

# FILTER DATASHEET

## CMI FILTRATION



## Global Delivery and Fulfillment

The Reliable Company

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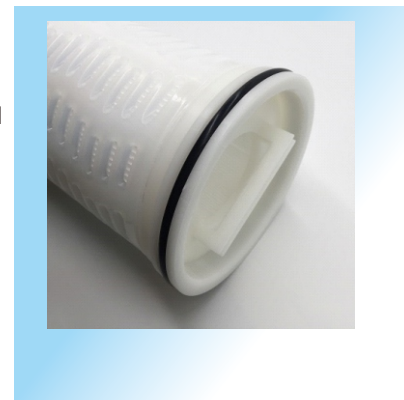
# CMI High Flow Pleated Filter Cartridge

CHFP Type

## Description

High Flow Filter Cartridge is a filter with large diameter, coreless single open end pleated cartridge. Big diameter with big filtration area reduces up to 50% of filter system and save up to 60% of change out time compared with conventional cartridge system. It gives customer lower investment cost, disposal cost, as well as long service life. The structure also provides you with a better sealing to ensure a perfect filtration.

There are several types of high flow cartridges: the most common used type is flow from inside to outside; while other three types are from outside to inside.



## Features

- High flow up to 84m<sup>3</sup>/h per cartridge for water
- Gradient pore structure
- Max. up to 50% reduction of filter vessel
- Filtration area is up to 9.45m<sup>2</sup>
- All contaminants can be effectively removed
- Other types are available upon request
- Up to 60% saving of change out time
- PP material are made from all FDA approved material suitable for food & beverage related application
- Inside to outside flow pattern-all dirt will contain inside the cartridge
- Absolute rated filtration at 99.98% with choice of 1, 3,5,10,20,40 and 70 micron

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# CMI High Flow Pleated Filter Cartridge

CHFP Type

## Specifications

### Material:

Filter Media: Pleated PP, Pleated glass fiber; melt blown

Outside Support: Polypropylene (PP)

End Caps: Glass fiber reinforced polypropylene

O-ring Seal: EPDM, NBR

**Micron ratings:** 1,5,10,20,40,75,100micron

**Outside Diameter(End with Handle):** 160mm; Flat end: 154mm

**Length:** 20inch, 40inch, 60inch

**Max flow rate based on Water:**

20inch: 140gpm(28m<sup>3</sup>/h)

40inch: 280gpm(56m<sup>3</sup>/h)

60inch: 400gpm(84m<sup>3</sup>/h)

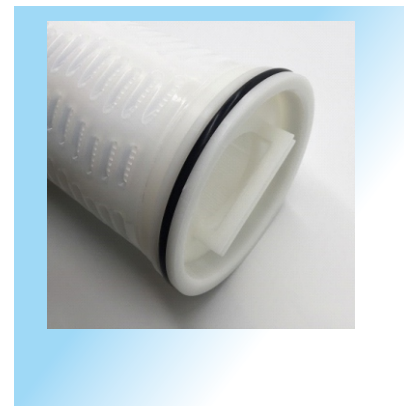
**Recommended Change out DP:** 2.4bar @ 20°C

### Surface Area

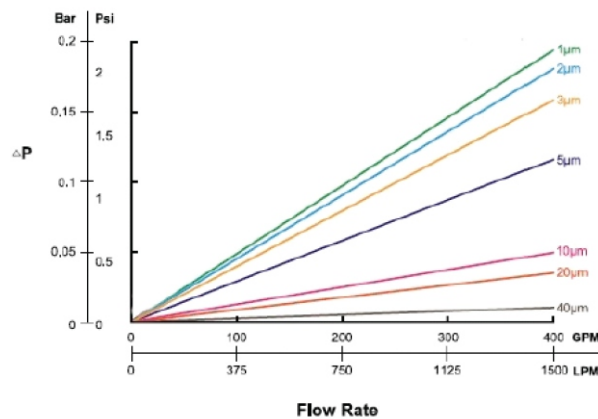
20inch: 3.15 m<sup>2</sup>

40inch: 6.3 m<sup>2</sup>

60inch: 9.45 m<sup>2</sup>



## Flow Rate vs Differential Pressure (water at 20 °C)



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# CMI High Flow Pleated Filter Cartridge

CHFP Type

## Ordering Table

CODE	Media Material	Length	Micron Rating	O-ring Material	Non standard
CHFP	PP- Polypropylene FG-Fiber glass	20-20inch 40-40inch 60-60inch	05-0.5µm 1-1µm 5-5µm 10-10µm 20-20µm ...	E-EPDM V-Viton B-NBR S-Silicon	-N if nonstandard

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# CMI High Flow Pleated Filter Cartridge

CHFM1 Type

## Description

CMI CHFM1 Series filter cartridge is a kind of high flow filter which are made from depth PP or glass fiber material. The filter has a big diameter, with inner core, single open ended. Flow is from outside to inside to make sure all dirt particles can be intercepted on the outside side of the filter.

