



Zero Gravity Filters EZ MAG 2600

SPECIFICATION SHEET

Magnetic/Filter System	
Body	Stainless steel 304L.
Filter Element	Stainless steel 316 with stainless steel 316 cage assemblies
Magnet	Permanent, rare earth, neodymium iron boron.
Magnetic tube	Stainless steel 316L.
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 4, 6, or 8" 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	Siemens 24 VDC, 2.5 Amp transformer, UL Approved.
Air Solenoid Valve	SMC SY7000 manifold assembly with VPA series 5 port pilot valve.
Air Preparation	½" (12 mm) NPT inlet with air lockout, filter and regulator, and pressure gauge.
Pressure Transducers	¼" connection, stainless steel 316 housing. IP 67 protection. IO Link.
Pressure Gauges	4" diameter, stainless steel body and glycerin filled.

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Site Requirements	
Air Supply	70 to 80 psi, clean and dry. 1/2" (12 mm) air supply connection. Required air flow is 135 standard cubic feet per minute (scfm).
Electrical Supply	120 or 240 VAC, 5 amp.
Pneumatic Pipework	1/2" pneumatic flexible tubing with push-in connectors
Approximate Dimensions and Weight	MEC900 4-Pod Filter: 88" L x 42" W x 103" H (224 x 107 x 262 cms) Dry: 1,476 lbs (670 kg)
Fluid Volume (per pod)	7.5 gallons

Operating Parameters	
Number of Magnetic Shuttles and Filter Elements	26 per Maggie Pod and 9 per EC Pod.
Flowrate per Pod (Based on clean differential pressure of less than 3 psi)	20µ: 90 gpm, 35µ: 165 gpm, 50µ: 225 gpm, 75-400µ: 250 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	100 psi (690 kPa), maximum. Minimum of 35 psi (241 kPa/0.24 mPa) on filter's discharge during backwash. 150 psi (1,035 kPa) test pressure.
Operating Temperature	170°F (75°C) maximum.
Backwash Control	Automatically using interval timer and/or differential pressure or manually using push button.
Energy Consumption (per purge)	Air: 2 cubic feet (rotate valves and shuttle Maggie) Electrical: 2.5 watts
Purge Volume (per pod)	20 gallons (5 seconds at 250 gpm)

Options	Standard	Upgrade	Upgrade
Controls	Turck Field Logic Controller	Mitsubishi PLC	
Control Panel Enclosure	NEMA 4X (IP66)	Custom Color	
O-rings	Viton	Buna or EPDM	
Valve Seats	Viton	Buna or EPDM	Teflon
Butterfly Valves	Cast Iron Body	SS316	
Actuator	Double Acting	Spring Return	
Operating Temperature	170°F	195°F	

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