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
- Available with absolute rated filter material at 1, 3, 5, 10, 20, 40, 60 and 100 µm retention ratings
- Inside-out flow for greater dirt-holding capacity
- Capable of flow rates up to 1,892.5 l/min in a single 60" length
- Can be retrofitted in most competitive high-flow housings
- FDA listed (U.S. CFR, Title 21) materials of construction for food and beverage contact

Design

Filter material
Polypropylene

Cage, end caps
Polypropylene

Gaskets/O-rings
EPDM (standard), silicone, Buna-N, fluorelastomer

Retention ratings
1, 3, 5, 10, 20, 40, 60, 100 µm @ 99.9% efficiency

Technical data

Nominal lengths
20", 40", 60" (50.8, 101.6, 152.4 cm)

Outside diameter
6" (152.4 cm)

Surface area
2.4 m² per 20" element

Max. operating temperature
71 °C

Max. differential pressures
2.1 bar @ 71 °C
3.4 bar @ 25 °C

Recommended differential change-out pressure for disposal
2.4 bar

Max. flow rates
20" element: 662 l/min
40" element: 1,325 l/min
60" element: 1,892 l/min

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Element pressure drop

	mbar/m³/h		
µm	20"	40"	60"
1	6.0845	2.9395	1.9820
3	5.0705	2.4495	1.6516
5	2.3179	1.1198	0.7550
10	1.3908	0.6719	0.4530
20	0.6374	0.3079	0.2076
40	0.5215	0.2520	0.1699
60	0.4442	0.2199	0.1483
100	0.3035	0.1466	0.0989

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

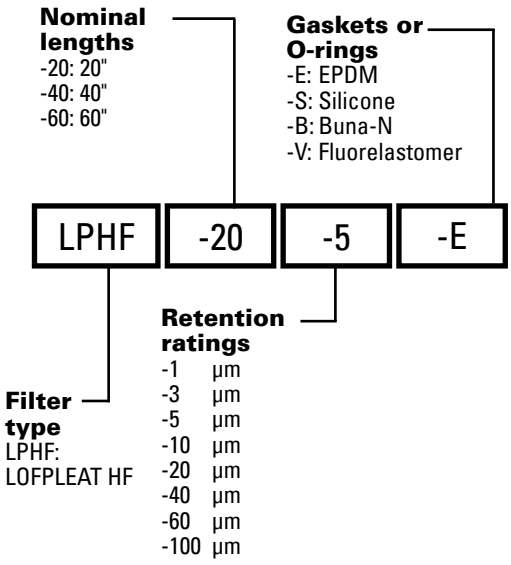
Efficiency of retention

Beta ratio efficiency of retention	Beta 1000 99.90%	Beta 100 99%	Beta 10 90%
1 µm	1	0.6	0.2
3 µm	3	2	1.5
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
100 µm	100	75	45

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

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. Testing was conducted using the single-pass test method, water at 9.46 l/min/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

Ordering code



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10-2016

Contact your **authorized Eaton distributor** today:
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