DELUXE WOUND SILICONE FREE DEPTH FILTER

KAREI™ DWF Series

DESCRIPTIONS

The new generation of wound cartridges, DWF signifies a major advancement in wound cartridge performance and technology.

By combining an enhanced open wind process with an internal media blanket provides superior flow rates, greater filtration efficiency and more consistent filtration characteristics.

Advanced winding pattern of yarn matrix combined with unique process of applying media blanket creates much larger dirt holding chamber and provides integrity of filtration.

True graded density with coarser filtration on the outer and fine & higher efficient filtration on the inner layer on the cartridge provides higher filtration efficiency, high dirt holding capacity, very low pressure drop and higher flow rates.

Made of FDA CFR Title 21 listed materials ensure process and system stability. Suitable for food & beverage and many other applications.

Very low amount of extractable with non media migration than conventional filter cartridges due to its hygiene manufacturing process and robust structure.

Unique winding pattern combined with the unique media blanket produces more rigid structure, provides up to 2.5 times more effective open area and enhanced flow of up to 5 times for the same ΔP than conventional wound cartridge filter. Results in longer service life and more cost effective filtration.

Available in nominal rating of 0.5 to 350 micron with choice of yarn matrix, blanket and core material. Thus, provides wide range of chemical compatibility.

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, 125, 150, 200, 300 & 350

NOMINAL LENGTH

125, 250, 500, 750, 1000, 1250 mm or
127, 254, 508, 762, 1016, 1270 mm
Note: Until 50 Inches.

NOMINAL INNER/OUTER DIAMETER (ID/OD)

Standard	: 28/ 57 mm
M	: 28/ 60 mm
L	: 28/ 63 mm

Note: 30mm inner diameter is available upon request.

MEDIA MATERIAL

Type A	: Pure Polypropylene Yarn & Blanket
Type B	: Cotton Yarn & Blanket

INNER CORE AND END ADAPTOR MATERIAL

1) Pure Polypropylene
2) Reinforced Polypropylene With Glass
3) SUS 304
4) SUS 316
5) Tin Plated Steel

END STYLE

1) DOE	: Double Opened End
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

O-RING MATERIAL

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

Note: For filter with SOE style only.

OPERATING CONDITIONS

MAX. FORWARD DIFFERENTIAL PRESSURE

PP yarn matrix and blanket	: 70°C
Cotton yarn matrix and blanket	: 125°C

MAX. OPERATING TEMPERATURE

4.8 Bar (70 PSI) at 70°C

CHANGE OUT DIFFERENTIAL PRESSURE

2.4 Bar (35 PSID)

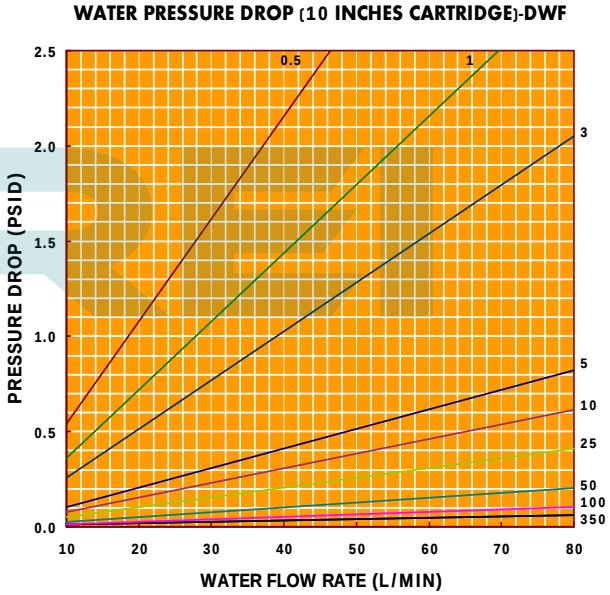
APPLICATIONS

Highly Recommended	Photographic emulsions, paints, inks, oils applications.
Food And Beverages	Wine, Corn syrup, Edible oils, Bottled water, Beer, Soft drinks, Distilled spirits, etc.
Electronic	Photo-resists, Pre & post-filtration for RO & DI water system.
Veterinary	Parenterals, Therapeutic Area, 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, Pre-filtration for RO and DI system, Water, Pre and final demineralization, etc.

PARTICLES REMOVAL RATING

MICRON	EFFICIENCY
0.5	<80%
1	< β=10 (90%)
3	< β=10 (90%)
5	β=10 (90%)
10	β=10 (90%)
25	> β=10 (90%)
50	β=100 (99%)
75	β=100 (99%)
100	β=100 (99%)
125	> β=100 (99%)
150	> β=100 (99%)
200	> β=100 (99%)
300	> β=100 (99%)
350	> β=100 (99%)

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



ORDERING GUIDE

KAREI – DWF – [A] – [B] – [C] – [D] – [E] – [F]

[A] MICRON	[B] LENGTH	[C] TYPE	[D] MATERIAL	[E] END STYLE	[F] O-RING MATERIAL
05 : 0.5 1, 3, 5, 10, 25, 50, 75, 100, 125, 150, 200, 300, 350	125, 250, 500, 750, 1000, 1250 mm 127, 254, 508, 762, 1016, 1270 mm	None: Standard M: 28/60mm L : 28/63mm	None: PP Yarn & Blanket C : Cotton Yarn & Blanket	None : DOE S2C : SOE, 222 O-Ring & Closed End S2F : SOE, 222 O-Ring & Fin End S6C : SOE, 226 O-Ring & Closed End S6F : SOE, 226 O-Ring & Fin End	None : EPDM V : Viton S : Silicone T : Teflon Note : Apply to SOE end style only.

EXAMPLE:

1) KAREI-DWF-5-250 (DWF, 5 um, 250mm, Standard PP Yarn & Blanket, DOE)

2) KAREI-DWF-1-508-LC-S6C (DWF, 1 um, 508mm, 28/63mm, Cotton Yarn & Blanket, 226 EPDM O-Ring With Closed End)