

# Compressed air filters

Pro range  
CR/CF/DR/DF/OF 12-690

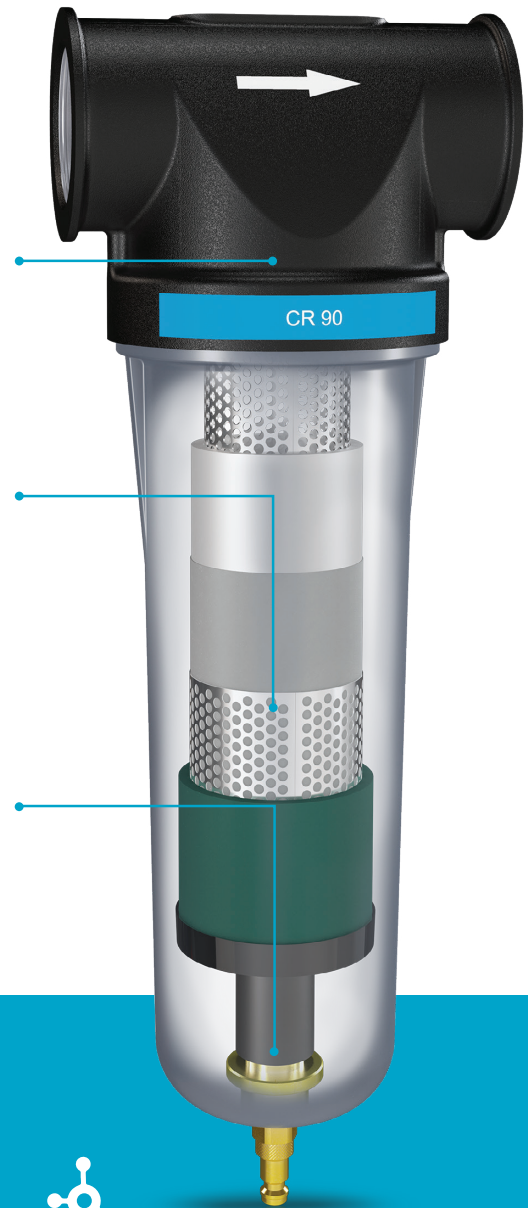
## Atlas Copco filtration solutions

- High performance oil coalescing filters
- Optimal dry dust filtration
- Oil vapor and odor removal filter

Housing with powder coating to maximize corrosion protection

Strong and durable zinc plated cylinders

Float drain automatically expels all captured oil and water (for CR & CF)



## Features & benefits



### Filtration technologies

Choose the best filtration technology for your application to improve your air quality and end product quality.



### Dry & wet particles: wrapped media

Wrapped media are known for their durability in wet and oil-contaminated environments. Our wrapped layers can offer constant air quality at the lowest pressure drop, even in the harshest working conditions.



### Oil vapor: activated carbon layers

The activated carbon will reduce hydrocarbons, odors and oil vapor by the use of adsorption. Our activated carbon layers can offer low pressure drop and stay minimal during the lifetime of the filter.

## Performance

	CR Coalescence Rough	CF Coalescence Fine	DR Dust Rough	DF Dust Fine	OF Oil Vapor
Contaminant	Oil aerosol		Dry dust		Oil vapor
Test method	ISO12500-1:2007		ISO12500-3:2009		ISO8573-5:2001
ISO class 8573-1 in typical installation	[2:-:3]	[1:-:2]	[2:-:~]	[1:-:~]	[:-:~1]
Initial dry (wet) pressure drop (mbar)	135 (245)	150 (280)	135	150	190
Element service	After 4,000 operating hours or 1 year		After 4,000 operating hours or 1 year		After 1,000 operating hours or 1 year
Precede with	Water Separation	Water Separation & CR	Dryer	Dryer & DR	Water Separation CR/CF Dryer

\*Note: For a better performance or a different applications, please contact an Atlas Copco sales representative or visit the Atlas Copco website.

## Your benefits

### Maximum oil aerosol, wet dust and water droplet filtration and drainage

High-efficient glass fiber and foam media

### Easy maintenance

External ribs on the threaded housing.

### Significant energy savings & limited system operating costs

Optimal design and filter media allow low pressure losses.

### High reliability

Power coated filter housing, which prevent corrosion and epoxy sealed caps.

## Sizing and dimensions

Filter Size	Nominal	Capacity	Reference	Pressure	Maximum	Pressure	Connections	Dimension						Weight	
	l/s	cfm	bar(e)	psig	bar(e)	psig	in	L		W		H		kg	lbs
								mm	inch	mm	inch	mm	inch		
12	12	25	7	102	16	232	3/4	400	15.60	100	3.90	133	5.19	0.9	2.0
25	25	53	7	102	16	232	3/4	400	15.60	100	3.90	133	5.19	0.9	2.0
45	45	95	7	102	16	232	3/4	442	17.24	100	3.90	133	5.19	1.1	2.4
65	65	138	7	102	16	232	1	460	17.94	122	4.76	143	5.58	1.7	3.7
90	90	191	7	102	16	232	1 1/2	508	19.81	135	5.27	143	5.58	2.0	4.4
160	160	339	7	102	16	232	2	614	23.95	190	7.41	190	7.41	4.0	8.7
215	215	456	7	102	16	232	2	655	25.55	190	7.41	190	7.41	4.4	9.6
265	265	562	7	102	16	232	2	695	27.11	260	10.14	190	7.41	4.6	10.2
360	360	763	7	102	16	232	2 1/2	815	31.79	310	12.09	235	9.17	7.3	16.2
525	525	1112	7	102	16	232	3	903	35.22	425	16.58	277	10.80	10.5	23.1
690	690	1462	7	102	16	232	3	1077	42.00	550	21.45	277	10.80	12.4	27.2

## Correction Factor

Inlet pressure (bar)	1	2	3	4	5	6	7	8	10	12	14	16
Inlet pressure (psig)	15	29	44	58	72.5	87	102	116	145	174	203	232
Correction factor	0.38	0.53	0.65	0.75	0.83	0.92	1.00	1.06	1.20	1.31	1.41	1.50

## Example

- Working pressure 3 bar(g), compressed air flow 35 l/s
- Multiply the nominal capacity of the selected filter with the corresponding correction factor at the required working pressure to obtain the capacity at working pressure.
- Size 45: 45 l/s \* 0.65 = 29 l/s => the 45 filter size is not large enough.
- Size 65: 65 l/s \* 0.65 = 42 l/s => the 65 filter size is the size to select.

## Options

Pressure differential gauge could be ordered separately as accessory. Details please contact Atlas Copco sales representative.



**Atlas Copco**

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