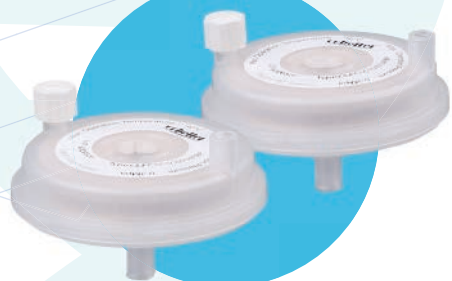


Depth Filtration

ClaricapCSD & RoheapCSD



Claricap CSD & Roheap CSD Depth Filtration Series

Cobetter Claricap CSD & Roheap CSD series filter is composed of high purity lignocellulose and inorganic filter aid agent by special technology. Its three-dimensional inner structure makes it to be a depth filter medium while providing excellent filtration efficiency and high dirt holding capacity.

Filter paper is manufactured using super-matic production lines. All raw materials are tested by a strict quality control process to ensure filter quality and good performance in any application.

Excellent Retention Efficiency

Claricap CSD & Roheap CSD Series Filter has three-dimensional inner structure, and the pore size decreases gradually as the depth increases, the flow rate of the solid particles will be reduced which allows them to be collected.

Diatomaceous earth-as an inorganic filter aid, its natural porous structure provides a good particle adsorption effect and increases the permeability of paperboard.

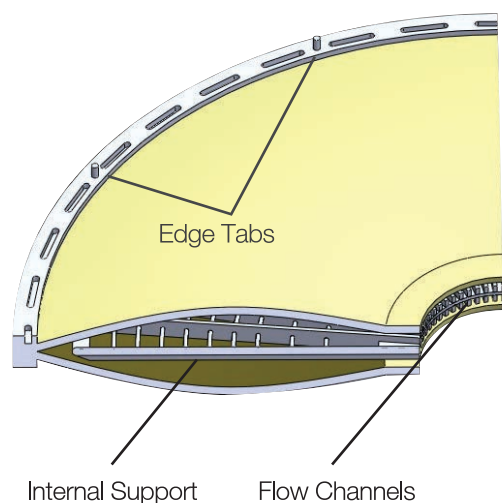
There's a small amount of synthetic resin in the filter paper which can not only improve the wet strength of the paper, but also provides a positive charge that ensure the adsorb efficiency.

Excellent Characteristics

Using a high purity cellulose, reducing the level of ion precipitation and endotoxin makes the CSD Series suitable for biopharmaceutical and other high purity applications. The filter designs solve many of the problems found in typical disk-style filters such as leakage, heavy use, and high costs. The filter aid agent in the filter paper creates an inner crisscrossing three-dimensional structure which ensures a higher dirt holding capacity and longer lifetime.

Applications

- Fermentation broth and cell culture media clarification filtration
- Serum and blood products filtration
- Enzyme preparation filtration
- Particle removal filtration
- Colloidal and viscous materials filtration

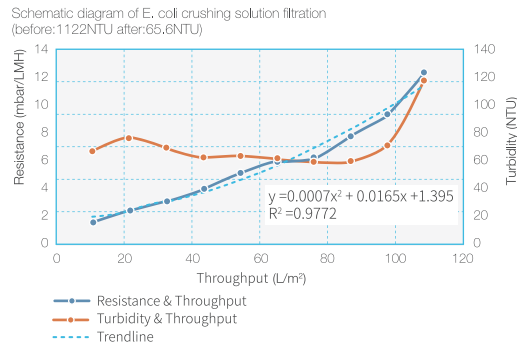
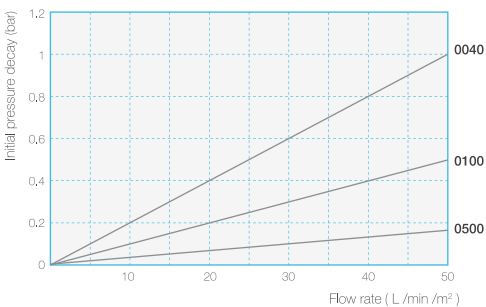


