

VACUUM PUMP EXHAUST FILTERS

Features:

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

Applications:

- Allows Venting Of Exhaust Directly Into Workplace Environment
- Exhaust Directly To Outside Environment
- Ideal For Packaging Industries
- Semiconductor Protection
- Vacuum Pump Process Exhaust Polishing



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. Stainless steel should be used if temperatures can exceed 250°F or if corrosive chemicals are present.

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 900°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.

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.

PRINCIPLE SPECIFICATIONS

| Housing Model | 420-50CS | 425-50CS | 430-50CS | 433-50CS* |
|--------------------------------|------------|------------|-------------|-------------|
| Port Size (NPT) | 1/2" | 1/2" | 1" | 1 1/2" |
| Maximum Temperature (°F) (1) | 250 | 250 | 250 | 250 |
| Maximum Pressure (psig) | 30 | 30 | 30 | 30 |
| Maximum Flow Rate (scfm) | 3 | 3 | 20 | 45 |
| Principle Dimensions: (inches) | | | | |
| Body Diameter | 1.97 | 3.50 | 3.50 | 7.00 |
| Cap Diameter | 1.97 | 3.50 | 3.50 | 9.45 |
| Overall Length | 3.64 | 6.02 | 11.61 | 17.13 |
| Element Removal Clearance | 3.15 | 3.15 | 7.87 | N/A |
| Element Code | 25-64-50CS | 51-89-50CS | 51-230-50CS | 51-230-50CS |
| Number of Elements Required | 1 | 1 | 1 | 3 |
| Materials Of Construction: (2) | | | | |
| Body | AL | AL | AL | AL |
| Element Retainers | -- | -- | -- | AL |
| Tie Rods | -- | -- | -- | 316 SS |
| Seals | -- | Buna-N | Buna-N | Buna-N |
| Gauge | -- | -- | -- | Brass |
| Mesh Pad | -- | -- | -- | 304 SS |

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



United Filtration Systems, Inc.
 6558 Diplomat Drive
 Sterling Heights, MI 48314
 T (586) 802-5561 • F (586) 802-5562
 sales@unitedfiltration.com
 www.unitedfiltration.com

1-800-311-5561



Partner of Headline Filters

VE400-1

VACUUM PUMP EXHAUST FILTERS

Features:

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

Applications:

- Allows Venting Of Exhaust Directly Into Workplace Environment
- Exhaust Directly To Outside Environment
- Ideal For Packaging Industries
- Semiconductor Protection
- Vacuum Pump Process Exhaust Polishing



United Filtration Systems, Inc.
6558 Diplomat Drive
Sterling Heights, MI 48314
T (586) 802-5561 • F (586) 802-5562
sales@unitedfiltration.com
www.unitedfiltration.com

1-800-311-5561



Partner of Headline Filters

PRINCIPLE SPECIFICATIONS

| Housing Model | 443-50CS* | 437-50CS* | 447-50CS* | 456-50CS* |
|--------------------------------|-------------|-------------|-------------|-------------|
| Port Size (NPT) | 2" | 3" | 3" | 4" Flanged |
| Maximum Temperature (°F) (1) | 250 | 250 | 250 | 250 |
| Maximum Pressure (psig) | 30 | 30 | 30 | 30 |
| Maximum Flow Rate (scfm) | 90 | 100 | 200 | 450 |
| Principle Dimensions: (inches) | | | | |
| Body Diameter | 7.00 | 9.84 | 9.84 | 15.98 |
| Cap Diameter | 9.49 | 12.99 | 12.99 | 19.37 |
| Overall Length | 28.94 | 20.27 | 30.16 | 35.83 |
| Element Removal Clearance | N/A | N/A | N/A | N/A |
| Element Code | 51-476-50CS | 51-230-50CS | 51-476-50CS | 51-476-50CS |
| Number of Elements Required | 3 | 7 | 7 | 16 |
| Materials Of Construction: (2) | | | | |
| Body | AL | AL | AL | AL |
| Element Retainers | AL | AL | AL | AL |
| Tie Rods | 316 SS | 316 SS | 316 SS | 316 SS |
| Seals | Buna-N | Buna-N | Buna-N | Buna-N |
| Gauge | Brass | Brass | Brass | Brass |
| Mesh Pad | 304 SS | 304 SS | 304 SS | 304 SS |

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

PRINCIPLE SPECIFICATIONS

| Housing Model | 420S-50CS | 425S-50CS | 430S-50CS | 433S-50CS* |
|--------------------------------|------------|------------|-------------|-------------|
| Port Size (NPT) | 1/2" | 1/2" | 1" | 1 1/2" |
| Maximum Temperature (°F) (1) | 400 | 400 | 400 | 400 |
| Maximum Pressure (psig) | 100 | 100 | 100 | 100 |
| Maximum Flow Rate (scfm) | 3 | 3 | 20 | 45 |
| Principle Dimensions: (inches) | | | | |
| Body Diameter | 2.36 | 3.50 | 3.50 | 8.62 |
| Cap Diameter | 2.36 | 3.50 | 3.50 | 11.81 |
| Overall Length | 4.13 | 5.63 | 10.94 | 16.89 |
| Element Removal Clearance | 3.15 | 3.15 | 7.87 | N/A |
| Element Code | 25-64-50CS | 51-89-50CS | 51-230-50CS | 51-230-50CS |
| Number of Elements Required | 1 | 1 | 1 | 3 |
| Materials Of Construction: (1) | | | | |
| Body | 316 SS | 316 SS | 316 SS | 316 SS |
| Element Retainers | 316 SS | 316 SS | 316 SS | 316 SS |
| Tie Rods | -- | -- | -- | 316 SS |
| Seals | Viton | Viton | Viton | Viton |
| Gauge | -- | -- | -- | 304 SS |
| Mesh Pad | -- | -- | -- | 304 SS |

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

PRINCIPLE SPECIFICATIONS

| Housing Model | 443S-50CS* | 437S-50CS* | 447S-50CS* | 456S-50CS* |
|--------------------------------|-------------|-------------|-------------|-------------|
| Port Size (NPT) | 2" | 3" | 3" | 4" Flanged |
| Maximum Temperature (°F) | 400 | 400 | 400 | 400 |
| Maximum Pressure (psig) | 100 | 100 | 100 | 100 |
| Maximum Flow Rate (scfm) | 90 | 100 | 200 | 450 |
| Principle Dimensions: (inches) | | | | |
| Body Diameter | 8.62 | 10.75 | 10.75 | 15.98 |
| Cap Diameter | 11.81 | 14.01 | 14.17 | 19.49 |
| Overall Length | 28.94 | 20.08 | 31.10 | 39.37 |
| Element Removal Clearance | N/A | N/A | N/A | N/A |
| Element Code | 51-476-50CS | 51-230-50CS | 51-476-50CS | 51-476-50CS |
| Number of Elements Required | 3 | 7 | 7 | 16 |
| Materials Of Construction: (1) | | | | |
| Body | 316 SS | 316 SS | 316 SS | 316 SS |
| Element Retainers | 316 SS | 316 SS | 316 SS | 316 SS |
| Tie Rods | 316 SS | 316 SS | 316 SS | 316 SS |
| Seals | Viton | Viton | Viton | Viton |
| Gauge | 304 SS | 304 SS | 304 SS | 304 SS |
| Mesh Pad | 304 SS | 304 SS | 304 SS | 304 SS |

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

VE400-1