**Zero Gravity Filters
EZ100**

SPECIFICATION SHEET

Filter System	
Body	Stainless steel 304L.
Filter Element	Stainless steel 316 with stainless steel 316 cage assemblies
Ball Valve	Inlet/Backwash: 1" 3-way ball valve. The valve has a stainless steel 316 body and ball with PTFE seats.
Actuator	Double acting, developing 398 in/lb at 80 psi. Manufactured by Assured Automation, size PD060.
Connections	Inlet, Outlet, and Backwash: 1" FNPT.
O-rings and seats	Viton standard.

Controls	
Solid State Controls	Printed circuit board with touch pad membrane on panel door. Adjustments for purge duration, purge interval, and manual purge push button.
Enclosure	Carbon steel, NEMA 4, painted exterior (ZGF Blue).
Air Solenoid Valve	SMC or ASCO direct mount
Pressure Transducers	¼" connection, stainless steel 316 housing. IP 67 protection. 4..20mA analog output.

Site Requirements	
Air Supply	70 to 80 psi, clean and dry. Air line connection is ¼" OD push-in fitting.
Electrical Supply	24 VDC or 120 VAC
Pneumatic Pipework	1/4" pneumatic flexible tubing with push-in connectors
Approximate Dimensions	EC100 2-Pod Filter: 22" L x 18" W x 33" H (559 x 458 x 838 mm) EC100 3-Pod Filter: 32" L x 18" W x 33" H (813 x 458 x 838 mm)

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Operating Parameters	
Number of Filter Elements	1 per pod.
Flowrate per Filter Element (Based on clean differential pressure of less than 3 psi)	20μ: 10 gpm, 35μ: 15 gpm, 50μ: 20 gpm, 75μ: 22 gpm, 100-400μ: 28 gpm. Note: Maximum solids loading not to exceed 500 ppm.
Operating Pressures	150 psi (1,034 kPa), maximum. 230 psi (1,586 kPa) test pressure. Minimum of 35 psi on filter's discharge during backwash. Maximum differential pressure of 50 psi.
Operating Temperature	190ºF (88ºC) maximum.
Backwash Control	Automatically using interval timer and/or differential pressure or manually using push button.
Energy Consumption (per purge per POD)	Air: < 1 cubic inch Electrical: 2.5 watts
Purge Volume (per Pod)	< 1 gallon

Options	Standard	Upgrade	Upgrade
Controls	Solid State Controls	Siemens LOGO!	Options
Control Panel Enclosure	Painted Carbon Steel	NEMA 4X stainless steel	Custom Colors
O-rings	Viton	Buna or EPDM	
Actuator	Double Acting	Spring Return	

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