

CRYPTOCLEAR PLUS Food and Beverage

Filter Cartridges



CRYPTOCLEAR PLUS pleated filter cartridges have been designed specifically for the removal of *Cryptosporidium parvum* and *Giardia intestinalis* from water in the food, beverage and healthcare industries.

Extensive research, including live oocyst challenge has resulted in a graded density filtration medium that maximizes loading capacity of the filters whilst accurately defining particle and oocyst retention under a variety of operating conditions.

CRYPTOCLEAR PLUS cartridges can be repeatedly sanitized using hot water, steam and a wide range of chemicals.

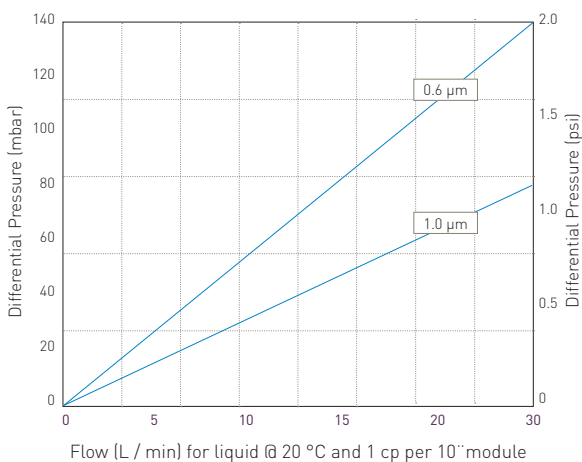
Features

- Specifically designed for the reduction of *Cryptosporidium parvum* oocysts
- Graded density polypropylene pleated media, optimized for dirt holding capacity and oocyst retention
- 0.6 and 1.0 micron retention ratings

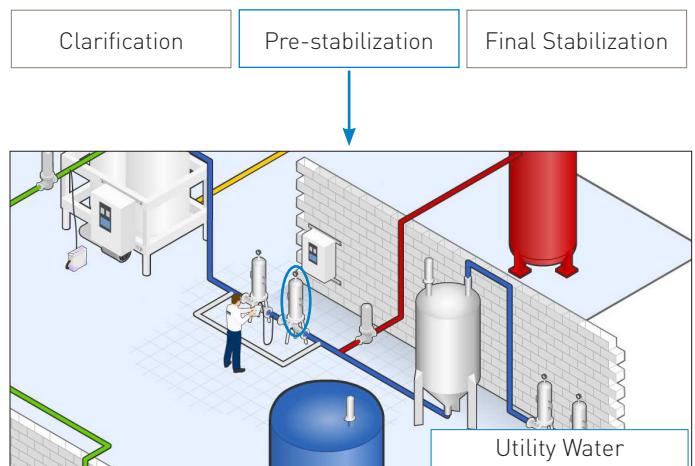
Benefits

- Assured performance to reduce the threat of *Cryptosporidium* infection
- Extended lifetime to blockage under high particle loading conditions
- Flexibility to optimize the filtration in-line with the facility requirements for *Cryptosporidium* control

Performance Characteristics



Filtration Stage



Specifications

Materials of Construction

■ Filtration Media:	Polypropylene
■ Upstream Support:	Polypropylene
■ Downstream Support:	Polypropylene
■ Inner Support Core:	Polypropylene
■ Outer Protection Cage:	Polypropylene
■ End Caps:	Polypropylene
■ End Cap Insert:	316L Stainless Steel
■ Standard o-rings:	Silicone

Food Contact Compliance

Materials conform to the relevant requirements of FDA 21 CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C. CRYPTOCLEAR PLUS is listed as a WRAS Approved Product.
WRAS - Water Regulations Advisory Scheme BS6920 Test of Effect on Water Quality.



Recommended Operating Conditions

Up to 70 °C (158 °F) continuous operating temperature and higher short-term temperatures during CIP to the following limits:

Temperature °C	°F	Max Forward dP (bar)	(psi)
20	68	5.0	72.5
40	104	4.0	58.0
60	140	3.0	43.5
80	176	2.0	29.0
90	194	1.0	14.5
>100 (steam)	>212 (steam)	0.3	4.0

Effective Filtration Area (EFA)

10" (250 mm) Up to 0.57 m² (6.13 ft²)

Cleaning and Sterilization

CRYPTOCLEAR PLUS cartridges can be repeatedly steam sterilized in-situ or autoclaved at up to 142 °C (287.6 °F). They can be sanitized with hot water at up to 90 °C (194 °F) and are compatible with a wide range of chemicals.

Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

Retention Characteristics

The removal efficiencies of CRYPTOCLEAR PLUS cartridges have been determined from tests conducted by Thames Water Utilities Limited on live *Cryptosporidium oocysts*.

Product	Micron	Retention
CRYPTOCLEAR PLUS	0.6	>99.997%
CRYPTOCLEAR PLUS	1.0	>99.3%

Ordering information

ZCCP



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Code	Length (Nominal)
1	10" (250 mm)
2	20" (500 mm)
3	30" (750 mm)
4	40" (1000 mm)

Code	Micron
.60	0.6 µm
1.0	1.00 µm

Code	End Cap (10 inch)
C	BF / 226 Bayonet
D	Fin / 222
E	Flat Top / 222
G	Recess / 222
R	BF / 222 Bayonet

VSH & HSL
HOUSING RANGE
AVAILABLE

PROSEP FILTER SYSTEMS LTD
Unit G19
River Bank Way
Lowfields Business Park
Elland
West Yorkshire
HX5 9DN

Tel: 01422 377367

Fax: 01422 377369

Email: enquiries@prosep.co.uk

www.prosep.co.uk

Map and Directions to Prosep Filters Limited



Leave M62 at Junction 24.

At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.

Take 1st exit slip road.

At roundabout at end of sliproad, take 3rd exit off.

This is the entrance to Lowfields Business Park.

Proceed straight over 1st roundabout.

At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

[Link to Google Maps](#)