

Compfil™ AC

Activated Carbon Filter



Compfil™ AC absolute-rated activated carbon filters are designed for the removal of oil vapour and other hydrocarbons.

These filter elements consist of a two-stage filtration process. All particles are retained within the nanofibre depth filter media, while the activated carbon adsorbs all oil vapours and gaseous hydrocarbons. The filter can achieve residual oil content of <0.003 mg/m³ with appropriate pre-filtration.

Ordering Information

Product Code: 1 2 3 4			
Compfil™ type	Element size	Media construction	
AC	0310	P	Pleated
	0410	C	Cylindrical
	0420		
	0520		
	0525		
	0725		
	0730		
	1030		
	1530		
	2030		
	3030		
	3050		
		Connection	
		U	Plug Connections

For any non-standard connections please enquire with our Sales Team.

Typical Applications

- Chemical and petrochemical
- Pharmaceutical
- Breathing air
- Prefiltration of sterile filters
- Filling machines
- Food and beverage
- Packing machines
- Industrial process

Features and Benefits

- High load of activated carbon
- Flow distribution at the air inlet
- Embedded activated carbon
- Depth filter stage of binder-free woven nanofibres

Specifications

Materials of Manufacture

Filter membranes:	Borosilicate nanofibres
Membrane support:	Polyamide
Support sleeves:	Stainless steel 1.4301/304
Adsorption stage:	Ground activated carbon embedded in PUR foam
Bonding:	Polyurethane
O-rings:	Perbunan®, silicone free and free from parting compounds
Support ring:	Stainless steel 1.4301/304

Operating Temperature

10 to 40°C (50 to 104°F)

Retention Rate

Residual oil content of < 0,003 mg/m³, with pre-filtration

Recommended Pre-Filtration

Residual oil content < 0,01 mg/m³, e.g. by sub-nanofilter IA-S

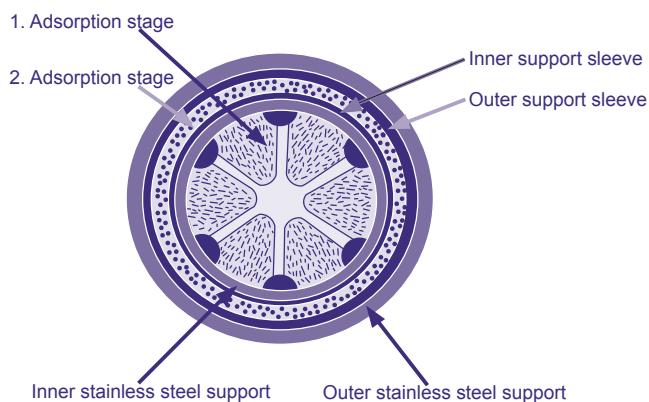
Initial differential pressure at nominal flow:

0.07bar (1.02psi)

Adsorption efficiency of AC:

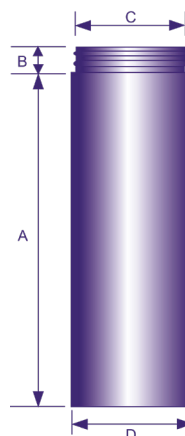
Ethane	Slight
Toluene	Very good
Acetic acid	Very good
Methanol	Good
Acetone	Good
Isopropyl ether	Very good
Methyl acetate	Good
Sulphuric acid	Very good
Hydrogen sulfide	Poor
Chlorine	Good
Freon	Poor
Ammonia	Poor
Citrus fruits	Very good
Perfumes	Very good

Adsorption filter (oil free / odourless)



Dimensions

Element size	A mm (in)	B mm (in)	C Ø mm (in)	D Ø mm (in)	CF Flange
03/10	76 (3)	12 (0.47)	19 (3/4)	42 (1.65)	0,12
04/10	104 (4.09)	12 (0.47)	19 (3/4)	42 (1.65)	0,17
04/20	104 (4.09)	14 (0.55)	25.1 (1)	52 (2.05)	0,19
05/20	104 (4.09)	14 (0.55)	25.1 (1)	62 (2.44)	0,19
05/25	128 (5.03)	14 (0.55)	25.1 (1)	62 (2.44)	0,32
07/25	180 (7.09)	16 (0.63)	25.1 (1)	86 (3.39)	0,47
05/30	128 (5.03)	16 (0.63)	50.8 (2)	86 (3.39)	0,46
07/30	180 (7.09)	16 (0.63)	50.8 (2)	86 (3.39)	0,68
10/30	254 (10)	16 (0.63)	50.8 (2)	86 (3.39)	1,00
15/30	381 (15)	16 (0.63)	50.8 (2)	86 (3.39)	1,55
20/30	508 (20)	16 (0.63)	50.8 (2)	86 (3.39)	2,10
30/30	762 (30)	16 (0.63)	50.8 (2)	86 (3.39)	3,28
30/50	762 (30)	16 (0.63)	50.8 (2)	140 (5.51)	5,89



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