



FILTER TECHNOLOGY

# CARTFLOW

## Junior Cartridge

# CATALOG





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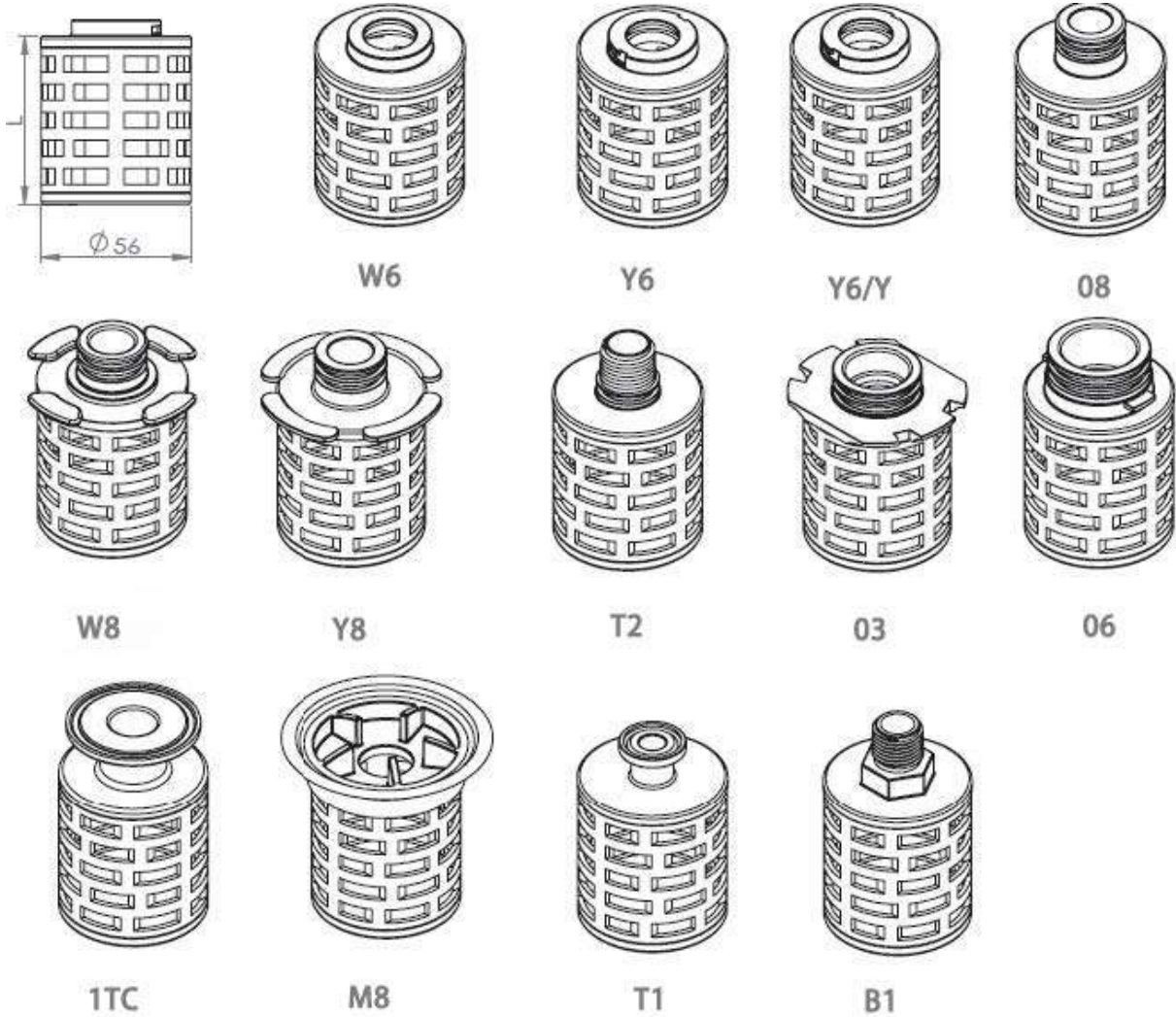
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# Drawings of Junior Cartridge Filters



L: available in

32mm,63mm,  
68mm,94mm,124mm

Fittings:

