



High Flow Filter Cartridges

Series PERP-740-KF

LENNTECH

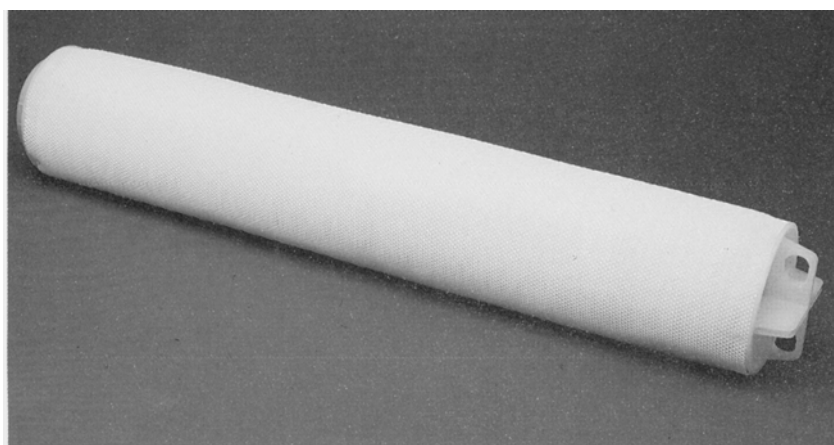
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Creative Answers Shaping Cleaner Environments

Technical Data



Features, Advantages and Benefits

The 3M™ High Flow Filter Cartridge, PERP-740-KF that incorporates the patented radial pleat, puts an extraordinary amount of surface area into a single cartridge. This results in the following:

- High loading capacity for long life and lower cost filtration.
- Fewer cartridges for fewer change-outs and lower labor cost.
- Fewer seals reduced risk of bypass resulting in high quality filtration.
- Extremely low disposal costs, less than a tenth of some cartridges.

Double O-ring seals in a variety of material options means:

- Extremely low risk of bypass for high quality fluids.
- No loose parts to assemble for easy installation, thus less labor cost.
- Also, no springs and caps to lose reduce the risk of bypass.
- Broad chemical compatibility for many applications
- A convenient handle for easy manual or mechanical removal.

Materials of Construction

Filter Media:

Polyester microfiber filter media provides high particle removal efficiency for high quality filtration with broad chemical compatibility.

No silicone is intentionally used in materials of construction or in manufacturing.

O-rings:

Product Number	Material
7010	FDA Buna N (standard)
7011	Ethylene Propylene Rubber
7012	PTFE encapsulated Silicone
7013	FDA Silicone
7014	Fluoroelastomer

Applications

Prefilters or final filters for:

- Fuel Transfer
 - Diesel Fuel
 - Gasoline
 - Jet Fuel
 - Kerosene
- Hydraulic oil
 - Lubricating oils
 - Machine oils and coolants
 - Completion fluids
 - Carbon beds
- Desalination
 - Organic solvents
- + Other chemically compatible applications

(It is recommended that you contact your distributor or 3M to obtain polyester samples for evaluating chemical compatibility.)

Performance Data

Loading Capacity

Product Number	PERP-747-KF	PERP-749-KF
Pound at 40 gpm	14.9	25.0
Kilograms at 9cu m/hr	6.7	11.3

Loading: The data above shows typical loading capacities of the different micron rated filters. Loading capacity is determined by challenging a filter with a dispersion of silica test dust in water at the recommended flow rate. Pressure drop is monitored and testing is terminated at 50 psid (3.4 bar). The loading capacity reported is the dry weight gain of the cartridge.

Particle Removal Efficiency (microns)

Product Number	PERP-747-KF	PERP-749-KF
Efficiency @ 99%	20	60
Efficiency @ 95%	13	38
Efficiency @ 90%	11	30
Efficiency @ 75%	8	19
Efficiency @ 50%	5	12

Efficiency: The 3M™ High Flow Filter Cartridges are rated using a silica test challenge in water at 40 gpm (9 cu m/hr). The results reported are typical initial efficiencies taken within ten minutes of the start of the test. For more information on how 3M conducts its filter efficiency testing, please contact Filtration Products Technical Service at 1-800-648-3550.

Clean Pressure Drop versus Flow Rate (psid)

Product Number	PERP-747-KF	PERP-749-KF
Δp @ 20 gpm	0.1	0.1
Δp @ 40 gpm	0.2	0.2
Δp @ 60 gpm	0.4	0.4
Δp @ 80 gpm	0.5	0.5

Pressure Drop: The 3M™ High Flow Filter Cartridges have low initial pressure drop (Δp) in water as the chart indicates. The chart does not include the pressure drop of the vessel.

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Product Specifications

Micron Ratings:

Product Number	Initial Efficiency
PERP-747-KF	20 micron @ 99%
PERP-749-KF	60 micron @ 99%

Dimensions (nominal):

Outer Diameter:	6.5 inches	16.5 cm
Inside Diameter:	1.6 inches	4 cm
Length:	39 inches	100 cm
226 O-ring Inside Diameter:	2 inches	5 cm
226 O-ring Thickness:	0.14 inches	0.35 cm

Operating Conditions:

Maximum Operating Temperature*:	240F	115C
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*Check compatibility charts or conduct a soak test for specific fluids.

Recommended Flow: (in water)	40 gpm	9 cu m/hr
Suggested Maximum Flow: (in water)	80 gpm	18 cu m/hr

Suggested Maximum Differential Pressure:	50 psid	3.4 bar
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Disposal of used filters must comply with applicable federal, state and local laws and regulations.

Order Information

To order contact your local 3M Filtration Products

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