

VACUUM PUMP EXHAUST FILTERS

- Rugged Construction – Easy To Install
- Low Cost, Completely Disposable Elements
- Low Back Pressure, Exceptional Life
- Available In Aluminum And Stainless Steel



At the heart of our Vacuum Pump Exhaust Filter is the completely disposable CS-type coalescing element. Made entirely from borosilicate glass microfiber and silica binder, it is compatible with all compressor lubricants and will operate at temperatures up to 400°F. Our CS coalescing filters have an efficiency rating of 99.99% at 0.01 micron and are designed to have an initial dry pressure drop of less than 2 psi. We recommend changing filter elements when the pressure drop reaches 10 psig or the pump manufacturers quoted maximum back pressure, whichever is lower.

PRINCIPLE SPECIFICATIONS FOR ALUMINUM HOUSINGS

Model Number	420-50CS	425-50CS	430-50CS	433-50CS*	443-50CS*	437-50CS*	447-50CS*	456-50CS*
Port Size (NPT)	1/2"	3/4"	1"	1 1/2"	2"	3"	3"	4" Flanged
Maximum Temperature (°F) (2)	250	250	250	250	250	250	250	250
Maximum Pressure (PSIG)	100	100	100	100	100	100	100	100
Maximum Flow Rate SCFM	3	9	20	45	90	100	200	450
Principle Dimensions:								
Body Diameter (inches)	2.00	3.50	3.50	7.00	7.00	9.84	9.84	15.98
Cap Diameter (inches)	N/A	N/A	N/A	9.65	9.65	13.19	13.19	19.69
Overall Length (inches)	3.74	6.10	11.61	17.13	29.13	17.91	29.92	35.83
Element Removal Clearance	3.15	3.15	9.00	N/A	N/A	N/A	N/A	N/A
Element Code	25-64-50CS	51-89-50CS	51-230-50CS	51-230-50CS	51-476-50CS	51-230-50CS	51-476-50CS	51-476-50CS
Number of Elements Required	1	1	1	3	3	7	7	16
Materials of Construction: (1)								
Body	AL	AL	AL	AL	AL	AL	AL	AL
Element Retainers	--	AL	AL	AL	AL	AL	AL	AL
Tie Rods	--	--	--	316 SS	316 SS	316 SS	316 SS	316 SS
Seals	--	Buna-N	Buna-N	Buna-N	Buna-N	Buna-N	Buna-N	Buna-N
Gauge	--	--	--	Brass	Brass	Brass	Brass	Brass
Mesh Pad	--	--	--	304 SS	304 SS	304 SS	304 SS	304 SS

Notes: (1) Material abbreviations: AL = Anodized Aluminum, 316 SS = 316L Stainless Steel, 304SS = 304 Stainless Steel
 (2) 400°F Maximum Temperature Available With Viton O-Rings
 (*) Models 433 and larger come complete with back pressure gauge and anti-reintrainment mesh pad

PRINCIPLE SPECIFICATIONS FOR STAINLESS STEEL HOUSINGS

Model Number	420S-50CS	425S-50CS	430S-50CS	433S-50CS*	443S-50CS*	437S-50CS*	447S-50CS*	456S-50CS*
Port Size (NPT)	1/2"	3/4"	1"	1 1/2"	2"	3"	3"	4" Flanged
Maximum Temperature (°F)	400	400	400	400	400	400	400	400
Maximum Pressure (PSIG)	100	100	100	100	100	100	100	100
Maximum Flow Rate SCFM	3	9	20	45	90	100	200	450
Principle Dimensions:								
Body Diameter (inches)	2.36	3.50	3.50	8.62	8.62	10.75	10.75	15.98
Cap Diameter (inches)	N/A	N/A	N/A	12.13	12.13	14.17	14.17	19.69
Overall Length (inches)	4.13	5.67	11.22	19.10	28.54	18.50	31.10	35.83
Element Removal Clearance	3.15	3.15	9.00	N/A	N/A	N/A	N/A	N/A
Element Code	25-64-50CS	51-89-50CS	51-230-50CS	51-230-50CS	51-476-50CS	51-230-50CS	51-476-50CS	51-476-50CS
Number of Elements Required	1	1	1	3	3	7	7	16
Materials of Construction: (1)								
Body	316 SS	316 SS	316 SS	316 SS	316 SS	316 SS	316 SS	316 SS
Element Retainers	316 SS	316 SS	316 SS	316 SS	316 SS	316 SS	316 SS	316 SS
Tie Rods	--	--	--	316 SS	316 SS	316 SS	316 SS	316 SS
Seals	Viton	Viton	Viton	Viton	Viton	Viton	Viton	Viton
Gauge	--	--	--	304 SS	304 SS	304 SS	304 SS	304 SS
Mesh Pad	--	--	--	304 SS	304 SS	304 SS	304 SS	304 SS

Notes: (1) Material abbreviations: AL = Anodized Aluminum, 316 SS = 316L Stainless Steel, 304SS = 304 Stainless Steel
 (*) Models 433 and larger come complete with back pressure gauge and anti-reintrainment mesh pad



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VACUUM PUMP EXHAUST FILTERS

All Housings Come Complete with Coalescing Elements.

Sizing Chart			
Maximum Flow Rate (SCFM)	Line Size Connection	Anodized Aluminum Housings	Stainless Steel Housings
3	1/2"	420-50CS	420S-50CS
9	3/4"	425-50CS	425S-50CS
20	1"	430-50CS	430S-50CS
45	1 1/2"	433-50CS	433S-50CS
90	2"	443-50CS	443S-50CS
100	3"	437-50CS	437S-50CS
200	3"	447-50CS	447S-50CS
450	4"	456-50CS	456S-50CS

UFS vacuum pump exhaust filter housings are available in two materials: Anodized Aluminum and 316L Stainless Steel. All housings, other than Model 420, provide a captured outlet for the ducting away of the aerosol-free exhaust if required. The choice between Aluminum and Stainless Steel will depend upon the chemical composition of the exhaust. If the temperature can exceed 250°F or if corrosive chemicals are present, stainless steel should be used. All housings have a maximum pressure rating of 100 psi.

The size of the housing will depend on the maximum free air displacement of the pump. Never specify housing with a flow rating below that of the pump, or efficiency will be reduced. Standard connections are detailed in the tables below. Alternative connections are available on multi-element housings. For example Model 437 can be supplied with 3" NPT threads (standard) or various flange options are available.



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