W6=116 w/o locking groove  
 Y6=116 w/ locking groove  
 Y6/Y=116 w/ locking groove with SS reinforced  
 08=118 double o-ring  
 W8=118 w/ short lugs  
 Y8=118 w/longlugs  
 T2=1/2"NPT threaded  
 03=123 double o-ring  
 06=126 double o-ring  
 1TC=1"TC  
 M8= 80mm skirting  
 T1=1/2"TC  
 B1=1/2"BSP-T



# General Application Junior Cartridge filters/PES membrane

CMK sterilizing Grade Filter Polyethersulfone Cartridge are 100% integrity tested, it is constructed of single layer hydrophilic asymmetric polyethersulfone membrane. It offers broad chemical compatibility, higher filter area with high flow rates at low pressure drops, and low extractables.



## Typical Applications

- Bottled Water
- Process water
- Vinegar
- Aseptic Packaged Liquids
- Beer, Wine and Spirits
- Juice, Soft drinks, Edible Oils
- Optical Disk manufacturing
- Hard dDsk manufacturing
- Optical Coatings
- Bulk Chemicals
- Pharmaceutical intermediates

## Filter Area

HH: 500cm<sup>2</sup> SS: 1000cm<sup>2</sup>  
DD: 1500cm<sup>2</sup> LL: 2100cm<sup>2</sup>

## Integrity Test Specifications

Water wetted membrane

Pore size	Minimum Bubble point
0.1um	70 psig (4.8 bar)
0.2um	45 psig (3.1 bar)
0.45um	24 psig (1.7 bar)
0.65um	19 psig (1.3 bar)
0.8um	17 psig (1.2 bar)
1.2um	11.6 psig (0.8 bar)

## Sanitization/Sterilization

- Filtered Hot water 90°C(194°F), 30 minutes, multiple cycles, max 3 psid forward flow
- Autoclave 121°C(250°F), 30 min, multiple cycles
- In-line Steam 135°C(275°F), 30 min, multiple cycles

## Maximum Operating Parameters

- Differential Pressure
  - Forward 50 psid (3.4 barg) at 20°C (68°F)
  - Reverse 40 psid (2.7 barg) at 20°C (68°F)
- Operating Temperature 82°C(180°F) at 10 psid (0.69 barg) in water
- Recommended Changeout Pressure: 35psid(2.4barg)

## Toxicity

All components meet the specifications for biological safety per USP Class VI-121°C for plastics.

## Construction Materials

Filter Membrane: Polyethersulfone (PES) Membrane

Media Support: Polypropylene

End Caps: Polypropylene

Inner Core: Polypropylene

Outer Cage: Polypropylene

Sealing Method: Thermal Bonding

O-rings: Buna, Viton(or FKM), EP, Silicone,

Encapsulated Silicone, Encapsulated Viton (or FKM)

## Food Safety Compliance

Material of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulation, 21CFR.

Material used to produce filter media and hardware are safe for use in contact with foodstuffs in accordance with EU Directives 10/2011.

Eg.=> CMKPS0010GHHOSW6PBY0

ORDERING INFORMATION										
Product Type	Membrane Type	Removal Rating	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CMK= Mini Pleated Cartridge	PS = PES	0010=0.1um	G = Gen Purpose	HH=500cm <sup>2</sup>	OF=OD:56mm	W6=116 w/o locking groove Y6=116 w/ locking groove O8=118 double o-ring W8=118 w/ short lugs Y8=118 w/longlugs T2=1/2"NPT threaded O3=123 double o-ring O6=126 double o-ring 1TC=1"TC M8= 80mm skirting T1=1/2"TC B1=1/2"BSP-T	P=PP	B=Buna-N	Y= With SS reinforced	0 = Rev.0
		0020=0.2um		SS=1000cm <sup>2</sup>				E=EPDM		
		0045=0.45um		DD=1500cm <sup>2</sup>				S=Silicone		
		0065=0.65um		LL=2100cm <sup>2</sup>				V=Viton		
		0080=0.8um								
0120=1.2um										

# Bio-Burden Reduction Junior Cartridge filters/PES membrane

CMK Bio-Burden Reduction Grade Filter Polyethersulfone Junior Cartridge are 100% integrity tested; ensures bio-burden and small particle removal in a wide range of food&beverage, biological liquids, and intermediate bulk pharmaceutical fluids. The CMK Series is constructed of single layer hydrophilic asymmetric polyethersulfone membrane. It offers broad chemical compatibility, high flow rates at low pressure drops, and low extractables.



