PEPLYN PLUS Food and Beverage

Filter Cartridges





PEPLYN PLUS filter cartridges are utilized for the clarification and pre-stabilization of process liquids and supporting utility solutions for the beverage industries.

Available in a range of absolute retention ratings, PEPLYN PLUS cartridges represent a cost-effective solution to condition a range of beverage products prior to intermediate storage or final stabilization.

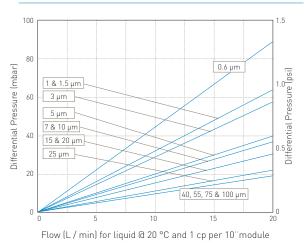
Extensive research has resulted in filter media with continuously graded fibre density giving progressively finer particulate retention through the depth of the media. This, combined with optimized media pleating density gives PEPLYN PLUS cartridges exceptional lifetime and retention performance characteristics.

Features

- Absolute retention ratings from 0.6µm to 100µm
- Pleated media with graded density
- All polypropylene, thermally bonded cartridge construction

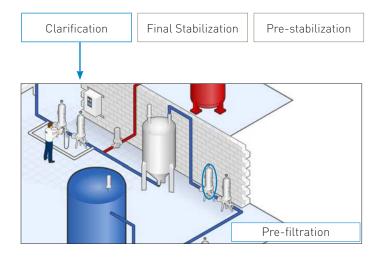
Benefits

- Reliable, fine particle retention
- I High flow and increased service life to blockage
- Compatible with aggressive process conditions including chemical cleaning and steam sanitization



Performance Characteristics

Filtration Stage



PEPLYN PLUS Food and Beverage

Specifications

Materials of Construction Polypropylene

- Filtration Media:
- Upstream Support:
- Downstream Support:
- Inner Support Core: Outer Protection Cage:
- End Caps:
- End Cap Insert (if applicable):
- * Not available in B End Cap variants Silicone
- Standard o-rings:

Food Contact Compliance



Polypropylene

Polypropylene

Polypropylene

Polypropylene

Polypropylene

316L Stainless Steel*

Materials conform to the relevant requirements of FDA 21 CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.

Recommended Operating Conditions

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

Temperature		Max Forward dP	
°C	°F	(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 0.6 m² (6.5 ft²)

Cleaning and Sterilization

PEPLYN PLUS cartridges can be repeatedly steam sterilized in-situ or autoclaved at up to 135 °C (275 °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 retention characteristics of PEPLYN PLUS filter cartridges have been determined by a single-pass technique using suspensions of ISO 12103 Pt. 1 A2 Fine and A4 Course test dust in water

Micron rating at various efficiencies					
Media	>99.99%	99.98%	99.90%	99%	90%
Code	10000	5000	1000	100	10
0.6	0.60	0.57	0.54	0.32	0.20
1.0	1.00	0.95	0.90	0.70	0.50
1.5	1.50	1.40	1.10	0.80	0.60
003	3.00	2.80	1.80	1.00	0.70
005	5.00	4.70	4.50	3.50	1.00
007	7.00	6.70	6.30	4.50	2.50
010	10.00	8.00	7.00	4.80	2.80
015	15.00	12.00	10.00	7.20	4.50
020	20.00	16.00	14.00	10.00	6.00
025	25.00	20.00	17.00	12.00	7.00

* Higher microns available upon request

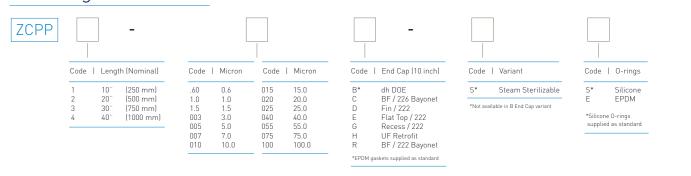
In addition, the removal efficiencies of the following grades of PEPLYN PLUS cartridges have been determined from tests conducted by Thames Water Utilities I

_imited on live (Cryptosporidium	oocysts.
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Product	Micron	Retention
PEPLYN PLUS	0.6	>99.997%
PEPLYN PLUS	1.0	>99.3%

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Ordering information





Parker domnick hunter has a continuous policy of product development and although the Company reserves the right to change specifications, 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.