



Zero Gravity Filters EZ 900

SPECIFICATION SHEET

Magnetic/Filter System	
Filter Element	Stainless steel 316 with stainless steel 316 cage assemblies
Filter Pod	Stainless steel 304L with 3" inlet and outlet connections, 3" backwash.
Butterfly Valves	Outlet/Purge: 3" wafer style butterfly valve. Valves have cast iron bodies with Viton seats. Stainless steel 316 disc and stem.
Actuator	Double acting, developing 721 Lb. Ins at 80 psi.
Connections	Manifolds are 6, 8, or 10" schedule 10, stainless steel 304. Backwash manifold is 4" schedule 10, stainless steel 304. All flanges are ANSI 150 raised faced stainless steel 304.
Frame	Carbon steel, acquenced and powder coated ZGF Blue.
O-rings and seats	Viton standard.

Controls	
Enclosure	Stainless Steel 304, NEMA 4X (IP66).
Turck Controls	Field Logic Controller with 4.3" TFT color display HMI on panel door. Adjustments for backwash duration, backwash interval, and manual backwash push button. Controls operate valve movement, with dome light for visual indication of power, backwash, and fault.
Panel Supply	24 VDC, 2.5 Amp transformer, UL Approved.
Air Solenoid Valve	SMC SY7000 manifold assembly.
Pressure Transducers	1/4" connection, stainless steel 316 housing. IP 67 protection. IO Link output.
Pressure Gauges	4" diameter stainless steel body and glycerin filled. Operating range depending on system pressure.

EZ 900

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Operating Parameters	
Number of Filter Elements per Pod	9 per Pod
Flowrate per Pod	20μ: 90 gpm, 35μ: 165 gpm, 50μ: 225 gpm, 75μ: 290 gpm, 100-400μ: 300 gpm Note: Unlimited Number of Pods Available. Minimum system flow rate of 250 gpm. Note: Maximum solids loading not to exceed 500 ppm.
Operating Pressures	120 psi (827 kPa/0.83 mPa) maximum, 230 psi (1,586 kPa/1.58 mPa) test pressure. Minimum of 35 psi (241 kPa/0.24 mPa) on filter's discharge during backwash. Maximum differential pressure of 50 psi
Micron Ratings	20, 35, 50, 75, 100, 150, 200, and 400 micron absolute gap.
Operating Temperature	190°F (88°C) maximum.
Backwash Control	Automatically using interval timer and/or differential pressure or manually using push button.
Energy Consumption (per purge)	Air: 50 cubic inches Electrical: 2.5 watts

Site Requirements	
Air Supply	60 to 80 psi, clean and dry. Air line connection on bottom of control panel is ¼" OD push-in bulkhead fitting.
Electrical Supply	120 or 240 VAC, 5 amp
Pneumatic Pipework	¼" pneumatic flexible tubing with push-in connectors
Approximate Dimensions and Weight	EC900 4-Pod Filter: 88" L x 36" W x 67" H (224 x 91 x 67 cms) Dry: 1,100 lbs, Wet: 1,620 lbs (500, 735 kgs)
Purge Volume (per pod)	18 Gallons

Materials	Standard	Upgrade	Upgrade
Controls	Turck Field Logic Controller	Mitsubishi PLC	
Control Panel Enclosure	Nema 4X (IP66)	Custom Color	
Butterfly Valves	Cast Iron Body	SS316	
O-rings	Buna	EPDM or Viton	Options
Valve Seats	Buna	EPDM or Viton	Teflon

Revision A, April 2020.