

## Trapfil™

### Polypropylene Guard Filters for Clear, Bright Beverages



The Trapfil™ filter has been specifically developed for the retention of diatomite and polyvinylpolypyrrolidone (PVPP) particles. It is manufactured from materials which are 100% FDA (Food and Drug Administration) approved and fully welded for strength and integrity.

The all-polypropylene construction enables the Trapfil™ filter to be resistant to hot caustic solution and standard CIP practices. It is also compatible with steam and hot water sanitising procedures.

Designed to be backflushed *in situ* to remove diatomite and PVPP particles, it has been industry proven to withstand up to 100 backflush cycles with hot caustic solution at 70-80°C (158-176°F). This backflushing process regenerates the Trapfil™ filter providing improved economics.

The Trapfil™ filter is available in a variety of lengths and industry standard adaptors. Trapfil™ cartridges are available in 5, 10 and 15 micron ratings, validated at Beta 5000. Each Trapfil™ filter carries a unique serial number to enable full traceability of material components.

#### Typical Applications

- Stabilisation
- Clarification

#### Ordering Information

Product Code:						
1: Pre-Filter	2: Pore rating	3: Version	4: Length (Nominal)	5: End Fitting	6: Seals	7: Additional
R Trapfil™	05 5µm 10 10µm 15 15µm	S Standard Hard Cage	1 10" (254mm) 2 20" (508mm) 3 30" (762mm) 4 40" (1016mm)	A Code 3 B Code 7 C Code 8 F N SOE G G DOE (short) H G SOE J 216 (218), fin 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	A Ethylene Propylene B Silicone C Viton® D Nitrile E FEP Encap. Viton® G FEP Encap. Silicone J DOE PTFE	U Unbranded

## Features and Benefits

- Backflushing
- Chemical regeneration
- Suitable for steam and hot water sanitisation
- Guaranteed removal ratings
- 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:  
0.53m<sup>2</sup> (5.7ft<sup>2</sup>) per 10" module.

Diameter:	70mm (2.8")
Length:	1 module: 254mm (10"), 508mm (20")
	2 modules: 762mm (30"), 1016mm (40")

### Cartridge Treatment

Standard: Cleaned and flushed with pyrogen-free water

### Gaskets and O-Rings

FDA approved Ethylene Propylene, FEP encapsulated, Silicone, Viton® or Nitrile

### Maximum Differential Pressure

Normal flow direction at:

20°C (68°F):	6.0bar (87psi)
80°C (176°F):	4.0bar (58psi)
100°C (212°F):	3.0bar (44psi)

Reverse flow direction at:

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

### Operating Temperature

Maximum continuous: 80°C (176°F)

### Sterilisation

In situ steam 100 x 30 minute cycles at 125°C (257°F)  
Hot water 250 x 20 minute cycles at 85-90°C (185-194°F)

### Extractables

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

### Integrity Testing

Trapfil™ filter cartridges are batch tested for integrity using the Bubble Point Test. Please contact us for procedural details.

### Clean Water Flow Rates

- Typical clean water flow rate:  
A 254mm (10") Trapfil™ single cartridge exhibits the flow- $\Delta P$  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.

