

# FINCELL HIGH FLOW

## particulate filter elements for gas and fluids

**Fincell HF** are “ large size” filter elements to handle high flow rates both of gas and fluids.

The filter elements remove contaminant particles from air, gas, nitrose, hydrogen, water, solvents, lubricants and hydrocarbure etc..



- High particle retention
- High flow rate
- Low pressure drop (Energy Saving)
- Pleated filtering media with enhanced surface area
- External protection

**Fincell HF** are used when a high flow rate is involved, both in a single or multiple configuration.

The filtering media, available in different grades, is made of cellulose or borosilicate fibers impregnated with resins which grants also a depth filtration effect.

The impregnation with resins gives higher resistance during the filtration process and prevent fiber release.

The media is protected by stainless steel metallic cage to prevent damages during handling.

Fincell HF are manufactured with pleated media in order to increase the filtering area providing longer service life and lower pressure drop.

### Filtration grade and characteristics

Description	DE	DL	DB	DM
Gas filtration grade Particle removal efficiency	0,05 micron @ 99%	0,3 micron @ 99,9%	1 micron @ 99,99%	5 micron @ 99,99%
Fluids filtration grade Particle removal efficiency	0,5 micron @ 99%	3 micron @ 99%	5 micron @ 98%	15 micron @ 98%
Operating temperature	min. 1°C / max. 110° C			
Δp air new filter	120 mbar max			
Δp water new filter	60 mbar			
Δp filter change	0,8 - 1,2 bar			
Max. differential pressure	3 bar			
Flow Direction	Outside / Inside			
Media arrangement	Pleated			

# FINCELL HF

## particulate filter elements for gas and fluids

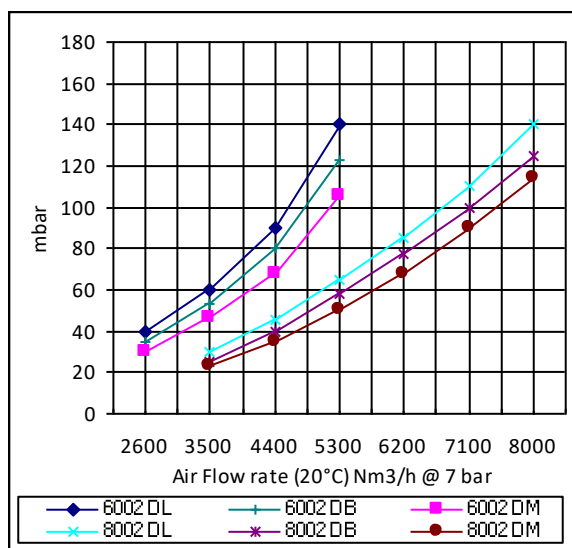
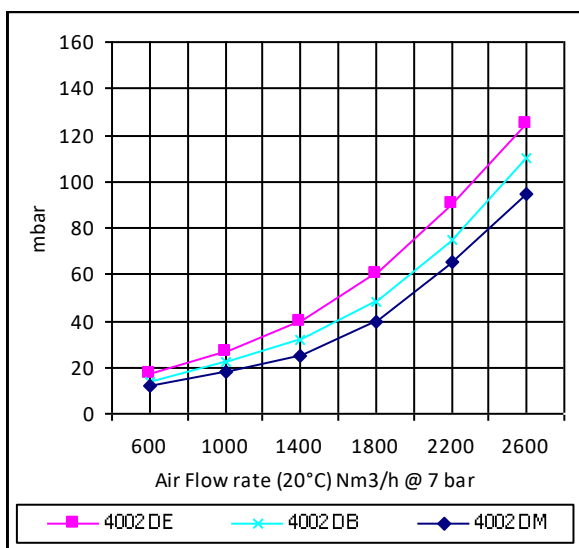
### Materials

Description	Type		
	FCR	FCS	FCC
End caps	S.S. AISI 430	S.S. AISI 304	S.S. AISI 316L
Internal core			
External cage			
Grade DE-DL media	Borosilicate fiber and cellulose resin impregnated		
Grade DB-DM media	Cellulose resin impregnated		
Standard gaskets	V=Viton		
Gaskets on request	B=Buna N ; T=Teflon ; S=Silicone		

### Selection table

Model		Filtering area cm <sup>2</sup>	Flow rate		Dimensions mm			
			Air *Nm <sup>3</sup> /h	Water L/min	Outside diameter	Inside diameter	Length	Center hole
<b>FCR-4002</b> <b>FCC-4002</b>	<b>DE</b>	11.500	2.200	250	120	80	700	Not foreseen
	<b>DL</b>	11.500						
	<b>DB</b>	20.000	2.600	350				
	<b>DM</b>	22.300						
<b>FCS-6002</b>	<b>DL</b>	29.500	4.000	500	170	110	915	
	<b>DB</b>	41.900	4.800	650				
	<b>DM</b>	46.600						
<b>FCS-8002</b>	<b>DL</b>	40.400	6.400	700	210	155	915	16
	<b>DB</b>	55.900	7.600	900				
	<b>DM</b>	60.500						

\* Flow rate are referred to air at compressor intake conditions (1 bar absolute @ 20 °C) and compressed at 7 barg



DS-FCR-522-UK-16

The data are informative and subject to change without notice. User is responsible for determining whether the product is fit for particular purpose and suitable for User's method of application.

### Bea Technologies Spa

Via Newton,4 -20016 Pero (MILANO) Italy  
 Tel.+(39) 02 339271 / Fax+(39) 02 3390713  
 mail:info@bea-italy.com  
 web:www.bea-italy.com