

CYCLONE DUST COLLECTOR

APZEM cyclonic separation process captures 99.98% of all wood chips and dust particles that enter the Cyclone Dust Collector. Centrifugal force drops particles of all sizes out of the air stream - everything from chips to microscopic particles. A dust bin positioned underneath the funnel captures the dust and chips in a trash container.

FEATURES

- 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
- All welded heavy construction
- Internal helix
- Integral fan and motor assembly
- Rotatable blower housing
- Square to round inlet
- Flanged outlet
- Support stand for drum style
- Barrel top adapter with flexible connection



TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW

MODEL NO	DESCRIPTION
CD908	800-1200 CFM, cyclone dust collector.
CD912	1200 - 2000 CFM, cyclone dust collector.
CD915	1500 - 2500 CFM, cyclone dust collector.
CD920	2000 - 3200 CFM, cyclone dust collector.
CD928	2800 - 4300 CFM, cyclone dust collector.
CD938	3800 - 5200 CFM, cyclone dust collector.
CD942	4200 - 6500 CFM, cyclone dust collector.
CD945	4500 - 7200 CFM, cyclone dust collector.
CD950	5000 - 7500 CFM, cyclone dust collector.
CD970	7000 - 9200 CFM, cyclone dust collector.
CD985	8500 - 12500 CFM, cyclone dust collector.

OPERATION OF CYCLONE DUST COLLECTOR

APZEM Cyclone produces the separation of the powders due to inertial forces effect; moreover, it forces the airflow to dedust at an helical motion, on itself, inside of a room in development tapered downward.

The air moved by a fan enters down from above where it is forced to a circular motion between two concentric walls.

It therefore creates into the cyclone a swirling air motion. The solid particles of dust are pushed by centrifugal action against the inner walls of the cylinder body.

Gradually, and with continuity, they descend down with spiralling motion to the neck of the cyclone to fall within the bin or are discharged through a rotary valve.

We propose to use the APZEM-Cyclone as pre-dedusting system, combined with our HJL or Pulsatron Compact filters in a wide range of industrial processes where have to be treated rough and dry powders or in the presence of sparks. The load loss in these cyclones varies between 60 and 130 mm H₂O.

ADVANTAGES

- High Efficiency
- Durable quality
- Low Maintenance
- Compact design
- Stable pressure drop
- High temperature capability
- No moving parts within the conveying system
- Low operation and maintenance cost compared to screw conveyors.

INDUSTRIES CATERED

- Plastic / Polymer Industries
- Agro Industries
- Wood working industries
- Cement Industry
- Paper Mills
- Textile Industries
- Tobacco Processing Industries
- Food Processing Industries (Grain Handling)
- Paint Booths
- Paint processing Industries
- Powder Coating Industries
- Plastic / Polymer Printing and Processing Industries