3M Model ZWB Sanitary Filter Housing



ZWB sanitary design cartridge housings provide the ultimate for critical clarification and sterile filtration applications. Manufactured to the strictest of standards and from high quality 316L stainless steel, the ZWB mirror polished filter housing is designed to meet the exacting quality standards of the pharmaceutical, food and beverage, fine chemical, and microelectronics industries.

The ZWB series are multi-cartridge housings designed to accommodate three (3), five (5), eight (8) or twelve (12) sanitary style filter cartridges up to 40 inches long. Other configurations are available upon request.

The ZWB design uses swing bolt closures to secure the housing dome to the base for operation up to 150 psi (10.3 bar). The Model ZWB housing can be steamed-in-place (SIP) and cleaned in place (CIP).

ZWB standard housing models include a positioning plate, positioning plate retainer rods, upstream vent and drain connections, silicone o-ring gaskets, and sanitary gauge port. An optional 1/2" sanitary:8mm barb vent/drain diaphragm valve is available.

3M PURIFICATION INC. FILTER SYSTEMS

3M Purification Inc. is a multi-national organization with manufacturing facilities providing worldwide product availability and consistent quality through field specialists who understand the unique requirements of the pharmaceutical, food and beverage, fine chemical, and microelectronics industries.

3M PURIFICATION INC. FILTER MEDIA

3M Purification Inc.'s family of microfiltration products offer a variety of filter media and retention ratings designed to meet the needs of the pharmaceutical, food and beverage, fine chemicals, and microelectronics industries. 3M Purification Inc.'s Nylon 6,6, PES, PTFE, and all-polypropylene pleated cartridges, as well as a variety of prefilters, can be used in the ZWB housings. For more information about media choices, consult your local 3M Purification Inc. representative.

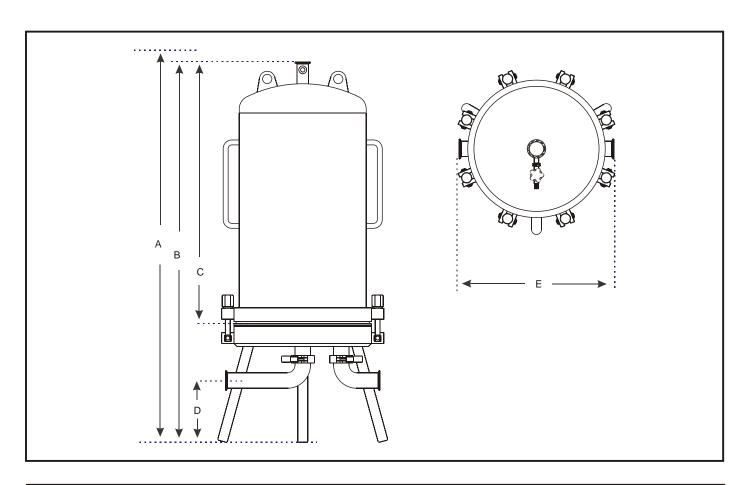
FEATURES	BENEFITS			
Mirror surface finish sanitary 316L stainless steel construction	Reduces bacterial/particle adhesion, and easy to clean			
,	Maximum corrosion resistance			
User friendly vertical design with sanitary connections	Requires minimum floor space and quickly dismantles for easy cleaning			
 Accepts 3M Purification Inc. sanitary style double o-ring bayonet locking elements 	■ Cartridge locks into place assuring secure installation			
	Higher pressure rating			
Swing bolt closures	■ User friendly, minimum downtime			
Housings accommodate from three (3) to twelve (12) 10", 20", 30" or 40" cartridges	Suitable for small through large batch sizes and flow rates			
Optional sanitary vent valve available	Provides easy venting			
■ Clean-in-place/sterilize-in-place design	Permits easy cleaning			
Systems can be integrity tested in situ	■ Establishes proper cartridge installation and system integrity			



ZWB CARTRIDGE REQUIREMENTS							
Housing Model	Cartridg	e Length	Number of Cartridges				
Tiousing Model	inches	mm	(equivalent single length)				
3ZWB1	10	254	3				
3ZWB2	20	508	6				
3ZWB3	30	762	9				
3ZWB4	40	1016	12				
5ZWB1	10	254	5				
5ZWB2	20	508	10				
5ZWB3	30	762	15				
5ZWB4	40	1016	20				
8ZWB1	10	254	8				
8ZWB2	20	508	16				
8ZWB3	30	762	24				
8ZWB4	40	1016	32				
12ZWB1	10	254	12				
12ZWB2	20	508	24				
12ZWB3	30	762	36				
12ZWB4	40	1016	48				