## Typical Applications

- Cell Culture Media
- Large Volume Parenterals(LVP's)
- Pharmaceutical Bulk Chemical Solutions
- Diagnostics
- Blood and Serum Fractions
- Purified Water
- Beer, Wine and Spirits
- Juice & Soft Drinks
- Bottled Water

## Filter Area

HH: 500cm<sup>2</sup> SS: 1000cm<sup>2</sup>  
DD: 1500cm<sup>2</sup> LL: 2100cm<sup>2</sup>

## Integrity Test Specifications

Water wetted membrane

Pore size	Minimum Bubble point
0.2um	3.5barg
0.45um	2.3barg
0.65um	1.5barg

## Maximum Operating Parameters

- Differential Pressure
  - Forward 50 psid (3.4 barg) at 20°C (68°F)
  - Reverse 40 psid (2.7 barg) at 20°C (68°F)
- Operating Temperature 82°C(180°F) at 10 psid (0.69 barg) in water
- Recommended Changeout Pressure: 35psid(2.4barg)

## Sanitization/Sterilization

- Filtered Hot water 90°C(194°F), 30 minutes, multiple cycles, max 3 psid forward flow
- Autoclave 121°C(250°F), 30 min, multiple cycles
- In-line Steam 135°C(275°F), 30 min, multiple cycles

## Toxicity

All components meet the specifications for biological safety per USP Class VI-121°C for plastics.

## Construction Materials

Filter Membrane: Polyethersulfone (PES) Membrane

Media Support: Polypropylene

End Caps: Polypropylene

Inner Core: Polypropylene

Outer Cage: Polypropylene

Sealing Method: Thermal Bonding

O-rings: Buna, Viton(or FKM), EP, Silicone,  
Encapsulated Silicone,  
Encapsulated Viton (or FKM)

## Food Safety Compliance

Material of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulation, 21CFR.

Material used to produce filter media and hardware are safe for use in contact with foodstuffs in accordance with EU Directives 10/2011.

Eg.-> CMKPS0020BHHOSW6PBY0

ORDERING INFORMATION										
Product Type	Membrane Type	Removal Rating	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CMK=	PS = PES	0020=0.2um	B =	HH=500cm <sup>2</sup>	OF=OD:56mm	W6=116 w/o locking groove	P=PP	B=Buna-N	Y= With SS reinforced	0 = Rev.0
Mini		0045=0.45um	Low	SS=1000cm <sup>2</sup>		Y6=116 w/ locking groove		E=EPDM		
Pleated			Bio			O8=118 double o-ring		S=Silicone		
Cartridge		0065=0.65um		DD=1500cm <sup>2</sup>		W8=118 w/ short lugs		V=Viton		
				LL=2100cm <sup>2</sup>		Y8=118 w/longlugs				
						T2=1/2"NPT threaded				
						O3=123 double o-ring				
						O6=126 double o-ring				
						1TC=1"TC				
						M8= 80mm skirting				
						T1=1/2"TC				
						B1=1/2"BSP-T				



# Sterilizing Junior Cartridge filters/PES membrane

CMK sterilizing Grade Filter Polyethersulfone Cartridge are 100% integrity tested; it is constructed of double layer hydrophilic asymmetric polyethersulfone membrane. It offers broad chemical compatibility, high flow rates at low pressure drops, and low extractables.



