



Filters and separators. Each one is different. But every one is just what you need.

»» When it comes to filters we are open to any questions – except about their high quality. Coperion is the forerunner when it comes to plant equipment quality. We not only develop plant components for all applications ourselves, we also know all the processes they are used for inside out. Our many years of experience encompass even the smallest detail, and we pass this experience directly on to our customers. This is also true of our filters with their unique quality, designed in accordance with the principle “form follows function”. That’s what we mean when we say “confidence through partnership”.

WHY COPERION IS THE BETTER FILTER SUPPLIER

- › Our experience and references extend back over 50 years of plant engineering.
- › We are a researching company, develop our own products and subject them to stringent testing in our own test center designed specifically to this purpose.
- › Our consulting and troubleshooting competence for all filtration requirements is unique.
- › Your specification and application dictate the design of our filters.
- › Sophisticated modules create a unique modular system with which you not only optimize your system, but also your costs.
- › Our unique range of products is rounded off by water and cyclone separators.
- › We unite know-how with a high level of continuity – our documentation system means that spare parts are available for more than 30 years.

› TEST CENTER



› JET CLEANING SAVES COMPRESSED AIR



› ECONOMICAL FILTER MEDIUM FOR ALL APPLICATIONS





»» We have the technology which allows you to lean back and relax. Coperion filters have to withstand the toughest application requirements. We have the ideal filter solution for all applications and tasks.

COPERION FILTERS HAVE A VARIABLE SEPARATING EFFICIENCY TO SUIT THE JOB

For machine protection:

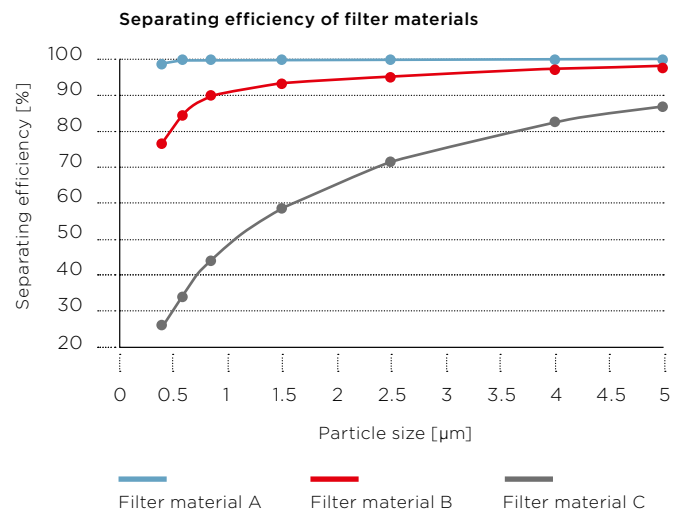
- › Intake filter type FE* with an overall separating efficiency of up to 90 percent (EU 4) in compliance with EN 779
- › Safety filter type FI* can be equipped to suit the application (EU 3, EU 9 or HEPA); an overall efficiency of up to 99.97 percent is achieved

For very high demands:

- › Filter media with defined separating efficiencies are used in such cases. The most economical needle felt C, for example, complies with the specifications of most national standards (10 mg dust/ Nm³ air)

For the highest demands such as the petrochemical standard:

- › The A and B type Coperion pore membranes were developed especially to this purpose.



