



Introduction

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

The Cryptofil PP cartridge has been developed after 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 when compared with spun bonded type products.

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



Cryptofil PP Liquid Filters

Features and Benefits

- Specifically designed for the retention and removal of *Cryptosporidium* oocysts
- Micron rating 0.6 and 1.0 micron
- Pleated media for high flow rates and long life
- Graded density for excellent oocyst retention
- All polypropylene construction
- Fully validated for *Cryptosporidium* oocyst removal
- Validation guide available
- All PP materials are FDA approved to 21CFR177-1520

Specifications

Materials of Manufacture

Media	polypropylene
Upstream Support	polypropylene
Downstream Support	polypropylene
Core	polypropylene
Sleeve	polypropylene
End caps	polypropylene

Cartridge Dimensions (Nominal)

Diameter:	70mm	(2.8")
Length: 1 Module (short)	125mm	(5")
1 Module	250mm	(10")
2 Modules	510mm	(20")
3 Modules	860mm	(30")
4 Modules	1020mm	(40")

Effective Filtration Area

0.6m² (6.46ft²) per 250mm (10") module

Maximum Differential Pressure

In direction of flow (outside to in) 6 barg (87psig) at 20°C (68°F)

Maximum Recommended Continuous Operating Temperature

80°C (176°F)

Sterilisation

Cryptofil PP cartridges can be repeatedly in-situ steam sterilised or autoclaved up to 130°C (266°F) for a maximum of 60 x 30 minute cycles.

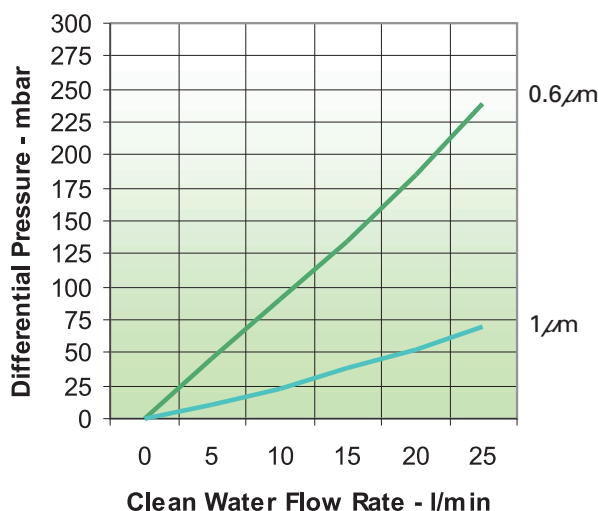
Sanitisation

Cryptofil PP cartridges can be hot water sanitised up to 80°C (176°F) and are compatible with a wide range of proprietary sanitising and regenerating agents.

Biological Safety

Conforms to current USP plastics Class VI at 121°C (250°F) safety standards

Clean Water Flow Rate / 250mm Cartridge



Rinse Volume

Filtrate meets USP standards for oxidisables, non-volatile extractables and particles after only a 3 litre flush per 250mm (10") cartridge with deionised water

Determination of Micron Ratings

The removal efficiencies of Cryptofil PP cartridges have been determined using specific test results on live *Cryptosporidium* oocysts.

Retention Values

Oocyst retention values for micron ratings:

Product	Micron	Retention
Cryptofil PP	0.6	>99.99%
Cryptofil PP	1.0	>99.95%

Retention values gained from test work completed by an independent test facility



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