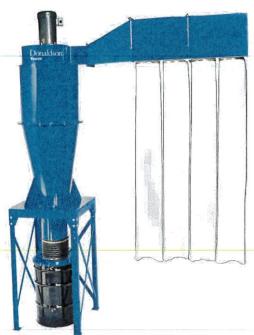
Donaldson.

CYCLONE DUST COLLECTORS

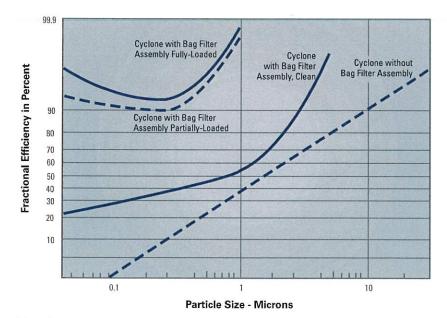
MODELS 12, 16, 20, 24, 30, 36, AND 44

Mechanical separator using centrifugal force to remove large and high-volume dust from industrial applications.

- 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 optional bag filter assembly, or as a pre-cleaner
- Applications from 300 13,000 cfm (510 22,082 m³/h)
- Heavy-duty construction for long life and low maintenance
- Meets most seismic and 90 mph (145 kmph), Exp C wind load ratings
- · Removable cone section for easy replacement



Cyclone Dust Collector with Optional Bag Filter Assembly

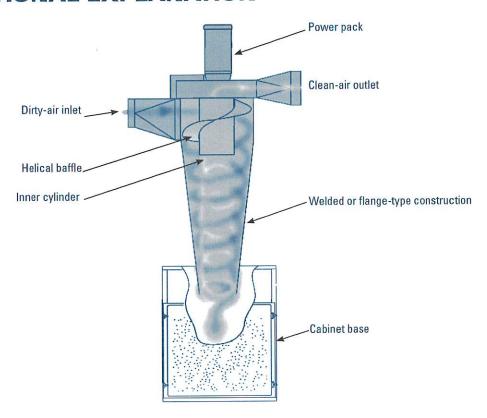


Fractional Efficiency is the ratio of particles collected to particles entering the cyclone.

This chart illustrates the efficiency* of a Cyclone collector with and without an optional filter bag assembly under clean, partially-loaded, and fullyloaded filter bag conditions.

^{*} Actual efficiency may vary depending on the application. Dust concentration, airflow, particle shape, and density affect filtration efficiency.

OPERATIONAL EXPLANATION



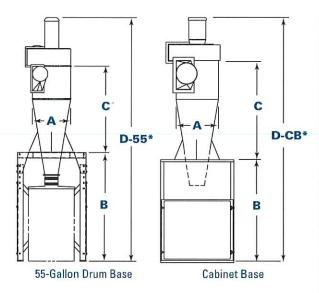
Dust-laden air enters the unit through the air inlet and is diverted by a helical baffle. Centrifugal force moves the heavy dust particles to the interior sidewalls and carries them to the base of the unit. Cleaned air is carried through the inner cylinder and discharges to atmosphere or optional afterfilters.

