good paint-compatibility, silicone-free.

Delivery notes

Other seals available on request.

ARTICLE	ARTICLE NUMBER	LENGTH [m]
Clip-on seal AR 2.5 running meters	53453283	2.5
Clip-on seal AR 50 meters roll	53466122	50

Subject to technical changes.

ACCESSORIES

ACCESSORIES FOR DUST REMOVAL FILTERS | PULSE-JET REFLECTORS + DISPLACER UNITS



PJR Pulse-jet reflectors

PJR pulse-jet reflectors are available as an accessory and are the perfect match for filter cartridges. They improve air pressure behavior during the filtration operation by optimizing the intake of secondary air. When using Viledon® filter cartridges and other commercially available filter cartridges with nominal diameters of 145, 155, 218, 324 and 327 mm, these pulse-jet reflectors can be easily attached with snap hook technology.

Features and benefits

- Unique solution with new snap hook technology. PJR snaps onto the cartridge flange.
- New: PJR327 now available for DIN cartridges.
- Easy installation – simply insert them into the cartridge – Click & Fix.
- Can be ordered as an optional accessory.
- Simple retrofitting for Viledon® filter cartridges as well as many other commercially available cartridge models.

Displacer unit

Use of the displacer unit leads to a significant increase in cleaning intensity, which means real savings in terms of operating and capital investment costs. The tank pressure must be restricted to a maximum of 3 bar, or if the maximum tank pressure is retained, the valves must be reduced by one size.

Delivery notes

Customized dimensions are available on request.

ARTICLE	ARTICLE NUMBER	CONSTRUCTION HEIGHT [mm]
PJR 145-152-155	53535691	80
PJR 218	53535692	80
PJR 324-327	53535693	80
Verdränger-Einheit 327/0600	53283768	585
Verdränger-Einheit 327/1000	53283767	985
Verdränger-Einheit 327/1200	53281463	1,185
Verdränger-Einheit 327/1500	53283766	1,485

Subject to technical changes.

ACCESSORIES FOR DUST REMOVAL FILTERS | FILTERING AID FHM 1500



Application

In what application categories does precoating with FHM 1500 offer advantages?

- Plasma / flame and laser-cutting of metals.
- Welding.
- Cleanable “police filter” stages.
- Sticky dusts.
- Coating processes like spray-galvanizing, spray-aluminizing.
- Applications with low raw-gas concentrations.

What is precoating?

Precoating involves adding a suitable filter aid to the actual process dust.

When is precoating used?

In the case of low raw gas loading and /or very fine dust particles or ticky dusts.

Why is precoating used?

- To improve cleaning properties.
- For lower stable differential pressures.

First precoating process with FHM 1500?

- Dosage: approx. 10 g / m², once on new filter cartridge.
- Precoating duration and process: apply FHM 1500, then compact with process dust at a differential pressure from 2,000 to 2,500 Pa for at least 15 minutes. The cleaning process has to be turned off until maximum differential pressure has been reached.

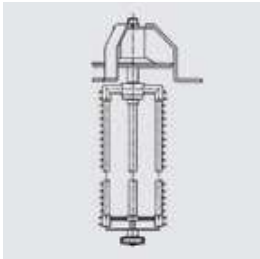
Important: Precoating and compression without cleaning. In accordance with the relevant DIN safety data sheet, wearing a respirator mask of protection level FFP1 is recommended when handling the FHM 1500.

ARTICLE	ARTICLE NUMBER	WEIGHT [kg]
Filter aids 1500	53474679	0.1
Filter aids 1500	53474681	0.5
Filter aids 1500	53301586	1

Subject to technical changes.

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ACCESSORIES FOR DUST REMOVAL FILTERS | ROTARY NOZZLE SYSTEMS



SPECIFICATIONS	
Suitable filter cartridges	Ø = 327 mm, H = 602 mm and 1,202 mm, particularly with small pleat spacings

Application

The ROG 600 F-PL and ROG 1200 F-PL rotary nozzle systems ensure effective cleaning of filter cartridges with Ø = 327 mm, H = 602 mm and 1,202 mm, particularly with small pleat spacings.

