

# Quality Air Solutions

## Compressed Air Filters



## The ultimate protection

When air is compressed, the concentration of dirt particles, oil carryover and moisture increases. This creates an abrasive mixture that, when left as such, may bring about severe instrument failures and even contaminate your end product. To protect your investment, equipment and processes, Atlas Copco presents a complete range of innovative filtration solutions to efficiently reduce all types of contamination with minimal pressure drop.



### **YOUR BENEFITS:**

- Maximum contaminant removal
- Significant energy savings
- Limited system operating costs
- Increased reliability
- Easy maintenance



**Atlas Copco**

# Technical specifications

## DD, DDp, PD, PDp, QD AIR FILTERS & HIGH PRESSURE MODELS

FILTER SIZE	Nominal capacity (1)		Maximum capacity (1)		Connections G or NPT	Dimensions						Free space for cartridge replacement		Weight	
	l/s	cfm	l/s	cfm		A		B		C		D		kg	lbs
DD, DDp, PD, PDp, QD	l/s	cfm	l/s	cfm		mm	in	mm	in	mm	in	mm	in	kg	lbs
9	9	19	11	23	3/8	90	3.54	61	2.40	268	10.55	75	2.95	1	2.2
17	17	36	21	45	1/2	90	3.54	61	2.40	268	10.55	75	2.95	1.1	2.4
32	32	68	40	85	1/2	90	3.54	61	2.40	323	12.72	75	2.95	1.3	2.9
44	44	93	55	117	3/4 & 1	110	4.33	98.5	3.88	374	14.72	75	2.95	1.9	4.19
60	60	127	75	159	1	110	4.33	98.5	3.88	414	16.3	75	2.95	2.1	4.6
120	120	254	150	318	1-1/2	140	5.51	105	4.13	520	20.47	100	3.94	4.2	9.3
150	150	318	188	399	1-1/2	140	5.51	105	4.13	603	23.74	100	3.94	4.5	9.9
175	175	371	219	464	1-1/2	140	5.51	105	4.13	603	23.74	100	3.94	4.6	10.1
280	280	594	350	742	2 & 2-1/2	179	7.05	121	4.76	689	27.13	150	5.91	6.9	15.2
390	390	827	488	1035	3	210	8.27	128	5.04	791	31.14	200	7.87	11	24.2
520	520	1102	650	1378	3	210	8.27	128	5.04	961	37.83	200	7.87	12.6	27.8
520F	520	1102	650	1378	DN80	370	14.57	190	7.48	930	36.61	660	25.98	70	154.3
780F	780	1654	975	2067	DN100	510	20.08	230	9.06	935	36.81	630	24.8	130	286.6
1050F	1050	2226	1313	2784	DN100	510	20.08	230	9.06	935	36.81	630	24.8	130	286.6
1400F	1400	2968	1750	3710	DN150	620	24.41	290	11.42	1065	41.93	625	24.61	190	418.9
1800F	1800	3816	2250	4770	DN150	640	25.2	280	11.02	1130	44.49	560	22.05	210	463.0
2100F	2100	4452	2625	5565	DN150	690	27.17	290	11.42	1140	44.88	560	22.05	250	551.2
2700F	2700	5724	3375	7155	DN200	820	32.28	350	13.78	1280	50.39	650	25.59	330	727.5
3150F	3150	6678	3938	8349	DN200	820	32.28	350	13.78	1280	50.39	650	25.59	330	727.5
4800F	4800	10176	6000	12720	DN250	862	33.94	469	18.46	1352 (2)	53.23	800	31.5	540	1190.5
7200F	7200	15256	9000	19080	DN300	1000	39.37	533	20.98	1377 (2)	54.21	850	33.46	700	1543.2

(1) Nominal pressure: 7 bar(e)/102 psig; temperature 20°C, 68°F

(2) Distance from the center of the flange down to the lowest point of the vessel.

Maximum air inlet temperature

DD/DDp/PD/PDp: 66°C (151°F)

QD: 35°C (95°F)

## 20 BAR - HIGH PRESSURE FILTERS

FILTER SIZE	Inlet capacity		Maximum inlet pressure		Connections G or NPT	Dimensions				Free space for cartridge replacement		Weight	
	l/s	cfm	bar(e)	psig		A		C		D		kg	lbs
DDH, DDpH, PDH, PDpH, QDH	l/s	cfm	bar(e)	psig		mm	in	mm	in	mm	in	kg	lbs
14	14	30	20	290	3/8	90	3.54	321	12.64	75	2.95	1	2.2
27	27	57	20	290	3/8	90	3.54	321	12.64	75	2.95	1.1	2.4
50	50	106	20	290	1/2	90	3.54	376	14.8	75	2.95	1.3	2.9
70	70	148	20	290	3/4	110	4.33	396	15.59	75	2.95	1.9	4.2
95	95	201	20	290	3/4	110	4.33	436	17.17	75	2.95	2.1	4.6
185	185	392	20	290	1-1/2	140	5.51	546	21.5	100	3.94	4.2	9.3
240	240	509	20	290	1-1/2	140	5.51	626	24.65	100	3.94	4.5	9.9
275	275	583	20	290	1-1/2	140	5.51	626	24.65	100	3.94	4.6	10.1
445	445	943	20	290	2	179	7.05	711	28	150	5.91	6.9	15.2

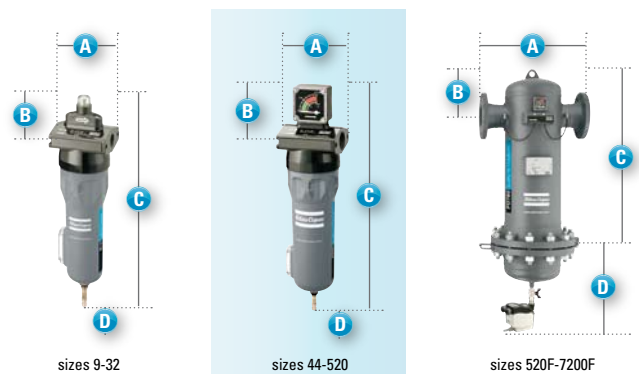
## PRESSURE DROP

	DD	DDp	PD	PDp	QD
Initial pressure drop at nominal capacity (dry)	0.05	0.05	0.08	0.08	0.07
Initial pressure drop at nominal capacity (wet)	0.12	N/A	0.2	N/A	N/A

For other compressed air inlet pressures, multiply the filter capacity by the following correction factors:

Inlet pressure	bar	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

N/A: Not applicable.



Never use compressed air as breathing air without prior purification in accordance with local legislation and standards.

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