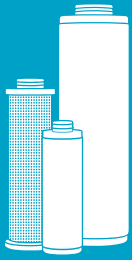


LINE AIR FILTERS





HIGH PERFORMANCE FILTRATION

In almost all applications, contamination of the air supply can cause serious performance decline and increase maintenance costs in terms of actual repairs and lost productivity. Atlas Copco's innovative filtration solutions are engineered to cost-effectively provide the best quality air and meet today's increasing quality demands. They are fully certified according to ISO standards by independent laboratories.

1

Enhanced high-performance stainless steel filter cores

ensure ultimate strength and low risk of implosion.

2

Protection paper avoids direct contact between filter media and stainless steel filter core.

3

Epoxy sealed caps for reliable filtration.

4

New, enhanced glass fiber media ensure high filter efficiency, low pressure drop, and guaranteed lifetime performance. For oil coalescence filters, multiple layers are wrapped around each other to avoid the risk of early oil breakthrough.



8

Internal ribs support the element and facilitate the route of oil droplets.

7

Increased **user friendliness** and reliability via push-on element.

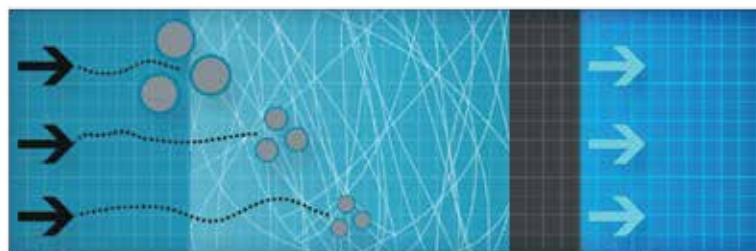
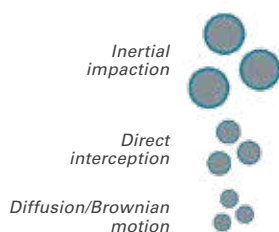
6

Double O-rings guarantee proper sealing to reduce leakage risks and increase energy savings.

5

Dust filters the open foam acts as a pre-filter for the largest dust particles, which prolongs the filter lifetime.

Oil coalescence filters the double drainage layer (outer protection paper and foam) has a large drainage capacity which is ideal for variable speed compressors. Moreover, the poly-urethane foam avoids oil re-entrainment.



For optimal filtration, Atlas Copco filters apply a triple filtration function: inertial impaction, direct interception, and diffusion.

MEETING YOUR EVERY DEMAND

The quality of air required throughout a typical compressed air system varies. With its extensive filter range, Atlas Copco can perfectly match your precise requirements, ensuring that all types of contamination are avoided and costs are reduced to an absolute minimum.

	DD	PD	QD
Filter type	Solid particles	Oil aerosol & solid particles	Oil vapor
Test method	ISO 12500-3	ISO 12500-3	ISO 8573-5
Count efficiency (% at MPPS)	(MPPS=0.1 µm) 99.92	(MPPS=0.06 µm) 99.98	NA
Count efficiency (% at 1 µm)	99.998	> 99.999	NA
Count efficiency (% at 0.01 µm)	99.93	99.995	NA

* Inlet oil concentration = 10 mg/m³, particle size distribution with mean size as close to MPPS as allowed by ISO, to represent a real compressor's outlet.

** Inlet oil concentration = 0.01 mg/m³.

*** PD after DD





FULLY TESTED TO ALL RELEVANT ISO STANDARDS

Atlas Copco filters are qualified according to the ISO 8573-1:2010 standards. This is the latest edition of the standard. Beware of filters that comply with earlier editions of the standard, such as ISO 8573-1:1991 or ISO 8573-1:2001. These may result in a different, inferior quality of delivered compressed air.

Furthermore, our filters comply with ISO 12500-1:2007 and ISO 12500-3:2009, which specifies the test layout and test procedures required for testing coalescing filters and solid particle filters used in compressed air systems to determine their effectiveness in removing oil aerosols and solid particles.



