

Filtra-Pak RPC .. K

High Efficiency rigid pocket filters

Product	RPC..K
Frame	Anti-crash polystyrene
Filter media	Activated carbon
Filter pack	Mini pleats
Sealant	Polyurethane elastomer
CEN EN 779 class	F 7 (air outlet side)
Max. operating temperature	≤ 40 °C
Max. operating humidity	≤ 60 %

Therefore, we try to control this pollution which is not just made of particles, pollen, solid pollutants, but also gas emissions of various nature and VOCs (Volatile Organic Compounds).

Progress has been made as regards the filtration of solid particles, but just recently industries have been speaking about activated carbon filters in air conditioning plants. Today, advanced processes, enabled manufactures to combine activated carbon, in flakes/granules, with a synthetic fiber media reaching excellent efficiency levels: F 7 (EN779).

The activation of the coconut shell carbon through the steam enables the same to adsorb the gaseous pollutants by means of physical, chemical or catalytic processes.

This is the ideal solution for the situations in which there are low concentrations of pollutants. Furthermore the mini-pleat construction allows us to obtain "V"-shaped products with extended media surface area.

- High reaction speed compared to other filters
- Relatively low initial pressure drop
- Sealed tight
- No carbon loss
- Incinerable
- Standard sizes

Filter capacity

Toluane organ. test gas	g	952
n-butane organ. test gas	g	117
SO ₂ inorgan. test gas	g	350
H ₂ S** inorgan. test gas	mg	5.000

** With H₂S at a concentration of 400 ppb with flow of 3,400 m³/h

Applications Activated carbon filters RPC..K can be used in air treatment units and in any other type of unit requiring the filtration of low quantities of pollutants, that is:

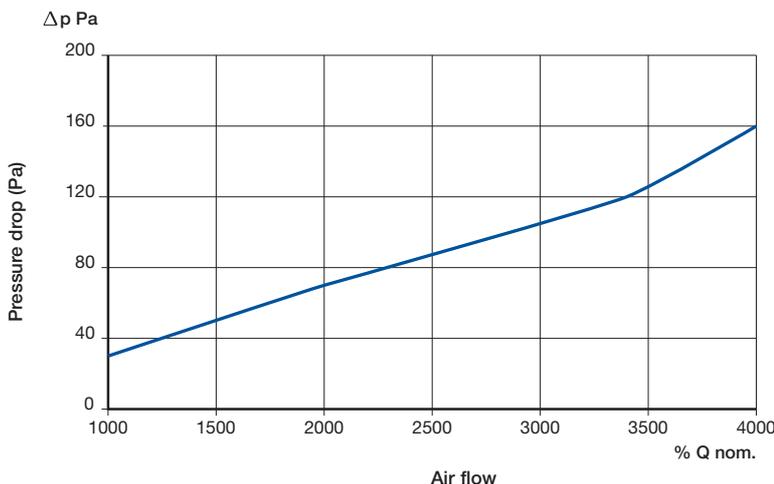
- air conditioning systems and air supply systems (shopping centers, museums, kitchens, offices, airports, laboratories, printing centers, hospitals)
- industrial processes (microelectronics, pharmaceutical, chemical and food industries).

Installation Activated carbon rigid pocket filters can be installed in any position: horizontal, vertical, in ducts and in air treatment units. Their frames can be changed with traditional pocket filters. It is possible to use standard holding frames type CT and duct housing type Multimod in the new filter models.

Code	Sizes (mm)			Nominal air flow rate Q.		Filtering surface m ²	Carbon kg	Initial pressure drop Pa
	A	B	C	m ³ /h	m ³ /sx10 ^{-3*}			
RPC..K								
55	595	x 287	x 292	1500	417	3,4	3,0	120
56	595	x 490	x 292	2800	778	5,3	5,2	120
54	595	x 595	x 292	3400	944	6,5	6,3	120

*1 m³/s x 10⁻³ = 1 l/s

Typical curves



Size

