



Zero Gravity Filters Maggie 100 Complete

SPECIFICATION SHEET

Maggie	
Body	Stainless steel 304L
Magnet	Permanent, rare earth, neodymium iron boron
Magnetic tube	Stainless steel 316L
Ball Valve	Outlet/Purge: 3/4" 3-way ball valve. The valve has a stainless steel 316 body and ball with PTFE seats.
Actuator	Double acting, developing 300 in/lb at 80 psi. Manufactured by Assured Automation, size PD045. (Spring return option).
Connections	3/4" FNPT; inlet, outlet, and purge
O-rings	Viton standard.
Approximate Dimensions and Weight	7 x 9.5 x 23" (18 x 24 x 58 cm). Dry: 10 lbs, Wet: 11.5 lbs (4.5, 5.2 kgs)
Fluid Volume	0.25 gallons (1 liter)

Mini Smart Drum	
Housing/Tanks	Stainless Steel 304
Drum Magnet	Dual Magnetic Circuit - permanent, rare earth, neodymium iron boron & ceramic
Magnetic Coolant Roll Housing	Stainless steel 304
Motor and Gearbox Assembly	24 VDC, 1.9 Amp
Connections: Inlet/Outlet	Inlet: 1" FNPT. Outlet: 1" FNPT. Overflow/Vent: 1.5" FNPT
Approximate Dimensions and Weight	15 x 14.5 x 23.5" (381 x 368 x 597 mm) Dry: 39 lbs (17.7 kg)
Approximate Fluid Volume	Upper Tank: 4.2 gallons (15.9 liters); Lower Pan: 0.1 gallons (0.4 liters)

Pump	
Pump	Self-priming up to 20'. Built in check valve, cast iron construction with Si Carbide, Viton seals, 1.5" suction and discharge, clog resistant impeller.
Motor	.75 HP, TEFC, 115 VAC, 60 Hz, 9 Amps

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Controls	
Electrical Timer	Adjustments for purge duration and purge interval between 10ms and 99 hours. Manual purge push button. Housing made of ABS plastic, NEMA 4 (IP65) rated.
Air Solenoid Valve	ASCO direct mount 24 VDC or 120 VAC with aluminum manifold block.

Site Requirements	
Air Supply	70 to 80 psi, clean and dry. ¼" air supply connection. Required air flow is 8 standard cubic feet per minute (scfm).
Electrical Supply	120 VAC, 10 Amp
Pneumatic Pipework	¼" pneumatic flexible tubing with push-in connectors

Operating Parameters	
Number of Magnetic Shuttles	1 per unit
Flowrate	12 gpm (45 LPM), maximum with water-based fluids. 8 gpm (45 LPM), maximum with oil (30 cSt at 40°C).
Operating Pressures	75 psi (517 kPa), maximum. 25 psi (172 kPa/0.17 mPa), minimum. 125 psi (862 kPa) test pressure.
Operating Temperature	170°F (75°C) maximum
Backwash Control	Automatically using timer or manually using push button.
Energy Consumption (per purge)	Air: 0.42 cubic feet (rotate valve and shuttle Maggie) Maggie M1300 / Mini Smart Drum Electrical: 2.5 watts Pump Electrical: ~750 watts
Purge Volume	1.0 gallon (5 seconds at 12 gpm)

Options	Standard	Upgrade	Upgrade	Upgrade
Controls	Electrical Timer	Turck Field Logic Controller	Turck Field Logic Controller with HMI	Mitsubishi PLC
O-rings	Viton	Buna or EPDM	ETP	
Tramp Oil Removal	None	Oil Removal Cartridge		
Sediment Filter	None	Cartridge Filter		
Air Solenoid Valve	ASCO Direct Mount	SMC	Options	
Magnetic Shuttle	170°F	195°F		

Revision B, January 2021.