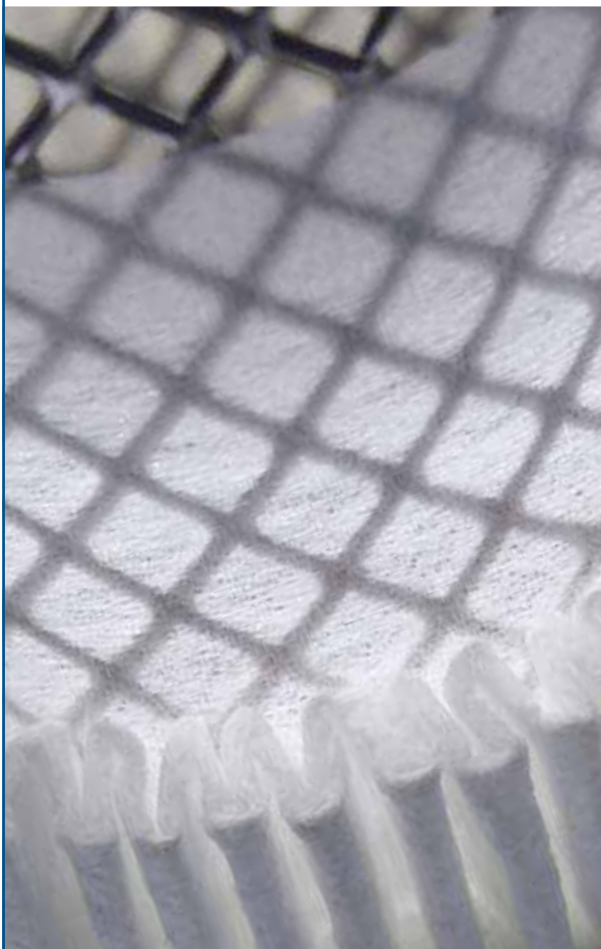


# *The new high-performance industrial filter with nanotechnology*



# The ultrafilter –

## Advantages by Innovation

■ The quality of filter elements is increasingly important, first because the requirements for clean compressed air and technical gases are constantly being raised, and second because awareness of the environment and energy efficiency is always on the increase.

ultrafilter has once again demonstrated that it is one of the most innovative suppliers in the market with the introduction of its new ultrafilter high-performance filter elements with efficiency of 99.99998%. And, thanks to the unique combination of binder-free, non-woven nanofibre filter media and pleating technology, a reduction in energy costs of 70% is achieved, as well as improved filtration performance!



*The fibres of the ultrafilter nano-filter media are not bonded with an adhesives as is commonly the case, but thermally welded. The differential pressure is thus reduced and dirt-holding capacity is significantly greater.*

## 450 % greater filter area!

■ The secret of this vast increase in performance lies in the pleating of the nano-filter media. The pleating process mechanically folds the non-woven filter media many times. This makes the filter area 450 % larger than that of a conventional rapped filter element.



*The pleated ultrafilter high-performance filter element*

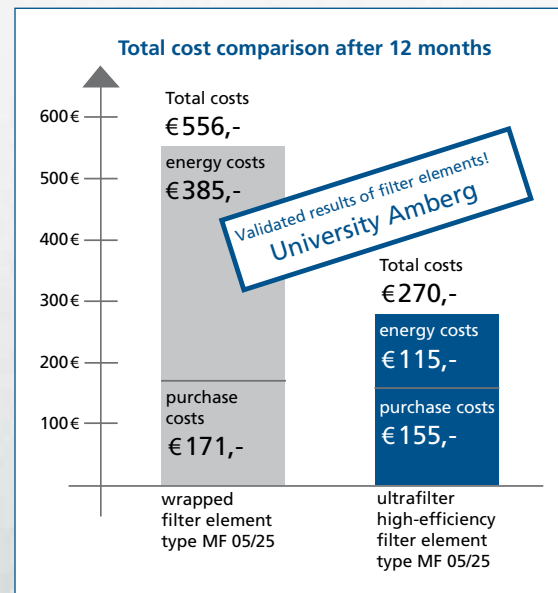
## Many added-value benefits

■ You obtain obvious benefits when you use the new pleated ultrafilter high-performance filter element:

- Low differential pressure
- Improved filtration efficiency
- Greater dirt-capturing capacity
- 70 % lower energy costs

In addition, the new nano-filter media from ultrafilter is 'oleophobic', which means oil and water are actively rejected, so the differential pressure drop (and therefore operating costs) are reduced to a minimum compared with conventional filter elements.

## Massively reduced costs!



■ Depending on size, the use of the new high-performance filter elements from ultrafilter saves users between € 280 and € 1,600 per filter element in energy costs per year.

# new from ultrafilter GmbH!

End caps from anodised aluminium.