MULTIPLE RATING TABLE

Model	Nominal Air	flow Range*	External Static Pressure	Inlet Velocity			
	cfm	m³/h	("wg)	fpm	m/min		
12	300 - 540	510 - 917	5.6 - 4.1	3580 - 6200	1091.2 - 1889.8		
16	860 - 1,200	1,461 - 2,038	7.9 - 4.6	4380 - 6135	1335.0 - 1869.9		
20-3	1,250 - 2,000	2,123 - 3,397	7.5 - 3.7	3555 - 5710	1083.6 - 1740.4		
20-5	1,500 - 2,500	2,548 - 4,247	11.4 - 5.0	4290 - 7140	1307.6 - 2176.3		
24	1,950 - 3,500	3,312 - 5,945	13.4 - 4.4	3580 - 6450	1091.2 - 1966.0		
30-10	3,000 - 4,500	5,096 - 7,644	9.9 - 5.0	3820 - 5730	1164.3 - 1746.5		
30-15	4,000 - 5,600	6,795 - 9,512	11.0 - 4.9	5100 - 7140	1554.5 - 2176.3		
36-20	4,300 - 7,000	7,304 - 11,891	11.4 - 4.9	4015 - 6540	1223.8 - 1993.4		
36-25	4,500 - 7,500	7,644 - 12,740	14.9 - 6.3	4210 - 7010	1283.2 - 2136.6		
36-30	5,000 - 8,000	8,493 - 13,589	16.1 - 7.1	4670 - 7465	1423.4 - 2275.3		
44-40	8,000 - 11,500	13,589 - 19,534	15.1 - 5.5	4530 - 6510	1380.7 - 1984.2		
44-50	8,000 - 13,000	13,589 - 22,082	18.8 - 7.0	4530 - 7360	1380.7 - 2243.3		

^{*} Based on clean bag filters.

DIMENSIONS & SPECIFICATIONS



Model	Dimensions													
		Α		В		C	D	-55*	D-CB*					
	in	mm	in	mm	in	mm	in	mm	in	mm				
12	12	304.8	55	1397.0	32	812.8	100	2540.0	78	1981.2				
16	16	406.4	55	1397.0	36	914.4	108	2743.2	86	2184.4				
20-3	20	508.0	55	1397.0	48	1219.2	121	3073.4	114	2895.6				
20-5	20	508.0	55	1397.0	48	1219.2	123	3124.2	116	2946.4				
24	24	609.6	67	1701.8	55	1397.0	145	3683.0	126	3200.4				
30-10	30	762.0	67	1701.8	72	1828.8	162	4114.8	154	3911.6				
30-15	30	762.0	67	1701.8	72	1828.8	162	4114.8	154	3911.6				
36-20	36	914.4	67	1701.8	85	2159.0	183	4648.2	_	_				
36-25	36	914.4	67	1701.8	85	2159.0	186	4724.4	_					
36-30	36	914.4	67	1701.8	85	2159.0	186	4724.4	_	_				
44-40	44	1117.6	-	_	104	2641.6	_	-	-	_				
44-50	44	1117.6	-	_	104	2641.6	_		_	_				

^{*} Typical. May vary based on motor type/size ordered.

Model		nal Bag assembly	Mot	or (hp)	Air Inlet Air Outlet*			Dust Capacity				Shipping Weight				
	Filter Area		No. of Bag		Inside Diameter			Dust Drawer		Hopper		Standard		With Optional Bag Filter Assembly		
	fť	m²	Filters		in	mm	in	mm	fť	m²	fť	m²	lb	kg	lb	kg
12	15	1.4	1	3/4	4	101.6	6	152.4	4.8	0.4	12.0	1.1	325	147.4	350	158.8
16	25	2.3	1	2	6	152.4	8	203.2	4.8	0.4	12.0	1.1	390	176.9	410	186.0
20-3	70	6.5	4	3	8	203.2	10	254.0	8.5	0.8	19.5 [†]	1.8	600	272.2	740	335.7
20-5	70	6.5	4	5	8	203.2	10	254.0	8.5	0.8	19.5 [†]	1.8	640	290.3	740	335.7
24	100	9.3	4	7.5	10	254.0	12	304.8	8.5	0.8	37.5 [†]	3.5	750	340.2	850	385.6
30-10	200	18.6	8	10	12	304.8	14	355.6	16.5	1.5	37.5 [†]	3.5	1175	533.0	1400	635.0
30-15	200	18.6	8	15	12	304.8	14	355.6	16.5	1.5	37.5 [†]	3.5	1210	548.8	1486	674.0
36-20	300	27.9	12	20**	14	355.6	16***	406.4	_	_	54.0 [†]	5.0	2000	907.2	2300	1043.3
36-25	300	27.9	12	25**	14	355.6	16***	406.4			54.0 [†]	5.0	2145	973.0	2445	1109.0
36-30	300	27.9	12	30**	14	355.6	16/18***	406.4	_	_	54.0 [†]	5.0	2165	982.0	2465	1118.1
44-40	600	55.7	24	40**	18	457.2	20	508.0			103.0	9.6	3150	1428.8	3550	1610.3
44-50	600	55.7	24	50**	18	457.2	20	508.0	_		103.0	9.6	3165	1435.6	3565	1617.1

^{*} Based on clean filters.

