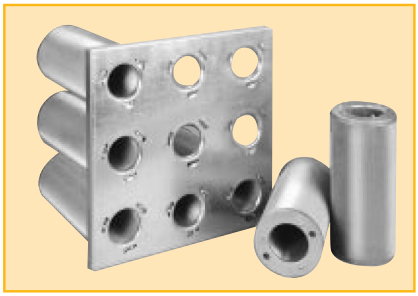
CARBON FILTERS
CAB



CARBOFILT cartridge activated carbon cells

CAB

Prodotto:	**CAB**
Maximum air flow rate:	**110 % of nominal**
Maximum operating temperature:	**60 °C**
Maximum relative humidity:	**60 %**
Applications: odors, steam and organic solvents:	**Carbon type 2.0**
Application: acid gas, H2S, SO2 etc.:	**Carbon type 2.1**

CAB model cartridge activated carbon filters remove the bad odors generally present in civil facilities and the vapors produced by industrial processes.
They are made of a galvanized steel sheet cartridge and micro-drawn grids containing vegetable activated carbon installed in a galvanized sheet frame. The air containing odors and gas passes through the activated carbons inside the cylinders and comes out purified and odorless. Before passing through activated carbons, the air must be properly filtered to remove all the dust and the particles that could clog the carbons.
CAB filters have average activated carbon quantities and are suitable for average odor concentration levels.
They have a low pressure drop and this reduces fan energy consumption levels.
The activated carbons can be regenerated by using vapor.

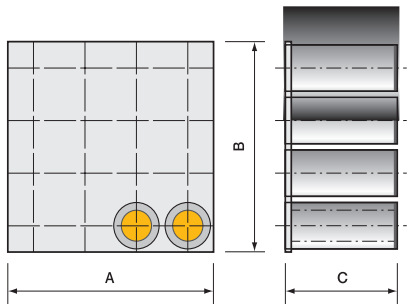
Applications
CAB carbon activated filters are recommended for most of the conditioning and ventilation units in civil facilities, to improve the quality of the air. They contribute to the reduction of external ventilation air flow, hence they significantly limit energy consumption levels.
They are used in air treatment plants, in top roof conditioning units and in ventilation units, downstream of high efficiency pre-filters which protect them from dust build-up.

Installation
As for all other types of filters during installation it is very important to avoid any air by-pass around the activated carbon filter. CAB filters can also be used in duct housing in Multimod elements.
The installation position of the filter can be either horizontal or vertical. To establish the end of the operating life of the filter (saturation of carbons), you need to foresee connections both upstream and downstream of the filter for olfactory evaluations of the air.

Code	Carbon	Sizes (mm)			Nominal air flow		Initial pressure drop	Carbon cont.
CAB	type	A	B	C	m^3/h	$m^3/s \times 10^{-3}$*	Pa	kg
12 / 2.0	P 2.0	600 x	300 x	300	700	194	200	7,5
2 / 2.0	P 2.0	600 x	600 x	300	1800	500	200	22,5
32 / 2.0	P 2.0	600 x	300 x	400	1000	278	200	10,5
4 / 2.0	P 2.0	600 x	600 x	400	2700	750	200	31,5
5 / 2.0	P 2.0	800 x	800 x	400	4500	1250	200	56
6 / 2.0	P 2.0	800 x	400 x	400	2250	625	200	28

**1 $m^3/s \times 10^{-3}$ = 1 l/s*

Size



CARBON FILTERS
SAF

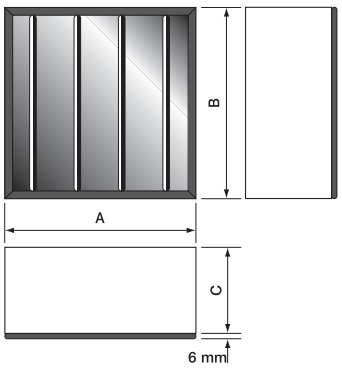
CARBOFILT
activated carbon filters
SAF

Prodotto:	**SAF**
Maximum air flow rate:	**160 % of nominal**
Maximum operating temperature:	**60 °C**
Maximum relative humidity:	**60 %**
Applications: odors, steam and organic solvents:	**Carbon type 2.0**
Application: acid gas, H2S, SO2 etc.:	**Carbon type 2.1**
Application: formaldehyde:	**Carbon type 2.2**
Application: nuclear, radioactive isotope, radioactive nuclide:	**Carbon type 3.0**
Optional: construction:	**AISI 304 stainless steel**

Code	Carbon	Sizes (mm)			Nominal air flow		Initial pressure drop	Carbon cont.
SAF	type	A	B	C	m^3/h	$m^3/s \times 10^{-3}$*	Pa	kg
52 / 2.0	P 2.0	610	305	298	450	125	200	17
52 / 2.1	P 2.1	610	305	298	450	125	220	17
52 / 2.2	P 2.2	610	305	298	450	125	250	17
52 / 3.0	P 3.0	610	305	298	450	125	300	17
5 / 2.0	P 2.0	610	610	298	950	264	200	34
5 / 2.1	P 2.1	610	610	298	950	264	220	34
5 / 2.2	P 2.2	610	610	298	950	264	250	34
5 / 3.0	P 3.0	610	610	298	950	264	300	34

