ZenCap® Full Size Capsules

Pharma Grade

10"-40" Disposable Process Filtration

ZenCap® 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 prefiltration, 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® 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 15 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 nine 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	Diagnostics							

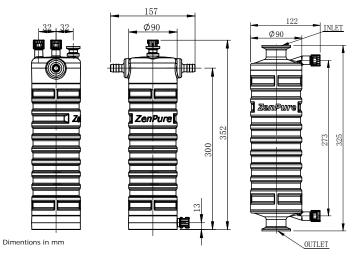
Specifications

Materials of Construction:	Media: Charged Nylon, Depth PP, Polyethylene, PTFE, Glass Fiber, PP Membrane Nylon, Nylon Screen, PP media, PES, and Polyester Screen Media Supports: Polypropylene, PET, Nylon, or HDPE Shell, Cage, Core, End Caps: Polypropylene, Nylon, or HDPE 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 - 200.0um (Dependent on Media)						
Operating Conditions:	Maximum Forward Differential Pressure: Liquid: 5.5 bar (80psi) at 72°F/22°C Gas: 4.1 bar (60psi) 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: 176°F/80°C HDPE: 140°F/60°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 USI						

Class VI Biological Test for Plastics.

ZenPure

ZenCap® Full Size Capsules



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 Filter Capsule Ordering Guide

ZenCap Capsule Series	Configuration	Length	Filter Media	Pore size (Micron)	Vents ** Input Fitting		Output Options Fitting		ions
		1 - 10"	C = Carbon Fiber		A = No vents	1QFV = 1/8" Female Quick connect w/Valve for Metal latch	1QFV	Shell Material	Prefilters
L = Pharma Grade	I = In-Line	2 - 20"	CN = Charged Nylon	Pick From B = 1/2" Sanitary vent		1QV = 1/8" Male Quick connect w/Valve for Metal latch	1QV	Blank = Polypropylene	-G(pore Size)= Glass
	T = T-Line	3 - 30"	DP = Depth PolyPro	Pore Size	c = 1/2" Sanitary vent, with	2QFV = 1/4" Female Quick connect w/Valve for Metal latch	2QFV	-E = Poly ethy lene	Fiber PreFilter
	I = I-LIIIe	4 - 40"	F = PTFE	Table	upstream and down stream 1/4"	2QV = 1/4" Male Quick connect w/Valve for Metal latch	2QV	-GP = Gamma Stable	-P(pore Size)= PolyPro
			G = Glass Fiber		Bleed Valve	3H = 3/8" Hose Barb	3H	Poly propy lene	Media PreFilter
			N = Nylon		D = 1/2" Sanitary vent, with upstream	4H = 1/2" Hose Barb	4H	-N = Nylon	-S(pore Size) = PES
			NG = Natural Glass Fiber		1/4" Bleed Valve	4Q = 1/2" Male Quick connect	4Q	Sterilization	PreFilter
90mm Diameter	Other		NN = Nylon Non-Woven Media		E = 1/2" Sanitary vent, with down	5H = 9/16" Hose Barb	5H	-ETO = Ethylene Oxide	Î
Capsule for full size	configurations		NS = Nylon Screen		stream 1/4" Bleed Valve	6H = 3/4" (19mm) Hose Barb	6H	Sterilization	
cartridges	avalible		P = Poly Pro Media		F = Inlet and Outlet 1/4" Bleed Valve	8H = 1" (25mm) Hose Barb	8H	0-Rings	Î
	C = C-Line		PS = Poly Pro Screen		F = Inlet and Outlet 1/4 Bleed Valve	TC = 1-1/2" Tri-Clamp	TC	Blank = O-Ring Silicon	Î
	S = S-Line		RP = Wrapped Poly Pro Media		G = Inlet 1/4" Bleed Valve	2T = 2" Tri-Clamp	2T	(Standard)	
	L = L-Line		S = PES		H = Outlet 1/4" Bleed Valve			-OE = O-Ring EPDM	
			TS = Polyester Screen		Note Online D.C. D.S. aut. In Line			-ON = O-Ring Nitrile	
			UE = Poly ethy lene		Note: Option B,C, D &E not for In-Line			-OV = O-Ring Viton	
	Exa	mple 1 - Zei	nCap L Series Capsule, T-L	ine, PES 0	.45um/0.2um, 20" filter, with all v	rent and drains, 1.5" Tri-Clamp fittings I/O, would	be LT2S04	45020CTCTC	-
	Exam	ole 2 - ZenC	Cap L Series Capsule, In-Li	ne, GF0.5u	m/PES 0.2um, 10" filter, with all	vent and drains, 1.5" Tri-Clamp fittings I/O, would	d be LI1G0	50S020CTCTC	
Notes: For -For-GP or	ntione the etandard	deat cunnert w	vill be PET for gamma stability		** 1/4" Drain blood Valve s	tandard on all T-Line filters Except for option A			

Pore size (Micron)														
Carbon	Charged	Depth PP	PTFE	Glass Fiber	Nylon (N)	Natural Glass	Nylon Non-Woven	Nylon	PP Media	Polypro	Wrapped PP	PES (S)	Polyester	Polyethylene
Fiber (C)	Nylon (CN)	(DP)	Phobic (F)	(G)	Nylon (N)	Fiber (NG)	Media (NN)	Screen (NS)	(P)	Screen (PS)	Media (RP)	F L3 (3)	Screen (TS)	(UE)
	005 = 0.05	002 = 0.2	010 = 0.1	002 = 0.2	005 = 0.05	005 = 0.5	010 = 1	100 = 10	003 = 0.3	10X = 100	003 = 0.3	004 = 0.04	400 = 40	010 = 0.1
Leave Blank	010 = 0.10	005 = 0.5	020 = 0.2	004 = 0.45	010 = 0.10	010 = 1.0	030 = 3	200 = 20	006 = 0.6	21X = 210	005 = 0.6	010 = 0.1	600 = 60	020 = 0.20
	020 = 0.20	010 = 1.0	045 = 0.45	005 = 0.5	020 = 0.20	030 = 3.0	050 = 5	400 = 40	010 = 1.0	26X = 260	010 = 1.0	020 = 0.2	730 = 73	045 = 0.45
	045 = 0.45	015 = 1.5	100 = 1.0	010 = 1.0	045 = 0.45	050 = 5.0	100 = 10	600 = 60	030 = 3.0	30X = 300	030 = 3.0	045 = 0.45		100 = 1.0
	065 = 0.65	025 = 2.5	300 = 3.0	030 = 3.0	065 = 0.65		200 = 20	10X = 100	050 = 5.0	35X = 350	050 = 5.0	065 = 0.65		
	08.0 = 0.80	045 = 4.5	500 = 5.0	050 = 5.0	080 = 0.80		400 = 40	20X = 200	070 = 7.0	46X = 460	070 = 7.0	080 = 0.8		
	120 = 1.20	100 = 10	999 = 10.0	100 = 10.0	120 = 1.20			25X = 250	100 = 10.0	50X = 500	100 = 10.0	120 = 1.2		
		200 = 20		200 = 20.0					200 = 20.0	98X = 980	200 = 20.0			
				300 = 30.0					300 = 30.0					
				Best for Gas Applications		Best for			400 = 40.0					
					Liquid			500 = 50.0						
						Applications			700 = 70.0					
									10X = 100		ĺ			
									15X = 150					

Your Local Distributor:

ZenPure

North & South Americas: ZenPure Americas, Inc www.zenpure.com Info-us@zenpure.com 703-335-9910 All Other Regions: ZenPure Corporation www.zenpure.com info@zenpure.com +86 571 2288 6800

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