



## ASC/ARC active carbon filters

### Reduction of chlorine, odor, color and trace organics in valuable liquids

ASC filters provide extremely reliable and efficient reduction in heavy-duty and highly critical applications. It has an extended service life thanks to its high surface area and durable materials. Its filter media consist of a sintered high purity carbon block with spun bonded PP pre-filter integrated into a robust cage with reinforced end cap.

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 integrated into a robust cage with reinforced end cap.



#### Key features:

- Large carbon surface area
- Wide chemical compatibility
- No fluidization, channeling or bypass
- Reinforced end cap

#### Applications:

- Color reduction in bottled water
- Removal of VOC's from water
- Plating bath organic reduction
- Reduction of ozone

#### Quality first:

- Manufacturing acc. ISO 9001 in a controlled environment
- Comply with EU Regulation No. 1935/2004
- Materials used meet FDA title 21 and USP Class VI
- Batch traceability

### Protecting process, products and people

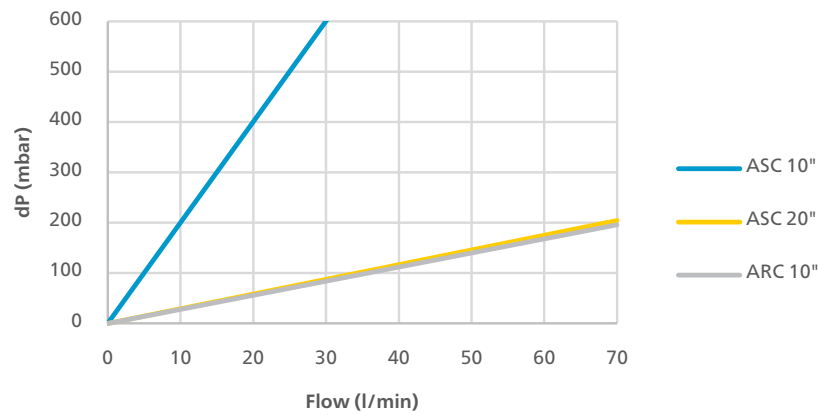
Atlas Copco's process filters optimize your productivity while protecting your process, product and consumers. Our portfolio of cartridges and housings covers all your filtration needs. The products are made from proven, high quality materials from reputable suppliers and manufactured in a controlled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



## Product specifications

| Materials of construction                    |   |
|--|---|
| Filter media                                 | ASC: Sintered active carbon block<br>ARC: Multilayer active carbon impregnated polyester felt |
| Pre-filter layer                             | Spun-bonded polypropylene (5 µm)  |
| End caps                                     | Polypropylene (reinforced)  |
| Dimensions                                   |   |
| Diameter                                     | 66.5 mm   |
| Inside diameter                              | 27 mm   |
| Operating conditions                         |   |
| Max. temperature                             | 80°C  |
| Recommended change out differential pressure | 2.5 bar   |
| SIP/CIP                                      |   |
| Steam sterilization                          | ≤ 20 cycles @ 121°C for 15 minutes  |
| Hot water sanitization                       | 90°C for 30 minutes @ dP 0.2 bar  |

## Flow rate



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

## Chlorine reduction capacity

| Cartridge type | Flow rate      | Chlorine reduction capacity |
|----------------|----------------|-----------------------------|
| ASC            | 3.7 liters/min | > 75 000 liters             |
| ARC            | 3.7 liters/min | > 2 000 liters              |

**Note:** Based on challenging a 10" filter with water containing 3.0 ppm of free chlorine

## Product configuration

| Series | Housing Style | Pressure PSIG | Housing Material                  | Gasket Material |
|--------|---------------|---------------|-----------------------------------|-----------------|
| ASC    | 5 µm          | 10" (249 mm)  | C2 = 2 x 226 O-ring + 2 tabs/Flat | S = Silicone    |
| ARC    |               | 20"           | C3 = 2 x 222 O-ring/Flat          | E = EPDM        |
|        |               | 30"           | C7 = 2 x 226 O-ring + 2 tabs/Fin  | V = Viton       |
|        |               | 40"           | C8 = 2 x 222 O-ring/Fin           |                 |
|        |               |               | C28 = 2 x 222 O-ring + 3 tabs/Fin |                 |
|        |               |               | DOE = Flat + gasket/Flat + gasket |                 |
|        |               |               | N = None                          |                 |

**Example:** ARC 5 µm 20" C28 S