

**Depth Filtration**  
**BECO PROTECT® CL**

**Depth Filter Cartridges**

**BECO PROTECT CL Coreless depth filter cartridges consist of wrapped polypropylene filter material with different layers from coarse to fine. The filter cartridges are manufactured without a core and with a large diameter to provide high flow rates.**

**BECO PROTECT CL Coreless depth filter cartridges are used in a variety of applications with high flow rates for liquid clarification in the food and beverage industry.**

**Features and Benefits**

- Large diameter filter cartridge for high flow rates and low differential pressure
- Long filter service life
- High chemical resistance through use of 100% polypropylene
- High dirt-holding capacity through graded filter configuration
- No binders or adhesives

**Configuration**

BECO PROTECT CL Coreless depth filter cartridges are made from high-quality, wrapped polypropylene layers. The additional inner polypropylene supporting mesh results in a robust filter element construction.

BECO PROTECT CL Coreless filter cartridge fits over a stainless steel core, which is installed in the filter housing. At changeout, the filter cartridge is simply pulled up over the stainless steel core which remains in the housing. This leads to reduced disposal costs.



**Materials**

<b>Filter material:</b>	Polypropylene
<b>Supporting mesh</b>	Polypropylene

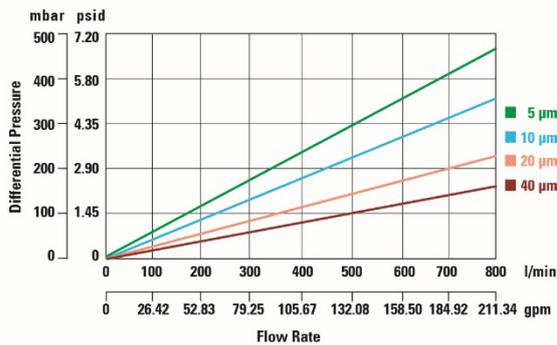
The plastic components meet the requirements of Directive 10/2011/EC and amendments. All materials used meet the FDA requirements according to 21 CFR § 177.1520.

### Technical Data

<b>Outer diameter</b>	5.98 in (152 mm)
<b>Inner diameter:</b>	4.64 in (118 mm)
<b>Length</b>	40.0 in (1016 mm)
<b>Maximum operating temperature:</b>	176 °F (80 °C)
<b>Maximum differential pressure in flow direction:</b>	58 psid (400 kPa, 4.0 bar) at 86 °F (30 °C) 14,5 psid (100 kPa, 1 bar) at 176 °F (80 °C)

### Flow Rate

40" with water at 68 °F (20 °C) (standard values)



### Filter Cartridges Types/Retention Ratings at an efficiency of 99.98 %

Type	Retention rating (µm)
CL050	5
CL100	10
CL200	20
CL400	40

### Adapter Code

Code X
Double open end (DOE) without end caps



### Ordering Information

BECO PROTECT CL Coreless depth filter cartridges with protective foil of 4 pieces in carton.

Type	Retention rating	Adapter	Nominal length	Gasket
CL	050 = 5 µm	X = Code X (DOE), without end caps	4 = 40" (1016 mm)	X = without gasket
	100 = 10 µm			
	200 = 20 µm			
	400 = 40 µm			

### Example

CL	400	X	4	X
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BECO PROTECT CL Coreless filter cartridge; 40 µm retention rating; Code X, 40" (1016 mm), without gasket

**Safety**

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When used as directed and handled correctly, there are no known unfavorable effects associated with this product. BECO PROTECT CL Coreless depth filter cartridges do not require the provision of safety-relevant information.

Storage, handling and transport do not present any environmental and health risks.

**Disposal**

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BECO PROTECT CL Coreless depth filter cartridges should be treated as industrial waste. Any local and other official regulations in relation to the filtered product must be followed.

**Storage**

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Store depth filter cartridges in their original packaging and in a dry, odor-free and UV ray protected place.

Use filter cartridges within 60 months after production date.

**Certified Quality**

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During the production process, BECO PROTECT CL Coreless depth filter cartridges are regularly monitored to ensure consistent excellent quality control.

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