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ERISCAT

CILYNDRICAL 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

SUPPORTING FRAME= Epoxy painted steel.

CARTRIDGES = Epoxy painted steel flanges and expanded nets.

Foamed rubber gasket
Plastic cap to fill up the cartridge
Bayonet coupling.

MODELS = Two models of cartridges available:
Ø 140 mm with charcoal bed 25 mm depth.
Ø 160 mm with charcoal bed 35 mm depth

PROTECTION =

Filter for organic vapours: e.g. benzol, carbon, tetrachloride, trichloroethylene, toluol and solvents
→ **code FO**
Filter for acid vapours : e.g. nitric acid, hydrochloric acid, phosgene, etc
→ **code FA**
Filter for radioiodine and methyl iodine
→ **code FI**

TEMPERATURE = 50°C (Working temperature)

RELATIVE HUMIDITY = 70%

AIR FLOW = From 1500 up to 3400 m³/h.

Filters for carbon monoxide and for nitric oxide are not available.

Filters for specific gases are available on request.

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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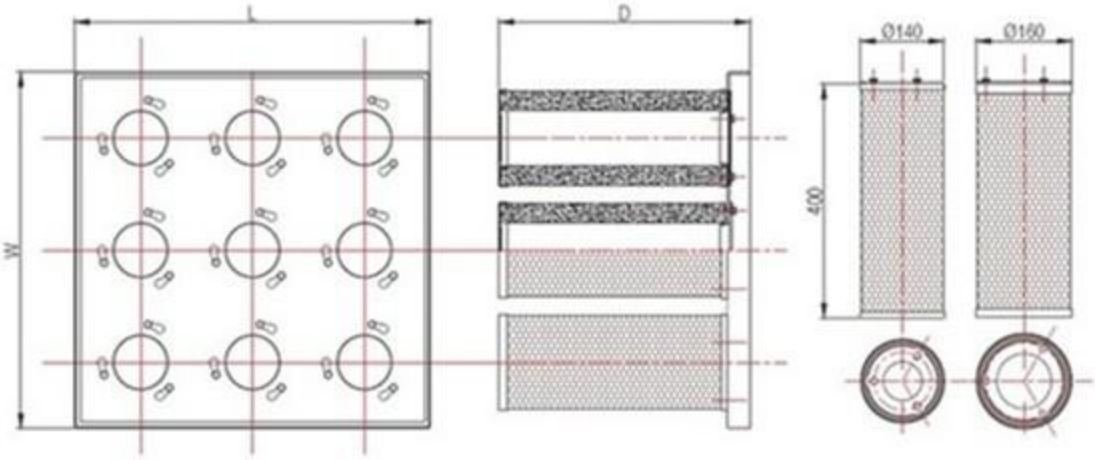

FILTER MODEL

CODE	DIMENSIONS	AIR FLOW	CHARCOAL VOLUME	CARTRIDGES NUMBER	TOTAL WEIGHT	INITIAL PRESSURE DROP		
	W x L x D	mc/h	dm³		kg±10%	Pa		
	mm					FO	FA*	FI*
AC 08 - - 00	305x610x430	1700	32	8	29.300	200	170	125
AC 12 - - 00	507x610x430	2500	48	12	44.500	200	170	125
AC 16 – 00	610x610x430	3400	64	16	58.500	200	170	125
	* Calculated at 85% of the nominal air flow			* Calculated at 65% of the nominal air flow				

SPARE CARTRIDGES

CODE	DIMENSIONS	AIR FLOW	CHARCOAL VOLUME	WEIGHT
	mm	mc/h	dm³	kg
CO 14 04 - -	Ø 140x400	212	4	3,25

SPARE SUPPORTING FRAMES

CODE	DIMENSIONS	WEIGHT	CARTRIGES NUMBER
	mm	kg	
AC08P	305x610	3.350	8
AC12P	507x610	5.500	12
AC16P	610x610	6.650	16

FILTER MODEL

CODE	DIMENSIONS	AIR FLOW	CHARCOAL VOLUME	CARTRIDGES NUMBER	TOTAL WEIGHT	INITIAL PRESSURE DROP		
	W x L x D	mc/h	dm³		kg±10%	Pa		
	mm					FO	FA*	FI*
AC 05 - - 00	305x610x430	1500	32	5	24,5	150	130	100
AC 07 - - 00	507x610x430	2250	42	7	35,0	150	130	100
AC 09 - - 00	610x610x430	3000	54	9	44,5	150	130	100
	* Calculated at 85% of the nominal air flow			* Calculated at 65% of the nominal air flow				

SPARE CARTRIDGES

CODE	DIMENSIONS	AIR FLOW	CHARCOAL VOLUME	WEIGHT
	mm	mc/h	dm³	kg
CO 16 04 - -	Ø 160x400	330	6	4,20

SPARE SUPPORTING FRAMES

CODE	DIMENSIONS	WEIGHT	CARTRIGES NUMBER
	mm	kg	
AC05P	305x610	3.350	5
AC07P	507x610	5.500	7
AC09P	610x610	6.650	9