ULTRA Filtration

The Best Quality Air Treatment Products

Compressed Air Filter Replacement Element
Suitable For Various Brands Of Filter Housing

STANDARD
ISO 8573.1 : 2001

Alternative Filter Elements

Alternative Filter Element :

Ultra Filtration offers a one-stop source solution to all compressed air element requirements. We used World recognized supplies of filtration from **GERMANY**

ATLAS COPCO	AFE
BEA FILTRI	COMPAIR
CTA	DOMNICK HUNTER
DRYER	DYNA
FRIULAIR	FU-SHENG
HANKISON	HIROSS
HITT	INGERSOLL-RAND
KAESER	M-PLUS
OMEGA	OMI
ORION	PARKER
SMC	SWAN
ULTRA FILTER	VIP
WALKER	ZANDER

Ultra Filtration Pleating Technology :

The heart of Ultra Filtration filter elements consist of borosilicate fiber which is mechanically pleated. This pleated borosilicate fiber when manufacture into filter elements effectively increase the surface area for compressed air to flow through when compared to wrapped filter elements.

- **3-5.5 time larger filtration area as compare to wrapped elements**
- **Higher dirt holding capacity**
- **Lower pressure drop**
- **Lower maintenance costs**
- **Extended service life**

Construction :

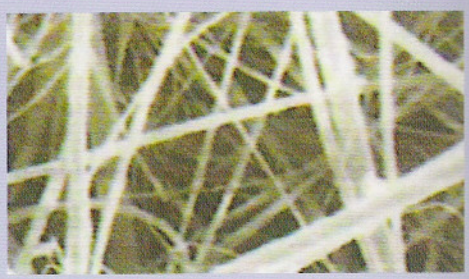
With air quality confirming to ISO 8573.1 standard, Ultra Filtra will play an important part in improving production performanc

Filter Element Design & Material :

High Nitrile O-Ring ensure perfect sealing with in the filter housing whilst withstanding high temp. over 120°C

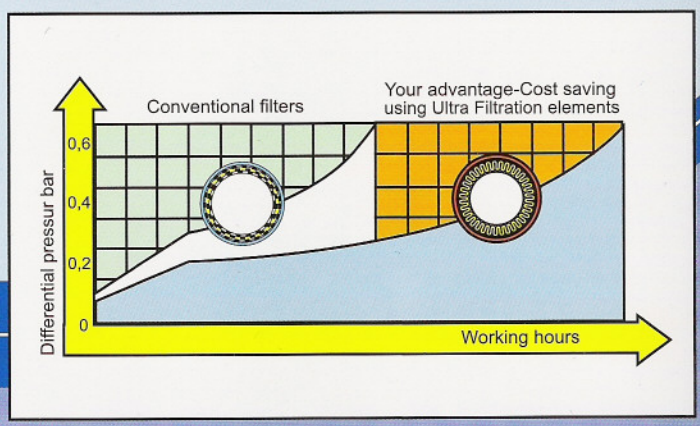
High Efficiency Pleated Filter Media
Pleated Borosilicate Glass Micro fiber Material

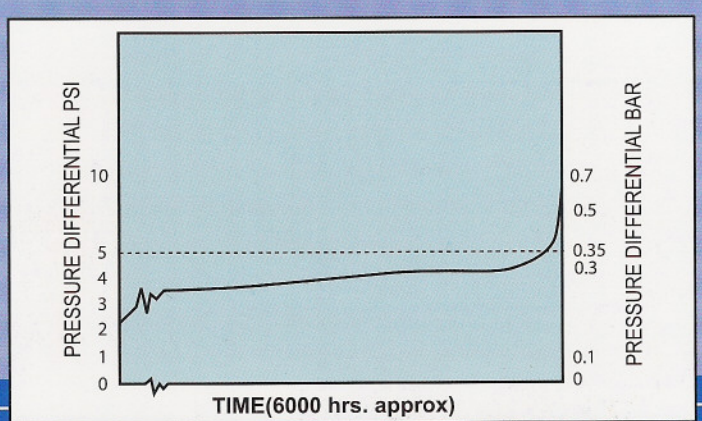
high quality with 96% voids volume provide exceptional dirt holding capacity and extended life span with low differential pressure drop.

