

# REVERSE FINCELL

## Coalescer filter cartridge

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

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



REVERSE FINCELL cartridges are available with four filtration grades to achieve residual aerosol content down up to 0,01 ppm and, for activated carbon "CA" grade, 0,003 mg/m<sup>3</sup>.

REVERSE FINCELL are manufactured with multiple coalescing filter media layers, each one 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 to the final layer; the accumulated water and oil go down by gravity to the bottom in the sump of the filter vessel.

The pleated media arrangement gives high filtering area which provides, consequently, very low pressure drops and longer life.

REVERSE FINCELL elements allow to meet ISO 8573-1 compressed air for industrial applications.

### 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/m3	0,1 mg/m3	0,01 mg/m3	0,003 mg/m3
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

\* "CA" Filter element grade must be protected with "RA" grade to be installed upstream

\*\* Referred to nominal flow rate

Materials	Type		
	FCY	FCR	FCC
End caps	Tecnopolymer		AISI 430 S.S. / AISI 316L S.S.
Internal core	AISI 430 S.S. / Tecnopolymer		
External cage	AISI 430 S.S.		
Grade RC media	Cellulose impregnated with resin		
Grade RD—RA media	Borosilicate glass fiber + Cellulose impregnated with resin		
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 <sup>2</sup>	Flow rate * m <sup>3</sup> /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
	RA	1600					
FCR-3001	RC	5200	1500	1600	120	80	350
	RD	3100					
	RA	3200					
	CA	1000					
FCR-4001 FCC-4001	RC	7800	2200	2600	120	80	700
	RD	4200					
	RA	4300					
	CA	1300					
FCR-4002 FCC-4002	RC	15600	2200	2600	120	80	700
	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.

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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.