

ZenPure

Zen Cap® Z Style Full Size Capsules

10"-40" Disposable Process Filtration

ZenCap® Z style 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-to-install filter assembly. Designed for pre-filtration, clarification, and final filtration of medium to large scale batches (100L to 5000L), in the pharmaceutical, biotechnology, food and beverage, medical, chemical, and DI water.

ZenCap® Z Style capsule assemblies are available with a wide range of hydrophilic and hydrophobic filter media and pore sizes for liquid, gas, and venting applications. Process engineers can choose from 4 filtration medias to create any combination of **integrated** filtration train. These will allow the disposable processing 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, binders, or surfactants are used in the manufacturing process.



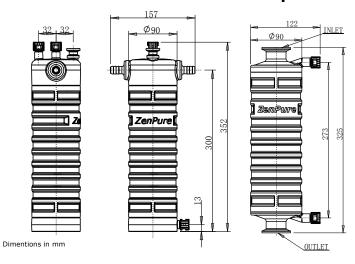
Applications					
Clarification	Water & Wine				
Hard Particle	Food & Beverages				
Cell Removal	Pharmaceuticals				
Chemicals Biologics					
Inks, Dyes	Oils, Waters				
Cosmetics Diagnost	ics				

Specifications

Materials of Construction: Media	Media: Charged Nylon, Hydrophilic PTFE, Nylon, and PES Supports: Polyester Shell, Cage, Core: Polypropylene End Caps: Nylon Sealing: Thermally bonded
Fitting Connections:	12 Fittings - See Ordering Guide for availability. (Custom adaptors available upon request)
Nominal Dimensions:	Lengths: 10", 20", 30", 40" Diameter: 3.54" (90mm)
Effective Filtration Area:	See Cartridge Datasheet for more information (Dependent on Media)
Available Ratings:	0.04um - 10.0um (Dependent on Media)
Operating Conditions:	Maximum Operational Pressure: Liquid: 5.5 bar (80psi) at 72°F/22°C Minimum Burst Pressure: 8.3 bar (120psi) at 72°F/22°C Maximum Forward Differential Pressure: 5 bar (72psi) at 72°F/22°C Maximum Reverse Differential Pressure: 3.0 bar (44psi) at 72°F/22°C Maximum Operating Temperature: PP, Gamma PP & Nylon: 176°F/80°C
Regulatory Compliance:	The filters are constructed with polypropylene resins and filtration media in compliance with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastics.

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Specifications (cont.)

Autoclavable & Sanitizable:

Capsules can be autoclaved 25 times at 257°F/125°C for 30 minutes (5 times for Nylon) or chemically sanitized in situ using common sanitizing agents or hot water at 194°F/90°C for a limited time (dependent on time and temperature). Capsules must not be in situ steam-sterilized.

Bacterial Endotoxin:

Effluent is non-pyrogenic per USP Bacterial Endotoxin (0.25 EU/ml), determined using Limulus Amebocyte Lysate (LAL) Test.

PureFlo ZenCap Z Style Filter Capsule Ordering Guide

ZenCap Capsule Series	Configuration	Length	Filter Media	Pore size (Micron)	Vents **	Input Fitting	Output Fitting	Ор	otions
		1 - 10"	CN = Charged Nylon		A = No vents	1QFV = 1/8" Female Quick conne	1QFV	Shell Material	Prefilters
LZ = Pharma Grade	I = In-Line	2 - 20"	HF = Hydrophilic PTFE	Pick From	B = 1/2" Sanitary vent	1QV = 1/8" Male Quick connect w	1QV	Blank = Polypropylene	-G(pore Size)= Glass
	T = T-Line	3 - 30"	N = Nylon	Pore Size	c = 1/2" Sanitary vent, with	2QFV = 1/4" Female Quick conne	2QFV	-GP = Gamma Stable	Fiber PreFilter
PP Shell & Nylon end-	I - I-Lille	4 - 40"	S = PES	Table	upstream and down stream 1/4"	2QV = 1/4" Male Quick connect w	2QV	Polypropylene	-P(pore Size)= PolyPro
caps					Bleed Valve	3H = 3/8" Hose Barb	3H -N = Nylon		Media PreFilter
Polyester support					D = 1/2" Sanitary vent, with upstream	4H = 1/2" Hose Barb	4H		-S(pore Size) = PES
Fulyesiel support					1/4" Bleed Valve	4Q = 1/2" Male Quick connect	4Q Sterilization		PreFilter
Polypropylene Cage &					E = 1/2" Sanitary vent, with down	5H = 9/16" Hose Barb	5H	-ETO = Ethylene Oxide	
Core					stream 1/4" Bleed Valve	6H = 3/4" (19mm) Hose Barb	6H	Sterilization	
					F = Inlet and Outlet 1/4" Bleed Valve	8H = 1" (25mm) Hose Barb	8H O-Rings		
90mm Diameter					F - Illiet and Outlet 1/4 Bleed valve	TC = 1-1/2" Tri-Clamp	TC	Blank = O-Ring Silicon	
Capsule for full size					G = Inlet 1/4" Bleed Valve	2T = 2" Tri-Clamp	2T	(Standard)	
cartridges					H = Outlet 1/4" Bleed Valve			-OE = O-Ring EPDM	
					Note: Option B,C, D &E not for In-Line			-ON = O-Ring Nitrile	
					Note: Option B,C, D &E not for In-Line			-OV = O-Ring Viton	
	Example 1 - ZenCap LZ Series Capsule, T-Line, PES 0.45um/0.2um, 20" filter, with all vent and drains, 1.5" Tri-Clamp fittings I/O, would be LZT2S045020CTCTC								
Example 2 - ZenCap LZ Series Capsule, In-Line, GF0.5um/PES 0.2um, 10" filter, with all vent and drains, 1.5" Tri-Clamp fittings I/O, would be LZI1G050S020CTCTC									
Notes: For -GP options, to	otes: For -GP options, the standard pleat support will be PET for gamma stability "1/4" Drain bleed Valve standard on all T-Line filters Except for option A						-		

Pore size (Micron)					
Charged Nylon (CN)	Philic PTFE (HF)	Nylon (N)	PES (S)		
005 = 0.05	010 = 0.1	005 = 0.05	004 = 0.04		
010 = 0.10	020 = 0.2	010 = 0.10	010 = 0.1		
020 = 0.20	045 = 0.45	020 = 0.20	020 = 0.2		
045 = 0.45	100 = 1.0	045 = 0.45	045 = 0.45		
065 = 0.65	300 = 3.0	065 = 0.65	065 = 0.65		
080 = 0.80	500 = 5.0	080 = 0.80	080 = 0.8		
120 = 1.20	999 = 10.0	120 = 1.20	120 =1.2		
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904 N. Frederic St. Burbank, CA 91505 www.internationalfilterproducts.com sales@internationalfilterproducts.com Phone: (818) 841-2702 Fax: (818) 841-2947 Corporation or an affiliated company.

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