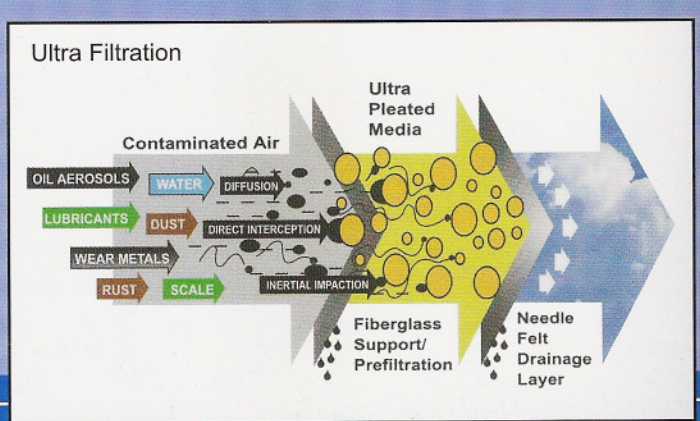


Stainless Steel Peforated Sleeve Support
Inner & Outer corrosion resistant stainless steel support screens provide superior strength up to 10 bar△p.

Polyester Needle Felt Sleeve
Polyester needle felt drainage layer suitable for aggressive environment at temperature up to 120°C.



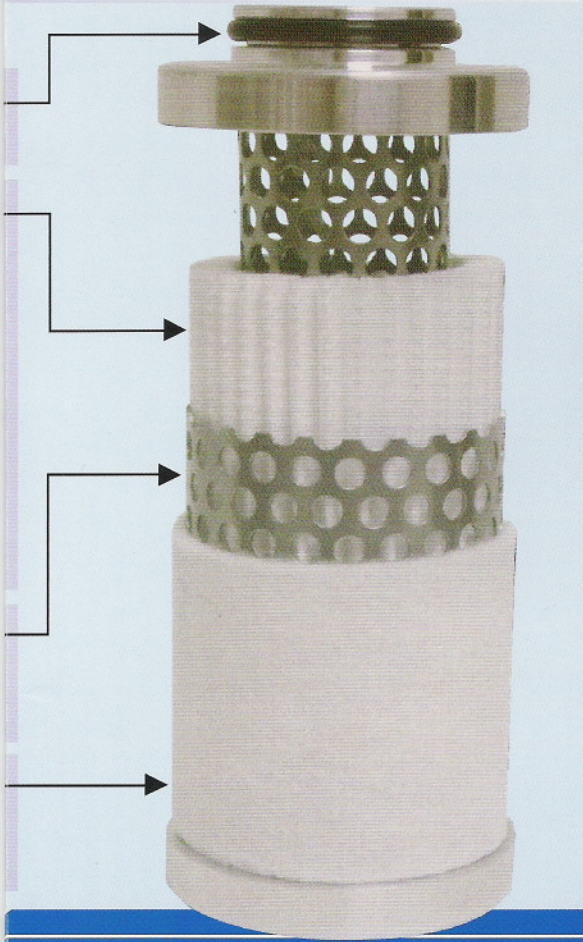




ULTRA Filtration

Quality & Standand ISO 8573.1: 2001

n elements are totally reliable and and reducing maintenance costs.



Research & Quality :

To ensure the highest performance efficiency, elements are put to test on our facility which employs a mono-dispersed aerosol to challenge the elements and a near forward light scattering technique to measure and confirm particle retention efficiency

All compressed air filter elements are manufactured in accordance with ISO 8573.1 : 2001 **(E)**

Compressed Air Quality to ISO 8573 Part 1:2001					
CLASS	Maximun number of Solid Particles per m^3			Water Pressure Dewpoint °C	OIL mg/m^3
	0.1 - 0.5 um	0.5 - 1.0 um	1.0 - 5.0 um		
1	100	1	0	-70	0.01
2	100,000	1,000	10	-40	0.1
3	-	10,000	500	-20	1
4	-	-	1,000	3	5
5	-	-	20,000	7	25
6	-	-	-	10	-

Service :

We can guarantee an immediate response to all your alternative element requirements.

As filtration specialists Ultra Filtration manufacture one of the most comprehensive and competitively price ranges of alternative filter elements for compressed air

Specification :

SPECIFICATION(standard)	X25 (25 Micron)		X3 (3 Micron)		X1 (1 Micron)		XA (0.01 Micron)		AC (Activate Carbon)	
Maximum partical size to ISO 8573.1 class	4		3		2		1		1	
Maximum 0il content to ISO 8573.1 class	5		4		2		1		1	
Particle removal	25 micron		3 micron		1 micron		0.01 micron		N/A	
Maximum oil carryover at 20°c(68°F)	10 mg/m	10 ppm	3 mg/m	3 ppm	0.1 mg/m	0.1 ppm	0.01 mg/m	0.01 ppm	0.003 mg/m	0.003 ppm
Maximum temperature	120°c	248°F	120°c	248°F	120°c	248°F	120°c	248°F	25°c	77°F
Pressure loss-clean & dry	30 mbar	0.4 psi	0 mbar	0.6 psi	75 mbar	1.1 psi	100 mbar	1.5 psi	75 mbar	1.1 psi
Pressure loss oil saturated	50 mbar	0.7 psi	75 mbar	1.1 psi	150 mbar	2.2 psi	300 mbar	4.4 psi	see	notes
Pressure loss - change element	400 mbar	6 psi	400 mbar	6 psi	400 mbar	6 psi	400 mbar	6 psi	see	notes
Maximum recommended pressure differential for element change	-	-	340 to 400 mbar	5 to 10 psi	-	-	-	-	-	-
Element end cap	HIGH GRADE ALUMINIUM									