Material of Construction

Filter Media	Cellulose, diatomite filter aid and ionic wet-strength resin	
Process Type	P pharmaceutical	C High dirt holding capacity with positive charge



Features of Flow rate



Filter Types

Round/Square Filter Sheets

Roheap CSD Filter

CDFC Capsule Filter

Large Scale Clarification Capsule Filter
(used with stainless steel holder)

Operating Conditions

	Roheap CSD Filter	CDF Capsule Filter
Max Temperature	80°C	40°C
Max Differential Pressure	0.24 MPa /80°C	0.3 MPa /40°C
Flush	Single Layer: 50L/m², Double Layer:100L/m², flow rate 10L/min/m²	

Flush

Endotoxins	<0.25 EU/ml
Biological Compatibility	Meet the requirement of USP<87> in Vitro Cytotoxicity Test. Meet the criteria 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



Extractable Metal Ions

PC	Ions	ppb	Ions	ppb
	Mg	5.201	Ni	0.334
	Al	34.540	Cu	0.770
	Ca	63.447	As	0.532
	Cr	0.047	Pb	0.04
	Fe	27.287		

Filtration Area

	Specification	Single Layer	Double Layers
	CDFC	23cm ²	23cm ²
	L05SS	207cm ²	115cm ²
	L10SS	414cm ²	230cm ²
	L03TT	225cm ²	90cm ²
	L05TT	405cm ²	180cm ²
	L08TT	585cm ²	270cm ²
	CSCA	0.2m ²	0.15m ²
	CSCC	0.4m ²	0.4m ²
	CSCE	0.5m ²	0.4m ²
	CSCD	0.2m ²	0.15m ²
	CSCB	1.15m ²	0.92m ²
	CSCM	/	1.1m ²
	CSD12"Per Layer CSD16"Per Layer	0.11m ² /0.23m ²	0.11m ² /0.23m ²

Roheap Depth Part Number Configurator

Capsule Filter Example : CDFCSCSD0004PBP

Cobetter Claricap Lab Single-Layer Depth Capsule Filters

Filter Format

- L05SS** Claricap L05 (207cm²)
- L10SS** Claricap L10 (414cm²)
- L03TT** Claricap L03 (225cm²)
- L05TT** Claricap L05 (405cm²)
- L08TT** Claricap L08 (585cm²)

Filter Media

- CSD** Roheap CSD depth filter media

Number of Layers

- S** Single-Layer

Removal Ratings

- 0004** 0.04-0.2µm
- 0020** 0.2-0.4µm
- 0040** 0.4-0.6µm
- 0060** 0.6-0.8µm
- 0100** 0.8-1.5µm
- 0150** 1.5-3.0µm
- 0300** 3.0-6.0µm
- 0400** 4.0-9.0µm
- 0500** 5.0-12.0µm
- 0600** 6.0-15.0µm
- 0700** 7.0-18.0µm
- 0800** 8.0-20.0µm
- 0900** 9.0-30.0µm
- H003** 0.02-0.2µm
- H004** 0.04-0.2µm

Type

- PC** Positive Charge
- PE** Negative Charge

- P** Pharmaceutical



Cobetter Claricap Lab Double-Layer Depth Capsule Filters

Filter Format

- L05SS** Claricap L05 (115cm²)
- L10SS** Claricap L10 (230cm²)
- L03TT** Claricap L03 (90cm²)
- L05TT** Claricap L05 (180cm²)
- L08TT** Claricap L08 (270cm²)

Filter Media

- CSD** Roheap CSD depth filter media

Number of Layers

- D** Double-Layer

Removal Ratings

- 01** 0.04-0.2µm
- 02** 0.2-0.4µm
- 04** 0.4-0.6µm
- 06** 0.6-0.8µm
- 10** 0.8-1.5µm
- 15** 1.5-3.0µm
- 30** 3.0-6.0µm
- 40** 4.0-9.0µm
- 42** 6.0-12.0µm
- 50** 5.0-12.0µm
- 60** 6.0-15.0µm
- 70** 7.0-18.0µm
- 72** 7.0-30.0µm
- 80** 8.0-20.0µm
- H0** 0.02-0.2µm
- HP** 0.02-0.2µm
- H2** 0.01-0.2µm
- S8** 0.1-0.2µm

