



Zero Gravity Filters EZ 700S and EZ 700SLT

SPECIFICATION SHEET

Filter System	
Filter Element	Stainless steel 316 with stainless steel 316 cage assemblies
EC700S (EC700SLT) Filter Pod	Stainless steel 304L with 4" (2") inlet and outlet connections, 2" backwash connection.
EC700S (EC700SLT) Butterfly Valve	2" (2") and 4" (2") wafer style butterfly valves. Valves have cast iron bodies with Buna seats. Stainless steel 316 disc and stem.
EC700S (EC700SLT) Actuator	Double acting, developing 721 (297) Lb Ins at 80 psi. Actuator directly mounted onto 4" (2") valve and using zinc plated carbon steel mounting kit on the 2" valve. Manufactured by Bray Valve and Controls, series 92, size 83 (63).
Connections	Manifolds are 4, 6, 8, or 10" schedule 10, stainless steel 304. Backwash manifold is 3" schedule 10, stainless steel 304. All flanges are ANSI 150 raised faced stainless steel 304.
Frame	3" box, stainless steel 304.
O-rings and seats	Buna standard.

Controls	
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.
Enclosure	Stainless Steel 304, NEMA 4X (IP66).
Panel Supply	24 VDC, 1.3 Amp transformer, UL Approved.
Air Valve Manifold	SMC manifold assembly, SY7000 series with EX260 IO Link, built in silencers.
Pressure Transducers	¼" connection, stainless steel 316 housing. IP 67 protection. IO Link.
Pressure Gauges	4" diameter stainless steel body and glycerin filled. Operating range depending on system pressure.

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Operating Parameters	
Number of Elements	7 per pod.
Flowrate per Pod (Based on clean differential pressure of less than 3 psi)	20 μ : 70 gpm, 35 μ : 128 gpm, 50 μ : 175 gpm, 75 μ : 225 gpm, 100-400 μ : 300 gpm Note: Unlimited Number of Pods Available. Minimum system flow rate of 200 gpm. Note: Maximum solids loading not to exceed 500 ppm.
Operating Pressures	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	190°F (88°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 or manually using push button.
Energy Consumption (per pod per backwash)	Air: 41 cubic inches Electrical: 1.2 watts

Site Requirements	
Air Supply	60 to 80 psi, clean and dry. Air line connection on bottom of control panel is ¼" OD push-in bulkhead fitting.
Electrical Supply	120 or 240 VAC, 5 amp.
Pneumatic Pipework	¼" pneumatic flexible tubing with push-in connectors
Approximate Dimensions and Weight	EC700S 4-Pod Filter: 88" L x 36" W x 67" H (224 x 91 x 67 cm) Dry: 1,100 lbs, Wet: 1,620 lbs (500, 735 kgs) EC700SLT 4-Pod Filter: 52" L x 36" W x 67" H (132 x 91 x 67 cm) Dry: 1,000 lbs, Wet: 1,400 lbs (454, 635 kgs)
EC700S (EC700SLT) Backwash Volume (per pod)	16 (<12) Gallons

Materials	Standard	Upgrade	Upgrade
Controls	Turck Field Logic Controller	Mitsubishi PLC	
Manifolds and Frame	Stainless Steel 304	SS316	
Filter Pod and Cage Plate	SS304L	SS316	
Butterfly Valves	Cast Iron Body	SS316	
O-rings	Buna	EPDM or Viton	
Valve Seats	Buna	EPDM or Viton	Teflon

Revision E, January 2021.

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