



ACB

CARBON BLOCK FILTER ELEMENTS

fits Donaldson housing P-FG

Process Filtration

Designed for removal of treatment chemicals from water.

Donaldson ACB carbon block filter cartridges help remove treatment chemicals such as chlorine from water. Chlorine and other treatment chemicals left in process water can pass along unwanted tastes and odors to the final product. The block construction of these elements mitigates the possibility of water channels forming and decreases the number of carbon fines that will release from loose carbon filters into the process water. By limiting water channels and decreasing the number of carbon fines released, the removal of treatment chemicals will be maximized and the life of particulate filters downstream of the ACB carbon block elements will be increased.

FEATURES AND BENEFITS

- High adsorptive capacity – effectively reduces chlorine and organic chemicals that contribute to undesirable tastes and odors
- 5 micron filtration
- Minimal release of carbon fines
- Block construction limits channeling, fluidizing and bypass
- Performance tested and verified by independent laboratory
- Available in standard 69.9 mm (2 3/4") and 108 mm (4 1/4") (BB Style) diameter configurations

APPLICATIONS

- RO Pre-filters
- Potable Water
- Water & Waste Water
- Plating Solutions
- Food & Beverage
- Chemicals
- Chlorine Removal
- Color Removal



ACB

MATERIALS

Filter Media	Powdered activated carbon
Outer Wrap	Meltblown polypropylene
End Cap/Netting	Polypropylene
End Cap Adhesive	Low density polyethylene
Gaskets	Santoprene (polyethylene direct bond gaskets)

MAXIMUM TEMPERATURE

51.7° C (125° F)

MAXIMUM OPERATING PRESSURE

17.2 bar (250 psi)

MAXIMUM DIFFERENTIAL PRESSURE

6.89 bar (100 psid)

NOMINAL LENGTHS

69.9 mm (2.7") diameter:
254, 508, 762, 1016 mm (10", 20", 30", 40")

108 mm (4.25") diameter:
254, 508 mm (10", 20")

RECOMMENDED CHANGE-OUT DIFFERENTIAL PRESSURE

1.4 bar (20 psid)

PORE SIZES

5 µm

RECOMMENDED FLUSH PROCEDURE

Filters should be flushed for 5 minutes prior to use.

FDA COMPLIANCE

Manufactured of FDA compliant materials with no additives or other manufacturing agents.

DIMENSIONS

Model	O.D. x Length		Weight		Chlorine Capacity @ Flow		µm	Initial DP @ Flow	
	mm	inches	kg	(lbs)	liters @ lpm	gal @ gpm		bar @ lpm	psid @ gpm
ACB-10	69.9 x 254	2.75 x 10	0.34	0.75	22,712 liters @ 3.8 lpm	6,000 gal @ 1 gpm	5	.14 bar @ 3.8 lpm	2.0 psid @ 1 gpm
ACB-20	69.9 x 508	2.75 x 20	0.68	1.5	45,425 liters @ 3.8 lpm	12,000 gal @ 1 gpm	5	.14 bar @ 3.8 lpm	2.0 psid @ 1 gpm
ACB-30	69.9 x 762	2.75 x 30	1.02	2.25	68,137 liters @ 3.8 lpm	18,000 gal @ 1 gpm	5	.14 bar @ 3.8 lpm	2.0 psid @ 1 gpm
ACB-40	69.9 x 1016	2.75 x 40	1.36	3	90,850 liters @ 3.8 lpm	24,000 gal @ 1 gpm	5	.14 bar @ 3.8 lpm	2.0 psid @ 1 gpm
ACB-10BB	108 x 254	4.25 x 10	1.18	2.6	45,425 liters @ 11.4 lpm	12,000 gal @ 3 gpm	5	.28 bar @ 13.2 lpm	4.0 psid @ 3.5 gpm
ACB-20BB	108 x 508	4.25 x 20	2.49	5.5	98,421 liters @ 11.4 lpm	26,000 gal @ 3 gpm	5	.31 bar @ 26.5 lpm	4.5 psid @ 7.0 gpm

**Important Notice**

Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, specifications, availability and data are subject to change without notice, and may vary by region or country.



Donaldson Company, Inc.
Minneapolis, MN

donaldsonorit.com
shop.donaldson.com

Australasia 61-02-4350-2066
marketing.australia@donaldson.com

Brazil 55-11-4894-6035
vendas.brasil@donaldson.com

China 86-400-921-7032
info.cn@donaldson.com

EMEA 49-2129-569-0
cap-europe@donaldson.com

India 91-124-4807-400
indiaenquiries@donaldson.com

Japan 81-42-540-4123
ndl-ultrafilter-web@donaldson.com

Korea 82-2-517-3333
cap-kr@donaldson.com

Latin America 52-449-300-2442
industrialair@donaldson.com

North America 800-543-3634
processfilters@donaldson.com

South Africa 27-11-997-6000
samarketing@donaldson.com

Southeast Asia 65-6311-7373
sea.salesenquiry@donaldson.com