Type

- PC** Positive Charge
- PE** Negative Charge

- P** Pharmaceutical



Cobetter Claricap D Single-Layer Depth Capsule Filters



Filter Format

- CDFC** Claricap Lab (23cm²)
- CSCA** Claricap D08 (0.2m²)
- CSCB** Claricap D16 (1.15m²)
- CSCC** Claricap D08 Pro (0.4m²)
- CSCD** Claricap D08 - II (0.2m²)
- CSCE** Claricap D08 Pro - II (0.5m²)



Number of Layers

- S** Single-Layer



- CSD** For CDFC Series



Removal Ratings

- 0004** 0.04-0.2µm
- 0020** 0.2-0.4µm
- 0040** 0.4-0.6µm
- 0060** 0.6-0.8µm
- 0100** 0.8-1.5µm
- 0150** 1.5-3.0µm
- 0300** 3.0-6.0µm
- 0400** 4.0-9.0µm
- 0500** 5.0-12.0µm
- 0600** 6.0-15.0µm
- 0700** 7.0-18.0µm
- 0800** 8.0-20.0µm
- 0900** 9.0-30.0µm
- H003** 0.02-0.2µm
- H004** 0.04-0.2µm



Type

- PC** Positive Charge
- PE** Negative Charge



- P** Pharmaceutical



Cobetter Claricap D Double-Layer Depth Filter Cassette



Filter Format

- CDFC** Claricap Lab (23cm²)
- CSCA** Claricap D08 (0.15m²)
- CSCB** Claricap D16 (0.92m²)
- CSCC** Claricap D08 Pro (0.4m²)
- CSCD** Claricap D08 - II (0.15m²)
- CSCE** Claricap D08 Pro - II (0.4m²)
- CSCE** Claricap D08 Pro - II (0.4m²)
- CSCE** Claricap M11 (1.1m²)



Number of Layers

- D** Double-Layer



- CSD** For CDFC Series



Removal Ratings

- 01** 0.04-0.2µm
- 02** 0.2-0.4µm
- 04** 0.4-0.6µm
- 06** 0.6-0.8µm
- 10** 0.8-1.5µm
- 15** 1.5-3.0µm
- 30** 3.0-6.0µm
- 40** 4.0-9.0µm
- 42** 6.0-12.0µm
- 50** 5.0-12.0µm
- 60** 6.0-15.0µm
- 70** 7.0-18.0µm
- 72** 7.0-30.0µm
- 80** 8.0-20.0µm
- H0** 0.02-0.2µm
- HP** 0.02-0.2µm
- H2** 0.01-0.2µm
- S8** 0.1-0.2µm



Type

- PC** Positive Charge
- PE** Negative Charge



- P** Pharmaceutical



CSD Depth Cartridge Filter

C S D

Filter Format

CSD

0004 0020 0040 0060 0100 0150 0300 0400 0500 0600 0700 0800 0900 RELP H003 H004

Removal Ratings

0.04-0.2µm
0.2-0.4µm
0.4-0.6µm
0.6-0.8µm
0.8-1.5µm
1.5-3.0µm
3.0-6.0µm
4.0-9.0µm
5.0-12.0µm
6.0-15.0µm
7.0-18.0µm
8.0-20.0µm
9.0-30.0µm
0.5-0.8µm
0.02-0.2µm
0.04-0.2µm