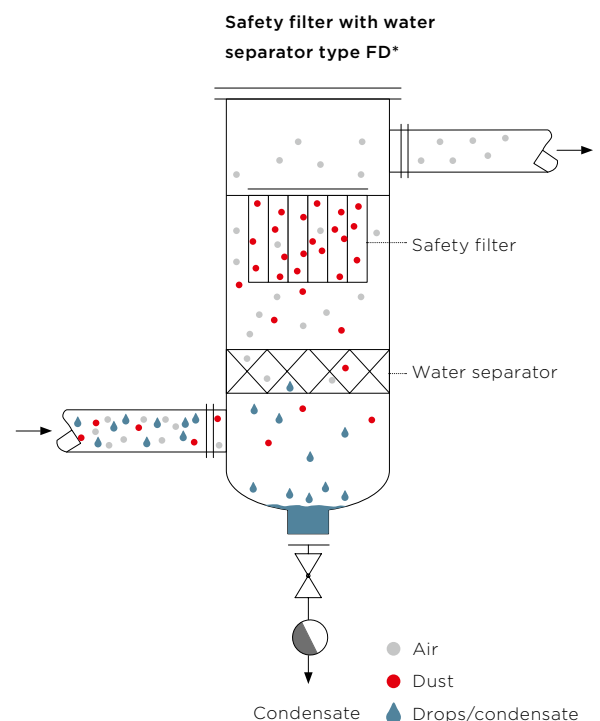
PRACTICAL ADVANTAGES OF OUR FILTERS

- › Simple solutions for increasing the filter efficiency
- › Optimization of existing filter solutions by means of simple retrofitting kits
- › Simple solutions for process assignments for which thermal and chemical resistance is required
- › Compliance with established environmental standards (e.g. in Germany: TA Luft; international: HSE)

COPERION FILTERS ARE THE IDEAL ANSWER FOR CONDENSATE

- › Coperion filters type FD* and FA* have an integrated water separator and are ideal for use in compressed air networks, closed-circuit systems and tropical installations
- › The space, costs and maintenance required for a separate water separator are no longer necessary
- › A low pressure drop increases the pressure reserves of the plant
- › The performance in a dilute-phase system is therefore enhanced by up to 10 percent

* Refer to pages 6 & 7.





PROLONG MAINTENANCE INTERVALS WITH COPERION FILTERS

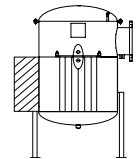
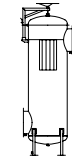
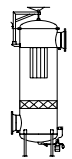
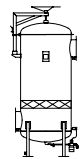
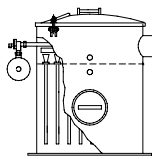
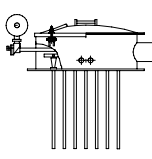
- > Larger filter surfaces with retrofitted Coperion compact elements; twice the filter surface of hose filters and a considerably longer service life
- > More effective cleaning with the high-efficiency pneumatic Coperion jet cleaning system
- > Optimum arrangement of the jet pipe system ensures high-performance cleaning and an enhanced filter service life

COPERION FILTERS OFFER EXPLOSION PROTECTION

- > A risk analysis of the dust explosion hazard is included in our range of services
- > An Coperion expert team focuses exclusively on the topic of explosion protection

