LOFPLEAT™ HF high flow filter cartridges

Eaton's LOFPLEAT HF filter cartridges can be used in a variety of applications where high flow capacity is required including chemical and water systems.

LOFPLEAT HF filter cartridges are designed with pleated polypropylene construction to provide a high total surface area. A single LPHF cartridge can replace several standard cartridge elements. Change-outs are quick and easy. Unlike standard design cartridges, the flow is inside out. The result is higher dirt-holding capacity.

Features and benefits

- Higher flow capacity reduces required number of cartridges
- Lower initial costs with smaller filter housings
- Less labor required for change-outs
- Inside-out flow for greater dirt-holding capacity
- Capable of flow rates up to 1893 l/min in a single 60" length
- Can be retrofitted in most competitive high-flow housings

Specifications

Filter material
Polypropylene

Cage, end caps
Polypropylene

Gaskets/O-rings
EPDM (standard), FKM

Retention ratings
1, 5, 10, 20, 40, 60 µm
@ 99.9% efficiency

Technical data

Nominal lengths
20", 40", 60" (508, 1016, 1524 mm)

Outside diameter
6" (152 mm)

Surface area
22.6 ft² (2.1 m²) per 20" element

Max. operating temperature
176 °F (80 °C)

Max. differential pressure
43 psid @ 70 °F (3.0 bar @ 21 °C)

Recommended differential change-out pressure for disposal
35 psid (2.4 bar)

Max. flow rates
20" element: 175 USGPM (662 l/min)
40" element: 350 USGPM (1325 l/min)
60" element: 500 USGPM (1893 l/min)

peiro, s.a.

Efficiency of retention

Betaverhältnis Filtereffizienz	Beta 1000 99.90 %	Beta 100 99 %	Beta 10 90 %
1 µm	1	0.6	0.2
5 µm	5	4	3
10 µm	10	8.5	6.5
20 µm	22	19	14
40 µm	38	18	15
60 µm	60	35	20

$$\text{Beta ratio} = \frac{\text{Upstream particle counts}}{\text{Downstream particle counts}}$$

The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters.

Element pressure drop

	mbar/m³/h			psid/gpm		
	20"	40"	60"	20"	40"	60"
1	5.5150	2.1900	1.6350	0.0182	0.0072	0.0054
5	4.7350	1.5800	1.0950	0.0156	0.0052	0.0036
10	2.5650	1.0600	0.7350	0.0084	0.0035	0.0024
20	2.0350	0.5400	0.3450	0.0067	0.0018	0.0011
40	0.9450	0.4050	0.2600	0.0031	0.0013	0.0009
60	0.6500	0.3050	0.1650	0.0021	0.0010	0.0005

Note: For chemical compatibility, flow rates, and temperature requirements please consult the factory or your local Eaton distributor.

Ordering code

Nominal lengths
-20: 20"
-40: 40"
-60: 60"

Gaskets or O-rings
-E: EPDM
-V: FKM

LPHF | -20 | -1 | -V

Filter type
LPHF:
LOFPLEAT HF

Retention ratings
-1: 1 µm
-5: 5 µm
-10: 10 µm
-20: 20 µm
-40: 40 µm
-60: 60 µm

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