

Cryptofil™

For the Removal of
Cryptosporidium Oocysts



Cryptofil™ filter cartridges are used for the control of Cryptosporidium oocysts in water used in the food, beverage and ultrapure water industries.

The Cryptofil™ cartridge has been developed following extensive research and has resulted in filter media with continuously graded fibre density; this yields progressively finer oocyst retention through the depth of the media. This graded density depth filtration mechanism, combined with optimised pleated pack configuration and resultant high surface area, affords high flow capability and exceptional oocyst retention capacity.

Cryptosporidium oocysts removed from the water flow are captured within the media and are not subject to release by system fluctuations. The voids volume of Cryptofil™ combined with advanced cartridge construction results in a filter capable of retaining high concentrations of oocysts ensuring extended service life and reduced filtration costs.

Typical Applications

- Mineral water
- Food processing
- Embarkation water supply
- Leisure

Ordering Information

Product Code: 1 2 3 4 5 6					
1: Nominal		2: Pore Rating		3: Version	
CP	Cryptofil™	P6	0.6µm	R	Rinsed
				S	Standard Hard Cage
4: Length (Nominal)		5: End Fitting		6: Seals	
1	10" (254mm)	A	Code 3	A	Ethylene Propylene
2	20" (508mm)	B	Code 7	B	Silicone
3	30" (762mm)	C	Code 8	C	Viton®
4	40" (1016mm)	F	N SOE	D	Nitrile
5	5" (125mm)	G	G DOE (short)	E	FED Encap. Viton®
		H	G SOE	G	FEP Encap. Silicone
		J	216 (218), fin	J	DOE PTFE
		K	Code 2		
		L	223, fin (no lugs)		
		M	DOE		
		S	Code 28, fin (3 lugs)		
		U	224, fin		
		V	226, fin		
		Y	BS832, flat		

Features and Benefits

- Graded multi-layer media
- Guaranteed removal ratings
- High filtration area
- Cartridge integrity and low TOC levels
- Suitable for steam and hot water sanitisation
- Full traceability
- Controlled manufacturing environment

Specifications

Materials of Manufacture

Filter media:	Polypropylene
Support layers:	Polypropylene
Inner core:	Polypropylene
Outer support:	Polypropylene
End fittings:	Polypropylene
Support ring:	Stainless steel

Cartridge Dimensions (Nominal)

Effective Filtration Area:	Up to 0.6m ² per 10" module	
Diameter:	70mm (2.8")	
Length:	1 module:	254mm (10")
		508mm (20")
	2 modules:	762mm (30")
		1016mm (40")

Cartridge Treatment

Standard:	Cleaned without further treatment
Flushed:	Flushed with pyrogen free water
Rinsed:	Ultra-clean, pulse flushed to give a system resistivity of 18MΩ.cm

Gaskets and O-Rings

Ethylene Propylene, FEP encapsulated, Silicone, Viton®, Nitrile or Polypropylene felt

Maximum Differential Pressure

Normal flow direction at:

20°C (68°F):	6.0 bar (87psi)
80°C (176°F):	4.0 bar (58psi)
100°C (212°F):	3.0 bar (44psi)
120°C (248°F):	2.0 bar (29psi)
125°C (257°F):	1.5 bar (22psi)

Reverse flow direction at:

20°C (68°F):	2.1 bar (30psi)
80°C (176°F):	1.0 bar (15psi)
100°C (212°F):	0.5 bar (7psi)

Operating Temperature

Maximum continuous: 80°C (176°F)

Sterilisation

In situ steam 60 x 30 minute cycles at 130°C (266°F)
Hot water 200 x 20 minute cycles at 80°C (176°F)

Extractables

Minimum total extractables. Please refer to the Cryptofil™ Validation Guide.

Integrity Testing

Each Cryptofil™ module of every cartridge is individually integrity tested using the Bubble Point Test. Please contact us for procedural details.

Clean Water Flow Rates

- Typical clean water flow rate:
A 254mm (10") Cryptofil™ single cartridge exhibits the flow-ΔP characteristics indicated below, for solutions with a viscosity of 1 centipoise.
- Other solutions:
For solutions with a viscosity of greater than 1 centipoise, multiply the indicated differential pressure by the viscosity in centipoise.

