

# CYCLONE

## DUST COLLECTION SYSTEM





## OUR MISSION

**“TO IMPROVE THE HEALTH, SAFETY,  
AND QUALITY OF PEOPLE’S LIVES  
BY BUILDING THE BEST DUST AND  
FUME COLLECTORS ON EARTH”**

IMPERIAL SYSTEMS, INC.

B R E A T H E   B E T T E R ,   W O R K   S A F E R



## Features

- Custom engineering to meet specific applications
- Coned tops for rain run off
- Fabricated from carbon steel, stainless steel, and AR plate
- Fully welded construction from 12 gauge to 3/8" plate on some models
- Stitch welded interiors
- Used in a variety of industries (plastics, wood, grain, metals, fume, etc.)
- 12" inspection door above material discharge (optional)



## System Options

- Structural supports custom engineered to meet customer's requirements
- Inlet and outlet transitions for duct connections
- Outlet dampers
- Vortex breaker/Expansion chamber
- Insulation for high temp applications
- Rubber lined body and cone for high abrasion applications
- Inlet linings out of AR plate, stainless steel, rubber, etc.
- Multiple inlets and back draft dampers
- Ceramic linings for high temp and abrasive applications
- Efficiency guarantee if required
- Particle laboratory testing
- Multi-clone model available

# CYCLONE APPLICATIONS

An Imperial Systems cyclone can efficiently separate grain from waste and large particles. Cyclones are a staple of the grain processing industry. Our cyclones are in use at a variety of grain processors across the country, from small facilities to large grain handling operations.

## GRAIN INDUSTRY



## SHOT BLASTING

The size and weight of particles used in shot blasting varies considerably. Imperial Systems has extensive experience in the shot blast industry. Our cyclones have options for special liners that can handle abrasive materials, and they can separate heavier blasting medium from dust.



Cyclones are used in woodworking to collect coarse sawdust as well as wood pieces and debris. An Imperial Systems cyclone can keep debris from entering a dust collector and damaging the filters. Our presence in the woodworking industry continues to grow every day.

## WOODWORKING



## FIBERGLASS DUST

Imperial Systems has extensive experience in the fiberglass industry. Our cyclones can be used after sanding or cutting to separate larger pieces of material from the finer dust. This allows the fine dust to be handled by a filter system without large particles damaging the filters.



Cyclones are used in the paper industry to collect paper scraps and trimming, which is usually recycled. Imperial Systems cyclones prevent waste by filtering out paper that can then be baled and reused in the paper-making process.

## PAPER TRIM



## RECYCLING

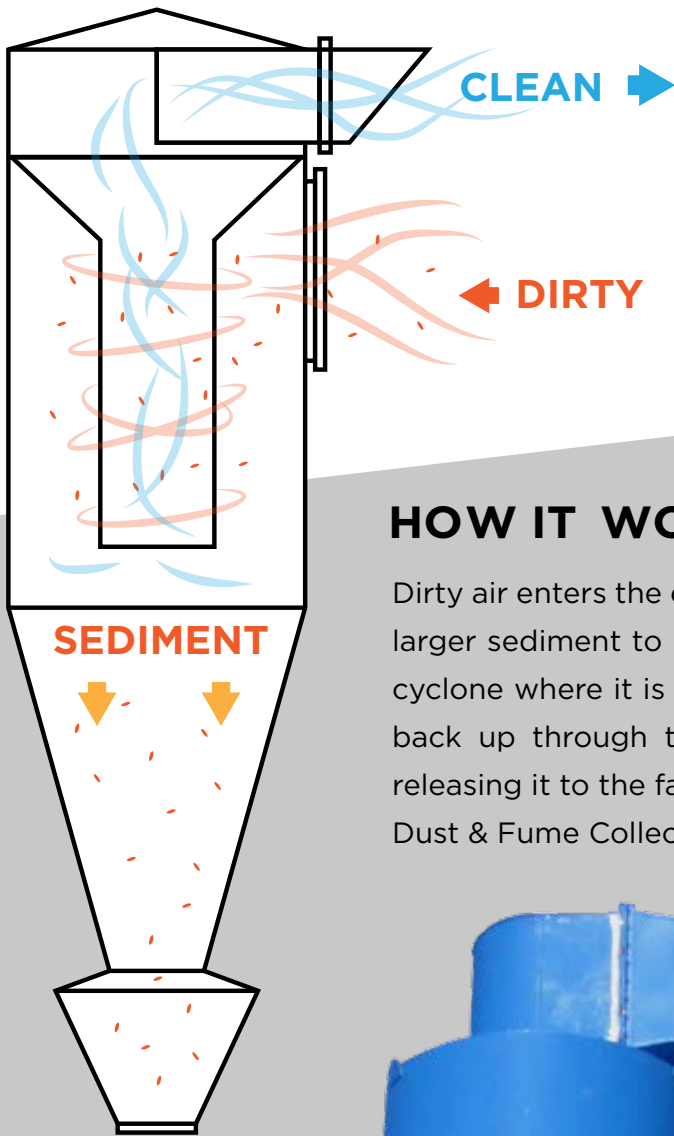
Recycling is a diverse field, and Imperial Systems cyclones are used on everything from scrap metal to tires. Cyclones can remove fibrous material that might clog up filters in a dust collector, or separate valuable metal scraps from dirt and debris.



