

ERISCAR

REFILLABLE ADSORBER FILTERS

TYPICAL APPLICATIONS

To be used in air conditioning plants for the removal of smells and odours in public buildings, airports, offices and industrial premises.

TECHNICAL CHARACTERISTICS

CASE= Galvanized steel frame with perforated grids.

PANELS = Granulated activated carbon charcoal
Layer = 50 mm thickness.

STANDARD SERIES =

Filter for organic vapours: e.g. benzol, carbon, tetrachloride, trichloroethylene, toluol, solvents, etc. → **code FO**

Filter for acid vapours : e.g. nitric acid, hydrochloric acid, phosgene, etc. → **code FA**

Filter for radioiodine and methyl iodine → **code FI**

Filters for carbon monoxide and for nitric oxide are not available

Filter for specific gases are available on request.

For out of standard dimensions, stainless steel execution and particular problems, please contact our Technical office

WORKING TEMPERATURE = 50°C

MAXIMUM TEMPERATURE = 80°C

RELATIVE HUMIDITY = 70%

PRESSURE DROP.

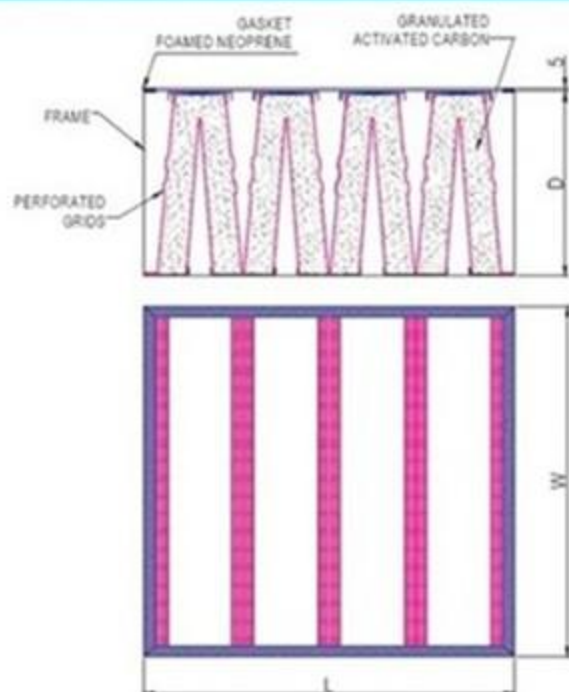
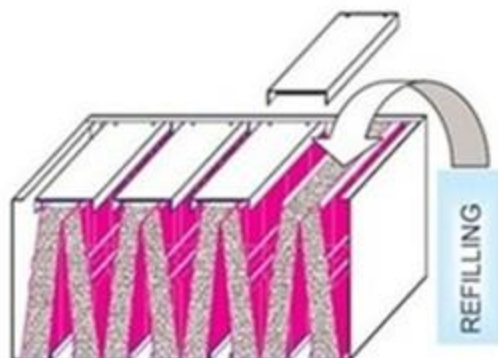
In charcoal filters pressure drop is much higher than in absolute filters, therefore when planning a filtering plant for toxic gases their number must be carefully estimated.

As the life time for a charcoal filter is much less than that of a dust filter, in order to avoid too frequent filter substitutions, a larger number of filters must be introduced than those foreseen on the basis of the pressure drop only.

Pressure drop in a charcoal filter does not vary with the saturation or the charcoal itself.

When no special filtration for dusts, smokes or fogs is required, a dust pre-filter should be introduced up-stream of a charcoal filter.

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PERFORMANCE (mod. AS 08 FO 00)

AIR FLOW	RESISTANCE	CONTACT TIME
500 m ³ /h	80 Pa	0,32 s
1100 m ³ /h	160 Pa	0,17 s
1500 m ³ /h	250 Pa	0,10 s
2000 m ³ /h	350 Pa	0,09 s

FILTER MODEL

CODE	DIMENSIONS	AIR FLOW	CHARCOAL VOLUME	WEIGHT OF CARBON	UNIT WEIGHT	INITIAL PRESSURE DROP
	W x L x D mm	m ³ /h	dm ³	kg: 10%	kg: 10%	
AS 05 FO 00	305x610x292	1000	32	17,0	28,0	350
AS 05 FA 00	305x610x292	750	32	17,0	28,0	270
AS 05 FI 00	305x610x292	500	32	17,0	28,0	200
AS 08 FO 00	610x610x292	2000	65	35,0	58,0	350
AS 08 FA 00	610x610x292	1500	65	35,0	58,0	270
AS 08 FI 00	610x610x292	1000	65	35,0	58,0	200

GAS	Formula	Gas adsorbed *	* per kg of activated charcoal (1 mm diameter)
Carbon tetrachloride	CCl ₄	320 g	These data are the results of tests carried out in standard conditions of pressure and temperature and at the face velocity of 0,15 m/s Test carried out in different conditions give completely different results.
Clonte	Cl ₄	60 g	
Hydrogen sulfide	H ₂ S	90 g	
Hydrocyanic acid	HCN	45 g	
Sulfur dioxide	SO ₂	60 g	
Ammonia	NH ₃	26 g	