

ZenCap® 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.



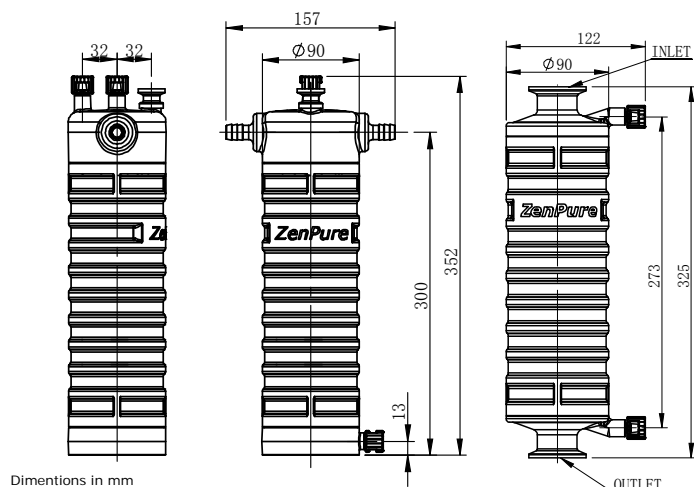
Applications

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

Specifications

Materials of Construction:	Media: Charged Nylon, Hydrophilic PTFE, Nylon, and PES Media 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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Dimensions in mm

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	Options	
LZ = Pharma Grade PP Shell & Nylon end-caps Polyester support Polypropylene Cage & Core 90mm Diameter Capsule for full size cartridges	I = In-Line	1 - 10"	CN = Charged Nylon	Pick From Pore Size Table	A = No vents	1QFV = 1/8" Female Quick connect	1QFV	Shell Material	Prefilters
	T = T-Line	2 - 20"	HF = Hydrophilic PTFE		B = 1/2" Sanitary vent	1QV = 1/8" Male Quick connect w	1QV	Blank = Polypropylene	-G(pore Size)= Glass
		3 - 30"	N = Nylon		C = 1/2" Sanitary vent, with upstream and down stream 1/4" Bleed Valve	2QFV = 1/4" Female Quick connect	2QFV	-GP = Gamma Stable	Fiber PreFilter
		4 - 40"	S = PES		D = 1/2" Sanitary vent, with upstream 1/4" Bleed Valve	2QV = 1/4" Male Quick connect w	2QV	Polypropylene	-P(pore Size)= Poly Pro
					E = 1/2" Sanitary vent, with down stream 1/4" Bleed Valve	3H = 3/8" Hose Barb	3H	-N = Nylon	Media PreFilter
					F = Inlet and Outlet 1/4" Bleed Valve	4H = 1/2" Hose Barb	4H		-S(pore Size) = PES
					G = Inlet 1/4" Bleed Valve	4Q = 1/2" Male Quick connect	4Q	Sterilization	PreFilter
					H = Outlet 1/4" Bleed Valve	5H = 9/16" Hose Barb	5H	-ETO = Ethylene Oxide	
					Note: Option B,C, D & E not for In-Line	6H = 3/4" (19mm) Hose Barb	6H	Sterilization	
						8H = 1" (25mm) Hose Barb	8H	O-Rings	
						TC = 1-1/2" Tri-Clamp	TC	Blank = O-Ring Silicon (Standard)	
						2T = 2" Tri-Clamp	2T	-OE = O-Ring EPDM	
								-ON = O-Ring Nitrile	
								-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, 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)	Phylic 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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