Features and benefits

- Lasting operational dependability.
- The nozzle vane is mounted on life-time-lubricated ball-bearings encapsulated on both sides.
- Air distributor pipes and lower supporting rib plus stop plate made from high-quality, glass-fiber-reinforced plastic.
- High accuracy of fit of all joints to assure optimum concentricity.
- Quasi-offline cleaning featuring clean-gas-side stop plate operated by compressed air.
- Additional devices for securing the cartridge not required.

ARTICLE	ARTICLE NUMBER	OPERATING PRESSURE [bar]	SOLENOID VALVE + AIR FEEDING LINE ["]	PULSE TIME [s]	AIR-CONSUMPTION PER PULSE [standard liters]
Rotary nozzle 1200/F-PL/P946713	8928695	2.5–3.5	3/4	0.8–1.0	160
Rotary nozzle 600/F-PL/P946712	8925662	3.0–4.0	1	1.0–1.5	250

Subject to technical changes.

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ACCESSORIES FOR DUST REMOVAL FILTERS | TANKS + VALVES



Pneumatic components

Correct dimensioning of the cleaning unit is essential for effective, cost-efficient operation of dust removal systems. It is vital to select the right individual components and in the right dimensions too, in order to ensure trouble-free, cost-efficient filtration.

Corrosion-proofed solenoid valves, optimized for maximum air flow rate with the shortest possible pulses, in conjunction with optimally dimensioned compressed-air tanks, ensure gentle and nonetheless effective cleaning of the filter's surface.

Integral valves or corner valves with screw or quick-release locks are matched to the geometry used in the filter cartridges involved.

Ready-for use customized cleaning units, consisting of compressed-air tank, valves and blowing pipes, can be supplied.

Ready-to-connect BUS systems, e.g. for large filter systems, reduce the amount of work involved in installation and connection.

Filter wall connections in various versions and sizes are available for simple installation of the cleaning unit.

Delivery notes

Compressed-air tanks, valves and blowing pipes are individually matched to each filter system, and have to be inquired for separately in each individual case.

ACCESSORIES

ACCESSORIES FOR DUST REMOVAL FILTERS | CLEANING CONTROL



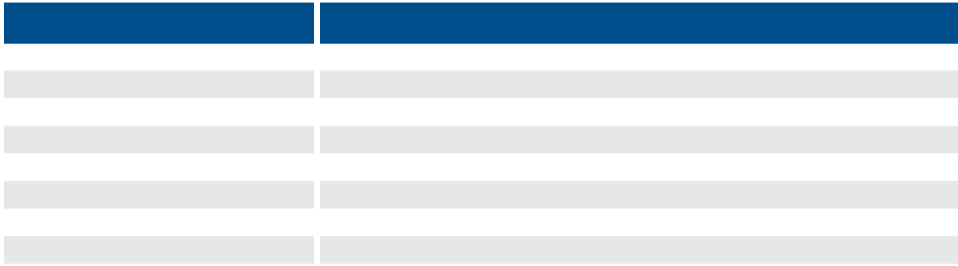
Cleaning control systems

- Cleaning control systems governed by pressure drop and time for highest requirements.
- Ultra-simple operator control of adjustments, and optimum visualization of the ongoing values.
- A huge range of different sizes for matching your own filter system.
- Ideal for utilizing the full potential of your filter inserts.
- Display and switching device with electrical and pressure connections for one or two switching points used to monitor the pressure differential. Alarm function, plus switch-on / switch-off functions.

Delivery notes

Customized product variants available on request.

ACCESSORIES FOR DUST REMOVAL FILTERS | CARTRIDGE PROTECTION SLEEVE



The CPSs are made from a fully synthetic PES filter medium, that excels particularly in terms of very high air-permeability measuring approx. 3880 l/m²·s and a mean pore size of approx. 50 µm. Fine particles can penetrate the filter medium, while coarse ones are arrested.

Use

For protecting a filter cartridge against irreversible dust deposits of coarse particles or fibrous dusts in the pleat package.

Application category

Arresting fibrous dusts, for example.

Assembly

The CPSs are secured in accordance with the illustration above with a cable tie underneath the flange of the filter cartridge, and cut off approx. 5–10 cm above the base of the filter cartridge.

Delivery notes

Cartridge protection sleeves are individually matched to each filter system, and have to be inquired for separately in each particular case.
Cartridge protection sleeves are available for the following cartridge diameters: 145 mm, 218 mm and 327 mm.
