



DESCRIPTIONS

HM depth cartridge filter is made of Silicone-Free Non Foaming Pure Polypropylene media. Provides broad range of chemical compatibility.

FDA Code Of Federal Regulation Title 21 compliances material suitable for food and beverage use.

Low pressure drop with extensive life span due to its coreless and rigid structure design. Thus, do not impede the flow rate as normally found in the conventional filter.

HM is the economical and high purity filter cartridge for various types of applications.

HM features a graded density matrix of all Polypropylene fibers that provides consistent filtration for wide variety of fluids.

Continuous fiber matrix prevents media migration and improves production yield, overall quality and performance.

Fixed pore structure enhances efficiency integrity and optimizing particle retention capacity.

HM is thermally bonded without the use of surfactant, binders and adhesives. Thus, provides superior filtration results and eliminates the need for circulation to achieve product clarity.

Thermally imposed tiny grooves pattern of **HMI** and **II** provide reinforcement to the media surface ensures even water distribution, lower pressure drop and prolong life span of filter.

High density matrix structure allows for high pressure filtration than conventional type depth filter.

Rugged surface of **HMI** with 'Crystal' likes structure design increases effective filtration area and suitable for viscous (<500cP) application.

Nominal micron rating of 0.5, 1, 3, 5, 10, 25, 50, 75, 100 & 150 micron.

Sealed in individual poly bag.

A guarantee quality product (ISO 9001 certified).

SPECIFICATIONS

NOMINAL MICRON RATING

0.5, 1, 3, 5, 10, 25, 50, 75, 100 & 150 micron

NOMINAL LENGTH

125, 250, 500, 750, 1000, 1250, 1500 mm or 127, 254, 508, 762, 1016, 1270, 1524 mm

Note: Until 60 Inches.

NOMINAL INNER/OUTER DIAMETER (ID/OD)

HMI : 28/ 63 mm

HMII : 28/ 65 mm

HMIII : 28/ 63 mm

Note: 30mm inner diameter is available upon request.

MEDIA MATERIAL

Melt Blown Micro-Denier & High Density Silicone Free Pure Polypropylene Fibers.

END STYLE

- | | |
|----------|------------------------------------|
| 1) DOE | : Double Opened End (End Hardened) |
| 2) SOE | : Single Opened End |
| i) S2C | : SOE, 222 O-Ring With Closed End |
| ii) S2F | : SOE, 222 O-Ring With Finned End |
| iii) S6C | : SOE, 226 O-Ring With Closed End |
| iv) S6F | : SOE, 226 O-Ring With Finned End |

GASKET MATERIAL (OPTIONAL)

- | | |
|-------|--------------------|
| 1) PE | : PE Foamed Gasket |
|-------|--------------------|

Note: For filter with DOE style only.

O-RING MATERIAL (OPTIONAL)

- | | |
|-------------|------------|
| 1) Standard | : EPDM |
| 2) V | : Viton |
| 3) S | : Silicone |
| 4) T | : Teflon |

Note: For filter with SOE style only.