## Typical Applications

- Cell Culture Media
- Large Volume Parenterals(LVP's)
- Pharmaceutical Bulk Chemical Solutions
- Diagnostics
- Blood and Serum Fractions
- Purified Water
- Beer, Wine and Spirits
- Juice & Soft Drinks
- Bottled Water

## Filter Area

HH: 500cm<sup>2</sup> SS: 1000cm<sup>2</sup>  
DD: 1500cm<sup>2</sup> LL: 2100cm<sup>2</sup>

## Integrity Test Specifications

Water wetted membrane

Pore size	Minimum Bubble point
0.1um	2.2barg(water/IPA)
0.2um	3.8barg(water)
0.45um	2.7barg(water)

## Sanitization/Sterilization

- Filtered Hot water 90°C(194°F), 30 minutes, multiple cycles, max 3 psid forward flow
- Autoclave 121°C(250°F), 30 min, multiple cycles
- In-line Steam 135°C(275°F), 30 min, multiple cycles

## Maximum Operating Parameters

- Differential Pressure
  - Forward 50 psid (3.4 barg) at 20°C (68°F)
  - Reverse 40 psid (2.7 barg) at 20°C (68°F)
- Operating Temperature 82°C(180°F) at 10 psid (0.69 barg) in water
- Recommended Changeout Pressure: 35psid(2.4barg)

## Toxicity

All components meet the specifications for biological safety per USP Class VI-121°C for plastics.

## Construction Materials

Filter Membrane: Polyethersulfone (PES) Membrane

Media Support: Polypropylene

End Caps: Polypropylene

Inner Core: Polypropylene

Outer Cage: Polypropylene

Sealing Method: Thermal Bonding

O-rings: Buna, Viton(or FKM), EP, Silicone,  
Encapsulated Silicone,  
Encapsulated Viton (or FKM)

## Food Safety Compliance

Material of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulation, 21CFR.

Material used to produce filter media and hardware are safe for use in contact with foodstuffs in accordance with EU Directives 10/2011.

Eg.=> CMKPS0201SHHOSW6PBY0

ORDERING INFORMATION										
Product Type	Membrane Type	Removal Rating	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CMK= Mini Pleated Cartridge	PS = PES	0201=0.1/0.2um	S = Ster Grade	HH=500cm <sup>2</sup>	OF=OD:56mm	W6=116 w/o locking groove Y6=116 w/ locking groove 08=118 double o-ring W8=118 w/ short lugs Y8=118 w/longlugs T2=1/2"NPT threaded 03=123 double o-ring 06=126 double o-ring 1TC=1"TC M8= 80mm skirting T1=1/2"TC B1=1/2"BSP-T	P=PP	B=Buna-N	Y= With SS reinforced	0 = Rev.0
		0601=0.1/0.65um		SS=1000cm <sup>2</sup>				E=EPDM		
		0402=0.2/0.45um		DD=1500cm <sup>2</sup>				S=Silicone		
		0602=0.2/0.65um		LL=2100cm <sup>2</sup>				V=Viton		
		0604=0.45/0.65um								
		0804=0.45/0.8um								

# Bio-burden Reduction Junior Cartridge filters

## Hydrophobic PTFE membrane

CMK Grade Filter hydrophobic PTFE cartridge are 100% integrity tested; it is constructed of single layer sterilizing expanded polytetrafluoroethylene membrane. It offers broad chemical compatibility, higher filter area with high flow rates at low pressure drops, and low extractables.



### Benefits

- 100% integrity tested
- FDA food contact compliant
- Thermal bonding
- Non-fiber releasing

### Filter Area

HH: 500cm<sup>2</sup> SS: 1000cm<sup>2</sup>  
 DD: 1500cm<sup>2</sup> LL: 2100cm<sup>2</sup>

### Integrity Test Specifications

Pore Size	0.2um
Bubble Point	≥1.4 barg (IPA/Water)
Water Intrusion (area:2100cm <sup>2</sup> )	≤0.17ml/min @ 2500mbar, 25°C

### Sanitization/Sterilization

- In-line Steam 135°C(275°F), 30 min, 150 cycles

### Typical Applications

- Fementer
- Formulation Tank air feed
- RO and WFI storage tank
- Fermentation purge air
- Container purge air
- Aspetic packaging air

### Maximum Operating Parameters

- Differential Pressure
  - Forward 50 psid (3.4 bard) at 20°C (68°F)
  - Reverse 40 psid (2.7 bard) at 20°C (68°F)
- Operating Temperature 82°C(180°F) at 10 psid (0.69 barg) in water
- Recommended Changeout Pressure: 35psid(2.4barg)

### Toxicity

All components meet the specifications for biological safety per USP Class VI-121°C for plastics.

