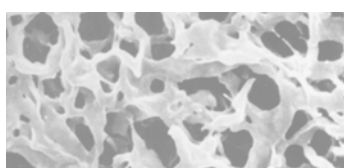


# EPM.F (KFM.F)

## Hydrophobic fluoroplastic membrane Filter Cartridges and Capsules

For fine filtration of air, gases, aggressive liquids



### Description

EPM.F membrane filter cartridges are produced on the basis of the fluoroplastic hydrophobic membrane with the micron rating of 0.45-0.8  $\mu\text{m}$ . Filter cartridges have high throughput and chemical resistance to acids and solvents. Recommended to use for fine filtration of gaseous media and aggressive fluids.

### Materials

Membrane	Hydrophobic PVDF, PTFE + PVDF
Prefilter membrane	Hydrophobic PVDF, PTFE + PVDF
Draining layer	Polypropylene
Body, end parts	Polypropylene
O-rings	Silicone (other materials available)

### Integrity test values of EPM.F with the height of 250 mm

Brand	Bubble point (water), MPa (bar)
EPM.F-/045	0.036 [0.36]
EPM.F-/065	0.03 [0.3]
EPM.F-/080	0.02 [0.2]

### Operational parameters

Maximal differential pressure	0.5 MPa at 20 °C, 0.2 MPa at 80 °C (Filter Cartridges) 0.4 MPa at 20 °C, 0.2 MPa at 60 °C (Capsules)
Maximal operational temperature	80 °C (Filter Cartridges)
Recommended gas flow rate (at 7 bar) for the cartridge of 250 mm height	300

### Sterilization and washing

Autoclaving	121 °C, 0.12 MPa, 30 min, 50 cycles (Filter Cartridges) 121 °C, 0.12 MPa, 30 min, 10 cycles (Capsules)
Steam sterilization*	121 °C, 0.12 MPa, 30 min, 10 cycles

\* Only for filter cartridges

## Specifications

### Micron rating

#### prefilter/filter

0.65/0.45 µm  
 0.65 µm  
 0.8/0.45 µm  
 0.8 µm

### Nominal Dimensions and Filter Areas

#### Filter Cartridges

H, mm	D, mm	S, m <sup>2</sup>
100 (4")	70	0.23
250 (10")	70	0.62
500 (20")	70	1.24
750 (30")	70	1.86
1000 (40")	70	2.48

#### Capsule filters

H, mm	D, mm	S, m <sup>2</sup>
250 (10")	94	0.62
125 (5")	92	0.3
60 (2,5")	92	0.12

**H** - height  
**D** - diameter  
**S** - filtration surface area

## Filter Cartridges ordering information

EPM.F	065	D1	500	M
Brand	Micron rating	Adapter code	Cartridge height	Application
	<b>Code</b>	A	100 mm (4")	M - medicine and biopharmaceutical industry
	065/045 0.65/0.45 µm	D	125 mm (5")	
	065 0.65 µm	D1	250 mm (10")	P - food industry
	080/045 0.80/0.45 µm	A1	500 mm (20")	
	080 0.80 µm	A4	750 mm (30")	E - microelectronics industry
		B	1000 mm (40")	
		B(SI)		

## Capsules ordering information

KFM.F	065/045	K	60
Brand	Micron rating	Connection type	Cartridge height
	<b>Code</b>	K - sanitary flange connection	60 mm
	065/045 0.65/0.45 µm		125 mm
	065 0.65 µm	P - thread tapered connection	250 mm
	080/045 0.80/0.45 µm		
	080 0.80 µm		