



Domnick Hunter



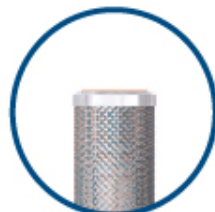
Hiross



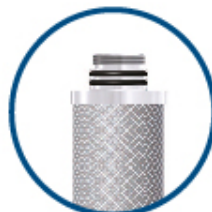
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**PLEATED MEDIA  
TECHNOLOGY**

**COMPRESSED AIR REPLACEMENT ELEMENTS**

**WWW.ULTRA-FILTER.COM**

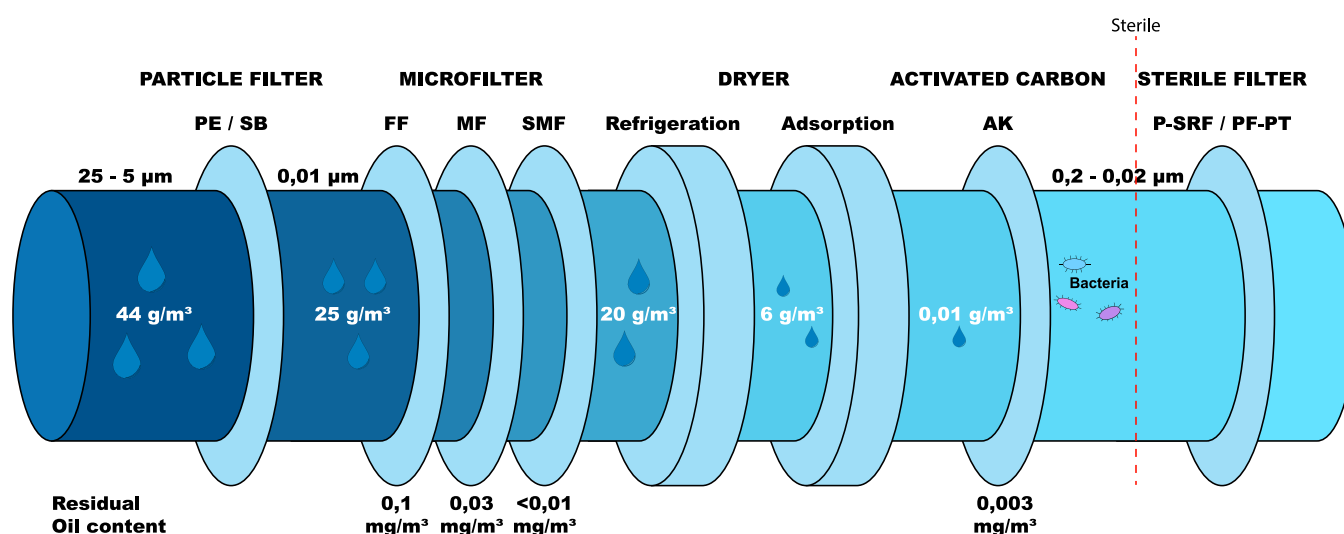
# COMPRESSED AIR

Compressed air contains water, oil and particles, therefore it is a good idea to filter your compressed air before it is used in production, the quality of the compressed air depends on how and where you need to use it. Ultrafilter offers all types of compressed air and technical gas filtration.



At Ultrafilter we have extensive experience with compressed air and compressed air filters. We stand ready to draw on this experience, if you need advice and guidance in connection with compressed air. We help you find the air filter to suit your compressed air system, and which comply with industry and customer requirements.

To achieve compressed air of high quality we need to remove the oil, water and particles from the air. On the illustration below you can see how the different filters affects the compressed air.



## ISO 8573-2010

We use ISO 8573-2010 as a reference when choosing compressed air filters, and to find out to which level it is necessary to clean the air.

