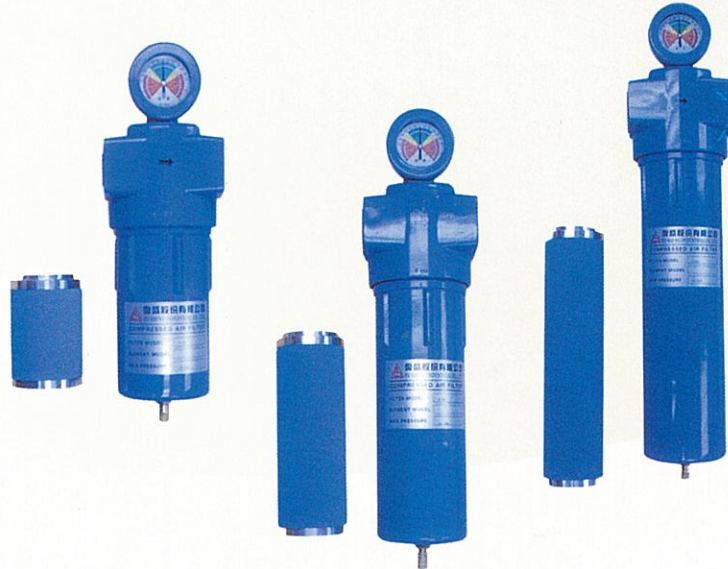


Compressed Air Filters

WHY WE NEED TO PURIFY OUR COMPRESSED AIR

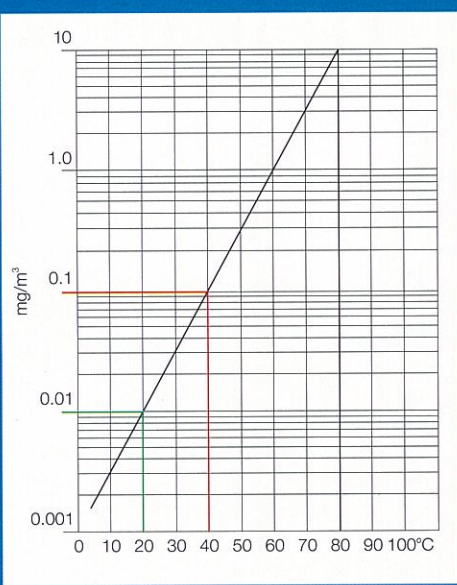


It is estimated that an average of about 140 million dirt particles are found in a cubic metre of air. These primarily are made up of dust, bacteria, viruses, smoke, fumes, hydrocarbon, water, oil and other contaminants contributed by human and industrial activities. Imagine when this air is sucked in by your compressor operating at 8 bar pressure, the particle content would increase to a tremendously troublesome level of 1120 million particle per cubic metre.

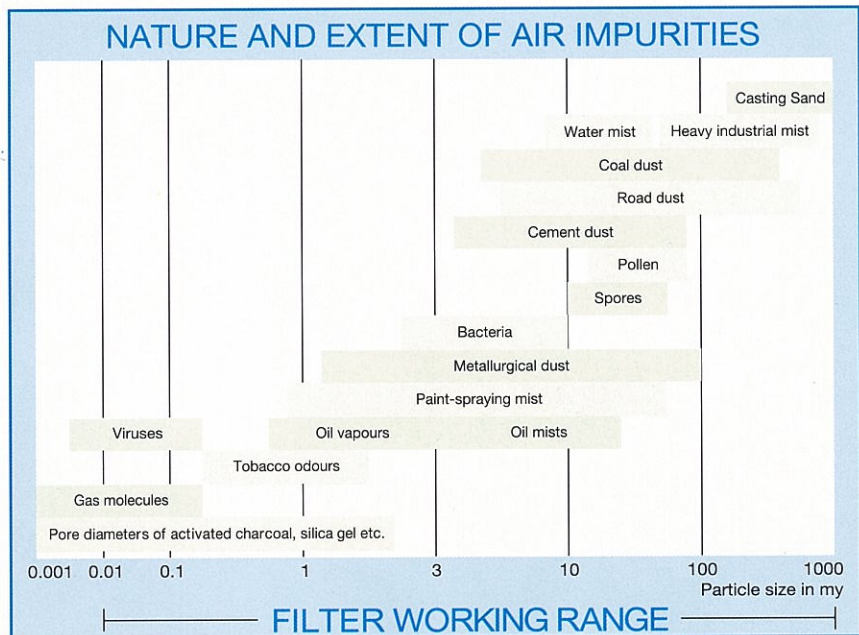
Troublesome in the sense that roughly about 80% of these particles are so small that they will pass easily through your compressor's intake filters and find their way to your process line to either cause frequent expensive downtime of your pneumatic machine or adversely affect the quality of your and products.

