

# Compfil™ IA

High Performance  
Industrial Air Filters



**Compfil™ IA filters are high performance industrial air filters, designed to remove water and oil aerosols as well as particulates from compressed air and gas streams.**

Thanks to the unique combination of binder-free, non-woven nanofibre filter and pleating technology, these high performance filters can achieve a 70% reduction in energy costs, as well as improve filtration performance.

The nanofibre material is naturally oleophobic. Oil and water are actively rejected, so the differential pressure drop and therefore operational costs are reduced to a minimum compared with a conventional filter element.

### Typical Applications

- Chemical and petrochemical industry
- Pharmaceutical industry
- Food and beverage
- Plastic industry
- Process filtration
- Instrument air

### Features and Benefits

- Binder free, thermally welded nanofilter media
- Oleophobic filter media
- Pleated media filter
- Support sleeves of stainless steel (316/316L)
- 70% less energy costs

### Ordering Information

Product Code: 1 2 3 4			
Compfil™ type	Element size	Media construction	Connection
IAF	0310	P Pleated	U Plug Connections
IAM	0410	C Cylindrical	For any non-standard connections please enquire with our Sales Team.
IAS	0420		
	0520		
	0525		
	0725		
	0730		
	1030		
	0530		
	2030		
	3030		
	3050		

## Specifications

### Materials of Manufacture

Filter media:	Binder-free nanofibres
Support sleeves inner/outer:	Stainless steel 1.4301/304.
Pre-and after filter medium:	Pleated Cerex
Outer foam sock:	HT/CR sock up to 120°C (248°F) HT/NX sock up to 180°C (356°F)
Bonding:	Polyurethane
End caps:	Stainless steel
O-rings:	Perbunan®, Silicone free and free from parting compounds

### Operating Temperature

Maximum continuous: 85-90°C (185-194°F)

### Start-up Differential Pressure

IA-F:	0.04bar (0.58psi)
IA-M:	0.08bar (1.16psi)
IA-S:	0.09bar (1.31psi)

### Retention rate at a particle size of 0,01µm (ISO 8573-1)

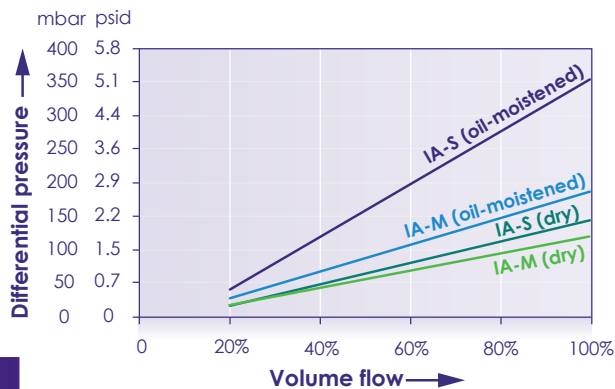
IA-F:	99,999%
IA-M:	99,99998%
IA-S:	99,99999%

### Maximum Differential Pressure

5bar at 20°C (72.5psi at 68°F), independent from operation pressure

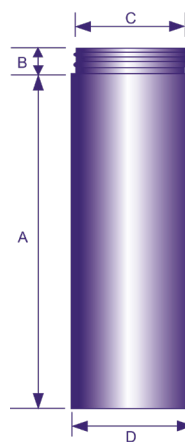
Type	Residual oil content at		Oil retention rate acc. to ISO 12500-1
	3 mg/m³	10 mg/m³	
IA-F	<0.1 ppm	0,2 ppm	99.6%
IA-M	<0.03 ppm	0,03 ppm	99.7%
IA-S	<0.01 ppm	0,02 ppm	99.8%

### Flow Rates



### 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



Element	Correction factor
02/05	0.04
03/05	0.08
03/10	0.12
04/10	0.17
04/20	0.19
05/20	0.25
05/25	0.32
07/25	0.47
07/30	0.68
10/30	1.0
15/30	1.55
20/30	2.10
30/30	3.28
30/50	5.89

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