



## 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 ft<sup>2</sup> (2.1 m<sup>2</sup>) 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)

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## 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.

## Ordering code

### Nominal lengths

-20: 20"  
-40: 40"  
-60: 60"

### Gaskets or O-rings

-E: EPDM  
-V: FKM



**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

## 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.

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