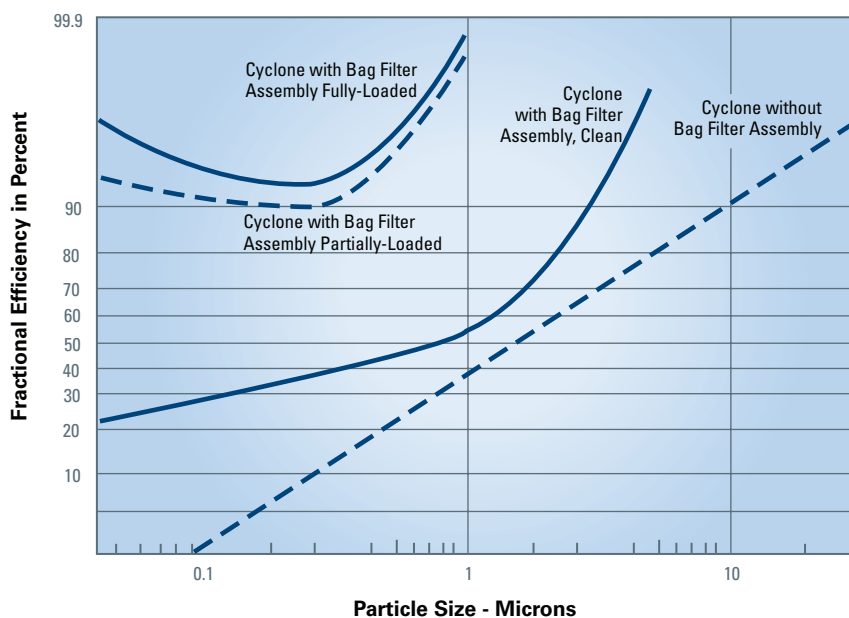


Mechanical separator using centrifugal force to remove large and high-volume dust from industrial applications.

- 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 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.



Cyclone Dust Collector
with Optional Bag Filter Assembly



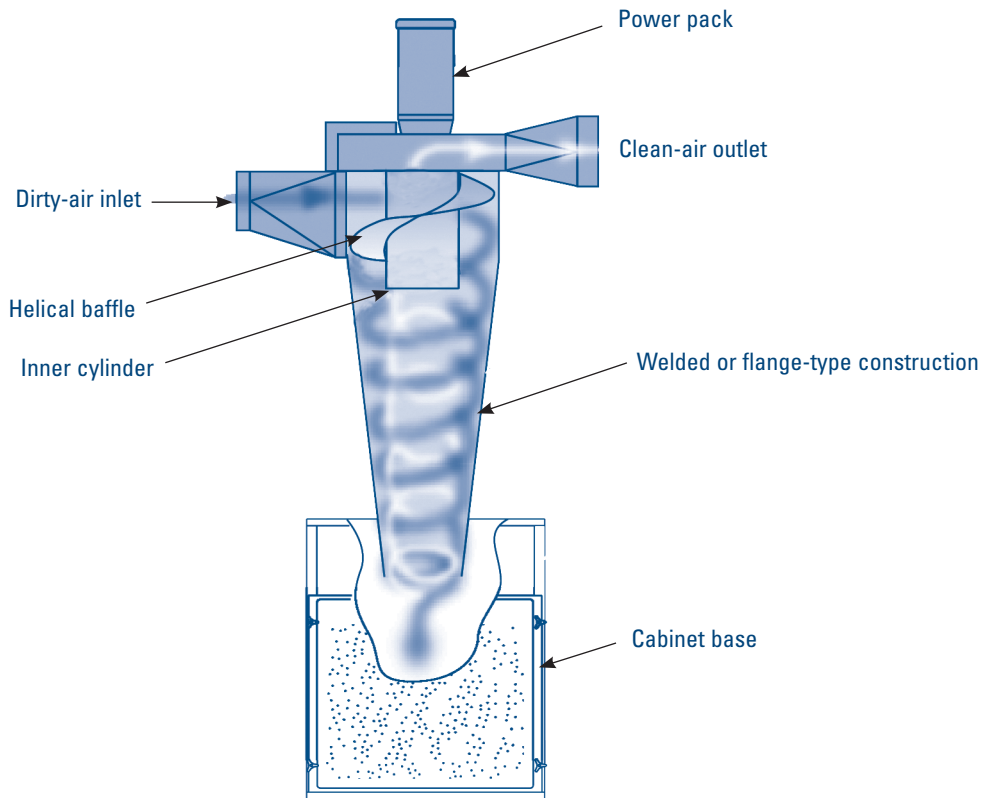
Fractional Efficiency is the ratio of particles collected to particles entering the cyclone.