**1 $m^3/s \times 10^{-3}$ = 1 l/s*

Size



SAF activated carbon filters have high quantities of activated carbons used to remove the odors in civil facilities and the vapors produced by industrial processes, even in great concentrations. Their design and construction complies with the international standards in force for the military and nuclear sector. They guarantee the treatment of all contaminated fluid, without by-pass.
SAF filters are made of a galvanized steel sheet panels with electrolytic procedure, containing activated carbon, installed in an external frame, also in electrolytic galvanized sheet. The filter is also fitted with a closed cell neoprene front gasket. The air containing odors and gas passes through the activated carbons inside the panels and comes out purified and odorless. SAF filters have high activated carbon quantities and are suitable for high odor concentration levels.

Applications

SAF activated carbon filter are recommended in civil, industrial and special areas, with average and high quantities of odors and gas; they also meet the requirements of processing plants. They guarantee extended air cleaningand they contribute to the reduction of external ventilation air flow, hence they significantly limit energy consumption levels.

Installation

SAF filters can be installed in air treatment plants, downstream of high efficiency filters. As for all other types of filters during installation it is very important to avoid any air by-pass around the activated carbon filter. SAF filters can also be used in duct housing in Multimod elements or in Canister systems. The installation position of the filter can be either horizontal or vertical. To establish the end of the operating life of the filter (saturation of carbons), you need to foresee connections both upstream and downstream of the filter for olfactory evaluations of the air.

CARBON FILTERS
CAP

CARBOFILT activated carbon cells

CAP

Prodotto:	**CAP**
Maximum air flow rate:	**110 % of nominal**
Maximum operating temperature:	**60 °C**
Maximum relative humidity:	**60 %**
Applications: odors, steam and organic solvents:	**Carbon type 2.0**
Application: acid gas, H2S, SO2 etc.:	**Carbon type 2.1**

Activated carbon filters mod. CAP are flat panels made of a supporting steel sheet frame superficially protected by electrolytic galvanization and micro-drawn grids.
The activated carbons are positioned inside; there are also anti-sagging rigid elements.
These panels have average activated carbon contents, they have very low pressure drops which means the energy consumption levels of the fan are minimal.
The panels come in different thickness: 18, 23, 38, 48 mm.
Top constructive quality, robust features and easy installation and maintenance operations assure wide application opportunities. Saturated activated carbons are re-generable through steam.

Applications

Mod. CAP cells are especially used in civil conditioning and ventilation systems, for tertiary sector applications: libraries, offices, congress centers, airports, banks, restaurants, etc. They are also widely used in institutional buildings: courtrooms, universities, re-education structures, penitentiaries, etc. In these applications CAP mod. cells are usually installed in air treatment units, in roof top conditioners and ventilation units.

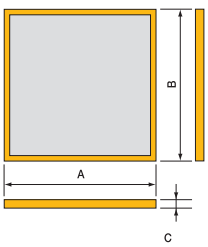
Installation

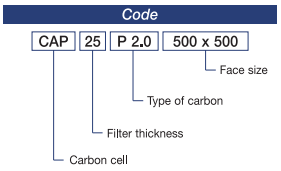
Activated carbon filters CAP mod. like all similar filters, must be fitted with high efficiency pre-filters to avoid rapid clogging. They can be installed both vertically (horizontal air flow) or horizontally (vertical air flow).
They can be installed inside air treatment plants and in Multimod duct housings.
They are installed with CT 10/20/30 counter-frames.

Code	Carbon	Sizes (mm)			Nominal air flow		Initial pressure drop	Carbon cont.
CAP	type	A	B	C	m^3/h	$m^3/s \times 10^{-3}$*	Pa	kg
20 / 2.0	P 2.0	287 x	583 x	18	135	37	90	1,3
20 / 2.0	P 2.0	474 x	583 x	18	270	75	90	2,3
25 / 2.0	P 2.0	500 x	500 x	23	250	70	120	2,7
25 / 2.0	P 2.0	500 x	600 x	23	300	84	120	3,2
40 / 2.0	P 2.0	500 x	500 x	38	250	70	200	4,6
50 / 2.0	P 2.0	500 x	500 x	48	250	70	250	5,8
50 / 2.0	P 2.0	595 x	595 x	48	350	97	250	8,4

**1 $m^3/s \times 10^{-3}$ = 1 l/s*

Size





CARB loose carbon to charge exhausted cells

Model	Package	Application	Type	Sizes (mm)
CARB	kg			
2.0	25	civil and organic vapors	vegetable	granuli 3÷5
2.1	-	acid gas	soaked vegetable	-
2.2	-	formaldehyde	soaked vegetable	-
3.0	-	radioactive isotope	soaked vegetable	-

On request we supply alluminosilicate and zeolites for environmental and gas corrosion control.