

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**
Low differential pressure and high particle load.
- **Oleophobic filter media**
Rejects oil and water.
- **Pleated media filter**
450% more filtration surface, higher particle load capacity and low air flow speed.
- **Support sleeves of stainless steel (316L)**
Extremely large free flow, secure and long operation.
- **70% less energy costs**
Due to the combination of binderfree, non-woven nanofibre filter media and pleating technology.



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.

Maximum Differential Pressure

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

Operating Temperature

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

Start-up Differential Pressure

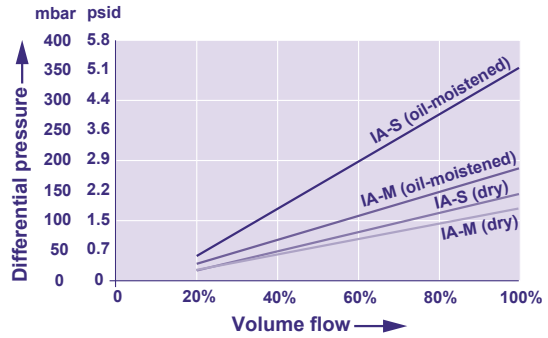
IA-F:	0.04bar (0.58psi).
IA-M:	0.08bar (1.16psi).
IA-S:	0.09bar (1.31psi).

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

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

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

Flow Rates



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%

Product Code: 1 2 3 4

Comfil™ type	Element size	Media construction	Connection	
IAF	0310	P Pleated	B	Code 7
IAM	0410	C Cylindrical	K	Code 2
IAS	0420		M	DOE
	0520		S	3-Lug
	0525		U	Plug Connections
	0725			
	0730			
	1030			
	0530			
	2030			
	3030			
	3050			



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