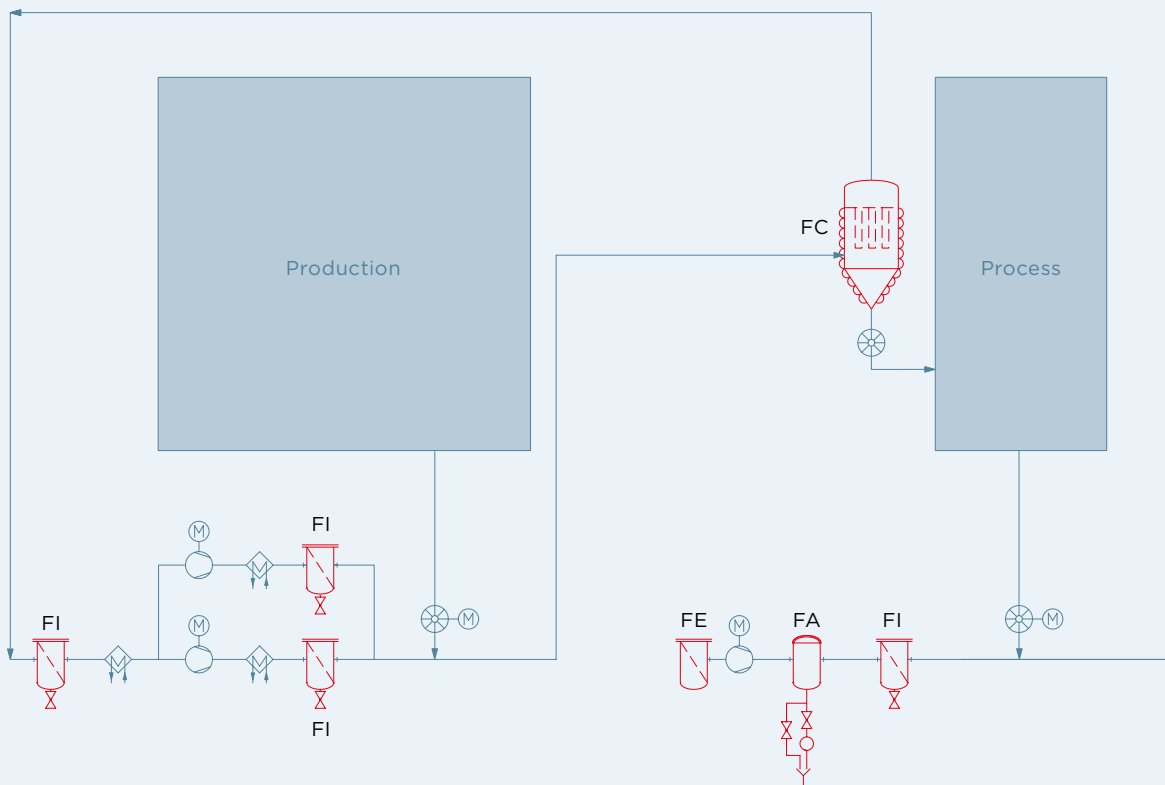
> COMPACT ELEMENT



> DUST						
FE	FI	FD	FA	FB	FV	
Intake filter	Safety filter	Safety filter with water separator	Water separator	Bin vent filter	Venting filter	
						
Water separation	—	—	■	—	—	
Dust filtration	■	■	—	■	■	
Pneumatic cleaning	—	—	—	■	■	
Plastics	■	■	■	■	■	
General chemical applications	■	■	■	■	■	
Minerals	■	■	■	■	■	
Foods	■	■	■	■	■	
PRODUCTION			PROCESS			

FILTER TYPES AND TYPICAL LOCATIONS

Every plant is different. Therefore only a few typical locations of filters from our range are shown below.

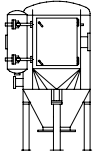
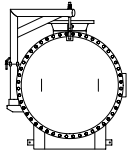
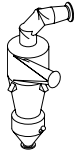


>> FILTER ELEMENTS

- PS Non-woven fabric
- S Hose
- F Flat hose
- P Cartridge
- K Compact element
- KG Corrosion-resistant fabric (VA); Special materials according to customer specifications

