

# Hall Pyke

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**Depth Pre Filtration**

# Roheap CSD Filter

**The SMART choice for filtration**

## Clarification Filter Series

# Roheap CSD Filter

## High Dirt Holding Capacity



### Features

- Filter media composed of lignocellulose and inorganic filter aids
- Gradient filter structure provides high dirt holding capacity and retention efficiency
- Low initial pressure difference and long service life
- Positive Zeta charge results in removal efficiency for host DNA, HCP, etc.

### Applications

- Clarification of fermentation broth/cell cultures
- Filtration of blood and blood products
- Filtration of enzyme preparation
- Filtration of colloids/viscous liquids

### Filter Material

Filter Media	Cellulose diatomite filter aid and ionic wet-strength resin
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### Operating Conditions

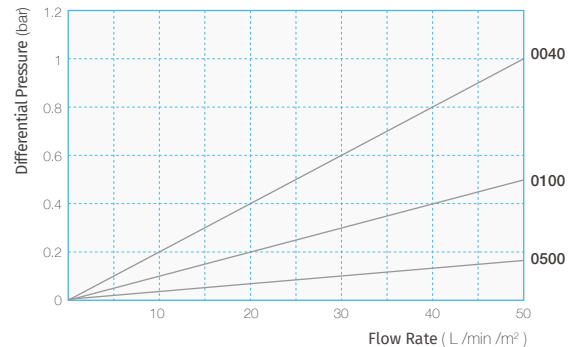
	Depth Filter	CDFC Capsule Filter
Max. Temperature	80°C	40°C
Max. Differential Pressure	0.24 MPa	0.3 MPa /40°C
Rinse	Flushing volume 50L/m <sup>2</sup> , Flow Rate 10L/min/m <sup>2</sup>	

### Biological Safety

Endotoxins	<0.25 EU/ml
Bio-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

### EFA

Filter Forma	Single Layer	Double Layers
CDFC	23cm <sup>2</sup>	23cm <sup>2</sup>
L05	205cm <sup>2</sup>	150cm <sup>2</sup>
L10	450cm <sup>2</sup>	250cm <sup>2</sup>
CSCA	0.2m <sup>2</sup>	0.15m <sup>2</sup>
CSCB	1.16m <sup>2</sup>	1m <sup>2</sup>
CSD 12" Per Layer	0.11m <sup>2</sup>	0.11m <sup>2</sup>
CSD 16" Per Layer	0.23m <sup>2</sup>	0.23m <sup>2</sup>



### Chemical Compatibility

Chemicals	Concentration	@20°C	@80°C
NaOH	2%	G	P
HCl	5%	G	P
HNO <sub>3</sub>	5%	G	P
H <sub>2</sub> SO <sub>4</sub>	10%	G	P
Acetic acid	38%	G	G
Citric acid	10%	G	G
Peracetic acid	0.1%	G	G
Butanol	80%	G	G
Ethanol	80%	G	G

G = Recommended ; P = Not recommended

### Leachables

B Series	Ion	ppb	Ion	ppb	D Series	Ion	ppb	Ion	ppb
	Mg	0.73	Ni	-		Mg	0.755	Ni	-
	Al	5.33	Cu	0.162		Al	3.86	Cu	-
	Ca	5.65	As	0.987		Ca	1.48	As	-
	Cr	0.071	Pb	-		Cr	0.082	Pb	-
	Fe	13.1				Fe	3.28		

Explanation: - means < 0.05ppb

# Roheap Depth Part Number Configurator

Capsule Filter Example : CDFCSCSD0004PBP

## Roheap CDFC Capsule Filter

**C D F C**

Filter Format



Number of Layers

- S** Single-Layer
- D** Double-Layer

**C S D**

Filter Media

Removal Ratings

- Single-Layer
- H001**
- H002**
- 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

- Double-Layer
- HOHP** 0.02-0.2µm
  - 0102** 0.04-0.4µm
  - 0106** 0.04-0.8µm
  - 0140** 0.04-9.0µm
  - 4070** 4.0-18.0µm

Control Grade

- PB** High removal rating
- PC** High dirt holding capacity

**P**

Market

- P** Pharmaceutical

## Bricap L05/L10 Capsule Filter

Filter Format

- L05** 5 inch
- L10** 10 inch

End Cap

- SS** 1 1/2" (38 mm) Sanitary Flange

**C S D**

Filter Media

Number of Layers

- S** Single-Layer
- D** Double-Layer

Removal Ratings

- Single-Layer
- H001**
- H002**
- 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

- Double-Layer
- HOHP** 0.02-0.2µm
  - 0102** 0.04-0.4µm
  - 0106** 0.04-0.8µm
  - 0140** 0.04-9.0µm
  - 4070** 4.0-18.0µm

Control Grade

- PB** High removal rating
- PC** High dirt holding capacity

**P**

Market

- P** Pharmaceutical



## Claricap Depth Capsule



**C S C**  
Filter Format

Size

- A** 8 inch
- B** 16 inch

Number of Layers

- S** Single-Layer
- D** Double-Layer

Removal Ratings

- Single-Layer
- H001**
  - H002**
  - 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
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  - 0800** 8.0-20.0µm

- Double-Layer
- HOHP** 0.02-0.2µm
  - 0102** 0.04-0.4µm
  - 0106** 0.04-0.8µm
  - 0140** 0.04-9.0µm
  - 4070** 4.0-18.0µm

Control Grade

- PB** High removal rating
- PC** High dirt holding capacity

**P**  
Market

- P** Pharmaceutical

## CSD Depth Filter

**C S D**  
Filter Format

Media Layers

- CSD**
- \_** Single-Layer
- D** Double-Layer



Removal Ratings

- Single-Layer
- H001**
  - H002**
  - 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
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- Double-Layer
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  - 0102** 0.04-0.4µm
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  - 4070** 4.0-18.0µm

Control Grade

- PB** High removal rating
- PC** High dirt holding capacity

**D O E**  
End Cap

Diameter

- 12** 12 inch
- 16** 16 inch

Number of Layers

- A** 1 Layer
- W** 2 Layers
- Y** 3 Layers
- G** 4 Layers
- B** 5 Layers
- N** 9 Layers
- X** 10 Layers
- Q** 11 Layers (only for single-layer media)
- T** 12 Layers (only for single-layer media)
- F** 15 Layers (only for single-layer media)
- D** 16 Layers (only for single-layer media)

O-ring Material

- S** Silicone
- E** EPDM
- V** Fluoroelastomer
- T** FEP/PFA encap-sulated O-rings
- F** Fluorinated Polymer

**P**  
Market

- P** Pharmaceutical

# Hall Pyke



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