

Claricap CSD & Roheap CSD

Activated carbon depth filter series



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Cobetter Claricap CSD & Roheap CSD series depth filters utilize filtration media that are made of high-purity cross-weaved lignocellulose and activated carbon powder. The internal porous three-dimensional structure with large internal surface area delivers excellent filtration performance and high dirt holding capacity for depth filtration applications.

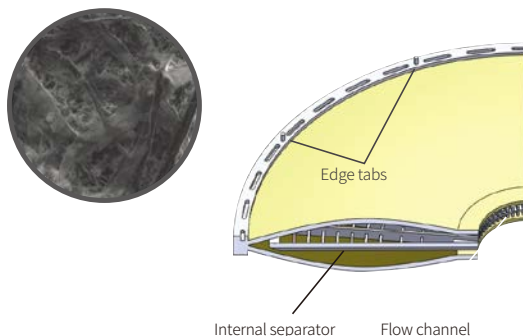
The filter sheets are manufactured with our highly automated proprietary process. All raw materials are controlled through our world class quality system to ensure robust product quality and consistent filtration performance.

Excellent retention ability

The cellulose media of the Claricap CSD & Roheap CSD series filter are intertwined to form a compact three-dimensional porous structure, with gradient pore size that can efficiently trap particles during the filtration process.

The activated carbon powder treated with phosphoric acid or water vapor carries ultra-high specific surface area and is very effective in decolorization and the removal of other contaminants.

The filter medium sheets also include a small amount of special synthetic resin, which improves the wet strength of the medium sheet and makes the filter sheet positively charged to increase adsorption efficiency.



Excellent Operational Performance

The cardboard is made of high-purity bleached cellulose, which greatly reduces the extractable metal ions and endotoxins content, making the Claricap CSD & Roheap CSD series filter more suitable for use in biopharmaceutical and other high-purity applications. Thanks to its internal cellulose three-dimensional structure and high activated carbon content, the filter has ultra-high dirt holding capacity and decolorization ability.



Applications



Pharmaceutical

- Decolorization of API
- Endotoxin removal
- Filtration of blood products
- Clarification of biochemical products



Chemicals

- Decolorization and Deodorization of APIs
- Purification of fine chemicals, chemical reagents and organic solvents.



Food and Beverage

- Deodorization of saccharide and amino acids
- Decolorization of wine and juice
- Clarification and purification of fluids

Material of Construction & Process Type

Material of Construction	Cellulose, activated carbon powder, ionic wet-strength resin
Process Type	PC Positively charged

Operating Parameters

	Depth filter cartridge	CDF filter capsule
Maximum Operating Temperature	80°C	40°C
Maximum Differential Pressure	0.24 MPa / 80°C	0.3 MPa / 40°C
Flushing Before Use	Recommended flush volume 50L / m ² , 200-400LMH	

Biological Safety

Endotoxins	<0.25 EU/ml
Biological Compatibility	Meets the specifications of the USP <88> Biological Reactivity Test for Class VI-121 °C plastics.

Chemical Compatibility

Solvent	Concentration	@20°C	@80°C
NaOH	2%	G	P
HCl	5%	G	P
HNO ₃	5%	G	P
H ₂ SO ₄	10%	G	P
Acetic Acid	38%	G	G
Citric Acid	10%	G	G
Acetic Peracid	0.1%	G	G
Butanol	80%	G	G
Ethanol	80%	G	G

G=Compatible; P=Incompatible

Filtration Area

Configuration	Surface Area
CDFC	23cm ²
CSD 12 inch 1 cell	0.11m ²
CSD 16 inch 1 cell	0.23m ²

Extractable - Metal ions

Ion	ppb	Ion	ppb	Ion	ppb	Ion	ppb
Mg	3.242	Ni	0.389	Mn	0.526	Zn	0.157
Al	1.468	Cu	0.019	Cd	0.001		
Ca	15.514	As	0.004	K	0.646		
Cr	0.069	Pb	0.004	Na	81.223		
Fe	1.526	Co	0.011	Ti	0.046		

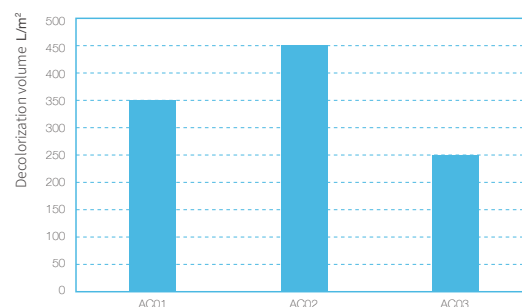


Figure 1 The decolorization capabilities of filter with different removal ratings for methylene blue solution (concentration 400ppm, filtration rate 250LMH)



Ordering Information

Cobetter Claricap Lab Activated carbon depth filter capsule

C D F C	S	C S D	☐ ☐ ☐ ☐	☐ ☐	P
Depth Filter Capsule Type	Number of Layers	Filtration Media	Removal Ratings	Process Type	
CDFC Claricap Lab	S Single layer	CSD Roheap CSD series activated carbon depth filtration cardboard	AC01 0.5-1.0µm AC02 1.0-2.0µm AC03 2.0-4.0µm	PC Positively charged	P Pharmaceutical



Cobetter Roheap CSD Activated carbon depth filter cartridge

C S D	☐ ☐ ☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐	☐
CSD Cobetter Roheap CSD activated carbon depth filter cartridge	Removal Ratings	Process Type	Adaptor	Diameter	Number of Cells	Gasket Material
	AC01 0.5-1.0µm AC02 1.0-2.0µm AC03 2.0-4.0µm	PC Positively charged	DOE TCT	12 12 inch 16 16 inch	N 9 cells T 12 cells C 13 cells E 14 cells	S Silicone E EPDM V Viton T FEP/PFA Encapsulated O-rings F Fluorinated Polymer



P Pharmaceutical
F Food & Beverage
C Chemical industry



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