ISO certification

Atlas Copco's filters have been fully tested and qualified according to the following ISO standards:

- ISO 8573: Compressed air
- ISO 8573-1: Compressed air - Contaminants and purity classes
- ISO 8573-2: Compressed air - Test method for oil aerosol content
- ISO 8573-4: Compressed air - Test method for dust
- ISO 12500: Filters for compressed air - test methods
- ISO 12500-1: Filters for compressed air – test methods – oil aerosols
- ISO 12500-3: Filters for compressed air – test methods – particulates

Tests have been conducted in-house and in external labs, and independently validated by TÜV.



SUITABLE FOR FOOD APPLICATIONS

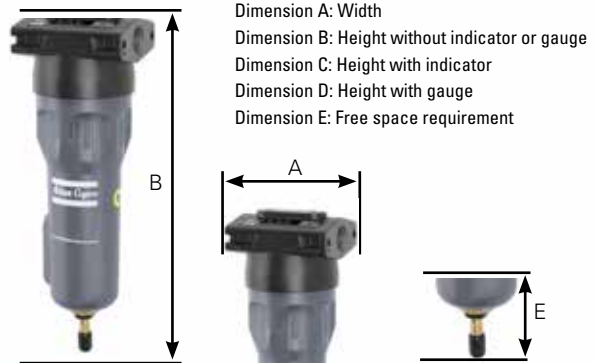
Compressed air may come into direct or indirect contact with food. When this happens, for example during production or processing, this requires a much higher level of contaminant control. Particular attention needs to be given to contaminants added during the compression and the distribution process, such as bread packaging, fluidized bed in the transfer of flour from a tanker etc. Atlas Copco's filters comply with the bacteriological filtration grade and the British Compressed Air Society (BCAS) Food Grade Compressed Air Code of Practice. Non-contact recommendation is purity class 1:4:1 according to ISO 8573-1:2010.



TECHNICAL DATA, SELECTION & SIZING

Filters Size (DD, PD, QD, DDp, PDp, QDp)	Nominal capacity		Connection (G or NPT)	Dimensions								Free Spaces Cartridge replacement		Weight
				A		B		C		D				
	l/s	cfm	inch	mm	inch	mm	inch	mm	inch	mm	inch	kg	lb	kg
12	12	25	1/2	90	3.5	228	9.0	268	10.6	299	11.8	75	3.0	1
25	25	53	1/2	90	3.5	228	9.0	268	10.6	299	11.8	75	3.0	1.1
45	45	95	1/2	90	3.5	283	11.1	323	12.7	354	13.9	75	3.0	1.3
65	65	138	3/4	110	4.3	303	11.9	343	13.5	374	14.7	75	3.0	1.9
90	90	339	1	110	4.3	343	13.5	383	15.1	414	16.3	75	3.0	2.1
160	160	391	1 1/2	140	5.5	449	17.7	489	19.3	520	20.5	100	3.9	4.2
215	215	455	1 1/2	140	5.5	532	20.9	572	22.5	603	23.7	100	3.9	4.5
265	265	561	1 1/2	140	5.5	532	20.9	572	22.5	603	23.7	100	3.9	4.6
360	360	763	2 1/2	179	7.0	618	24.3	658	25.9	689	27.1	150	5.9	6.9
525	525	1112	3	210	8.3	720	28.3	760	29.3	791	31.1	200	7.9	11
690	690	1462	3	210	8.3	890	35	930	36.6	961	37.8	200	7.9	12.6

Referred to 7 bar(e) 102psig/Temperature 20°C
 Maximum pressure : 16 bar(e) / 232psi
 Maximum air inlet temperature
 DD/DDp/PD: 66°C (150°F)
 QD: 35°C (95°F)



Pressure Drop PD					DD	DDp	PD	PDp	QD
initial pressure drop at nominal conditions (dry)					0.05	0.05	0.08	0.08	0.07
initial pressure drop at nominal conditions (wet)					0.12	NA	0.2	NA	NA
Inlet Pressure Bar (g)	2	4	6	7	8	10	12	14	16
Inlet Pressure psig	29	58	87	102	116	145	174	203	232
Correction factor	0.53	0.75	0.92	1	1.06	1.2	1.31	1.41	1.5





COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers,
towards the environment and the people around us.
We make performance stand the test of time.
This is what we call – Sustainable Productivity.

Atlas Copco Compressor Technique

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