

# Cyclone Collectors

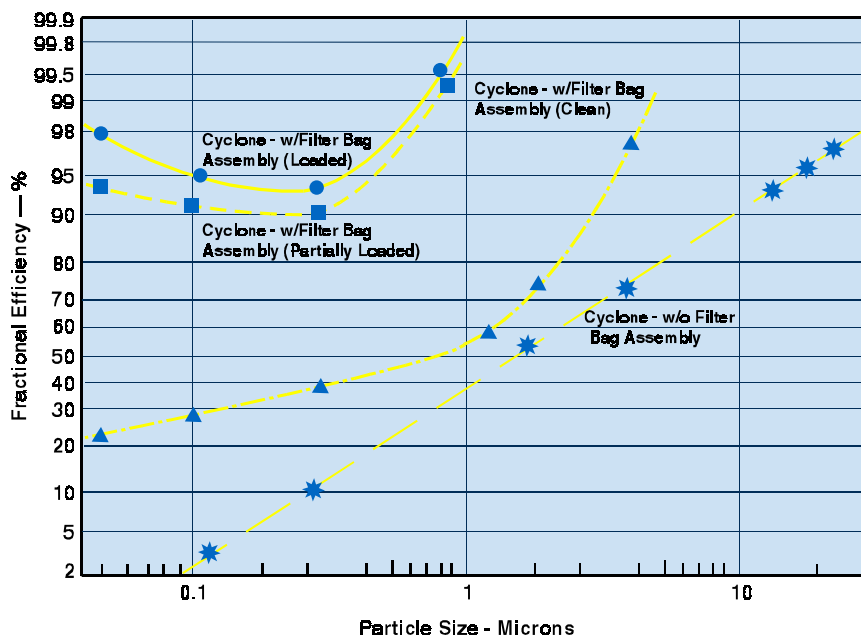
**Models 12, 16, 20, 24, 30, 36, and 44**



**Cyclone with Filter Bag Assembly**

- An economical solution to a wide range of dust collection problems.
- Excellent for high dust load, high temperature, and product recovery applications.
- Can be used alone, with filter bag assembly, or as a pre-cleaner.
- Applications from 300 to 13,000 cfm.
- Heavy-duty construction for long life and low maintenance.
- Meets seismic zone 4 and 100 mph wind load ratings.
- Removable cone section for easy replacement.