Ultra Filtration Grades

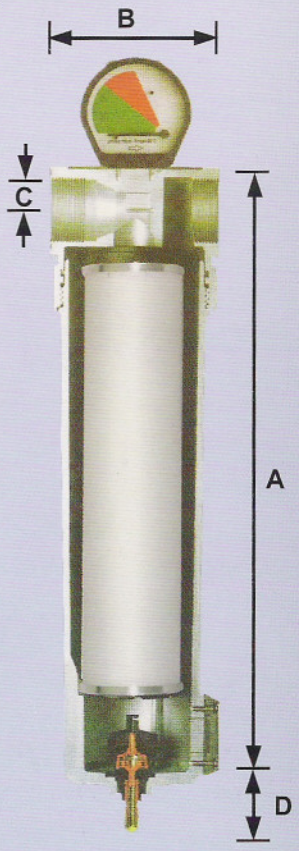
Filter Housing

Model	Capacity		Connection	Dimensions (mm)				Max working pressure (bar)	Weight (kg)	Filter element No./Model
	m^3/min	cfm		A	B	C	D			
AF 0056	1.0	35	3/8"	187	88	21	60	16	0.70	1 x AF 0056
AF 0076	1.3	46	1/2"	187	88	21	60	16	0.77	1 x AF 0076
AF 0106	2.0	70	3/4"	256	88	21	80	16	0.88	1 x AF 0106
AF 0186	3.3	116	1"	262	125	33	100	16	2.20	1 x AF 0186
AF 0306	5.6	194	1"	362	125	33	120	16	2.60	1 x AF 0306
AF 0476	8.5	300	1 1/2"	452	125	33	140	16	2.90	1 x AF 0476
AF 0706	13.0	459	1 1/2"	643	125	33	160	16	3.70	1 x AF 0706
AF 0946	18.5	588	2"	695	163	48	520	16	7.40	1 x AF 0946
AF 1506	25.0	882	2"	965	163	48	770	16	10.00	1 x AF 1506
AF 2406	46.0	1620	3"	1170	248	74	780	16	25.00	1 x AF 2406

The above performances are referred to a filtration temperature of 20°C and working pressure of 7 bar.

- Max. temperature 120 °C(248 °F) and max. pressure 16 bar

Filtration Grade	Application example	ISO 8573.1:2001 Quality Class
GRADE X3	Coarse Pre-Filtration Particles removal down to 3 micron.	Solids:Class 3 Oil Content :Class 4
GRADE X1	High Efficiency General Purpose Filtration For the removal of particles down to 1 micron including coalesced liquid water and oil, providing a maximum remaining oil aerosol content of 0.5 mg/m³ @ 21 °C.	Solids:Class 2 Oil Content :Class 2
GRADE XA	High Efficiency Oil Removal Filtration For the removal of particles down to 0.01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0.01 mg/m³ @ 21 °C.	Solids :Class 1 Oil Content :Class 1
GRADE XC	Activated Carbon Filtration For the oil removal of oil vapour and hydrocarbon odours giving a Maximum remaining oil content of < 0.003 mg/m³	Soilds:Class 1 Oil Content :Class 1
GRADE XAA	Ultra High Efficiency Filtration For the removal of particles smaller than 0.01 micron including water and oil aerosol, providing a maximum remaining oil aerosol content of 0.001 mg/m³ @ 21 °C.	Solids:Class 1 Oil Content:Class 1



Condensate Drain

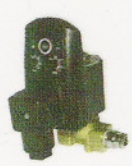

Manual drain


Internal float drain


Mini float drain


Float drain


Mini timed drain


Timed drain


Zero Air loss drain

Ultra Filtration ,The best quality air treatment products.

- High flow possibilities.
- 3-5.5 time larger filtration area.
- Higher dirt holding capacity.
- Lower pressure drop.
- Lower maintenance costs.
- Longer life times.
- Polyester needle felt max. temp. 120°C.

Distributor :