

FINCELL HF—RF

particulate filter elements for gas

FINCELL HF-RF filter elements are used to remove solid contaminants from large volumes of air and dry compressed gases (air, nitrogen, hydrogen Natural gas , etc.)

- High flow capacity
- Self extinguisher filtering materials
- High particle removal efficiency
- Low pressure drop (Energy Saving)
- Pleated media supported with metallic net
- External protection



FINCELL HF-RF filter elements remove solid particles down to 0,1 micron with an efficiency of 99,5 % from dry gas .

The filtering media in borosilicate fibers is supported by a metallic net to provides both higher resistance during the filtration process and safer handling.

Fincell-HF-RF are made using heat resistant materials; one typical application is downstream the adsorption dryers with hot regeneration cycle .

Large diameter and pleated filtering structure allow to gain an extended filtering surface which gives lower pressure drop and therefore enhanced operating life.

The performance of filter elements FINCELL HF-RF is tested in accordance with ISO 12500-3.

Filtration grade and characteristics

| Description | RF |
|------------------------------------|---|
| Filtration grade on gas | 0,1 micron @ 99,5% ÷ 1 micron @ 99,9999 % |
| Air purity class ISO-8573-1 : 2010 | Solid particles—Class 1 |
| Operating temperature | min. 1°C / max. 110° C |
| Δp @ new filter * | 80 mbar max. |
| Δp for filter change | 0,5 ÷ 0,7 bar |
| Max. differential pressure | 3 bar |
| Flow Direction | Outside / Inside |
| Media arrangement | Pleated |

* Referred to Nominal Flow rate.

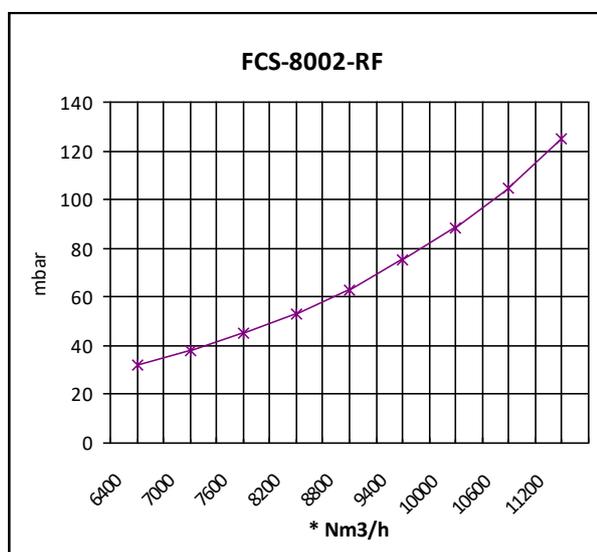
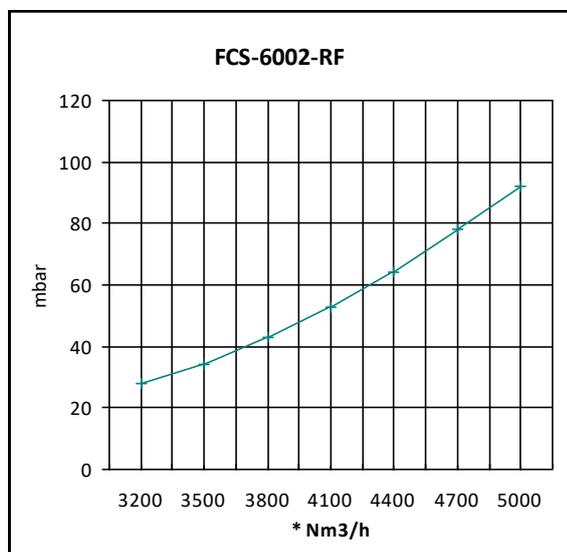
Materials

| Description | Type | |
|---------------------------|-----------------------------------|----------------|
| | FCS | FCC (1) |
| End caps | S.S. AISI 304 | S.S. AISI 316L |
| Internal core | | |
| External cage | | |
| Filter media | Borosilicate fiber + metallic net | |
| Standard gaskets | S= Silicone | |
| Gaskets on request | B=Buna N ; T=Teflon ; V= Viton | |

(1) available on request (minimum quantity)

Selection table

| Model | Filtering area | Flow rate | | Dimensions mm | | | |
|--------------------|-----------------|---------------------|------|---------------|-----|--------|--------------|
| | cm ² | Nm ³ /h* | SCFM | OD | ID | Length | Center hole |
| FCS-6002-RF | 28.000 | 4800 | 2840 | 170 | 110 | 915 | Not foreseen |
| FCS-8001-RF | 20.400 | 7500 | 4437 | 210 | 155 | 500 | 16 |
| FCS-8002-RF | 37.300 | 9800 | 5798 | 210 | 155 | 915 | 16 |



* Flow rate is 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.