This is why it makes economical sense to incorporate compressed air treatment into your compressed air system as the benefits would outweigh the cost, which would probably be only a small fraction of your total business investment.

Vapour curve for mineral oil at 7 bar



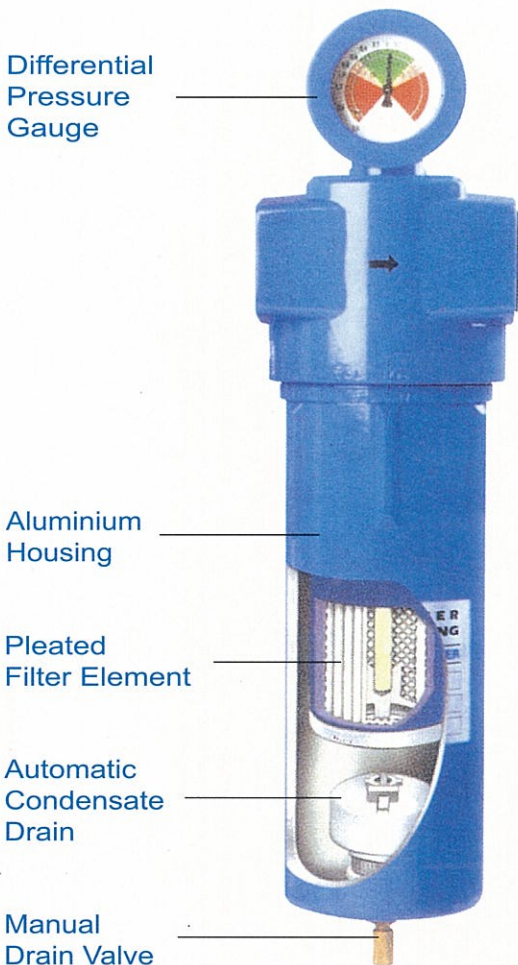
NATURE AND EXTENT OF AIR IMPURITIES



The basic benefits that we can offer with our pleated filter media are:

- Higher effective filtration area
- Higher dirt holding capacity
- Lower pressure drop
- Possibility of higher air flow

ISO 8573.1 QUALITY CLASS			
QUALITY CLASS	DIRT Particle Size in Micron	WATER Pressure Dewpoint°C (ppm.vol.) at 7 bar g	OIL (Including vapour) mg/m ³
1	0.1	-70 (0.3)	0.01
2	1	-40 (16)	0.1
3	5	-20 (128)	1.0
4	15	+3 (940)	5
5	40	+7 (1240)	25
6	—	+10 (1500)	—



The following filter grades has been developed to cover a complete range of compressed air treatment for various application. Upon request, filters can also be manufactured to customers requirements.

1. Grade P

For coarse pre-filtration
99.99% efficiency
Particles removal down to 3 micron
ISO 8573-1 (Class 3)

