

ZenCap[®] Full Size Standard Grade Capsules

10"-40" Disposable Process Filtration

ZenCap[®] standard grade capsule filter assemblies are ready-to-use, full size filters that offer high flows, increased throughputs, high strength, all with the convenience and cleanliness of a disposable and easy-toinstall filter assembly. Designed for pre-filtration, clarification, and final filtration in the food and beverage, chemical, DI water and other industries.

ZenCap[®] capsule assemblies are available with a wide range of hydrophilic and hydrophobic filter media and pore sizes for liquid, gas, and venting applications. Engineers can choose from 17 filtration medias to create any combination of *integrated* filtration train. These will allow for a disposable process to become truly flexible, clean, and optimal.

They can be built in a T-style or In-line configuration with 12 inlet and outlet fitting connections that can be mixed and matched. The filtration shell is an all-polypropylene construction that provides excellent chemical compatibility with low extractables. The shell and supports can also be constructed in nylon, polyethylene or gamma stabilized PP shells for additional compatibility. No adhesives or binders are used in the encapsulation process.



Applications					
Clarification	Water & Wine				
Hard Particle	Food & Beverages				
Cell Removal	Industrial				
Chemicals	Biologic reduction				
Inks, Dyes	Oils, Waters				
Cosmetics	Diagnostics				

Specifications

Materials of Construction: (Standard Option)	Media Supports: F Cage, Core, End Caps: F O-Rings: S	Multiple media Polyester Polypropylene or Nylon Silicone Thermal End Capping				
Fitting Connections:	See ordering guide for the availability. (Custom adaptors available upon request)					
Nominal Dimension:	Length: 10", 20", 30", 40" Diameter: 3.54" (90 mm)					
Effective Filtration Area: (Single Layer/PP Construction)	Media Dependent.					
Operating Conditions:	Maximum Operating Pressure:Liquid: 5.5 bar (80 psi) at 72 °F/22 °C Gas: 4.1 bar (60 psi) at 72 °F/22 °CMaximum Forward Differential Pressure:5.0 bar (72 psi) at 72 °F/22 °CMaximum Reverse Differential Pressure:3.0 bar (44 psi) at 72 °F/22 °C					
	Minimum Burst Pressure: Maximum Operating Tempe	8.3 bar (120 psi) at 72 °F/22 °C erature: PP & Gamma PP: 176 °F/80 °C HDPE: 140 °F/60 °				

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	Pore Size									
Cellulose Acetate (A)	Carbon Fiber (C)	Charged Nylon (CN)	Depth Polypropylene (DP)	PTFE (F)	Glass Fiber (G)	Philic PTFE (HF)	Hi Performance PP Media (HP)	PP Membrane (M)	Nylon (N)	
020 = 0.20 µm		005 = 0.05 µm	002 = 0.2 μm	010 = 0.1 μm	U = ULPA	010 = 0.1 µm	001 = 0.1 μm	010 = 0.1 µm	005 = 0.05 µm	
045 = 0.45 µm		010 = 0.10 μm	005 = 0.5 µm	020 = 0.2 µm	H = HEPA	020 = 0.2 µm	002 = 0.2 µm	020 = 0.2 µm	010 = 0.10 µm	
065 = 0.65 µm		020 = 0.20 µm	010 = 1.0 µm	(0.01 µm for gas)	002 = 0.2 µm	045 = 0.45 µm	003 = 0.3 µm		020 = 0.20 µm	
080 = 0.80 µm		045 = 0.45 µm	015 = 1.5 µm	045 = 0.45 µm	004 = 0.45 µm	100 = 1.0 µm	006 = 0.6 µm		045 = 0.45 µm	
120 = 1.20 µm		065 = 0.65 µm	025 = 2.5 µm	100 = 1.0 µm	005 = 0.5 µm	300 = 3.0 µm	010 = 1.0 µm		065 = 0.65 µm	
		080 = 0.80 µm	045 = 4.5 µm	300 = 3.0 µm	010 = 1.0 µm	500 = 5.0 µm	030 = 3.0 µm		080 = 0.80 µm	
		120 = 1.20 μm	100 = 10 µm	500 = 5.0 μm	030 = 3.0 µm	999 = 10.0 µm	050 = 5.0 µm		120 = 1.20 µm	
			200 = 20 µm	999 = 10 µm	050 = 5.0 µm		100 = 10 µm			
					100 = 10 µm					
					200 = 20 µm					
					300 = 30 µm					
					Best for Gas Applications					
Natural Glass Fiber (NG)	Nylon Non- Woven Media (NN)	Nylon Screen (NS)	PP Media (P)	Polypro Screen (PS)	Wrapped PP Media (RP)	PES (S)	Polyester Screen (TS)	Polyethylene (UE)		
005 = 0.5 µm	010 = 1 µm	070 = 7 μm	003 = 0.3 µm	10X = 100 µm	003 = 0.3 µm	004 = 0.04 µm	050 = 5 µm	010 = 0.1 µm		
010 = 1.0 µm	030 = 3 µm	100 = 10 µm	006 = 0.6 µm	15X = 150 µm	006 = 0.6 µm	010 = 0.1 µm	070 = 7 µm	020 = 0.2 µm		
030 = 3.0 µm	050 = 5 µm	200 = 20 µm	010 = 1.0 µm	20X = 200 µm	010 = 1.0 µm	020 = 0.2 µm	100 = 10 µm	045 = 0.45 µm		
050 = 5.0 µm	100 = 10 µm	400 = 40 µm	030 = 3.0 µm	30X = 300 µm	030 = 3.0 µm	045 = 0.45 µm	200 = 20 µm	100 = 1.0 µm		
	200 = 20 µm	600 = 60 µm	050 = 5.0 µm	50X = 500 µm	050 = 5.0 µm	065 = 0.65 µm	300 = 30 µm			
		10X = 100 µm	070 = 7.0 μm		100 = 10.0 µm	080 = 0.8 µm	400 = 40 µm			
		20X = 200 µm	100 = 10.0 μm		200 = 20.0 µm	120 = 1.2 µm	600 = 60 μm			
		25X = 250 µm	200 = 20.0 µm		300 = 30.0 µm		730 = 73 µm			
		30X = 300 µm	300 = 30.0 µm		500 = 50.0 μm					
			400 = 40.0 μm		700 = 70.0 μm					
			500 = 50.0 μm							
Best for Liquid			700 = 70.0 μm							
Applications			10X = 100 µm							