## Construction Materials

Filter Membrane: PTFE Membrane  
 Media Support: Polypropylene  
 End Caps: Polypropylene with embedded 316 ring  
 Inner Core: SUS 316L perforated core  
 Outer Cage: Polypropylene  
 Sealing Method: Thermal Bonding  
 O-rings: Buna, Viton(or FKM), EP, Silicone,  
 Encapsulated Silicone,  
 Encapsulated Viton (or FKM)

## Food Safety Compliance

Material of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulation, 21CFR.  
 Material used to produce filter media and hardware are safe for use in contact with foodstuffs in accordance with EU Directives 10/2011.

Eg.=> CMKPT0020BHHOSW6PBY0

ORDERING INFORMATION										
Product Type	Membrane Type	Removal Rating	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CMK=	PT =	0020=0.2um	B =	HH=500cm <sup>2</sup>	OF=OD:56mm	W6=116 w/o locking groove	P=PP	B=Buna-N	Y= With SS	0 = Rev.0
Mini	PTFE		Low	SS=1000cm <sup>2</sup>		Y6=116 w/ locking groove		E=EPDM	reinforced	
Pleated	phobic		Bio	DD=1500cm <sup>2</sup>		08=118 double o-ring		S=Silicone		
Cartridge				LL=2100cm <sup>2</sup>		W8=118 w/ short lugs		V=Viton		
						Y8=118 w/longlugs				
						T2=1/2"NPT threaded				
						03=123 double o-ring				
						06=126 double o-ring				
						1TC=1"TC				
						M8= 80mm skirting				
						T1=1/2"TC				
						B1=1/2"BSP-T				

# General Application Junior Cartridge filters

## Hydrophobic PTFE membrane

CMK Grade Filter hydrophobic PTFE cartridge are 100% integrity tested; it is constructed of single layer sterilizing expanded polytetrafluoroethylene membrane. It offers broad chemical compatibility, higher filter area with high flow rates at low pressure drops, and low extractables.



### Benefits

- 100% integrity tested
- FDA food contact compliant
- Thermal bonding
- Non-fiber releasing

### Typical Applications

- Compressed air
- Pressurized gases
- Tank ventilation
- Chemicals
- Solvents

### Filter Area

HH: 500cm<sup>2</sup>    SS: 1000cm<sup>2</sup>  
 DD: 1500cm<sup>2</sup>    LL: 2100cm<sup>2</sup>

### Integrity Test Specifications

Pore size	Bubble point/IPA
0.1um	1.7barg
0.2um	1.1barg
0.45um	0.6barg
1.0um	0.4barg
3.0um	0.1barg
5.0um	0.07barg

### Maximum Operating Parameters

- Differential Pressure
  - Forward 80 psid (5.5 barg) at 20°C (68°F)
  - Reverse 40 psid (3.1 barg) at 44°C (75°F)
- Operating Temperature 82°C(180°F) at 10 psid (6.9 barg)
- Recommended Changeout Pressure: 35psid(2.4barg)

### Sanitization/Sterilization

- In-line Steam 135°C(275°F), 30 min, 150 cycles

### Toxicity

All components meet the specifications for biological safety per USP Class VI-121°C for plastics.



## Construction Materials

- Filter Membrane: PTFE Membrane
- Media Support: Polypropylene
- End Caps: Polypropylene with embedded 316 ring
- Inner Core: SUS 316L perforated core
- Outer Cage: Polypropylene
- Sealing Method: Thermal Bonding
- O-rings: Buna, Viton(or FKM), EP, Silicone,  
Encapsulated Silicone,  
Encapsulated Viton (or FKM)

## Food Safety Compliance

Material of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulation, 21CFR.  
Material used to produce filter media and hardware are safe for use in contact with foodstuffs in accordance with EU Directives 10/2011.