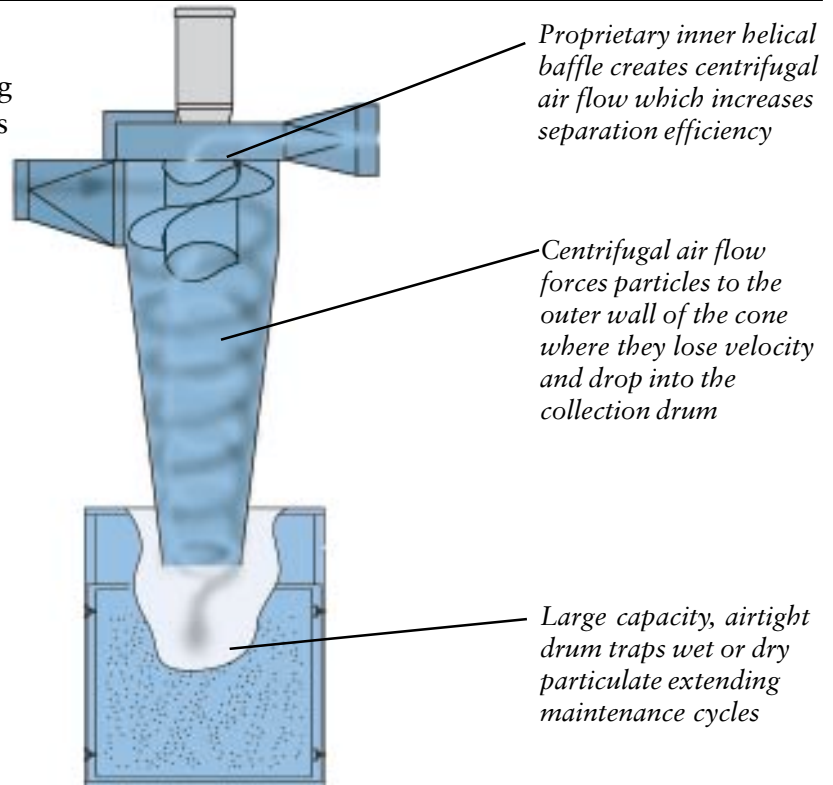
## Fractional Efficiency Curves



Fractional efficiency is the ratio of particles collected to particles entering the cyclone. This chart shows the efficiency of a collector with and without the optional filter bag assembly under clean, partial loading, and full-loading conditions. Actual efficiency may vary depending on the application. Dust concentration, airflow, particle shape, and density affect filtration efficiency.

## Operational Explanation

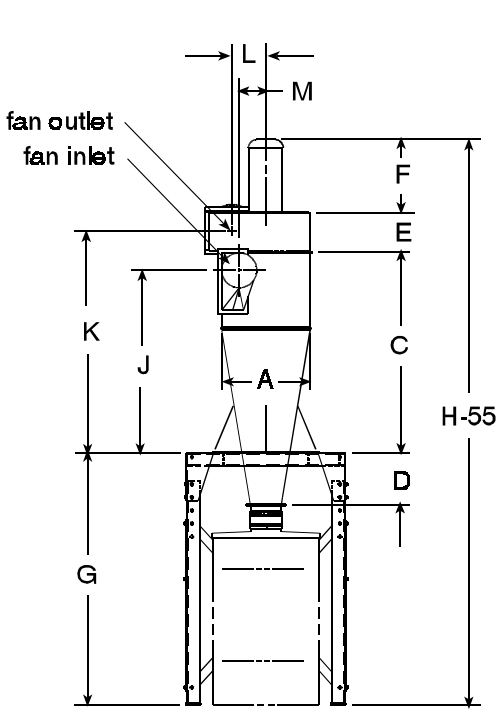
The Cyclone system has only one moving part—the inner fan wheel which requires very little maintenance. The large capacity collection drum works immediately to reduce facility and equipment maintenance.



