

REVERSE FINCELL

Coalescer filter cartridges

High efficiency REVERSE FINCELL filter elements are used to remove oil and water mists, solid particles, condensate and hydrocarbon vapours in compressed gas systems.

- High efficiency
- Low pressure drops (Energy saving)
- Double antientrapment barrier
- Metallic parts in stainless steel



REVERSE FINCELL cartridges are available in four filtration grades to achieve effluent gas with residual aerosol content down up to 0,01 ppm and 0,003 mg/m³ for activated carbon "CA" grade. REVERSE FINCELL are manufactured using multiple coalescing filter media layers, each layer performing a distinct function. The contaminated compressed gas flows through the cartridge from inside to outside; the solid particles are trapped while the aerosols and the mist are agglomerated in larger droplets and conveyed by gas flow to the final layers ; the accumulated water and oil flows by gravity to the bottom end of the cartridge from which the liquid drops into the sump at the bottom of the filter vessel.

Using a pleated filter media the filtering area is highly increased providing a very low pressure drops and increased service life.

REVERSE FINCELL elements can delivery compressed air which meets ISO 8573-1 requirements for industrial applications.

Filtration grade and characteristics

Description	RC	RD	RA	*CA
Filtration grade	3 micron > @ 95 %	0,1 micron > @ 99,9 %	0,01 micron > @ 99,999 %	NA
Residual Oil content at 20°C	5 mg/m ³	0,1 mg/m ³	0,01 mg/m ³	0,003 mg/m ³
Operating temperature	min. 1°C / max. 110° C			max. 60 °C
Pressure Drop @ new **	60 mbar max	80 mbar max	120 mbar max	150 mbar max
Pressure Drop @ operation **	100 mbar	140 mbar	200 mbar	NA
Pressure drop filter change	0,5 ÷ 0,7 bar			
Max. differential pressure	3 bar			
Flow Direction	Inside / Outside			
Media arrangement	Pleated			Wrapped

* Filter element "RA" grade must be installed upstream "CA" grade

** Referred to nominal flow rate

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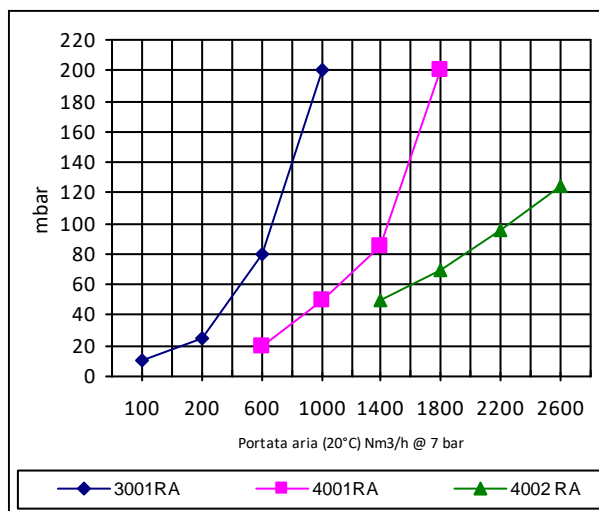
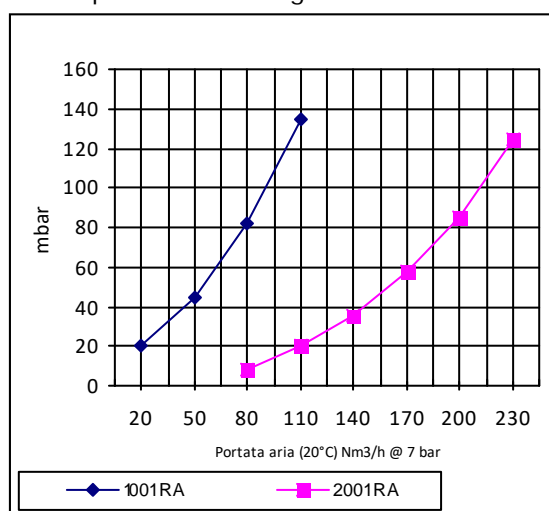
Materials

Description	Type		
	FCY	FCR	FCC
End caps	Tecnopolymer		S.S. AISI 430 S.S. AISI 316L
Internal core	S.S. AISI 430 / Tecnopolymer		
External cage	S.S. AISI 430		
Grade RC media	Cellulose resin impregnated		
Grade RD—RA media	Borosilicate glass fiber + Cellulose resin impregnated		
Grade CA media	Syntetic fiber with activated carbon		
Standard gaskets	Buna N		
Gaskets on request	V=Viton ; T=Teflon ; S=Silicone		

Selection table

Model		Filtering area cm ²	Flow rate * m ³ /h		Dimensions mm		
			Nominal	Max	Outside dia.	Inside dia.	Length
FCY-1001	RC	900	90	110	58	22	135
	RA	870					
	CA	240					
FCY-2001	RC	3000	200	230	70	26	250
	RA	1600					
	CA	550					
FCR-2001	RD	1500	800	900	92	52	350
FCR-3001	RC	5200					
	RD	3100					
	RA	3200					
FCR-4001 FCC-4001	CA	1000	1500	1600	120	80	350
	RC	7800					
	RD	4200					
	RA	4300					
FCR-4002 FCC-4002	CA	1300	2200	2600	120	80	700
	RC	15600					
	RD	8400					
	RA	8600					
	CA	2600					

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



Data contained in this bulletin 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.



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