Eg.=> **CMKPT0010GHHOSW6PBY0**

ORDERING INFORMATION										
Product Type	Membrane Type	Removal Rating	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CMK= Mini Pleated Cartridge	PT = PTFE phobic	0010=0.1um	G = Gen Purpose	HH=500cm <sup>2</sup>	OF=OD:56mm	W6=116 w/o locking groove Y6=116 w/ locking groove O8=118 double o-ring W8=118 w/ short lugs Y8=118 w/longlugs T2=1/2"NPT threaded O3=123 double o-ring O6=126 double o-ring 1TC=1"TC M8= 80mm skirting T1=1/2"TC B1=1/2"BSP-T	P=PP	B=Buna-N	Y= With SS reinforced	0 = Rev.0
		0020=0.2um		SS=1000cm <sup>2</sup>				E=EPDM		
		0045=0.45um		DD=1500cm <sup>2</sup>				S=Silicone		
		0065=0.65um		LL=2100cm <sup>2</sup>				V=Viton		
		0100=1.0um								
		0300=3.0um								
		0500=5.0um								

# General Application Junior Cartridge filters

## Nylon 6,6 membrane

CMK Pleated Cartridge Filters with Nylon 66 membrane are 100% integrity tested; it is constructed of single layer hydrophilic nylon66 membrane. It offers broad chemical compatibility, higher filter area with high flow rates at low pressure drops, and low extractables.



### Benefits

- 100% integrity tested
- FDA food contact compliant
- Thermal bonding
- Non-fiber releasing

### Typical Applications

- Bottled water
- Vinegar
- Aqueous Solutions
- Beer, Wine and Spirits
- Juice, Soft Drinks, Edible Oils
- Pharmaceutical intermediates

### Integrity Test Specifications

Wetted membrane

Pore size	Minimum Bubble point
0.1um	50.8 psig (3.5 bar)
0.2um	40.6 psig (2.8 bar)
0.45um	26.1 psig (1.8 bar)
1.0um	8.7 psig (0.6 bar)

### Sanitization/Sterilization

- Filtered Hot water 90°C(194°F), 30 min, multiple cycles, max 3 psid forward flow
- Autoclave 121°C(250°F), 30 min, multiple cycles

### Maximum Operating Parameters

- Differential Pressure
  - Forward 80 psid (5.5 barg) at 20°C (68°F)
  - Reverse 40 psid (3.1 barg) at 44°C (75°F)
- Operating Temperature 82°C(180°F) at 10 psid (6.9 barg)
- Recommended Changeout Pressure: 35psid(2.4barg)

### Toxicity

All components meet the specifications for biological safety per USP Class VI-121°C for plastics.

## Construction Materials

Filter Membrane: Nylon Membrane  
 Media Support: Polypropylene  
 End Caps: Polypropylene with embedded 316 ring  
 Inner Core: SUS 316L perforated core  
 Outer Cage: Polypropylene  
 Sealing Method: Thermal Bonding  
 O-rings: Buna, Viton(or FKM), EP, Silicone,  
 Encapsulated Silicone,  
 Encapsulated Viton (or FKM)

## Food Safety Compliance

Material of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulation, 21CFR.  
 Material used to produce filter media and hardware are safe for use in contact with foodstuffs in accordance with EU Directives 10/2011.

Eg.-> **CMKNY0010GHHOSW6PBY0**

ORDERING INFORMATION										
Product Type	Membrane Type	Removal Rating	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CMK= Mini Pleated Cartridge	NY = Nylon	0010=0.1um	G = Gen Purpose	HH=500cm <sup>2</sup>	OF=OD:56mm	W6=116 w/o locking groove Y6=116 w/ locking groove 08=118 double o-ring W8=118 w/ short lugs Y8=118 w/longlugs T2=1/2"NPT threaded 03=123 double o-ring 06=126 double o-ring 1TC=1"TC M8= 80mm skirting T1=1/2"TC B1=1/2"BSP-T	P=PP	B=Buna-N	Y= With SS reinforced	0 = Rev.0
		0020=0.2um		SS=1000cm <sup>2</sup>				E=EPDM		
		0045=0.45um		DD=1500cm <sup>2</sup>				S=Silicone		
		0065=0.65um		LL=2100cm <sup>2</sup>				V=Viton		
		0100=1.0um								

# General Application Junior Cartridge filters

## Hydrophilic PTFE membrane

CMK Pleated Cartridge Filters with hydrophilic PTFE membrane are 100% integrity tested; it is constructed of single layer hydrophilic PTFE membrane. It offers broad chemical compatibility, higher filter area with high flow rates at low pressure drops, and low extractables.



