

The Atlas Copco logo is located in the top right corner, featuring the company name in a white serif font between two horizontal white bars on a teal background.A technical drawing overlay is positioned in the bottom left corner, showing a cross-section of a filter with various dimensions and labels such as 'C-C (1:3)', 'Ø12', and '10.5'.

ARC

rolled activated
carbon filters

ARC rolled activated carbon filters

Product description

Introduction

ARC filters provide reliable and economic filtration in medium-duty, semi-critical applications. Its filter media consist of multilayers of impregnated activated carbon polyester felt with spun bonded PP pre-filter for protection of the carbon media and maximizing service life.

Devices

ARC filters are available in a wide range of scalable high flow cartridges that allow for fast and easy scale-up of your production. From laboratory-scale filters to production scale assemblies, all filters incorporate the same media and identical materials of construction, eliminating the need to requalify filter units as processes are scaled up.

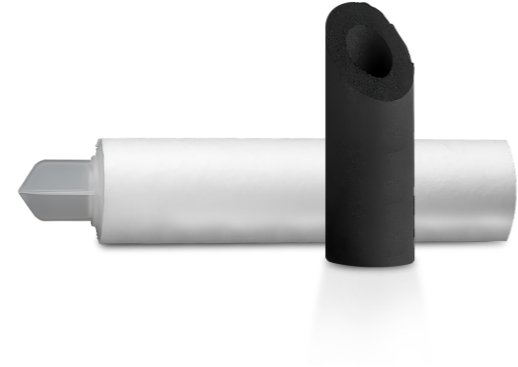
Compatibility

The ARC filter series are made from a multi layer carbon impregnated felt media using a polyester substrate. This minimizes the risk of microbiological contamination and due to its broader compatibility, can be used in a wide range of chemical applications.

Documentation

ARC filters are designed, developed, and manufactured in accordance with an ISO 9001-certified Quality Management System.

All the materials used comply with the European Union Regulation (EC) No. 1935/2004 as well as the Regulation (EU) No. 10/2011. concerning plastic materials and articles intended to come into contact with foodstuffs. These guidelines for plastics allow their use in food and beverage applications. All materials used meet the requirements of the CFR Title 21.



Key features

- Graded density pre-filtration layer
- All polymeric construction for excellent compatibility
- Polyester substrate for reduced microbial risk

Applications

Thanks to its chemical compatibility ARC series filters are widely used in Food & Beverage, Pharmaceutical, Cosmetics and Chemical Industries.

- Ozone level reduction
- Plating bath organics reduction
- Small scale chlorine, odor and TOC reduction
- Color reduction in solvents



Technical data

Micron ratings (µm)

5 µm

Cartridge length

10"/20"/30"/40"

Cartridge diameter

66.5mm

Material of construction

Filter media	Carbon encapsulated PE felt, PP melt blown outer
Core	Polypropylene
End caps	Polypropylene + reinforcement
Seal	Silicone, Viton, EPDM

Maximum operating temperature

80°C

Maximum differential pressure forward (cartridges)

4.0 bar @20c

Recommended changeout differential pressure

2.5 bar @20c

Regulatory compliance

Indirect food additive

The product complies with food contact regulation 21CFR §177 - 182 and (EC) No 1935/2004 and subsequent amendments

Quality assurance

For each filter cartridge an electronic Certificate of Conformity is available, detailing relevant information and product approvals against the specific batch number and part number for the filter. The filter cartridges are manufactured in a controlled environment.

Product purity

All ARC series cartridges are free of surfactants, anti static agents, binders and adhesives.

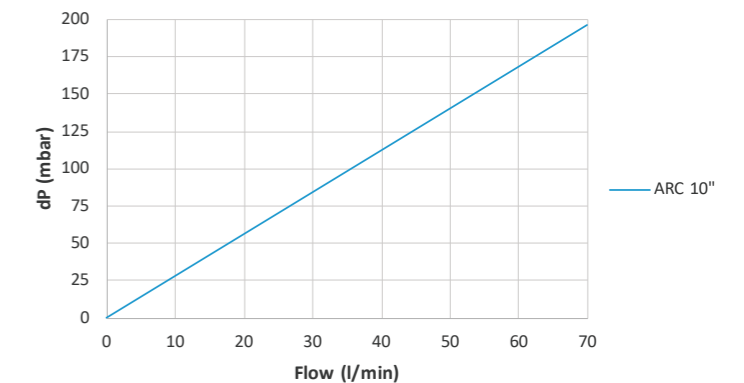
Chlorine reduction capacity

>15000 liters based on a >96% reduction of 2ppm free chlorine at 3.7l/min flow rate.

Maximum flow rater per 10" cartridge

15 l/min

Flow rate



Note: 10" cartridge tested with water @20°C, 1.005 cP (typical flow rate)

Protecting process, products and people

Atlas Copco's process filters optimize your productivity while protecting your process, product and consumers. Our portfolio of cartridges and housings covers all your filtration needs. The products are made from proven, high quality materials from reputable suppliers and manufactured in a controlled environment subjected to strict QA/QC procedures.

Product configuration

Cartridges

Series	Rating (μm)	Length	End cap	Seal
ARC	5	10"	C2 (2x226 O-ring + 2 tabs/flat)	S (Silicone)
		20"	C3 (2x222 O-ring/flat)	E (EPDM)
		30"	C7 (2x226 O-ring + 2 tabs/fin)	V (Viton)
		40"	C8 (2x222 O-ring/fin)	
			C28 (2x222 O-ring + 3 tabs/fin)	
		DOE (flat + gasket/flat + gasket)		

Example: ARC 5 μm 20" C7 S