Its big diameter brings big filtration area to reduce the filter housing diameter. Meanwhile, it also saves up the change out time compared with conventional cartridge system. It gives customer lower investment cost, disposal cost, as well as long service life.

The structure also provides you with a better sealing to ensure a perfect filtration.



## Features

- High filtration area with high flow rate
- Gradient pore structure
- Max. to reduce the diameter of filter vessel
- All contaminants can be effectively removed
- Other types are available upon request
- Great saving of change out time
- Outside to inside flow pattern-all dirt will contain outside the cartridge
- 100% PP material makes the filter cartridge excellent chemical compatibility

## Specifications

Material:

Filter Media: Pleated PP, Pleated glass fiber; melt blown

Outside Support: Polypropylene (PP)

End Caps: Glass fiber reinforced polypropylene

Inner core: Polypropylene (PP)

O-ring Seal: EPDM, NBR, Silicon, Viton

**Micron ratings:** 0.5, 1, 5, 10, 20, 40, 75, 100micron

**Outside Diameter:** 158mm(6.2inch), 165mm(6.5inch)

**Length:** 20inch, 40inch, 60inch

**Max. Operating temperature:** 80°C

**Max. Operating DP:** 4.0 Bar@20°C; 2.4bar @ 80°C

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# CMI High Flow Pleated Filter Cartridge

CHFM1 Type

## Specifications

Note: Other types of high flow filters are also available.  
Pls. contact CMI at sales@cmi-ly.com if you have more exacting requirements.

## Ordering Table

CODE	Media Material	Length	Micron Rating	O-ring Material	Non standard
CHFM1	PP- Polypropylene F G-Fiber glass	20-20inch 40-40inch 60-60inch	1 5 10 20 40 70	E- EPDM F- VITON T- TEFLON	-N if nonstandard

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# CMI High Flow Pleated Filter Cartridge

## CHFM2 Series

### Description

CMI CHFM2 Series filter cartridge is a kind of high flow filter which are made from depth PP or glass fiber material. The filter has a big diameter, with inner core, single open ended. Flow is from outside to inside to make sure all dirt particles can be intercepted on the outside side of the filter.

CHFM2 is a membrane pleated cartridge with special radial pleated structure to enlarge the filtration area and increase the dirt hold capacity. These factors provide customers with consistent performance and effluent quality.

Its big diameter brings big filtration area to reduce the filter housing diameter. Meanwhile, it also saves up the change out time compared with conventional cartridge system. It gives customer lower investment cost, disposal cost, as well as long service life.

The structure also provides you with a better sealing to ensure a perfect filtration.



### Features

- Unique radial pleated structure
- High flow capacity
- High contaminant loading capacity
- All contaminants can be effectively removed
- Great saving of change out time
- Outside to inside flow pattern-all dirt will contain outside the cartridge
- Polypropylene material brings good chemical compatibility
- Large diameter reduces filter housing space
- Easy cartridge change-out without use of special tools

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# CMI High Flow Pleated Filter Cartridge

CHFM2 Series

## Specifications

**Material:**

Filter Media: Pleated PP, Pleated glass fiber; melt blown

Outside Support: Polypropylene (PP)

End Caps: Glass fiber reinforced polypropylene

Inner core: Polypropylene (PP)

O-ring Seal: EPDM, NBR, Silicon, Viton

**Micron ratings:** 0.5, 1, 5, 10, 20, 40, 75, 100micron

**Outside Diameter:** 152mm(6inch)

**Length:** 20inch, 30inch, 40inch, 50inch, 60inch

**Max. Operating temperature:** 80°C

**Max. Operating DP:** 4.0 Bar@20°C; 2.4bar @ 80°C

**Note:** Other types of high flow filters are also available.

Pls. contact CMI at sales@cmi-ly.com if you have more exacting requirements.

