



Zero Gravity Filters Electro-Pneumatic Phoenix

SPECIFICATION SHEET

Filter System	
Filter Element	Stainless steel 316 with stainless steel 316 cage assemblies
Filter Body	Stainless steel 304L.
Indexing Valve	Stainless steel 304 with polyacetal shoe.
Backwash Valve	3/4" stainless steel 316 ball valve, stainless steel ball and PTFE seals and RPTFE seats.
Backwash Valve Actuator	Double acting, developing 199 in/lb at 80 psi. Manufactured by Assured Automation, size PD030.
Connections	Inlet and outlet are 3" stainless steel 304 ANSI raised faced 150# flanges. Backwash connection is 3/4" NPT female.
O-rings	Viton standard.

Controls	
Control System	Printed circuit board. Solid state controls.
Pressure Transducers	1/4" connection, stainless steel 316 housing. IP 67 protection. 4...20mA analog output.

Site Requirements	
Air Supply	60 to 80 psi, clean and dry. Air line connection is 1/4" OD push-in fitting.
Electrical Supply	24 VDC, 2 Amp.
Digital Outputs	Volt free contacts (normally open), 1 Amp, 120VAC/24VDC, resistive.
Approximate Dimensions and Weight	22 x 16 x 17" (55 x 40 x 44 cm) Dry: 75 lb, Wet: 109 lb (34, 49 kgs)
Fluid Volume	4.1 gallons.

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Operating Parameters	
Number of Elements	6 per unit.
Flowrate (Based on clean differential pressure of less than 3 psi)	35 gpm (132 LPM) minimum, 250 gpm (946 LPM) maximum per Phoenix. 20 μ : 60 gpm, 35 μ : 110 gpm, 50 μ : 150 gpm, 75 μ : 180 gpm, 100-400 μ : 250 gpm. Note: Maximum solids loading not to exceed 500 ppm.
Operating Pressure	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 (0.34 MPa).
Operating Temperature	160°F (71°C) maximum.
Micron Ratings	20, 35, 50, 75, 100, 150, 200, and 400 micron absolute gap.
Backwash Control	Automatically using interval timer and/or differential pressure switch or manually using push button.
Approximate Dimensions and Weight	22 x 16 x 17" (55 x 40 x 44 cm) Dry: 75 lb, Wet: 109 lb (34 kgs, 49.4 kgs)
Approximate Backwash Volume	5 gallons
Energy Consumption (per backwash)	Air: 2 cubic inches Electrical: 42 watts

Materials	Standard	Upgrade	Upgrade
Backwash Valve Actuator	Double Acting	Spring Return	
Filter Elements – Holder	30% Glass Filled Polypropylene	SS304	SS316
O-rings	Viton	Options	
Valve Seat	RPTFE	Options	

Revision F, January 2021.