2. Grade U

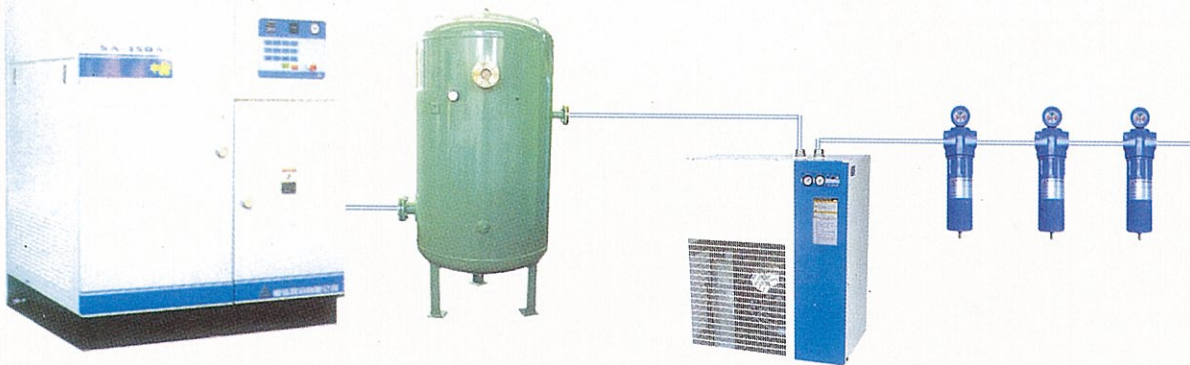
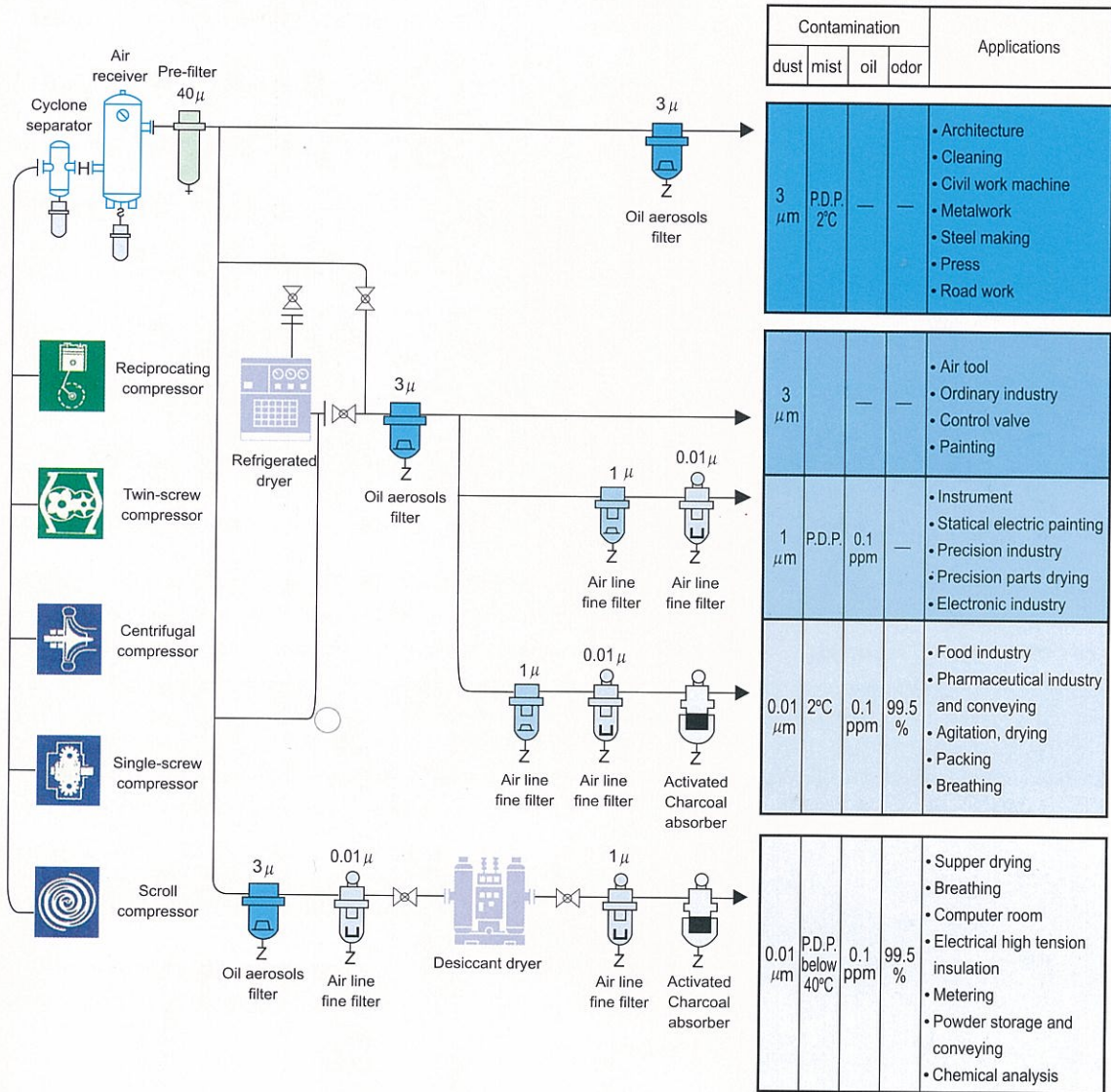
For general filtration
99.99% efficiency
Particle removal down to 1 micron
Oil content down to 0.5 mg/m³
at 7 bar and 20°C
ISO 8573-1 (Class 2)