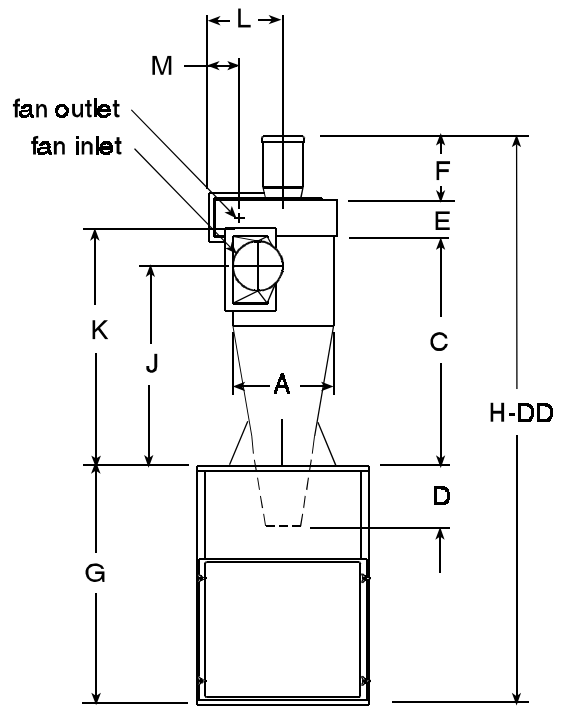
**Multiple Rating Table**

Model	Clean Airflow (cfm)	External Static Pressure ("wg)	Inlet Velocity (fpm)
12	311 - 540	5.6 - 4.1	3580 - 6200
16	860 - 1200	7.9 - 4.6	4380 - 6135
20-3	1250 - 2000	7.5 - 3.7	3555 - 5710
20-5	1500 - 2500	11.4 - 5.0	4290 - 7140
24	1950 - 3500	13.4 - 4.4	3580 - 6450
30-10	3000 - 4500	9.9 - 5.0	3820 - 5730
30-15	4000 - 5600	11.0 - 4.9	5100 - 7140
36-20	4300 - 7000	11.4 - 4.9	4015 - 6540
36-25	4500 - 7500	14.9 - 6.3	4210 - 7010
36-30	5000 - 8000	16.1 - 7.1	4670 - 7465
44-40	8000 - 11500	15.1 - 5.5	4530 - 6510
44-50	8000 - 13000	18.8 - 7.0	4530 - 7360

## Dimensional Information



**55-Gallon Drum Base**



**Cabinet Base**

Dimensions (inches)													
Model	A	B	C	D	E	F	G	H-55	H-DD	J	K	L	M
12	12	33	32	10	5	8	55	100	78	29	35	7	4
16	16	33	36	11	7	10	55	108	86	33	39	9	5
20-3	20	48	48	12	7	11	55	121	114	44	52	8	6
20-5	20	48	48	12	7	13	55	123	116	44	52	9	6
24	24	48	55	18	9	14	67	145	126	47	59	10	7
30-10	30	59	72	18	9	14	67	162	154	63	76	10	9
30-15	30	59	72	18	9	14	67	162	154	63	76	10	9
36-20	36	—	85	18	13	18	67	183	—	75	93	18	11
36-25	36	—	85	18	13	21	67	186	—	75	93	18	11
36-30	36	—	85	18	13	21	67	186	—	75	93	18	11
44-40	44	—	104	24	15	22	—	—	—	92	112	20	13
44-50	44	—	104	24	15	24	—	—	—	92	112	20	13

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Specifications										
Model	Blower Motor	Standard Voltage	Dust Holding Capacity		Approximate Shipping Weight		Optional Filter Bag Assembly		Air Inlet Diameter (in)	Air Outlet Diameter (in)
			Dust Drawer (cu ft)	Hopper (cu ft)	Standard Models (lbs)	Models with Optional Filter Bag Assembly (lbs)	No. of Filters	Filter Bag Area (ft <sup>2</sup> )		
12	3/4	208/230/ 460/60/3	4.8	12	325	350	1	15	4	6
16	2		4.8	12	390	410	1	25	6	8
20	3 or 5		8.5	19.5**	600	740	4	70	8	10
24	7 1/2		8.5	37.5**	750	850	4	100	10	12
30	10		16.5	37.5**	1175	1400	8	200	12	14
30	15		16.5	37.5**	1210	1486	8	200	12	14
36	20*		N/A	54**	2000	2300	12	300	14	16
36	25		N/A	54**	2145	2445	12	300	14	16
36	30*		N/A	54**	2165	2465	12	300	14	16
44	40*		N/A	103	3150	3550	24	600	18	20
44	50*		N/A	103	3165	3565	24	600	18	20

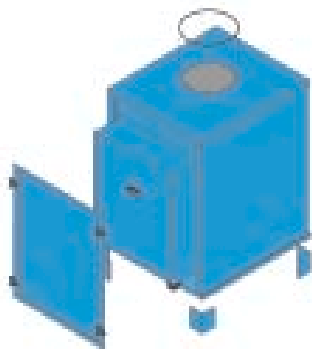
\* Models 36-20 and 36-30 available with direct or belt driven blowers. Model 44 available with belt driven blowers only.

\*\*Hopper sizes up to 103 cu ft are also available.

## Base Options



Two 55-Gallon Drums



Cabinet



Hopper



Surge Hopper

Information contained in this document is subject to change without notice.



**Industrial Air Solutions, Inc.**  
6300 Limousine Dr. Suite 120  
Raleigh, NC 27617  
[www.industrialairsolutions.com](http://www.industrialairsolutions.com)



**Toll Free (USA)**  
**1-877-844-3293**  
Fax 919-518-1667  
[info@industrialairsolutions.com](mailto:info@industrialairsolutions.com)