



Zero Gravity Filters Maggie 300 Complete

SPECIFICATION SHEET

Maggie	
Body	Stainless steel 304L.
Magnet	Permanent, rare earth, neodymium iron boron.
Magnetic tube	Stainless steel 316L.
Ball Valve	Outlet/Purge: 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. (Spring return option)
Connections	Inlet: 1" MNPT. Outlet/Purge: 1" FNPT.
O-rings	Viton standard.
Approximate Dimensions and Weight	8.25 x 14.5 x 25.4" (21 x 37 x 64 cm). Dry: 99 lbs, Wet: 103 lbs (45, 47 kgs)
Fluid Volume	0.5 gallons

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	1 HP, TEFC, 115 VAC, 60 Hz, 12.8 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 18 standard cubic feet per minute (scfm).
Electrical Supply	120 VAC, 15 Amps
Pneumatic Pipework	¼" pneumatic flexible tubing with push-in connectors

Operating Parameters	
Number of Magnetic Shuttles	3 per unit.
Flowrate	30 gpm (114 LPM), maximum with water-based fluids. 25 gpm (95 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 electrical timer or manually using push button.
Energy Consumption	Air: 0.52 cubic feet (rotate valve and shuttle Maggie) Maggie MG300 / Mini Smart Drum Electrical: 2.5 watts Pump Electrical: ~750 watts
Purge Volume	3 gallons (5 seconds at 35 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.