3. Grade H

For high performance filtration
99.9999% efficiency
Particle removal down to 0.01 micron
Oil content down to 0.01 mg/m³
at 7 bar and 20°C
ISO 8573-1 (Class 1)

4. Grade C

For removal of oil content
down to 0.003 mg/m³
at 7 bar and 20°C
Activated carbon filter
Applicable in oil lubricated
compressors in conjunction
with filter grade H



FILTER TECHNICAL INFORMATION

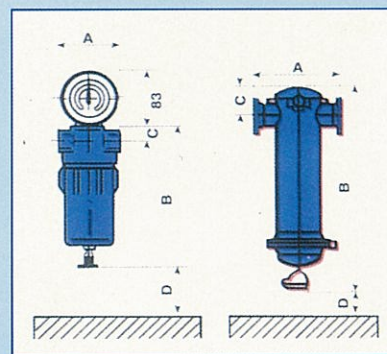
	Filter Model	Pipe Conn.	Capacity At 7 Bar Gauge Pressure			Max Oper. Pressure (bar)	Approx. Weight (kg)	Dimensions				Replacement Element Model
			(1/s)	(m ³ /min)	(cfm)			A	B	C	D	
THREADED	T5	G1/2	10	0.60	21	16	1.3	87	175	21	60	AET5
	T10	G1/2	20	1.20	42	16	1.4	87	209	21	90	AET10
	T15	G1/2	28	1.70	60	16	1.7	87	279	21	90	AET15
	T20	G1	47	2.80	99	16	4.2	130	315	43	135	AET20
	T40	G1 1/2	90	5.40	191	16	4.8	130	415	43	235	AET40
	T60	G1 1/2	133	8.00	283	16	5.6	130	515	43	335	AET60
	T75	G1 1/2	200	12.00	424	16	8.4	130	715	43	525	AET75
	T125	G2	283	17.00	600	16	11.4	164	823	48	520	AET125
	T175	G2 1/2	433	26.00	918	16	13.0	164	1073	48	770	AET175
	T250	G3	600	36.00	1272	16	20.0	250	1052	74	610	AET250
	T300	G3	767	46.00	1625	16	27.5	250	1202	74	760	AET300

Capacity Correction Factor For Various Operating Pressure

Pressure	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Factor	0.25	0.38	0.5	0.65	0.75	0.88	1.0	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2.0	2.13

Filter Grade	Particle Removal Down To	Oil Removal Down To (*)	Nominal Initial Pressure Drop
P	3 micron	—	0.03 bar g
U	1 micron	0.5 mg/m ³	0.05 bar g
H	0.01 micron	0.01 mg/m ³	0.09 bar g
C	—	0.003 mg/m ³	0.10 bar g

(*) Referred to 7 bar and 20 Degrees Celsius.



GENERAL INFORMATION

Maximum recommended operating temperature of 60 degrees Celsius.

Minimum recommended operating temperature 1 degrees Celsius.

Maximum recommended operating pressure of 16 bar.

Maximum recommended pressure differential for element change is 0.6 bar. (Except Grade C)

Material for G-Type filters is aluminium.

Filters come complete with autodrain. Gauges are optional.

Note: Will also make filters to customers' requirement, subject to negotiation.

Fu Sheng reserves the right to change specifications and details without prior notice.