ZenCap Standard Grade Capsule Ordering Guide

ZenCap Capsule Series	Configuration	Length	Filter Media	Pore size	Vents **	Input Fitting	Output Fitting	Options	
R	I = In-line*	1 - 10"	A = Cellulosic Acetate	*See Table: I	A = No vents	1QFV = 1/8" Female quick connect with valve for metal latch	1QFV	(1) Prefilter (Add Before	(2) *Construction
(Standard grade)	T = T-line	2 - 20"	C = Carbon Fiber	for pore sizes	B = 1/2" Sanitary vent	1QV = 1/8" Male quick connect with valve for metal latch	1QV	Filter Media In Part#)	(2) construction
90 mm Diameter capsule for full size	Other	4 - 40"	CN = Charged Nylon		down stream 1// " bleed valve	2QFV = 1/4" Female quick connect with valve for metal latch	2QFV	prefilter	Blank = Polypropylene
			DP = Depth PolyPro			2QV = 1/4" Male quick connect with valve for metal latch	2QV		 -E = Polyethylene shell and media support
cartridges	available		F = PTFE		\boldsymbol{D} = 1/2" Sanitary vent, with upstream 1/4" bleed valve	3H = 3/8" Hose barb	3H	media prefilter	
			G = Glass Fiber			4H = 1/2" Hose barb	4H		 -GP= Gamma stable polypropylene shell and
	C = C-line		HF = Hydrophilic PTFE			4Q = 1/2" Male quick connect	4Q	S(pore Size) = PES prefilter	
	S = S-line		HP = Hi Performance PP Media		1/4" bleed valve	5H = 9/16" Hose barb	5H		-NY = Nylon shell and media support
	L = L-line		M = PolyPro Membrane		F = Inlet and outlet 1/4" bleed valve	6H = 3/4" (19 mm) Hose barb	6H		
			N = Nylon		G = Inlet 1/4" bleed valve	8H = 1" (25 mm) Hose barb	8H		-WP = White polypropylene shell and polypropylene
			NG = Natural Glass Fiber		H = Outlet 1/4" bleed valve	MT = 1/2" Tri clamp	MT		media support
			NN = Nylon Non-Woven Media		N = No vent or drains	RM = 1/2" Tri clamp with full SS insert ring	RM		
			NS = Nylon Screen			RT = 1 ½" Tri clamp with full SS insert ring	RT	(3) O-Rings	(4) Sterilization
			P = PolyPro Media			R2 = 2" Tri clamp with full SS insert ring	R2	(o) o nings	
			PS = PolyPro Screen			SM = ½" Tri clamp with SS insert ring	SM	Blank = 0-ring silicone	-ETO = Ethylene oxide sterilization
			RP = Wrapped PolyPro Media			ST = 1 1/2" Tri clamp with SS insert ring	ST	(standard)	
			S = PES			S2 = 2" Tri clamp with SS insert ring	S2	-OE = O-ring EPDM	
			TS = Polyester Screen			TC = 1 ½" Tri clamp	тс	-ON = O-ring Nitrile	
			UE = Polyethylene			T2 = 2" Tri clamp	Т2	-OV = O-ring Viton	
			* = Empty shell		Note: Option A, B, C, D &E not for In-line				
**For all T-line capu	ules: ¼" upstream	n drain val	ve standard (except option N) a	nd ¼" downstrea	m vent valve standard (except option A, B, D	, G)			
Example - ZenCap	R Series Capsule	, T-line, P	ES 0.45 µm,/0.2 µm, 20" filter,	with all vent and	drains, 1.5" Tri clamp fittings I/O, would be I	RT2S045020CTCTC			
*Fittings installed by	threaded connec	tion. All o	thers are thermally bonded to or	molded on shell					

Note: Quick couplings are compatible with CPC (Colder), LinkTech, and others.

Your Local Distributor:

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