



# COMPRESSED AIR FILTER

www. [airfluxfiltration.com](http://airfluxfiltration.com)



Certificate No. :KLR 601450



# EXTERIOR SAFETY TECHNOLOGY

## PRECISE AND COMPREHENSIVE

Compressed air systems are widely used in many manufacturing companies and have been associated to one of the most crucial power source. The air produced by the compressed air systems usually contains dirt, water and other unwanted particles that can substantially jeopardize your production process resulting to an extremely higher maintenance cost.

Airflux Microfilter provides a solution to the above problems by removing oil, water and other unwanted particles in your compressed air system. We designed our filter housing to suit different ranges of compressor. Thus, it will prevent oversizing and save you unnecessary costs. With capacity of 34 Scfm up to 1625 Scfm, our filter housings are able to support up to 220 kW (300 hp) air compressors.

## RELIABLE AND DURABLE

Airflux Microfilter has been tested to ensure that all of them are in compliance with compressed air requirements and safety.

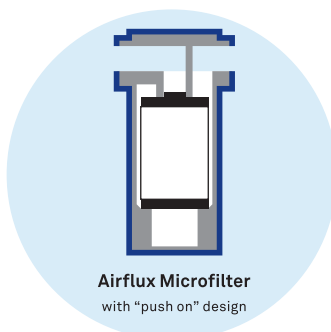
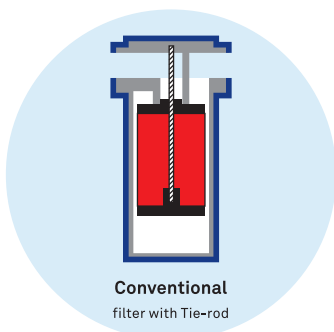
Airflux Microfilter is coated with epoxy powder paint on the outside and anodized surface treatment on the inside for maximum corrosion protection and to extend its lifetime.

## EASY AND TROUBLE-FREE MAINTENANCE

Airflux Microfilter adopts simple and reliable design. The filter housing is designed with a push on element for easy and fast replacement with minimum free space under the filter without tie rod.

Airflux Microfilter is designed without the tie rod to avoid these following problems:

- The wearing out of threads on both the endcaps and tie rods preventing replacement possibilities.
- Leaking and by-passing due to improper tie rod installation.
- An Increase of airflow resistance due to the tie rod.





Airflux Filtration provide various filter elements with different filtration grades to maximize the filtration of any impurities such as dirt, metal oxides, rust, hydrocarbon, water and oil aerosols found in the compressed air system. All of these impurities should be strictly removed to provide the best air quality. Airflux filter elements are manufactured for lowest pressure drop and in accordance with International Standard for compressed air quality ISO 8573.1 : 2001

Solid Particle Dirt	GF PF AF	Water Aerosols	PF AF
Rust Pipescale	GF PF AF	Oil Aerosols Liquid Oil	PF AF
Oil Vapour	AC	Micro Organisms	GF PF AF

### ALOCROM ALUMINIUM TREATMENT



A special feature of all Airflux Microfilter die-cast filter housing.

Corrosion protected inside and out with Alocorm treatment then a tough epoxy paint finish is baked on to give extra long life.

Rapid corrosion of untreated aluminium



No corrosion with aluminium treatment

### NON-CORROSIVE COMPONENT



Non corrosive end-caps prevent oxidation as opposed to aluminum caps which introduce contaminants that pollute the filtered compressed air.



Used filter element

The picture shows oxidation of filter elements with aluminium end-caps

### HIGH RESISTANT DRAINAGE LAYER



Airflux filter elements use high performance drainage layer which can withstand higher operational temperature and is less sensitive to synthetic lubricants when compared to foam sock which may become brittle and completely deteriorate thus contaminating downstream equipments.



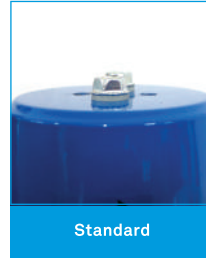
Used filter element

Filter element using foam socks tears under high operational temperature causing the broken pieces to be carried over downstream.

# MICROFILTER CONSTRUCTION



## FILTER HEAD ACCESSORIES



## CONNECTIONS



## CONDENSATE DRAINS



### STANDARD INTERNAL AUTODRAIN

Each Airflux Microfilter is provided with a float type internal automatic drain as it standard option to remove separated liquid from the filter. It also acts as a manual override function to depressurize air from the filter during its replacement period.



### EXTERNAL AUTODRAIN

This is an external automatic drain and it is suitable for high capacity Airflux Microfilter e.g. A175 and above.



### ELECTRONIC TIMER DRAIN

This alternative electronic condensate drain is equipped with an adjustable interval and discharge time. Not only it is applicable to our filter housing but it is also applicable to any types of air compressors, air dryers and air receiver tanks.



