



Zero Gravity Filters Maggie 12-Core (MG1200)

SPECIFICATION SHEET

Filter System	
Body	Stainless steel 304L.
Magnet	Permanent, rare earth, neodymium iron boron.
Magnetic tube	Stainless steel 316L.
Butterfly Valve	Outlet: 2" wafer style butterfly valve. Purge: 1.5" or 2" wafer style butterfly valve. Valves have cast iron bodies with Viton seats. Stainless steel 316 disc and stem.
Actuator	Double Acting.
Connections	Inlet: 2" Victaulic. Outlet: 2" FNPT threaded flange. Purge: 1.5" or 2" FNPT threaded flange.
O-rings	Viton standard.
Valve Seats	Viton

Controls	
Turck Controls	Field Logic Controller with 4.3" TFT color display HMI on panel door. Adjustments for purge duration, purge interval, and manual purge push button. Controls operate Magnetic Shuttle and Valve movement, with dome light for visual indication of power, purge, and fault.
Enclosure	Stainless steel, NEMA 4X (IP66).
Air Solenoid Valve	SMC SY7000 manifold assembly, 2-Station with VPA series 5 port pilot valve.
Air Preparation	½" (12 mm) NPT inlet with air lockout, filter and regulator, and pressure gauge.

MG1200

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Site Requirements	
Air Supply	70 to 80 psi (0.48 – 0.55 mPa) clean and dry. ½" (12mm) air supply connection. Required air flow is 65 standard cubic feet per minute (scfm).
Electrical Supply	24 VDC or 120 VAC
Pneumatic Pipework	3/8" (10 mm) pneumatic flexible tubing with push-on connectors
Approximate Dimensions and Weight	17 x 13.5 x 50" (436 x 344 x 1,273 cm). Dry: 266 lbs, Wet: 289 lbs (121 / 131 kgs).
Fluid Volume	2.25 gallons

Operating Parameters	
Number of Magnetic Shuttles	12 per unit.
Flowrate	125 gpm (473 LPM), maximum with water-based fluids. 85 gpm (320 LPM), maximum with oil (30 cSt at 40°C).
Operating Pressures	100 psi (690 kPa), maximum. 25 psi (172 kPa/0.17 mPa), minimum. 150 psi (1,035 kPa) test pressure.
Operating Temperature	170°F (75°C) maximum.
Backwash Control	Automatically using interval timer or manually using push button.
Energy Consumption	Air: 1.3 cubic feet (rotate valves and shuttle Maggie) Electrical: 2.5 Watts
Purge Volume	10 gallons (5 seconds at 125 gpm).

Options	Standard	Upgrade	Upgrade
Controls	Turck Field Logic Controller with HMI	Mitsubishi PLC	
Control Panel Enclosure	NEMA 4X	Custom Colors	
O-rings	Viton	Buna or EPDM	ETP
Valve Seats	Viton	Buna or EPDM	Teflon or PFA
Actuator	Double Acting	Spring Return	Stainless Steel Body
Air Solenoid Valves	SMC	Options	
Magnetic Shuttle	170°F	195°F	

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