

Microdyne vacuum filters are designed to utilize the low pressure filter elements to operate at the same high efficiency levels as previously mentioned. Vacuum filters are primarily used to protect the vacuum pumps. Microdyne's low pressure filters are engineered to operate at pressures as low as 2psi.

Housings — Constructed of aluminum, carbon steel, stainless steel – rated at 250psi operating pressure with automatic drains and differential pressure gauges.

Single Element Housing — 1/4F" to 3" NPTF
Multiple Element Housing — 2" to 12" Flanged

Elements — Modular, interchangeable consisting of Prefilters, Coalescing Filters. Six grades of efficiency/media ratings, High Pressure Filters, Low Pressure Filters, Dust Filters, Activated Carbon Filters, Vacuum Filters, and Exhaust Filters.



- **PF-Prefilter** — Designed for maximum pre-filtration of larger particulates rated at 100% efficiency @ 1 micron with minimum possible differential pressures and to extend the service life of the higher grade microfilter installed thereafter.
- **CFA-Coalescing Filter/Alpha Series®** — The most effective coalescing filter in this series to remove oil, water, and dirt from compressed air systems. The Alpha Series is capable of removing contaminants .01 micron with 99.99998% efficiency. The special foam socks on the coalescers are resistant to mineral, synthetic, and decomposed oils.
- **CFB-Coalescing Filter/Beta Series®** — For more effective micron retention of oil, water, and dirt from compressed air. The Beta Series filter is designed to trap particulates, .01 micron and larger at an efficiency of 99.9999%.
- **CFC-Coalescing Filter/Gamma Series®** — For the removal of oil, water, and dirt from compressed air systems. Capable of performing with 99.99% efficiency at the .01 micron level of filtration. In applications where compressed air is severely contaminated, it is recommended that CFC filters be installed upstream of the CFA filters, in order to achieve economical operation.
- **ACF-Activated Carbon Filter** — For the elimination of odors from compressed air. The ACF filter is capable of producing compressed air which is 400,000 times more pure than the ambient air in which we breathe and is thus available for such applications.
- **DF-Dustfilter** — Specialized in the removal of rust and dust particulates from compressed air systems.

Performance Data

Efficiency - 99.99% @ 3 microns.

Flow - Outside to Inside.

Recleanable - Yes.

Media - Pleated, specially hardened cellulose acetate.

Support Sleeves - Stainless Steel - Inner and Outer Support Sleeves

End Caps - Precision, machined aluminum

Delta P - .3 psi differential pressure (new).

Microdyne Products Corp.

12735 Carrollton Industrial Dr.

Bridgeton, MO 63044

phone: 314.291.5600

fax: 314.344.4422

email: sales@microdyneproducts.com

www.microdyneproducts.com

Performance Data (Continued)

Flow Volume - 24 to 23,000 cfm.

Appearance - Stainless Steel outer support sleeve and buff-colored pleated filter material.

Pressures - 60 psi max.

Designation - VAF 3 - VAF

Application - As a filter upstream of a Vacuum Pump.

Technical Data — Aluminum Housings

Filter housings are fabricated in aluminum and are rated at 250 psi.

Size	Nominal flow (SCFM)	NPT Size Connections	Elements Per Filter	Dimensions in Inches		
				Length of Filter (Complete)	Width of Head (Inlet to Outlet)	Height to Connection
3	3-4	1/4"	1	6.85"	3.43"	5.40"
5	4-6	3/8"	1	6.85"	3.43"	5.40"
7	5.5-8	1/2"	1	9.61"	3.43"	8.16"
9	9-19	3/4"	1	11.04"	5.13"	9.87"
10	12.5-19	1"	1	14.92"	5.13"	13.75"
11	18-25.5	1"	1	14.92"	5.13"	13.75"
12	25.5-38.5	1 1/2"	1	18.92"	5.13"	17.75"
13	41.5-57.5	1 1/2"	1	26.74"	5.13"	25.57"
14	55.5-77	2"	1	26.50"	6.46"	24.61"
17	86.5-121.5	2"	1	36.34"	6.46"	34.45"
19	139.5-192	3"	1	41.42"	9.84"	38.50"

Technical Data — Steel Housings

Filter housings are fabricated in carbon steel, have flanged connections, and are rated at 250 psi.

Size	Nominal flow (SCFM)	NPT Size Connections	Elements Per Filter	Dimensions in Inches		
				Length of Filter (Complete)	Width of Head (Inlet to Outlet)	Height to Connection
17	86.5-121.5	3"	1	41.42"	14.96"	37.05"
19	121.5-139.5	3"	1	43.58"	17.32"	37.99"
20	173-243.5	4"	2	47.48"	19.69"	38.43"
30	259.5-365	4"	3	47.48"	19.69"	38.43"
40	346-487	6"	4	53.39"	25.20"	42.38"
60	519-730.5	6"	6	56.14"	31.10"	444.33"
80	692-974	8"	8	59.49"	31.10"	46.10"
100	865-1218	8"	10	60.87"	33.07"	46.69"
120	1038.5-1481.5	10"	12	66.77"	37.01"	50.24"
180	1384.5-1948.5	10"	16	66.77"	37.01"	50.24"
200	1730.5-2435.5	12"	20	66.77"	37.01"	50.24"

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