

The Problem

Dust is hazardous to men and machinery. It causes abrasion in machinery and plant equipment and when combined with oil or other liquids, it is transformed into an aggressive lapping compound. The end result is expensive down time and production losses in profits.

The Solution

Microdyne Dust Filter "DF" utilizes the depth filtration principle to retain dust that is inhaled into compressed air systems from the atmosphere. The Microdyne Dust Filter located directly after a compressed air or gas purification plant, prevents the transportation and distribution of dirt particles throughout the piping system.

Application

Principally as a high performance filter after an adsorption and/or absorption dryers.

For submicron solid particle removal from "oil-free" compressors. When combined with the Activated Carbon Filter in the form of a DF-ACF" Combination, it insures odor and taste neutrality, especially in the food industry.

As a Pie-Fine Filter for the removal of oil, water and solid particles when these are too highly concentrated for the Gamma Filter (Fine Filtration), yet too small for the standard Prefilter "PF".

Performance Data

Materials:

All Microdyne Dust Filters "DF" are manufactured of aluminum or plastic end caps, stainless steel inner and outer support sleeves, Microair Filter Media which is three-dimensional, has an exclusive 94% void volume and a three-stage depth filtration, The housing is equipped with an Automatic Drain Trap.

Efficiency:

99.99% related to a particle size of 3 micron.

Flow Volume:

24 to 19,000 scfm as standard flow.

Operating Pressure:

100 psi (7 Bar) as standard pressure.

Differential Pressure:

.3 to .6 psi (.02 to .04 Bar).

Pressure Rating:

235 psi (16 Bar) maximum.

Operating Temperature:

250 F (120 C).

Pipe Connections:

1/4" NPT to 12" Flange.



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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	24-30	1/4"	1	6.85"	3.43"	5.40"
5	30-48	3/8"	1	6.85"	3.43"	5.40"
7	45-65	1/2"	1	9.61"	3.43"	8.16"
9	70-110	3/4"	1	11.04"	5.13"	9.87"
10	100-150	1"	1	14.92"	5.13"	13.75"
11	140-200	1"	1	14.92"	5.13"	13.75"
12	200-300	1 1/2"	1	18.92"	5.13"	17.75"
13	325-450	1 1/2"	1	26.74"	5.13"	25.57"
14	435-600	2"	1	26.50"	6.46"	24.61"
17	675-950	2"	1	36.34"	6.46"	34.45"
19	1090-1500	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
14	436-554	2"	1
17	679-885	2"	1
20	1385-1770	3"	2
30	2037-2655	4"	3
40	2716-3540	6"	4
60	4074-5310	6"	6
80	5432-7080	8"	8
100	6790-8850	8"	10
120	8148-10620	10"	12
160	10865-14160	10"	16
200	13580-17700	12"	20

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