### ECONOMY INTERNAL AUTODRAIN

This is an alternative economical auto drain to standard one. It is suitable for Airflux microfilter from A05 to A125.

# AIR FLUX HIGH-EFFICIENCY FILTER ELEMENTS

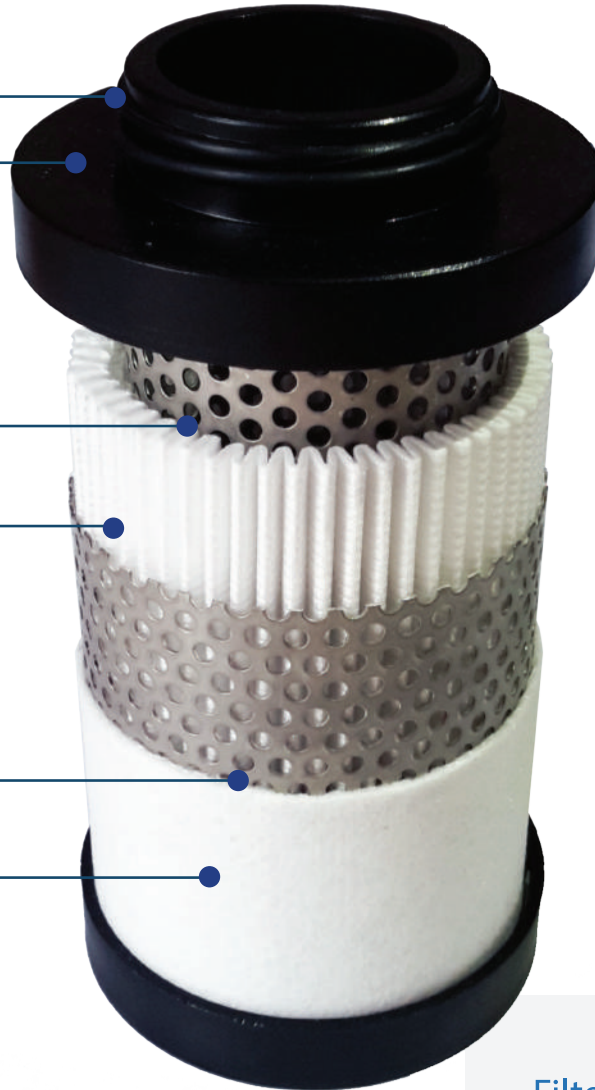
**AIR TIGHT** - Positive 'O'ring seal prevents contamination by-pass.

**CHEMICAL RESISTANT** - Tough corrosion resistant end caps withstand the worst compressed air condition.

**96% VOIDS VOLUME** - gives long life with minimum energy costs.

**HIGH EFFICIENCY** - Anti re-entrainment barrier prevents oil/water carry over and is compatible with mineral or synthetic lubricants.

**MAXIMUM STRENGTH** - Inner and outer stainless support screens up to 10 bar  $\Delta p$ .



## FILTRATION GRADES

**GF**

General filtration for solid contaminant

Particle removal down to ..... 3 micron  
 Air quality ..... ISO 8573.1 Class 3  
 Initial pressure drop ..... 0.03 bar

**AF**

High efficiency filtration for particle, oil & water aerosol

Particle removal down to ..... 0.01 micron  
 Oil content down to ..... 0.01 mg/m<sup>3</sup>  
 Air quality ..... ISO 8573.1 Class 1  
 Initial pressure drop ..... 0.09 bar

**PF**

Pre-filtration for particles, oil & water aerosols

Particle removal down to ..... 1 micron  
 Oil content down to ..... 0.1 mg/m<sup>3</sup>  
 Air quality ..... ISO 8573.1 Class 2  
 Initial pressure drop ..... 0.05 bar

**AC**

Absorption filtration for oil vapour & other hydrocarbon

Oil content down to ..... 0.003 mg/m<sup>3</sup>  
 Air quality ..... ISO 8573.1 Class 1  
 Initial pressure drop ..... 0.10 bar  
 (Always Proceed with Grade AF filter)

\* The above rating is based on operational condition at 7 bar g and 20°C

Filter element changes are essential

**ATTENTION!**

**CHANGE ELEMENT**

every year or earlier if indicator change to red

10 / 2015  
 month year

USE GENUINE PARTS ONLY

All Airflux coalescing filter are supplied with a maintenance sticker. It is essential to change the filter elements every year or earlier if the indicator/gauge change to red.

Activated carbon filter elements ( grades AC ) should be changed every 1000 hours or earlier if odour is detected.