150 psi @ 212°F					
(10.3 bar @ 100°C)					
316L stainless steel					
316L stainless steel					
Silicone					
Swing Bolts					
1 1/2" sanitary					
2" sanitary					
2" sanitary					
2" sanitary					
1 1/2" sanitary					
1/2" sanitary					
Electropolished to 10Ra					
Electropolished to 10Ra					
Options (see Ordering Guide on back)					





STANDARD MODEL WEIGHTS AND DIMENSIONS													
			Dimensions										
Llousing Model				А		В		С		D		Е	
Housing Model	Dome	Weight	Clearance	e Needed	Height of	Housing	Height o	Height of Dome		Height of Flange		Width	
	lbs	kg	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	
3ZWB1	27	12	48	1219	31 7/8	807	16 3/4	425	7 7/8	198	13 9/16	345	
3ZWB2	34	15	68	1727	41 3/4	1060	26 1/2	673					
3ZWB3	41	19	88	2235	51 1/2	1308	36 1/2	927					
3ZWB4	49	22	108	2743	61	1549	45 7/8	1163					
5ZWB1	33	15	49	1244	32 1/2	825	17 1/8	435	7 1/16	179	16		
5ZWB2	42	19	69	1752	42 1/4	1073	27	686				406	
5ZWB3	51	23	89	2260	52 1/8	1324	36 3/4	933					
5ZWB4	60	27	109	2768	61 1/2	1562	46 1/4	1174					
8ZWB1	42	19	50	1270	32 13/16	833	17 1/2	444		179	16 1/2	419	
8ZWB2	53	24	70	1778	42 11 16	1084	27 3/8	693	7.4/40				
8ZWB3	63	29	90	2286	52 1/2	1333	37 3/16	944	7 1/16				
8ZWB4	73	33	110	2794	61 15/16	1572	46 5/8	1183					
*12ZWB1	75	34	46	1168	33 5/8	853	11 13/16	299	7 7/8	198	19 5/8	498	
*12ZWB2	92	42	66	1676	43 1/2	1105	21 11/16	551					
*12ZWB3	109	50	86	2184	53 3/8	1356	31 1/2	800					
*12ZWB4	125	57	105	2667	62 3/4	1595	41	1041					

Dimensions are for rough plumbing estimates only; for other details, please contact 3M Purification Inc. *Models include lifting lugs on the dome.

ZWB HOUSING ORDERING GUIDE					
ZWB MODEL	DESCRIPTION	PART NUMBER			
3ZWB1	3 around 10" sanitary filter housing	7061201			
3ZWB2	3 around 20" sanitary filter housing	7061202			
3ZWB3	3 around 30" sanitary filter housing	7061203			
3ZWB4	3 around 40" sanitary filter housing	7061204			
5ZWB1	5 around 10" sanitary filter housing	7061401			
5ZWB2	5 around 20" sanitary filter housing	7061402			
5ZWB3	5 around 30" sanitary filter housing	7061403			
5ZWB4	5 around 40" sanitary filter housing	7061404			
8ZWB1	8 around 10" sanitary filter housing	7061601			
8ZWB2	8 around 20" sanitary filter housing	7061602			
8ZWB3	8 around 30" sanitary filter housing	7061603			
8ZWB4	8 around 40" sanitary filter housing	7061604			
12ZWB1	12 around 10" sanitary filter housing	7062601			
12ZWB2	12 around 20" sanitary filter housing	7062602			
12ZWB3	12 around 30" sanitary filter housing	7062603			
12ZWB4	12 around 40" sanitary filter housing	7062604			
N/A	1/2" sanitary: 8mm barb vent/drain diaphragm valve	6431131			

OPTIONS: Housings are supplied with standard silicone gaskets. ZWB Housings are available as complete sanitary systems including piping, valves, pressure gauges, optional feed loops, C.I.P. capabilities and skid-mounted mobile systems for single source system solutions. For more information, please contact your local 3M Purification Inc. distributor.

Model ZWB Housing Integrated Systems

Model ZWB filter housings are available as complete sanitary systems including piping, valves, pressure gauges, optional feed loops, C.I.P. capabilities and skid mounted mobile systems for single source system solutions. For more information, please contact your local 3M Purification Inc. distributor.

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