

ZenPure

ZenCap® Full Size Capsules

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 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® 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 12 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



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, Cellulose, 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:	Nine Fittings - See Ordering Guide for availability. (Custom adaptors available upon request)

	(Custom adaptors available upon request)	
Nominal Dimensions:	Lengths: 10", 20", 30", 40"	

	,	
Effective Filtration Area:	See Cartridge Datasheet for more information (De	ependent on Media)

Available Ratings:	0.04um - 200.0um	(Dependent on Media)	

Diameter: 3.54" (90mm)

Operating Conditions:	Maximum Forward Differential Pressure: Liquid: 5.5 bar (80psi) at 77°F/25°C
-----------------------	---

Gas: 4.1 bar (60psi) at 77°F/25°C

Minimum Burst Pressure: 8.3 bar (120psi) at 77°F/25°C

Maximum Forward Differential Pressure: 5 bar (72psi) at 68°F/20°C

Maximum Reverse Differential Pressure: 3.0 bar (44psi) at 68°F/20°C

Maximum Operating Temperature: PP & Gamma PP: 176°F/80°C

HDPE: 140°F/60°C

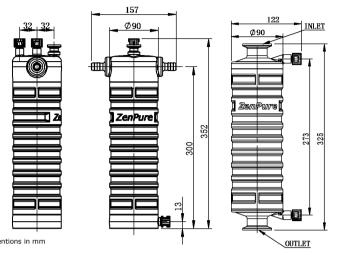
Regulatory Compliance: The filt

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 Riplerical Test for Plantics

Class VI Biological Test for Plastics.

ZenPure

ZenCap® Full Size Capsules



Specification (cont.)

Autoclavable & Sanitizable:

Capsules can be autoclaved once at 125°C for 60 minutes or chemically sanitized in situ using common sanitizing agents or hot water, at 80°C for 20 cycles for 30 min (dependent on time and temperature).

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 Fitting	Construction Material	
		1 - 10"	CN = Charged Ny lon		A = No vents	3H = 3/8" Hose Barb	3H = 3/8" Hose Barb	Blank = Poly propy lene	
L	I = In-Line	2 - 20"	DP = Depth Poly Pro	Pick From	B = 1/2" Sanitary vent	4H = 1/2" Hose Barb	4H = 1/2" Hose Barb	-E = Poly ethy lene	
	T = T-Line	3 - 30"	E = Poly ethy lene	Pore Size	c = 1/2" Sanitary vent, wi	4Q = 1/2" Male Quick connec	4Q = 1/2" Male Quick connec	-GP = Gamma Stable	
		4 - 40"	F = PTFE	Table	upstream and down strea	5H = 9/16" Hose Barb	5H = 9/16" Hose Barb	Poly propy lene	
00mm Diameter Const			G = Glass Fiber		1/4" Bleed Valve	6H = 3/4" (19mm) Hose Barb	6H = 3/4" (19mm) Hose Barb	-N = Ny lon	
90mm Diameter Capsu			M = Poly Pro Membrane		D = 1/2" Sanitary vent, with	8H = 1" (25mm) Hose Barb	8H = 1" (25mm) Hose Barb		
for full size cartridges			N = Ny lon		upstream 1/4" Bleed Valve	4QP = 1/2" Male Quick conne	c4QP = 1/2" Male Quick conne	ct Options	
			NS = Ny Ion Screen		E = 1/2" Sanitary vent, with	TC = 1-1/2" Tri-Clamp	TC = 1-1/2" Tri-Clamp	-ETO = Ethy lene Ox ide	
			P = Poly Pro Media		down stream 1/4" Bleed Valv			Sterilization	
			S = PES		F = Inlet and Outlet 1/4" Blee			Orings	
			TS = Poly ester Screen		Valv e			Blank = O-Ring Silicon	
			CEP = Cellulose with DE*		G = Inlet 1/4" Bleed Valve			(Standard)	
					H = Outlet 1/4" Bleed Valve			-OE = O-Ring EPDM	
					Note: Option B,C, D &E not for			-ON = O-Ring Nitrile	
					In-Line			-OV = O-Ring Viton	

Example 1 - ZenCAP L 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 LT2S045020CTCTC Example 2 - ZenCAP L Series Capsule, T-Line, GF0.5um/PES 0.2um, 10" filter, with all vent and drains, 1.5" Tri-Clamp fittings I/O, would be LT1G050S020CTCTC

lotes: For -Eor-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	Depth PP	Polyethylene	PTFE	Glass Fiber	PP Membrane	Cellulose w/DE	Nylon	Nylon Screen	PP Media	PES	Polyester Screen
020 = 0.20 045 = 0.45 065 = 0.65 080 = 0.80 120 = 1.20	005 = 0.5 $010 = 1.0$ $015 = 1.5$	100 = 1.0 150 = 1.5 250 = 2.5	020 = 0.2 045 = 0.45 100 = 1.0 300 = 3.0 500 = 5.0	010 = 1.0	020 = 0.2	040 = 0.40 050 = 0.50		200 = 20 400 = 40 600 = 60 10X = 100	006 = 0.6 $010 = 1.0$ $030 = 3.0$ $050 = 5.0$ $100 = 10.0$	020 = 0.2 045 = 0.45 065 = 0.65 080 = 0.8 120 = 1.2	400 = 40 600 = 60 730 = 73
** - Does no	t have DE						<u> </u>	1	<u>I</u>		l

International Filter Products
Revolutionary systems for your industry

904 N. Frederic St. Burbank, CA 91505 www.internationalfilterproducts.com sales@internationalfilterproducts.com

Phone: (818) 841-2702 Fax: (818) 841-2947 ZenPure and PureFlo are registered trademarks of ZenPure Corporation or an affiliated company. Copyright 2003-2012 ZenPure or an affiliated company. All rights reserved.