In many industries, companies want to reclaim material so it can be reused. An Imperial Systems cyclone can separate heavier and lighter materials. Our cyclones are designed for each customer's individual needs and the materials they are working with.

## MATERIAL RECLAIM





## HOW IT WORKS

Dirty air enters the cyclone and spins around the center. This causes larger sediment to be knocked out and travel down the rest of the cyclone where it is collected underneath. The clean air then travels back up through the center and is released out the top, either releasing it to the facility or outside, or moving it towards a CMAXX Dust & Fume Collector or a BRF Baghouse Dust Collector.



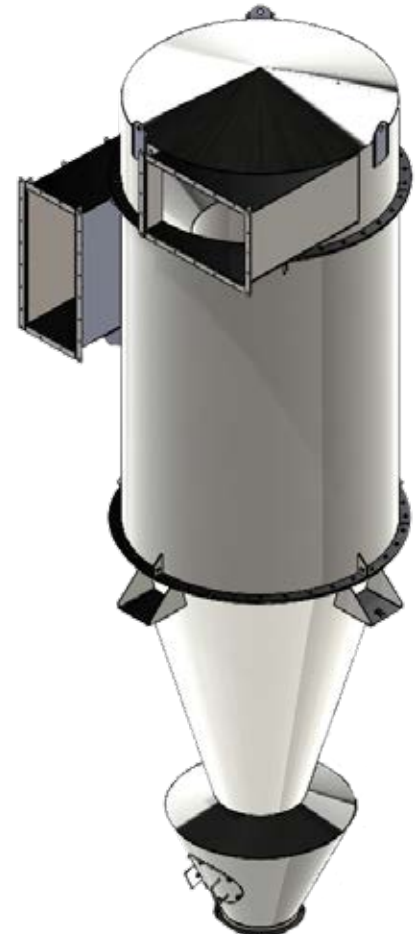
## Standard Efficiency: 120 CFM to 8,000 CFM

Model	CFM	Weight (Lbs)	Diameter
SE13	100-300	80	13
SE17	200-500	145	17
SE20	300-700	200	20
SE30	500-1200	380	30
SE36	800-2200	550	36
SE42	1200-3000	710	42
SE51	1700-4000	1050	51
SE60	1700-4000	1420	60
SE68	3200-8000	1790	68



## High Efficiency: 7,000 CFM to 45,000 CFM

Model	CFM	Weight (Lbs)	Diameter
HE51	6200-8800	1309	51
HE54	7200-10200	1437	54
HE60	8600-12200	1693	60
HE68	11000-15600	2072	68
HE74	13200-18800	2374	74
HE85	17700-25100	3104	85
HE96	22800-32400	5576	96
HE108	28600-40600	6993	108
HE120	35600-50400	8400	120
HE132	42700-60500	9682	132
HE144	50500-71600	11369	144





**BREATHE BETTER, WORK SAFER**

**IMPERIAL SYSTEMS INC.**

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