### Benefits

- 100% integrity tested
- FDA food contact compliant
- Thermal bonding
- Non-fiber releasing

### Typical Applications

- Bottled water
- Vinegar
- Aqueous Solutions
- Beer, Wine and Spirits
- Juice, Soft Drinks, Edible Oils
- Pharmaceutical intermediates

### Integrity Test Specifications

Wetted membrane

Pore size	Minimum Bubble point
0.1um	65.3 psig (4.5 bar)
0.2um	46.4 psig (3.2 bar)
0.45um	31.9 psig (2.2 bar)
1.0um	8.7 psig (0.6 bar)

### Sanitization/Sterilization

- Filtered Hot water 90°C(194°F), 30 min, multiple cycles, max 3 psid forward flow
- Autoclave 121°C(250°F), 30 min, multiple cycles

### Maximum Operating Parameters

- Differential Pressure
  - Forward 80 psid (5.5 barg) at 20°C (68°F)
  - Reverse 40 psid (3.1 barg) at 44°C (75°F)
- Operating Temperature 82°C(180°F) at 10 psid (6.9 barg)
- Recommended Changeout Pressure: 35psid(2.4barg)

### Toxicity

All components meet the specifications for biological safety per USP Class VI-121°C for plastics.

## Construction Materials

Filter Membrane: PTFE Membrane  
 Media Support: Polypropylene  
 End Caps: Polypropylene  
 Inner Core: PP/SUS 316L perforated core  
 Outer Cage: Polypropylene  
 Sealing Method: Thermal Bonding  
 O-rings: Buna, Viton(or FKM), EP, Silicone,  
 Encapsulated Silicone,  
 Encapsulated Viton (or FKM)

## Food Safety Compliance

Material of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulation, 21CFR.  
 Material used to produce filter media and hardware are safe for use in contact with foodstuffs in accordance with EU Directives 10/2011.

Eg.=> CMKPH0010GHHOSW6PBYO

ORDERING INFORMATION										
Product Type	Membrane Type	Removal Rating	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CMK= Mini Pleated Cartridge	PH = PTFE philic	0010=0.1um	G = Gen Purpose	HH=500cm <sup>2</sup>	OF=OD:56mm	W6=116 w/o locking groove Y6=116 w/ locking groove 08=118 double o-ring W8=118 w/ short lugs Y8=118 w/longlugs T2=1/2"NPT threaded 03=123 double o-ring 06=126 double o-ring 1TC=1"TC M8= 80mm skirting T1=1/2"TC B1=1/2"BSP-T	P=PP	B=Buna-N	Y= With SS reinforced	0 = Rev.0
		0020=0.2um		SS=1000cm <sup>2</sup>				E=EPDM		
		0045=0.45um		DD=1500cm <sup>2</sup>				S=Silicone		
		0065=0.65um		LL=2100cm <sup>2</sup>				V=Viton		
		0100=1.0um								



# Junior Cartridge filters

## Polypropylene media

CMK Cartridge Filters with depth structure of polypropylene media. It offers broad chemical compatibility, higher dirt holding capacity with high flow rates at low pressure drop and low extractables. They are available in nominal and absolute ratings.



### Benefits

- Wide chemical compatibility
- High dirt hold capacity
- High retention
- Thermal bonding
- Non-fiber releasing

### Typical Applications

- Process water
- Vinegar
- Aqueous Solutions
- Beer, Wine and Spirits
- Juice, Soft Drinks, Edible Oils
- Bulk Chemicals
- Pharmaceutical intermediates

### Maximum Operating Parameters

- Differential Pressure
  - Forward 80 psid (5.5 barg) at 20°C (68°F)
  - Reverse 40 psid (3.1 barg) at 44°C (75°F)
- Operating Temperature 82°C(180°F) at 10 psid (6.9 barg)
- Recommended Changeout Pressure: 35psid(2.4barg)

### Sanitization/Sterilization

- Filtered Hot water 90°C(194°F), 30 min, multiple cycles, max 3 psid forward flow
- Autoclave 121°C(250°F), 30 min, multiple cycles

### Toxicity

All components meet the specifications for biological safety per USP Class VI-121°C for plastics.