## Ordering Table

CODE	Media Material	Length	Micron Rating	O-ring Material	Non standard
CHFM2	PP- Polypropylene FG-Fiber glass	20-20inch	0.5	E-EPDM	-N
		40-40inch	1	V-Viton	if nonstandard
		60-60inch	5	B-NBR	
			10	S-Silicon	
			20		
			40		
			70		

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# CMI High Flow Pleated Filter Cartridge

## CHFK1 Type

### Description

CMI CHFK1 Series filter cartridge is a kind of high flow filter which are made from depth PP or glass fiber material. The filter has a big diameter, with inner core, single open ended. Flow is from outside to inside to make sure all dirt particles can be intercepted on the outside side of the filter.

CHFK1 is a membrane pleated cartridge to enlarge the filtration area and increase the dirt hold capacity. These factors provide customers with consistent performance and effluent quality.

Its big diameter brings big filtration area to reduce the filter housing diameter. Meanwhile, it also saves up the change out time compared with conventional cartridge system. It gives customer lower investment cost, disposal cost, as well as long service life.

The structure also provides you with a better sealing to ensure a perfect filtration.

### Features

- High Filtration Area
- High flow capacity
- High contaminant loading capacity
- All contaminants can be effectively removed
- Great saving of change out time
- Outside to inside flow pattern-all dirt will contain outside the cartridge
- Polypropylene material brings good chemical compatibility
- Large diameter reduces filter housing space
- Easy cartridge change-out without use of special tools



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# CMI High Flow Pleated Filter Cartridge

CHFK1 Type

## Specifications

### Material:

Filter Media: Pleated PP, Pleated glass fiber; melt blown

Outside Support: Polypropylene (PP)

End Caps: Glass fiber reinforced polypropylene

Inner core: Polypropylene (PP)

O-ring Seal: EPDM, NBR, Silicon, Viton

**Micron ratings:** 0.5,1,5,10,20,40,75,100micron

**Outside Diameter:** 152mm(6inch)

**Length:** 20inch, 30inch, 40inch, 50inch, 60inch

**Max. Operating temperature:** 80°C

**Max. Operating DP:**4.0 Bar@20°C; 2.4bar @ 80°C

**Note:** Other types of high flow filters are also available.

Pls. contact CMI at sales@cmi-ly.com if you have more exacting requirements.

## Ordering Table

CODE	Media Material	Length	Micron Rating	O-ring Material	Non standard
CHFK2	PP- Polypropylene FG- Fiber glass	20-20inch	0.5	E- EPDM	-N if nonstandard
		40-40inch	1	F- Viton	
		60-60inch	5	B- NBR	
			10	S-Silicon	
			20		
			40		
70					

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# CMI High Flow Pleated Filter Cartridge

CHFK2 Type

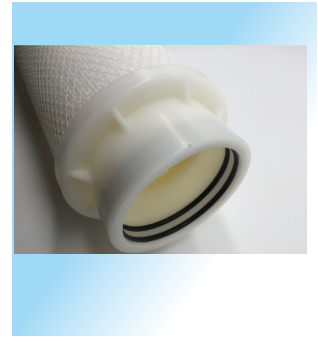
## Description

CMI CHFK2 Series filter cartridge is a kind of high flow filter which are made from depth PP or glass fiber material. The filter has a big diameter, with inner core, single open ended. Flow is from outside to inside to make sure all dirt particles can be intercepted on the outside side of the filter.

CHFK2 is a membrane pleated cartridge to enlarge the filtration area and increase the dirt hold capacity. These factors provide customers with consistent performance and effluent quality.

Its big diameter brings big filtration area to reduce the filter housing diameter. Meanwhile, it also saves up the change out time compared with conventional cartridge system. It gives customer lower investment cost, disposal cost, as well as long service life.

The structure also provides you with a better sealing to ensure a perfect filtration.



## Features

- High Filtration Area
- High flow capacity
- High contaminant loading capacity
- All contaminants can be effectively removed
- Great saving of change out time
- Outside to inside flow pattern-all dirt will contain outside the cartridge
- Polypropylene material brings good chemical compatibility
- Large diameter reduces filter housing space
- Easy cartridge change-out without use of special tools

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# CMI High Flow Pleated Filter Cartridge

CHFK2 Type

## Specifications

### Material:

Filter Media: Pleated PP, Pleated glass fiber; melt blown

Outside Support: Polypropylene (PP)

End Caps: Glass fiber reinforced polypropylene

Inner core: Polypropylene (PP)

O-ring Seal: EPDM, NBR, Silicon, Viton

**Micron ratings:** 0.5,1,5,10,20,40,75,100micron

**Outside Diameter:** 152mm(6inch)

**Length:** 20inch, 30inch, 40inch, 50inch, 60inch

**Max. Operating temperature:** 80°C

**Max. Operating DP:**4.0 Bar@20°C; 2.4bar @ 80°C

**Note:** Other types of high flow filters are also available.

Pls. contact CMI at sales@cmi-ly.com if you have more exacting requirements.