>> DESIGN

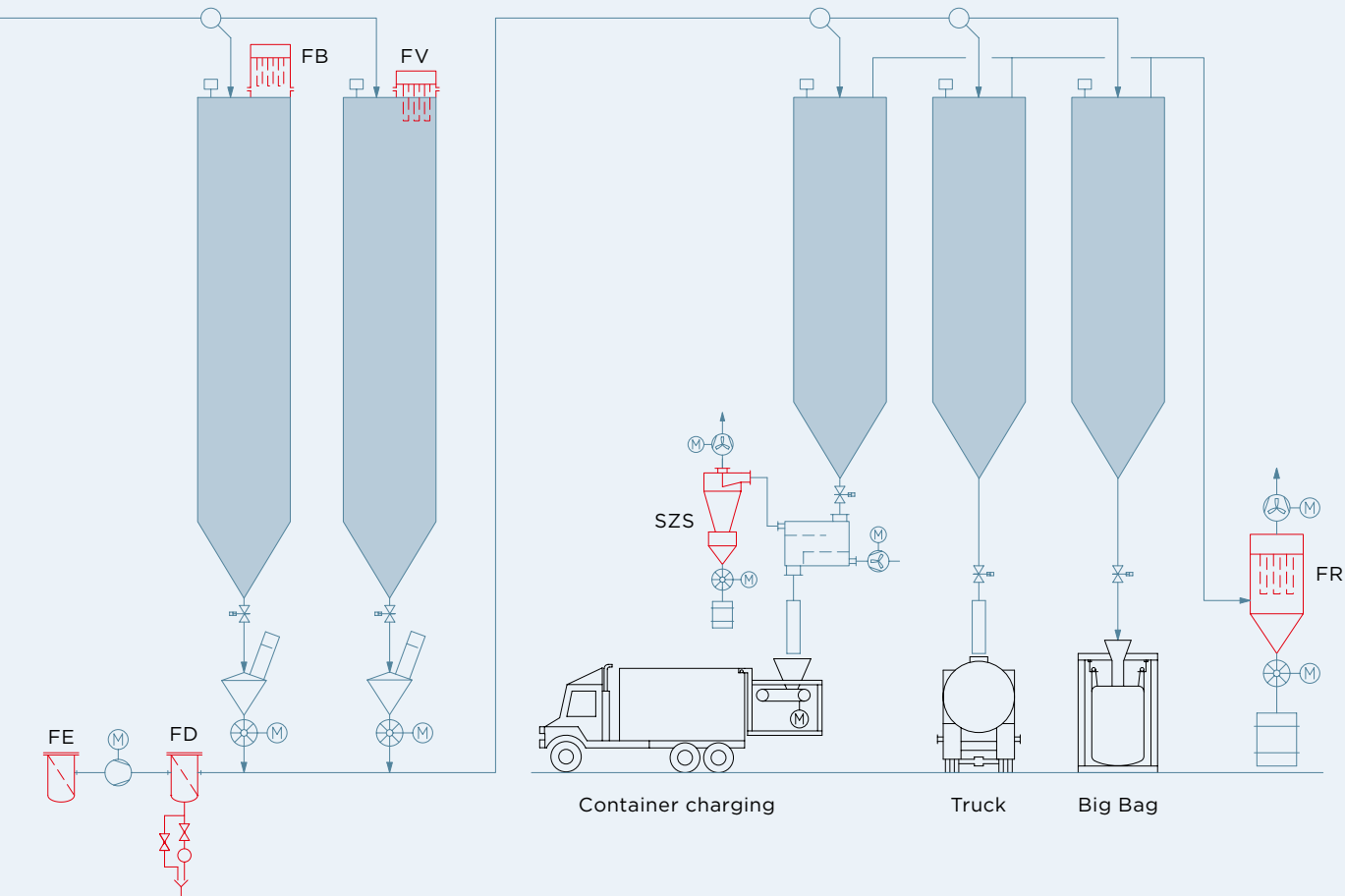
- > Vertically installed filter elements which can be changed from above
- > Horizontally installed filter elements, pulled out at the side
- > Walk-in cleaning chamber
- > Charging from above

BULK MATERIAL AND DUST		
FR	FC	SZ/SZS
Round filter	Customized filter	Cyclone separator/ cyclone dust separator
		
-	-	-
■	■	■
■	■	-
■	■	■
■	■	■
■	■	■
■	■	■

SUITABILITY OF THE DIFFERENT FILTER TYPES

The Coperion filter range includes all filters which you need to meet your requirements. Many of our filters can be used for a number of different applications. Should you not find a suitable filter here, we also develop customized filters especially for your needs outside the modular system.

LOGISTICS



>> MATERIAL

- > Aluminum
- > Stainless steel
- > Painted steel
- > Wear-resistant surface

>> EXPLOSION PROTECTION

- > Explosion-protected design
- > Pressure surge-proof
- > Pressure resistant
- > Rupture disk
- > Extinguishing device
- > ATEX certificate

>> VERSION

- > ASME
- > GOST-R
- > Chinese Stamp
- > U-Stamp
- > JIS
- > Other international standards

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