OPERATING CONDITIONS

MAX. DIFFERENTIAL PRESSURE

2.1 Bar (30 PSID) at 60°C

2.8 Bar (40 PSID) at 30°C

MAX. OPERATING TEMPERATURE

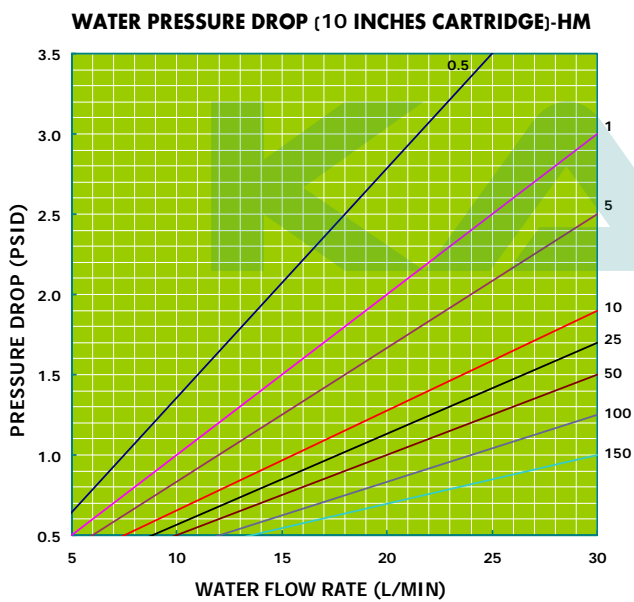
80°C at 10 PSID

CHANGE OUT DIFFERENTIAL PRESSURE

2.4 Bar (35 PSID)

APPLICATIONS

Bulk Chemicals	Acids, Bases, Organic Solvents, Plating Solutions, Magnetic Paints, etc.
Food And Beverages	Wine, Potable Water, Beer, Soft drink, Brewery, Sugar, Edible oils, Syrup, Bottled water, Distilled spirits, etc.
Electronic	Etching Solution, Electroplating, Pre-filtration For R.O. And D.I. system, etc.
Oil And Gas	Amines, Glycols, Condensate, Lubricating Oils, etc.
Cosmetics	Toiletries, Perfumes and colognes, Lotions, Ointments, Shampoos, Body Rinses, Mouthwashes, Toothpaste, Creams, etc.
Biological	Vaccine preparation, Serum & serum fraction, Tissue culture media, etc.
Film And Fiber	Monomers, Slurry additives, Delusterants, Slip agents, Spin finishes, Aqueous salt solution, etc.
Pharmaceutical	Ophthalmic, Oral medications, Small & large volume parenterals, Oral and topical medicines, etc.
Chemical & Petrochemical	Polymers, Glycols, Photo-resists, Deep disposal well fluids, Mono-ethanol-amine and Di-ethanol-amine for gas scrubbing, Acids, Bases, Polishing products, etc.
Power Generation Industries	Steam generator blow-down pre-filter, Waste water, Make-up water.
General	Adhesive, Audio and videotape, Automotive paints, Computer tape coatings, Floppy disc coatings, etc.



PARTICLES REMOVAL RATING

EFF. MICRON	$\beta = 1000$ (99.9%)	$\beta = 100$ (99.0%)	$\beta = 10$ (90.0%)
0.5	9.0	2.4	1.1
1	11.5	4.3	1.9
3	15.0	7.3	3.8
5	18.2	9.1	5.9
10	21.0	13.0	10.2
25	25.0	21.0	15.3
50	49.5	41.0	21.4
75	73.0	52.0	25.3
100	97.0	64.0	35.1
150	137.0	82.0	61.0

The removal efficiency was obtained using specific testing ISO standard dusts.

ORDERING GUIDE : KAREI - HM (A) - (B) - (C) - (D) - (E)

(A) TYPE	(B) MICRON	(C) LENGTH	(D) END STYLE	(E) GASKET MATERIAL
I : Grooved	05 : 0.5	125, 250, 500, 750, 1000, 1250, 1500 mm	None : DOE (End Hardened) PE : DOE (PE Foamed Gasket) S2C : SOE, 222 O-Ring & Closed End S2F : SOE, 222 O-Ring & Fin End	None : EPDM V : Viton S : Silicone T : Teflon
II : For Viscous Applications	25, 50, 75, 100, 150	127, 254, 508, 762, 1016, 1270, 1524 mm	S6C : SOE, 226 O-Ring & Closed End S6F : SOE, 226 O-Ring & Fin End	Note : Apply to SOE end style only.
III : Rugged				

EXAMPLE:

- 1) KAREI-HMI-05-1016 (HM, Type I, 0.5 um, 1016mm, DOE, End Hardened)
- 2) KAREI-HMI-10-508-PE (HM, Type I, 10 um, 508mm, DOE, PE Foamed Gasket)
- 3) KAREI-HMII-5-500-S2C (HM, Type II, 5 um, 500mm, 222 EPDM O-Ring With Closed End)

Note: We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the applications. Users are advised to make their own testing under actual condition to determine the safety and suitability of each product or product combination for their own purposes and applications. Buyers and users assume all responsibility for liability performance or damage. We reserve the entire right to modify the information without prior notice due to continuous R & D.