

Polex Environmental Engineering Pty Ltd
ACN 121 129 842

Polex™ CYCLONES

Description

Polex offers a large range of Cyclones which are available in a variety of materials and finishes.

Operating Principle

Polluted air first enters the cyclone through a rectangular inlet near the top. Centrifugal force is produced as the air enters and the dusty air spirals downwards. The heavier dust particles are forced onto the walls of the cyclone due to the centrifugal force and then fall into the bin below. The lightly and finer particles travel up through a cylindrical tube located in the centre of the cyclone and exit for further filtration by other equipment downstream (eg. Fabric dust collectors).

Construction

Fully welded Galvanised sheetmetal.

Applications

Cyclones are generally used for pre-separation of large dust particles from an air-stream. Finer and lighter particles in the air-stream are generally collected by fabric dust collectors located further downstream of the process. Rotary valves are commonly connected to the product discharge of cyclones to feed collected dust into collection bins below, or into other equipment such as screw-conveyors, transfer fans and silos.

They are used in powder processing plants, timber workshops and various manufacturing plants.

Options

- Fans
- Dust collectors
- Ducting
- Silencers
- Electric controls
- Rotary valves



Polex model CV1800 Cyclone

- Suitable for a range of applications
- Can be designed for specific airflow requirements

Models

Model	Body Diameter (mm)	Air Discharge Diameter (mm)	Overall Height *	Thickness (mm)	Max. Airflow (m ³ /h) **
PC400	400	250	2790	1.6	1600
PC500	500	250	2790	1.6	2500
PC700	700	400	3500	2	5000
PC1000	1000	550	4725	2	8000
PC1300	1300	700	6090	2	15000
PC1600	1600	800	6420	2	25000
PC1800	1800	1000	7250	2	35000

* The overall height allows for 1m product discharge clearance from ground.

** Medium efficiency cyclones listed only.

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