World-Class Dust Collection Solutions

World Wide Manufacturing & Assembly Locations:

- ☐ United States
- ☐ England
- ☐ France
- ☐ Poland
- ☐ Denmark
- ☐ Finland
- ☐ Germany
- ☐ Thailand

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Dantherm® Filtration

Cyclo Filter

Dantherm® Filtration

Formerly Disa Air Master

Cyclo Filter

Features

3,876 - 82,296 CFM

- High efficiency design
- Outdoor placement
- Excellent for high volumes of waste
- Small footprint
- Positive or negative configurations
- Single units up to 60,000 CFM

Installations

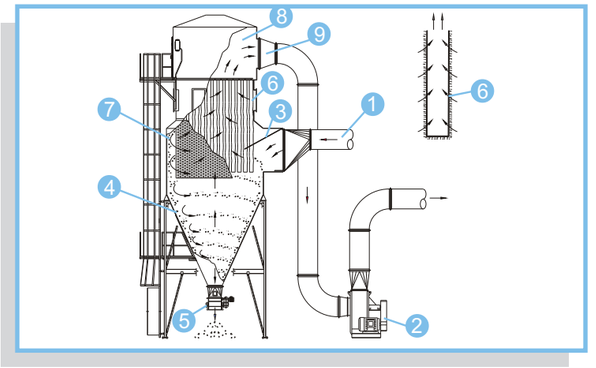
Cyclo Filter

Installations

How It Works

...A negative pressure configuration

1. During normal operation, the dust is drawn down the supply duct (1) and into the Cyclofilter.
2. Upon entering the Cyclofilter, the air and material are diverted into a spiral motion around the inside perimeter. (4) The centrifugal force applied by the side wall allows the heavier material to fall out of the air stream and out of the material discharge (5) at the bottom of the collector.
3. All of the filter bags (6) are contained within a specially designed perforated cylinder (7) which protects the bags from abrasion. The perforations also allow air through which reduces the upward velocity of the remaining air.
4. The dirty air collects on the outside of each filter bag (6) while the clean air passes through to the middle. A "tube sheet" (7) holds the bags open at the top and allows the clean air to escape into the clean air chamber (8) and into the air outlet (9). From there, duct work connects the clean air outlet to the main fan (2).



...A positive pressure configuration

1. During normal operation, the dust travels down the supply duct (1) and into the material handling fan (2). From there, it is blown up into the inlet of the Cyclofilter (3).
2. Upon entering the Cyclofilter, the air and material are diverted into a spiral motion around the inside perimeter. (4) The centrifugal force applied by the side wall allows the heavier material to fall out of the air stream and out of the material discharge (5) at the bottom of the collector.
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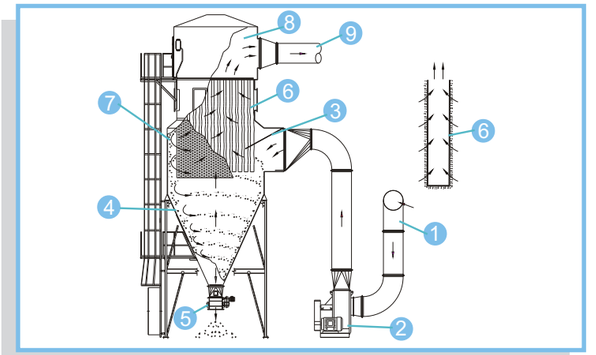
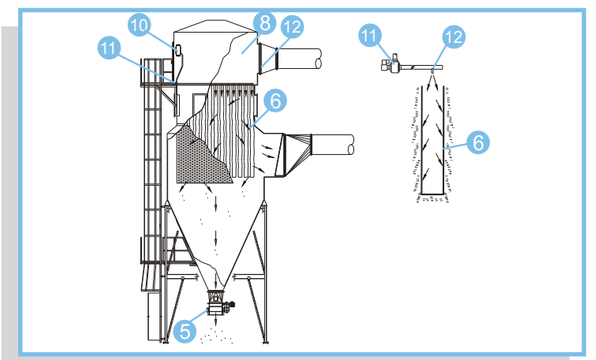


...while cleaning

1. The Cyclofilter comes standard with a Delta-P guage to control the compressed air cleaning. In essence, the filter cleans itself when it needs to!
2. A compressed air line must be connected to the open end of the compressed air manifold (10) located within the clean air chamber (8).
3. When the filter bags (6) begin to get dirty, a pressure sensor detects the increased resistance through the bags. A solenoid valve (11) opens to allow air in from the manifold and into the jet tubes (12). The jet tubes are aligned above each row of filter bags.
4. The downward blast blows the dust off the tubular filter bag (6) from the inside out. The dust then drops into the hopper section where it then exits out the material discharge. (5)



Cyclo Filter

Specifications

MODEL NUMBER	NUMBER OF BAGS	FILTER MEDIA (sq.ft.)	AIR VOLUME (max.) (cfm)	'A'	'B'	'C'	'D'	'E'	'F'	'G' (Dia.)	'H'	'J' (Dia.)	WEIGHT (lbs.)* FILTER UNIT (Unplugged)	WEIGHT (lbs.)* FILTER UNIT (Plugged)
4Y1	22	323	3,876	5'-4 3/4"	28'-7"	24'-7"	14'-10"	19 1/8"	6 1/8"	16 3/4"	5'-1"	15 3/4"	2,500	3,000
4Y2	37	538	6,456	6'-10 7/8"	31'-11"	27'-4"	16'-9"	22 5/8"	8 3/4"	21 5/8"	5'-1"	15 3/4"	3,000	4,000
4Y3	41	795	9,540	7'-5 7/8"	34'-11"	30'-3"	19'-5"	33"	11"	27 1/2"	5'-1"	17 3/4"	4,200	5,500
4Y4	54	1042	12,504	8'-1 1/8"	37'-2"	32'-2"	20'-11"	42 7/8"	11 1/4"	29 1/2"	6'-5"	19 5/8"	5,500	7,000
4Y5	82	1591	19,092	9'-7 7/8"	38'-2"	33'-2"	21'-3"	58 1/4"	12 5/8"	35 1/2"	6'-5"	21 5/8"	7,500	10,000
4Y6	110	2129	25,548	11'-3"	41'-0"	35'-10"	23'-7"	62 1/4"	15 7/8"	39 3/8"	7'-3"	23 5/8"	10,000	14,000
4Y7	154	2978	35,736	13'-5 3/4"	43'-3"	37'-10"	25'-0"	68 7/8"	19 7/8"	47 1/4"	6'-10"	23 5/8"	13,500	21,000
4Y8	208	4031	48,372	15'-5 1/2"	47'-6"	41'-9"	28'-9"	76 3/4"	25 5/8"	55 1/8"	8'-7"	23 5/8"	17,200	28,000
4Y9	274	5310	63,720	17'-6"	48'-9"	43'-9"	31'-7"	44 1/2"	27 5/8"	59 1/8"	8'-5"	31 1/2"	23,200	40,000
4Y10	354	6858	82,296	19'-7 5/8"	50'-1"	45'-0"	32'-6"	52"	30 5/8"	59 1/8"	10'-1"	31 1/2"	26,800	46,000

*** Weight includes filter, airlock, standard structure, access platforms and ladders.**
Unplugged weight should be used for transportation purposes only.
Plugged weight based on a process material weight of 12 lbs./ft.3

Specifications