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

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

CYCLONE DUST COLLECTORS

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 to the interior sidewalls and carries them to the base of the unit. Clean air is carried through the inner cylinder and discharges to atmosphere or optional afterfilters.

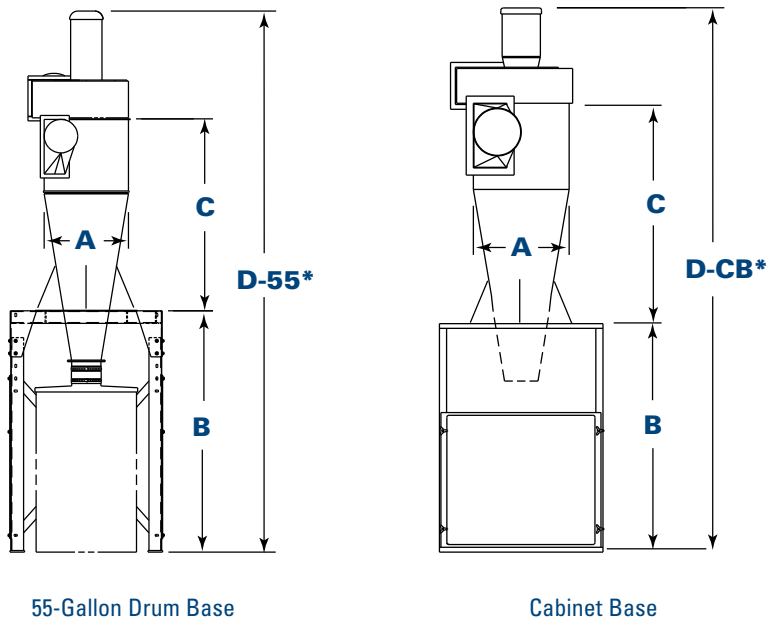
MULTIPLE RATING TABLE

| Model | Nominal Airflow Range* (cfm) | External Static Pressure ("wg) | Inlet Velocity (fpm) |
|-------|---------------------------------|-----------------------------------|-------------------------|
| 12 | 300 - 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 - 11,500 | 15.1 - 5.5 | 4530 - 6510 |
| 44-50 | 8000 - 13,000 | 18.8 - 7.0 | 4530 - 7360 |

* Based on clean bag filters.

CYCLONE DUST COLLECTORS

DIMENSIONS & SPECIFICATIONS



| Model | Dimensions (inches) | | | | |
|-------|---------------------|----|-----|-------|-------|
| | A | B | C | D-55* | D-CB* |
| 12 | 12 | 55 | 32 | 100 | 78 |
| 16 | 16 | 55 | 36 | 108 | 86 |
| 20-3 | 20 | 55 | 48 | 121 | 114 |
| 20-5 | 20 | 55 | 48 | 123 | 116 |
| 24 | 24 | 67 | 55 | 145 | 126 |
| 30-10 | 30 | 67 | 72 | 162 | 154 |
| 30-15 | 30 | 67 | 72 | 162 | 154 |
| 36-20 | 36 | 67 | 85 | 183 | — |
| 36-25 | 36 | 67 | 85 | 186 | — |
| 36-30 | 36 | 67 | 85 | 186 | — |
| 44-40 | 44 | — | 104 | — | — |
| 44-50 | 44 | — | 104 | — | — |

