

# ACTIVATED CARBON FELT FILTER BAG

**AC series**



*Feature Tec's latest innovation is an activated carbon filter bag with activated carbon fibers. The activated carbon felt filter bags provides strong absorbency on microbes and due to the tortuous path produced by the fibrous structure it creates a prolonged contact time of the fluid for improved adsorption and filtration.*

## **Applications**

- Deodorization
- Recycled water
- Degreasing agents
- Electroplating fluids
- Syrup decoloration
- Drinking water de-chlorination
- Pharmaceuticals and many more

## **Features and benefits**

- Available with stainless steel ring adapts to any bag filter housing
- Activated carbon fibers offer up to ten times the adsorption area compared to standard granular carbon
- Excellent adsorbing performance removes effectively impurities, harmful substances, odours and adsorb harmful gas impurities

- Effective reduction of chlorine
- Removing of asbestos and heavy metals such as mercury and lead

## **Filter specifications**

### **Material**

Polypropylene needle felt with activated carbon fibers

### **Seal ring**

Sewn stainless steel seal ring

### **Retention rating**

5 µm

## **Dimensions / Parameters**

### **Sizes**

01: Ø 178 x 420 mm  
02: Ø 178 x 810 mm  
03: Ø 102 x 230 mm  
04: Ø 102 x 410 mm

### **Filter area**

01: 0.24 m<sup>2</sup> 02: 0.48 m<sup>2</sup>  
03: 0.08 m<sup>2</sup> 04: 0.16 m<sup>2</sup>

### **Max. differential pressure<sup>1\*</sup>**

2.5 bar

### **Recommended change-out pressure drop for disposal<sup>2\*</sup>**

≈ 0.8 to 1.5 bar

### **Maximum operating temperature**

Polypropylene: < 90 °C

### **Maximum flow rates<sup>3\*</sup>**

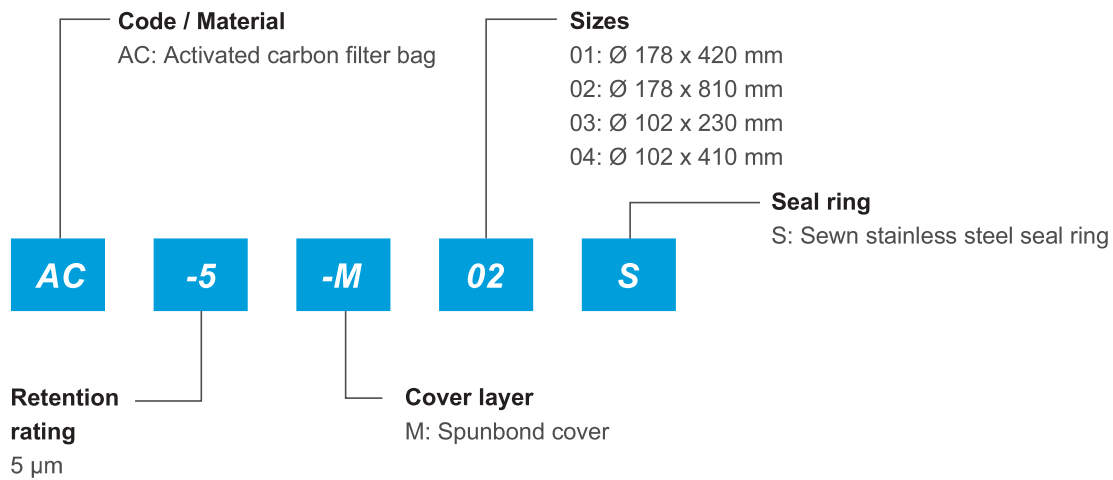
01: 20 m<sup>3</sup>/h 02: 40 m<sup>3</sup>/h  
03: 6 m<sup>3</sup>/h 04: 12 m<sup>3</sup>/h

■ Activated Carbon Felt Filter Bag Range

### Retention ratings

Range	Code	Material	Retention rating (µm)	Sizes				Max. operating temperatures (°C)	Chemical compatibility				
			5	01	02	03	04		S.Acid	W.Acid	W.Alkali	S.Alkali	Solvent
Activated carbon filter bag	AC	Polypropylene needle felt with activated carbon fibers	■	■	■	■	■	< 90	■	■	■	■	×

### Ordering information



1\* Max. DP tested for basket in liquid filtration conditions

2\* Depending on customer's application requirements

3\* For fluids with a dynamic viscosity of 1 mPa·s @ 20 °C

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### Technical Data

Ranges	Codes	Available grades (µm)															Materials	Sizes	Ring Type	Media Types	Max. oper. temp. (°C)						
		0.2	0.6	1	5	10	25	50	75	100	125	150	175	200	250	300						400	600	800	1000	1250	
Needled-punched Felt Filter Bag	PO			■	■	■	■	■	■				■									Available grades (µm)	PP	01,02,03,04	B,E,F,S	Felt	90
	PE			■	■	■	■	■	■				■										PE	01,02,03,04	B,E,F,S	Felt	140
	NT			■	■	■	■																Meta-Aramid	01,02,03,04	S	Felt	205
	PT			■	■	■																	PTFE	01,02,03,04	S	Felt	240
Long-life Filter Bag	POXL			■	■	■	■	■	■														PP	01,02	B,E,F	Felt	90
	PEXL			■	■	■	■	■	■														PE	01,02	B,E,F	Felt	140
Nylon Monofilament Mesh Filter Bag	NMO				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	Nylon	01,02,03,04	B,E,F,S	Mesh	170
Multifilament Filter Bag	PEMU										■	■	■	■	■								PE	01,02	S	Mesh	140
Absolute Precision Filter Bag	SAH	■	■	■	■	■	■																PP	01,02	B,E,F	Melt	90
High Performance Filter Bag	OAS			■	■	■	■	■															PP	01,02	B,E,F,S	Melt	90
	OAH			■	■	■	■	■															PP	01,02	B,E,F,S	Melt	90
Activated Carbon Filter Bag	AC				■																		Active Carbon	01,02,03,04	S	Melt Felt	90
Rocket Filter Bag	RPO			■	■	■	■	■	■				■										PP	01,02	B	Melt Felt	90
	RPE			■	■	■	■	■	■				■										PE	01,02	B	Felt	140

Chart abbreviations: PE: polyethylene terephthalate, PP: polypropylene, Melt: melt-blown, Felt: Needled felt.  
 Seal rings: B - Beato Ring, E - E Type Ring, F - F Type Ring, S - Stainless Steel.

Size	Filter area (m <sup>2</sup> )	Max. flow rate GPM (m <sup>3</sup> /h)	Diameter (mm)	Length (mm)
01	0.24	20*	178	420
02	0.48	40*	178	810
03	0.08	6*	102	230
04	0.16	12*	102	410

\*These flow rates are only applicable for standard needle felt & monofilament filter bags.  
 \*For liquids with a dynamic viscosity of 1 mPa.s @ 20° C.

Chemical compatibility	PP	PE	Nylon	PTFE	NT
S.Acid	■	○	×	■	×
W.Acid	■	■	○	■	○
W.Alkali	■	○	■	■	■
S.Alkali	■	×	■	■	■
Solvent	×	■	■	■	■

■ - Can accept ○ - Limited to accept × - unacceptable

