



# MH series

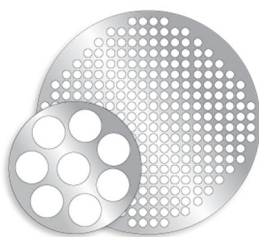
**FILTERING CARTRIDGES  
NOMINAL - MELT-BLOWN  
OD 4.5"-6" (110-152 mm)**

## MAIN APPLICATIONS:

- DESALINATION
- WATER TREATMENT
- FINE CHEMICAL
- PETROCHEMICAL
- OIL & GAS
- FOOD & BEVERAGE
- POWER GENERATION
- PAINT AND RESINS
- PHARMACEUTICAL
- MICROELECTRONIC
- GALVANIC
- HYDRAULIC
- STEEL MILL
- GENERAL INDUSTRY

## CHARACTERISTICS:

- Large diameter to permit high flow-rate
- Low cost disposal of the exhausted elements
- Depth filtration
- 100% pure polypropylene or nylon
- Nominal filtration rating
- Graded density filtration matrix
- High dirt holding capacity
- Resistant to contaminant unloading even at high Delta-P
- Filtration direction from out to in for standard design
- Filtration direction from in to out for high-flow (HPF) design
- Three size and seven filtration rating available
- Wide range chemical compatibility
- Suitable for both liquid and gas filtration
- Surfactant, binder and adhesive free construction
- Cut end style without gaskets
- Available also with high-flow style (HPF) end caps
- FDA CFR Title 21 and NSF42 approved polypropylene
- 1935/2004/CE certification available upon request
- Nominal filtration rating from 1 to 150  $\mu\text{m}$



MHF and MHL filtering cartridges are designed to minimize the filter housing size.

One MHL filter cartridge is equivalent to:

- 8 standard melt-blown filter cartridges
- 5 standard pleated cartridges
- 1.5 size 2 filter bags

One MHF filter cartridge is equivalent to:

- 6 standard melt-blown filter cartridges
- 3 standard pleated cartridges
- 1 size 2 filter bag

# ASCO FILTRI

a **mott** company



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## TECHNICAL DATA

### MAX. WORKING TEMPERATURE

MHL-MHF	80 °C max.
MHN	130 °C max.
MHE	60 °C max.

### DIFFERENTIAL PRESSURE

#### Cartridge replacement:

2.0 bar @ 25 °C

#### Max. allowable:

MHL-MHF	3.5 bar @ 40 °C
	1.0 bar @ 82 °C
MHE	3.0 bar @ 30 °C
	1.0 bar @ 60 °C
MHN	4.0 bar @ 32 °C
	1.0 bar @ 130 °C

### CONSTRUCTION MATERIAL

#### Filter media:

- MHL, MHF, MHE: PP
- MHN: Nylon

#### End caps High-Flow style:

- Polypropylene
- Nylon

### DIMENSIONS

#### MHL-MHN:

OD 152 - ID 114 mm

#### MHF:

OD 110 - ID 80 mm

#### MHE:

OD 75 - ID 40 mm

#### Length:

MHL-MHN	20", 40", 60"
MHF	20", 40"
MHE	10", 20", 30", 40"
High-flow	20", 40", 60"

### FILTERING AREA

MHL-MHN 20":	0.24 m <sup>2</sup>
MHL-MHN 40":	0.48 m <sup>2</sup>
MHL-MHN 60":	0.72 m <sup>2</sup>
MHF 20":	0.17 m <sup>2</sup>
MHF 40":	0.34 m <sup>2</sup>
MHE 10":	0.06 m <sup>2</sup>
MHE 20":	0.11 m <sup>2</sup>
MHE 30":	0.17 m <sup>2</sup>
MHE 40":	0.22 m <sup>2</sup>

### Flow-rate / Delta-P:

Filtration (µm)	Liquids (1 cP)				Air (0.018 cP)		
	MHL	MHN	MHF	MHE	MHL/MHN	MHF	MHE
1	12	12	10	1.5	250	150	50
5	24	24	15	1.8	300	180	65
10	28	28	20	2.2	360	200	68
20	36	36	25	2.5	550	300	70
≥ 40	55	55	30	2.5	900	450	70

Liquids flow-rate (m<sup>3</sup>/h) - Clean Delta-P 0.1 bar

MHL - MHN - MHF: Flow-rate for 40" cartridges - MHE: flow-rate for 10" cartridges

Air flow-rate (Am<sup>3</sup>/h) - Clean Delta-P 0.06 bar

For gas different than air: DP = 0.1 x gas viscosity (cP) / 0.018 cP (air).

Flow-rate valid for clean water and air, reduce the flow-rate according to the application.

### Available filtration rating / length:

Series	Filtration (µm)										
	1	3	5	10	20	25	40	50	75	100	150
MHL	X	X	X	X	X		X	X	X	X	X
MHF	X	X	X	X	X		X	X	X	X	X
MHE	X		X	X	X						
MHN	X	X	X	X	X		X	X	X	X	

Series	Length				
	10"	20"	30"	40"	60"
MHL		X		X	X
MHF		X		X	
MHE	X	X	X	X	
MHN		X		X	X

Contact us for any further information.

We reserve the right to change the data of this specification without notice.

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