## Nanofibre filter media.

- Multilayer, binder-free nanofibre filter media, made of borosilicate nanofibres with a void volume of over 98%.
- The three-dimensional construction extends the service life and filtration performance by effectively separating larger solid particles in the pre-filter layer.
- Oleophobic – actively rejects oil and water, thus reducing differential pressure.
- Nanofibres are 10 times finer than microfibres and so ensure superior filtration efficiency

## The pleated filter media.

- 450% larger filter area than conventionally rapped filter elements
- Increased depth filtration capacity and aerosols achieved by combining several different filtration mechanisms
- Low airflow speeds ensure better retention of particles
- Mechanical pleating for consistently high standards

## Robust inner and outer support.

- Made of high-quality 316 L stainless steel  
Extremely large free flow

## Quality made by ultrafilter

- Highest material quality
- Best production quality
- Perfect functional quality



***new from ultra.filter!***



#### The new prefilter!

- Unique patent radial technology
- 450% more filter area
- Greater dirt-holding capacity
- Uniform, Omni - differential pore structure ensures back washable capability

## Technical data Industrial filter with nanotechnology

Filter Type	Capacity		Connection	Filter element	
	nominal m <sup>3</sup> /h	maximum m <sup>3</sup> /h		Size	Quantity
0002	20	40	G 1/4	02/05	1
0004	40	60	G 3/8	03/05	1
0006	60	90	G 3/8	03/10	1
0009	90	120	G 1/2	04/10	1
0012	120	180	G 1/2	04/20	1
0018	180	270	G 3/4	05/20	1
0027	270	360	G 1	05/25	1
0036	360	480	G 1 1/4	07/25	1
0048	480	720	G 1 1/2	07/30	1
0072	720	1080	G 2	10/30	1
0108	1080	1440	G 2	15/30	1
0144	1440	1920	G 2 1/2	20/30	1
0192	1920	2880	G 3	30/30	1
0288	2880	4320	G 3	30/50	1
0108	1080	1440	DN 50	15/30	1
0144	1440	1920	DN 65	20/30	1
0192	1920	2880	DN 80	30/30	1
0288	2880	4320	DN 80	30/50	1
0432	4320	5760	DN 100	20/30	3
0576	5760	7680	DN 100	30/30	3
0768	7680	11520	DN 150	30/30	4
1152	11520	15360	DN 150	30/30	6
1536	15360	19200	DN 200	30/30	8
1920	19200	23040	DN 200	30/30	10
2304	23040	30720	DN 250	30/30	12
3072	30720	38400	DN 250	30/30	16
3840	38400	51072	DN 300	30/30	20






Technical alternations reserved (1/2005)

### The ultrafilter full service ensures permanent reliability and availability.

■ During its life cycle, in order to protect the compressed air system, the filter element is exposed to substances containing oil, acid and in most cases lacquer-like substances such as condensates and highly volatile solid particles. Over time, the differential pressure increases and energy costs increase. In order to guarantee the highest quality of compressed air and lowest lifecycle costs, the filter elements must be replaced every twelve months with ultrafilter high-efficiency filters.

Regular replacements avoid costly breakdowns or complicated and expensive repairs. You benefit from the advantages of the ultrafilter full service: all costs incurred for inspection and maintenance work, repairs and replacement are covered by a fixed monthly fee. And ultrafilter assumes responsibility for the entire risk of repair costs that cannot be calculated in advance, and guarantees 100% availability of their compressed air installation.

## ultrafilter high performance filter and housings

	Filter type	volume flow		connect. R/DN	filter element				
		nominal m³/h	maximal m³/h		size	qty.			
	 <p>PE filter media by porex</p>	0002	20	40	R 1/4	02/05	1		
		0004	40	60	R 3/8	03/05	1		
		0006	60	90	R 3/8	03/10	1		
		0009	90	120	R 1/2	04/10	1		
		0012	120	180	R 1/2	04/20	1		
		0018	180	270	R 3/4	05/20	1		
		0027	270	360	R 1	05/25	1		
		0036	360	480	R 1 1/4	07/25	1		
		0048	480	720	R 1 1/2	07/30	1		
		0072	720	1080	R 2	10/30	1		
	 <p>SB filter</p>	0108	1080	1440	R 2	15/30	1		
		0144	1440	1920	R 2 1/2	20/30	1		
		0192	1920	2880	R 3	30/30	1		
		0288	2880	4320	R 3	30/50	1		
		 <p>FF filter MF filter SMF filter</p>	0108	1080	1440	DN 50	15/30	1	
			0144	1440	1920	DN 65	20/30	1	
			0192	1920	2880	DN 80	30/30	1	
			0288	2880	4320	DN 80	30/50	1	
			 <p>AK filter</p>	0432	4320	5760	DN 100	20/30	3
				0576	5760	7680	DN 100	30/30	3
0768	7680	11520		DN 150	30/30	4			
1152	11520	15360		DN 150	30/30	6			
1536	15360	19200		DN 200	30/30	8			
1920	19200	23040		DN 200	30/30	10			
2304	23040	30720		DN 250	30/30	12			
3072	30720	38400		DN 250	30/30	16			
3840	38400	51072	DN 300	30/30	20				

technical alterations reserved - 01.2008)

  
**ULTRAFILTER**  
 THE FILTRATION MANUFACTURER

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