## Construction Materials

Filter Membrane: PP Membrane  
 Media Support: Polypropylene  
 End Caps: Polypropylene  
 Inner Core: SUS 316L perforated core  
 Outer Cage: Polypropylene  
 Sealing Method: Thermal Bonding  
 O-rings: Buna, Viton(or FKM), EP, Silicone,  
 Encapsulated Silicone,  
 Encapsulated Viton (or FKM)

## Food Safety Compliance

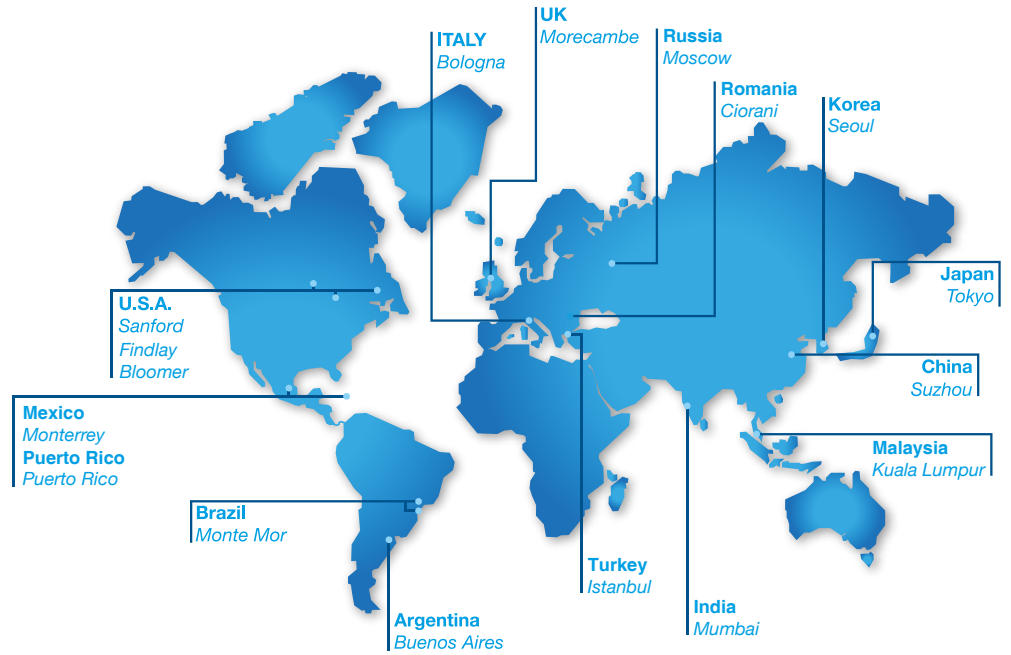
Material of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulation, 21CFR.

Material used to produce filter media and hardware are safe for use in contact with foodstuffs in accordance with EU Directives 10/2011.

Eg.=> CMKPP0060GHHOSW6PBY0

ORDERING INFORMATION										
Product Type	Membrane Type	Removal Rating	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CMK= Mini Pleated Cartridge	PP = Polypro	0060=0.6um	G = Gen Purpose	HH=500cm <sup>2</sup>	OF=OD:56mm	W6=116 w/o locking groove Y6=116 w/ locking groove O8=118 double o-ring W8=118 w/ short lugs Y8=118 w/longlugs T2=1/2"NPT threaded O3=123 double o-ring O6=126 double o-ring 1TC=1"TC M8= 80mm skirting T1=1/2"TC B1=1/2"BSP-T	P=PP	B=Buna-N	Y= With SS reinforced	0 = Rev.0
		0100=1.0um		SS=1000cm <sup>2</sup>						
		0300=3.0um	P = Premier	DD=1500cm <sup>2</sup>				S=Silicone		
		0500=5.0um		LL=2100cm <sup>2</sup>					V=Viton	
		0700=7.0um								
		1000=10.0um								
		2000=20.0um								
		3000=30.0um								
5000=50.0um										





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