Class	Particles pr. m³			Water content	Residual Oil Content
	0,1 - 0,5 µm	0,5 - 1 µm	1 - 5 µm		
1	≤ 20.000	≤ 400	≤ 10	0,003 ppm	≤ 0,01 mg/m³
2	≤ 400.000	≤ 6.000	≤ 100	0,15 ppm	≤ 0,1 mg/m³
3		≤ 90.000	≤ 1.000	0,88 ppm	≤ 1 mg/m³
4			≤ 10.000	6 ppm	≤ 5 mg/m³
5			≤ 100.000	7,8 ppm	
6				9,4 ppm	



## COMPRESSED AIR ELEMENTS

Ultrafilter offers filter elements for most compressed air applications. These high quality filter elements are made with the finest pleating technology and aluminum endcaps. Unique to the industry with their extremely low differential pressure.

PE elements are made of a sintered polyethylene filter media and guarantee absolute retention rates. By using various filtration mechanisms – such as direct impact and sieve effect – contaminants down to the size of 25 µm are being retained.

The SB is a prefilter, developed for retention of particles and liquids out of compressed air. The sintered stainless steel filtration material assures high thermal durability.

The FF/MF/SMF filter elements are made with a pleated oleophobic filter media that rejects oil and water.

The AK filter elements consist of a two-stage filtration. All particles are kept in a nanofiber depth filter media, while the activated carbon adsorbs all oil vapors and gaseous hydrocarbons.



Type	Filtration rate	Effectivity	Residual oil content	Max. differential pressure
PE	25 µm	99%	N/A	2 bar at 20°C
SB	25 µm	99%	N/A	2 bar at 20°C
FF	0,01 µm	99,999%	0,1 mg/m³	5 bar at 20°C
MF	0,01 µm	99,99998%	0,03 mg/m³	5 bar at 20°C
SMF	0,01 µm	99,99999%	<0,01 mg/m³	5 bar at 20°C
AK	Activated Carbon	N/A	0,003 mg/m³	2 bar at 20°C

## ULTRAFILTER HIGH PERFORMANCE

Advanced pleating techniques mixed with nano technology, makes our “High Performance” filters much more effective than a standard filter, as the pleating provides a 450% larger filtration surface per square inch. The special pleating also secures a much larger particle retention capacity.

The benefits of using this type of filter is low differential pressure, up to 70% lower energy costs and improved efficiency of filtration.



PE



SB



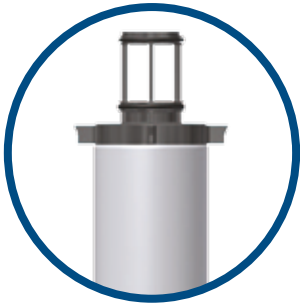
FF/MF/SMF



Activated  
Carbon

## CROSS OVER ELEMENTS

Our series of cross over elements makes it possible to use our high quality filters in filter housings from different manufactures. We are mostly using the same pleating mixed with nano technology in all the cross over elements we offer.



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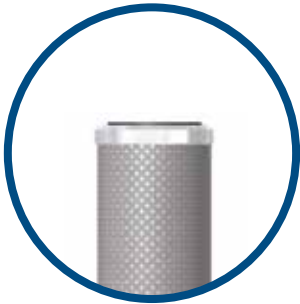
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## BY REQUEST ALSO

Compair  
Ceccato  
Ingersoll Rand  
Kaeser  
Stenhøj  
ALUP  
ALMiG  
Pneumatech  
Chicago Pneumatic  
BEKO  
MARK  
BOGE



**PLEATED MEDIA  
TECHNOLOGY**



**Kronsbein ultrafilter®**

## ABOUT US

The ultrafilter group is a privately owned family company. Founded by Dipl. Ing. Dean Kronsbein in Germany, the group now serves the global filtration market with local presence throughout Europe, the Americas, Asia and Australia.

With the help of our products from ultrafilter GmbH in Germany, world renowned, market leading companies have made ultrafilter GmbH their first choice for the Purification of compressed air, technical gases and liquids.

Our passion to manufacture superior and innovative products is the guarantee for cost effective and reliable filtration solutions.



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