## Ordering Table

CODE	Media Material	Length	Micron Rating	O-ring Material	Non standard
CHFK2	PP- Polypropylene FG-Fiber glass	20-20inch	0.5	E-EPDM	-N
		40-40inch	1	V-Viton	if nonstandard
		60-60inch	5	B-NBR	
			10	S-Silicon	
			20		
			40		
			70		

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# CMI Bag Type Cartridge

CBC Type

## Description

CMI Bag-Type Big Flow Cartridge combines the performance advantages of cartridge filters with the ease use of bag filter systems. It offers unique combination of benefits and unmatched economics. Customers no longer have to choose between cartridge and bag technologies. The pleated media increases the effective filtration area with high flow and long service life.



## Features

- High performance filter media
- Pleated configuration with big filtration area
- Large diameter suitable for high contaminant applications
- High mechanical strength
- Easily retrofit into existing size 1 and size 2 housings
- The inside to outside flow ensures the unwanted articles are trapped with the element

## Specifications

### Material:

Filter Media: Pleated depth polypropylene (PP)

Outside Support: Polypropylene (PP)

End Caps: Polypropylene (PP)

Adjustable flange: Polypropylene (PP)

O-ring Seal: EPDM, NBR

**Micron Rating:** 0.2µm --200 µm

**Outside Diameter:** 6 inches (152mm)

**Length:** 16inch(405mm) for size 1 bag; 31inch(785mm) for size 2 bag

**Max Operating Temperature:** 60°C

**Recommended Change out DP:** 2.4bar @ 20°C

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# CMI Bag Type Cartridge

CBC Type

## Ordering Table

CODE	Media Material	Length	Micron Rating	O-ring Material	Non standard
CBC	PP- Polypropylene FG-Fiber glass	16-20inch 31-31inch	0.2 0.5 01 05 10 50 100 200	E-EPDM V-Viton B-NBR S-Silicon	-N if nonstandard

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# CMI High Flow Pleated Filter Cartridge

CHFC Type

## Description

CMI CHFC Series filter cartridge is a kind of high flow filter which are made from carbon impregnated cellulose. The filter has a big diameter of 160mm(6.3inch) or 165mm(6.5inch), with PP inner core, single open ended. Flow is from outside to inside to make sure all dirt particles can be intercepted on the outside side of the filter.

CHFC is a pleated cartridge with big filtration area and good dirt hold capacity. These factors provide customers with consistent performance and effluent quality.

100% carbon impregnated cellulose material makes the filter cartridge excellent Benzene absorption efficiency.



## Features

- High Filtration Area
- High flow capacity
- High contaminant loading capacity
- All contaminants can be effectively removed
- Great saving of change out time
- Outside to inside flow pattern-all dirt will contain outside the cartridge
- Polypropylene material brings good chemical compatibility
- Large diameter reduces filter housing space
- Easy cartridge change-out without use of special tools
- Filter media is 100% carbon impregnated cellulose material

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# CMI High Flow Pleated Filter Cartridge

CHFC Type

## Specifications

**Material:**

Filter Media: Carbon impregnated cellulose: CIC32, CIC40

Outside Support: Polypropylene (PP)

End Caps: Glass fiber reinforced polypropylene

Inner core: Polypropylene (PP)

O-ring Seal: EPDM, NBR, Silicon, Viton

**Micron ratings:** 0.5, 1, 5, 10, 20, 40, 75, 100micron

**Outside Diameter:** 152mm(6inch)

**Length:** 20inch, 30inch, 40inch, 50inch, 60inch

**Max. Operating temperature:** 80 °C

**Max. Operating DP:** 4.0 Bar@20 °C; 2.4bar @ 80 °C

**Note:** Other types of high flow filters are also available. Pls. contact CMI at sales@cmi-ly.com if you have more exacting requirements.

## Ordering Table

CODE	Media Material	Length	Micron Rating	O-ring Material	OD	Non standard
CHFC	C32- CIC32 C40- CIC40	20-20inch 40-40inch 60-60inch	0.5 1 5 10 20 40 70	E-EPDM V-Viton B-NBR S-Silicon	-160(160mm) -165(165mm)	-N if nonstandard

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