PC PE

Type

Positive Charge
Negative Charge

DOE TCT

End Cap

12 16

Diameter

12inch
16inch

W Y G B H N X Q T E F D

Number of Cells

2 Cells
3 Cells
4 Cells
5 Cells
8 Cells
9 Cells
10Cells
11Cells
12Cells
14Cells
15Cells
16Cells

S E V T

O-ring Material

Silicone
EPDM
Fluoroelastomer
FEP/PFA encap-sulated O-rings

P

Pharmaceutical



CSD Depth Cartridge Filter

C S D

Filter Format

CSD

- II

Number of Layers

- II Double-Layer

01 02 04 06 10 15 30 40 42 50 60 70 72 80 H0 HP H2 S8

Removal Ratings

0.04-0.2µm
0.2-0.4µm
0.4-0.6µm
0.6-0.8µm
0.8-1.5µm
1.5-3.0µm
3.0-6.0µm
4.0-9.0µm
6.0-12.0µm
5.0-12.0µm
6.0-15.0µm
7.0-18.0µm
7.0-30.0µm
8.0-20.0µm
0.02-0.2µm
0.02-0.2µm
0.01-0.2µm
0.1-0.2µm

PC PE

Type

Positive Charge
Negative Charge

DOE TCT

End Cap

DOE
TCT

12 16

Diameter

12inch
16inch

A W Y G B H N X

Number of Cells

1 Cell
2 Cells
3 Cells
4 Cells
5 Cells
8 Cells
9 Cells
10Cells

S E V T

O-ring Material

Silicone
EPDM
Fluoroelastomer
FEP/PFA encap-sulated O-rings

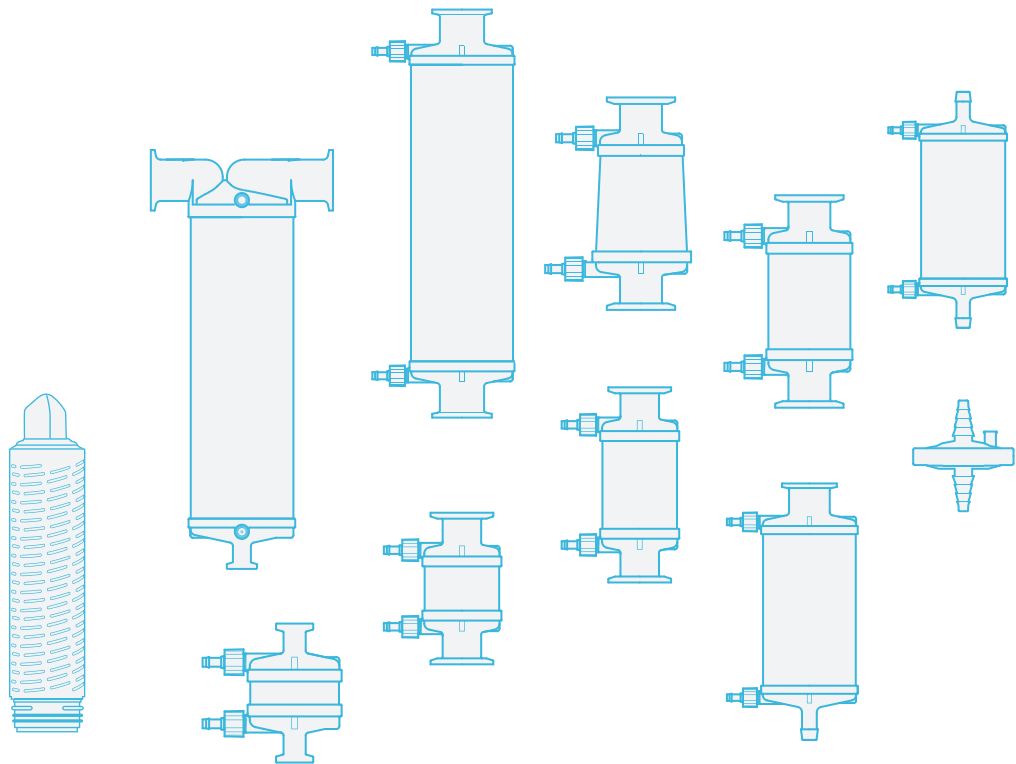
P

Pharmaceutical



Our Mission

Committed to providing excellent products and continuous innovative solutions, we help customers optimise their process and improve product quality.



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