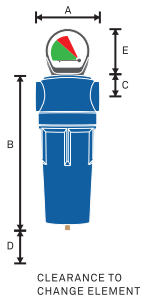
# SPECIFICATION & TECHNICAL DATA

FILTER MODEL	PORT SIZE [BSP-F]	FLOW RATE [at 7 bar g/100 psi g]		DIMENSIONS [mm]					APPROX. WEIGHT [kg]	REPLACEMENT ELEMENT MODEL
		m <sup>3</sup> /min	cfm	A	B	C	D	E		
A05	1/2"	0.96	34	88	200	24	80	70	0.9	AE05
A10	1/2"	1.33	47	88	230	24	100	70	1.0	AE10
A15	3/4"	2.03	72	88	288	24	150	70	1.3	AE15
A25	1"	4.00	141	128	308	39	160	70	2.6	AE25
A40	1 - 1/2"	7.20	254	128	394	39	220	70	2.8	AE40
A75	1 - 1/2"	9.05	320	128	490	39	320	70	3.6	AE75
A100	2"	15.00	530	170	590	55	400	70	6.2	AE100
A125	2"	19.80	699	170	730	55	530	70	7.2	AE125
A175	2 - 1/2"	26.00	918	170	1085	55	770	70	11.2	AE175
A300	3"	37.50	1324	245	1100	74	600	70	20.0	AE300
F460	DN80	46.00	1645	440	1310	200	80	70	80	AE460
F520	DN80	52.30	1846	500	1241	230	100	70	108	AE190 X 2
F780	DN100	78.48	2770	500	1241	230	150	70	110	AE190 X 3
F1040	DN100	104.70	3695	640	1325	280	160	70	151	AE190 X 4
F1560	DN150	156.96	5540	790	1424	300	220	70	212	AE190 X 6
F2090	DN200	209.28	7386	790	1424	340	320	70	232	AE190 X 8
F2610	DN200	261.66	9235	840	1687	360	400	70	357	AE190 X 10
F3130	DN250	313.98	11082	940	1687	420	530	70	455	AE190 X 12
F4180	DN250	418.62	14775	940	1821	420	770	70	462	AE190 X 16
F5230	DN300	523.32	18470	940	1910	450	780	70	528	AE190 X 20

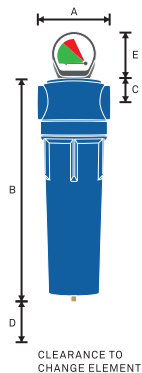
In case of a different operating pressure, the above flow rate should be multiplied by the relevant correction fact

Bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232
Factor	0.25	0.38	0.50	0.65	0.76	0.88	1.00	1.12	1.25	1.39	1.51	1.65	1.74	1.90	2.02	2.18

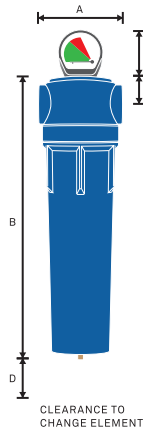
A05 - A15



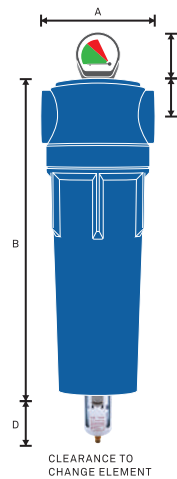
A25 - A75



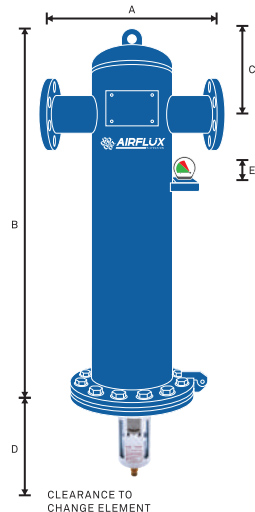
A100 - A125



A175 - A300



F460 - F5230



## Compressed Air Quality to ISO8573 Part 1 : 2001

Oil Removal down to	Class 5	Class 4	Class 3	Class 2	Class 1
0.01 mg/m <sup>3</sup>					AF/AC - class 1
0.1 mg/m <sup>3</sup>				PF - class 2	
1 mg/m <sup>3</sup>					
5 mg/m <sup>3</sup>					
			GF - class 3		
Particle size 1.0-5.0um	20000 per m <sup>3</sup>	1000 per m <sup>3</sup>	500 per m <sup>3</sup>	10 per m <sup>3</sup>	0 per m <sup>3</sup>
Particle size 0.5-1.0um			10000 per m <sup>3</sup>	1000 per m <sup>3</sup>	1 per m <sup>3</sup>
Particle size 0.1-0.5um				100000 per m <sup>3</sup>	100 per m <sup>3</sup>

# OUR QUALIFICATION



## QUALITY ASSURANCE

Our company has been audited by Lloyd's Register Quality Assurance (LRQA) and awarded the ISO 9001:2008 since year 2012.

## TESTED AND VALIDATED

Our products have been tested and validated in accordance to ISO 8573 by a reputable independent institute in Germany. A copy of the certificate is available upon request.





**AIRFLUX**  
FILTRATION

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