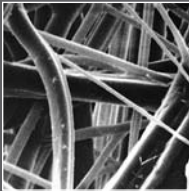


CRYPTOCLEAR PLUS



- Specifically designed for the reduction of *Cryptosporidium parvum* oocysts
- 0.6 and 1.0 micron retention ratings
- Graded density pleated media optimised dirt capacity and oocyst retention
- All polypropylene construction
- Independently tested with viable *Cryptosporidium parvum* oocysts

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 maximises loading capacity of the filters whilst accurately defining particle and oocyst retention under a variety of operating conditions.

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

available formats



Technical Specifications

Materials of Construction

Filtration Media	:	Polypropylene
Upstream Support	:	Polypropylene
Downstream Support	:	Polypropylene
Inner Support Core	:	Polypropylene
Outer Protection Cage	:	Polypropylene
End Caps	:	Polypropylene
Endcap Insert	:	316L Stainless Steel
Standard o-rings/gaskets	:	Silicone/EPDM
Capsule Body	:	Polypropylene
Capsule Vent Seals	:	Silicone

Food and Biological Safety

Materials conform to the relevant requirements of 21CFR Part 177 and current USP Plastics Class VI - 121°C and ISO10993 equivalents. CRYPTOCLEAR PLUS is listed in the Water Fittings and Materials Directive Part II as a WRAS Approved Product.

WRAS - Water Regulations Advisory Scheme BS6920 Test of Effect on Water Quality

Effective Filtration Area

Up to 0.57 m² (6.1 ft²) per 250 mm (10" module).

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%

Recommended Operating Conditions

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

Temperature		Maximum Forward dP	
°C	°F	(bar)	(psi)
20	68	5.0	73
40	104	4.0	58
60	140	3.0	44
80	176	2.0	29
90	194	1.0	15
>100 (steam)	>212 (steam)	0.3	4

Capsules may be operated up to a temperature of 40°C (104°F) at line pressures up to 5.0 bar (72 psig) for liquids and 4.0 bar (58 psi) in air/gas.

Cleaning and Sterilisation

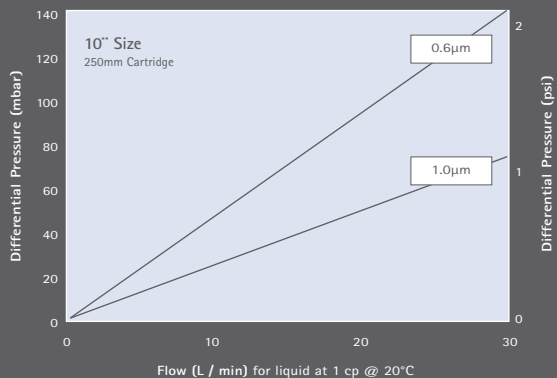
CRYPTOCLEAR PLUS cartridges can be repeatedly steam sterilised in situ or autoclaved at up to 142°C (288°F). They can be sanitised with hot water at up to 90°C (194°F) and are compatible with a wide range of chemicals. Capsules can be repeatedly autoclaved up to 135°C (275°F).

For detailed operational procedures and advice on cleaning and sterilisation, please contact the Technical Support Group through your usual **domnick hunter** contact.

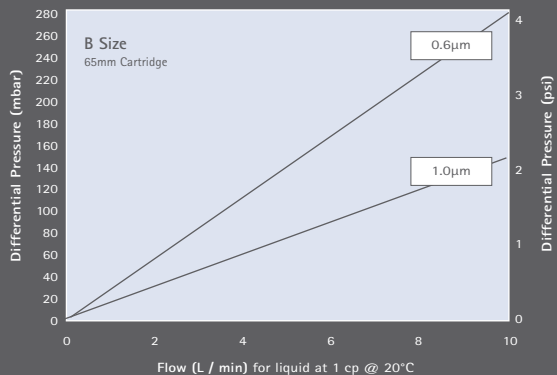
Recommended Rinse Volume

Prior to use - 10 litres per 10" cartridge.

Cartridge Flow Rates



For K size for a given flow rate multiply 10" size differential pressure by 2



For A size for a given flow rate divide B size differential pressure by 2
For E size for a given flow rate multiply B size differential pressure by 2

Cartridges

ZCCP

Code	Nominal Length (mm)	Nominal Length (inch)	Code	Micron Rating	Code	End Cap
B	65	2.5	.60	0.6	B	DH DOE
A	125	5	1.0	1.0	C	BF/226 bayonet
K	125	5			G	Recess/222
1	250	10			R	BF/222 bayonet
2	500	20			T	TRUESEAL
3	750	30			Y	Demi Stub
4	1000	40			Z	Demi A & B Std

Capsules

ZCCP

Code	Nominal Length (mm)	Nominal Length (inch)	Code	Micron Rating	Code	Inlet Connection Type	Code	Outlet Connection Type
E	113	4.4	.60	0.6	T	1" Tri-Clamp	T	1" Tri-Clamp
B	140	5.5	1.0	1.0	N	1/2" NPT Male	N	1/2" NPT Male
A	200	7.9			H	1/2" Hosebarb	H	1/2" Hosebarb
					G	Stepped Hosebarb	G	Stepped Hosebarb
					M	1/4" NPT Male	M	1/4" NPT Male
					V	3/8" NPT Female	V	3/8" NPT Female

BN3 Supplied in packs of 3



Durham Road, Birtley, Co. Durham, England DH3 2SF • Tel: +44 (0)191 410 5121
E-mail: process@domnickhunter.com • Website: www.domnickhunter.com

Copyright domnick hunter limited 2005
Publication Reference: PD11/05 Rev 2A

domnick hunter limited has a continuous policy of product development and although the Company reserves the right to change specification, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact our Process Filtration Sales Department for detailed information and advice on a products suitability for specific applications. All products are sold subject to the company's Standard conditions of sale.