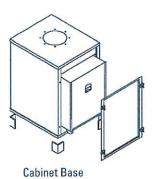
** Model 36-20 and 36-30 available with direct- or belt-drive blowers. Model 36-25 and 44 available with belt-drive blower only.

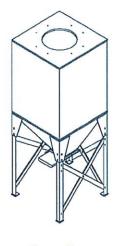
† Up to 103 ft (2.92 m) hopper available.

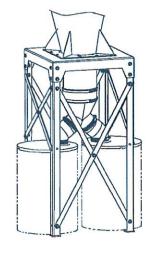
++ Round outlets are available when collector is ordered with optional outlet transition

+++Optional round outlet on size 36-20, 36-25 and 36-30 cyclone with belt drive fan has a 16" diameter. For 36 with a direct drive fan, only the 36-30 has an optional round outlet. This has an 18" diameter.

BASE OPTIONS









Hopper Base

Two-Drum Style 55-Gallon Drum Base (optional)

Surge Hopper (optional)

STANDARD FEATURES & AVAILABLE OPTIONS

STANDARD [†]	OPTIONAL						
Inlet assembly	Power pack						
55-gallon (208.2-liter) drum base for Models 12 though 36	Explosion-proof motors						
TEFC motor with 60 Hz 1 HP and larger are EISA compliant	50 Hz, single phase motors						
103 cu. ft. hopper and legs for Model 44	Steel or aluminum fan wheels						
208/230/460/60/3 voltages	Hopper base						
10-year warranty	Two 55-gallon (208.2-liter) drum base for Models 20, 24, and 30						
† Donaldson Torit equipment is designed to IBC guidelines for specific wind speed exposure and	Cabinet base for Models 12, 16, 20, 24, and 30						
seismic spectral acceleration at grade level. Contact your Donaldson Torit representative for detailed information available on the equipment's Spec Control drawings. Equipment may be customized to meet unique, customer-specified site requirements.	Surge hopper						
	Silencer						
	Exhaust accessories						
	Attenuator						
Significantly improve the performance of your	Bag filter options						
collector with genuine Donaldson Torit replacement filters and parts.	Bag filter enclosure						
Call Donaldson Torit at 800-365-1331.	Explosion vent						

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Joint Scope Meeting



Once a project is entered, Gordian will contact you to schedule a Joint Scope Meeting at the site with us to inspect the site and ask questions before submitting a Price Proposal, helping eliminate potential misunderstandings and mistakes.

Detailed Scope of Work

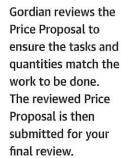


Gordian will review a Detailed Scope of Work describing the work we'll perform for you. From there, they will send the SOW and Request for Proposals to us.

Price Proposal

We'll prepare a Price Proposal by selecting the appropriate tasks from the Construction Task Catalog® (CTC). We'll then submit our Price Proposal along with a construction schedule.

Price Proposal Review



Purchase Order Issued

Once you have approved the Price Proposal, construction schedule, proposed subcontractors and any other require documents, you can issue a purchase order for work to begin.





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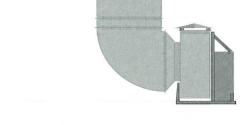


Preserving the seal on HVAC ducts can improve efficiency by... 20%

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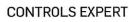
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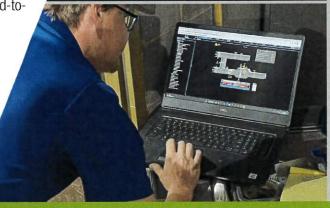
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