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

| Model | Nominal Airflow Range* (cfm) | Optional Bag Filter Assembly | | Motor (hp) | Air Inlet (in) | Air Outlet (in) | Dust Capacity (ft ³) | | Shipping Weight (lbs) | |
|-------|------------------------------|--------------------------------|--------------------|------------|----------------|-----------------|----------------------------------|--------|-----------------------|-----------------------------------|
| | | Filter Area (ft ²) | No. of Bag Filters | | | | Dust Drawer | Hopper | Standard | With Optional Bag Filter Assembly |
| 12 | 300 - 540 | 15 | 1 | ¾ | 4 | 6 | 4.8 | 12.0 | 325 | 350 |
| 16 | 860 - 1200 | 25 | 1 | 2 | 6 | 8 | 4.8 | 12.0 | 390 | 410 |
| 20-3 | 1250 - 2000 | 70 | 4 | 3 | 8 | 10 | 8.5 | 19.5† | 600 | 740 |
| 20-5 | 1500 - 2500 | 70 | 4 | 5 | 8 | 10 | 8.5 | 19.5† | 640 | 740 |
| 24 | 1950 - 3500 | 100 | 4 | 7.5 | 10 | 12 | 8.5 | 37.5† | 750 | 850 |
| 30-10 | 3000 - 4500 | 200 | 8 | 10 | 12 | 14 | 16.5 | 37.5† | 1175 | 1400 |
| 30-15 | 4000 - 5600 | 200 | 8 | 15 | 12 | 14 | 16.5 | 37.5† | 1210 | 1486 |
| 36-20 | 4300 - 7000 | 300 | 12 | 20** | 14 | 16 | — | 54.0† | 2000 | 2300 |
| 36-25 | 4500 - 7500 | 300 | 12 | 25 | 14 | 16 | — | 54.0† | 2145 | 2445 |
| 36-30 | 5000 - 8000 | 300 | 12 | 30** | 14 | 16 | — | 54.0† | 2165 | 2465 |
| 44-40 | 8000 - 11,500 | 600 | 24 | 40** | 18 | 20 | — | 103.0 | 3150 | 3550 |
| 44-50 | 8000 - 13,000 | 600 | 24 | 50** | 18 | 20 | — | 103.0 | 3165 | 3565 |

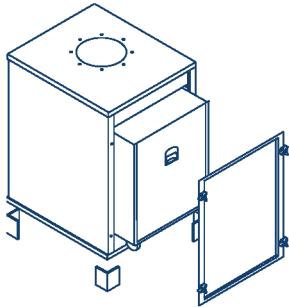
* Based on clean filters.

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

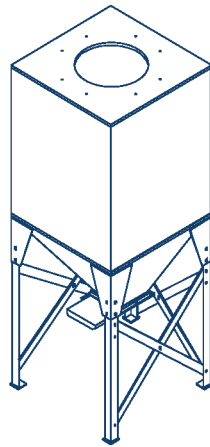
† Up to 103 cu ft hopper available.

CYCLONE DUST COLLECTORS

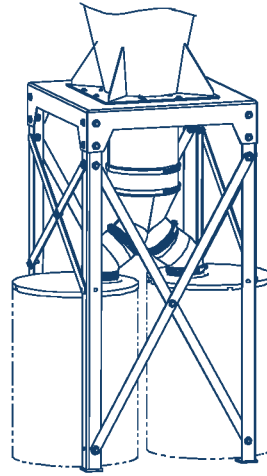
BASE OPTIONS



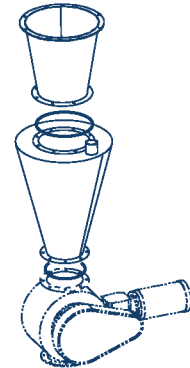
Cabinet Base



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 drum base for Models 12 through 36 | Explosion-proof motors |
| TEFC motor (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 drum base for Models 20, 24, and 30 |
| | Cabinet base for Models 12, 16, 20, 24, and 30 |
| | Surge hopper |
| | Silencer |
| | Exhaust accessories |
| | Attenuator |
| | Bag filter options |
| | Bag filter enclosure |
| | Explosion vent |

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Data Sheet Cyclone Dust Collectors (08/11)

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