

No more streamers, angel hair or dust for higher quality parts

Conair's DeDuster® C-50 is an in-line separator that removes dust, angel hair and streamers from material before it is converted. The patented DeDuster is perfect for applications with throughputs up to 50 lbs/hr {22 kg/hr} where processors have problems with black spots, gels, or weak spots in parts. The DeDuster removes these problems which results in reduced scrap rates, higher quality parts, and increased profit.

Installation and operation are simple. The included level sensor automatically stops and starts the flow of material to keep up with demand. The On/Off switch starts the unit and two hand-knobs are used to adjust the cleaning airflow and resin feed rate. Visual proof of dedusting is evident through the clear window. Removed dust and streamers are collected in a clear container that can be easily removed and emptied in seconds, without any tools.

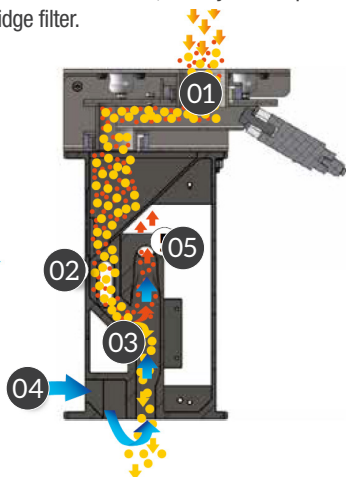


Model C-50

Excellent Pellet Cleaning, and Dust Extraction Results

How does it work?

- A pneumatic vibratory feeder (patent pending) doses the resin into the DeDuster. A hand-knob is used to adjust the resin flow rate.
- An ion generator neutralizes the static charge that holds dust on the surface of the resin.
- A compressed air driven vacuum generator creates the counter flow air stream that separates streamers and dust from the falling pellets or regrind.
- Cleaning air from the atmosphere enters through a filter. Unwanted dust and streamers are sent to the integrated dust collector, with cyclone separator and cartridge filter.



▶ Ideal for medical applications, injection molders, and extruders

The physics of the venturi, in combination with the strategically placed ionizer ensure that the dust and streamers are separated from the pellets. This combined with the steady flow rate is what creates the clean dust-free pellets required for medical and other precise part production with low scrap rates.

▶ Compact size for easy retrofitting, and lower stack height

Whether you're planning installation of a new line, or just want to add the DeDuster® to your existing equipment on the molding machine, the 13.25 inch {337 mm} height of the unit is a huge benefit. Adding this small 40 lb {18 kg} DeDuster will eliminate countless bad parts.

▶ Amazing ROI

For less than the cost of about a month's worth of scrapped parts due to blemishes and imperfections, you can add the DeDuster to your process. Reducing scrap rate immediately increases your bottom line.

▶ Performance you can see

DeDuster performance is highly visible as dust and streamers are collected in the clear collection container. Watch the patented science work, producing better processing and eliminating waste.

01 Controlled Feed Zone

03 Venturi Zone

05 Dust Collector

02 Ionizing Zone

04 Air Inlet



Application/Installation

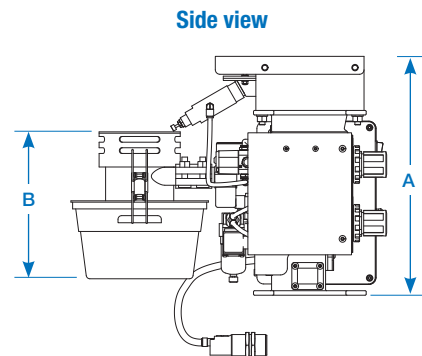
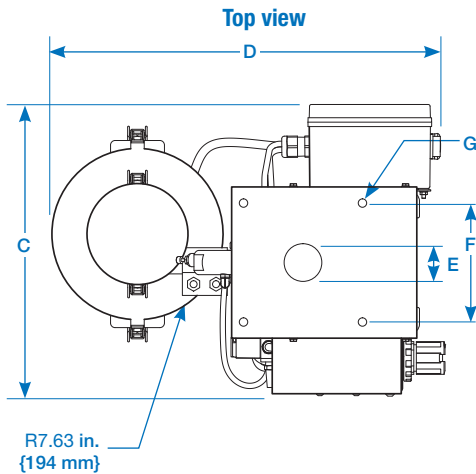
The lightweight C-50 DeDuster® is just 40 lb {18 kg} and 13.25 inches {337 mm} tall. The C-50 requires only single phase power and plant compressed air. Material is typically fed by gravity from a hopper loader that has an integrated flapper valve. **Just plug it in, connect a 1/4-inch compressed air line, and position the level sensor on a sight glass below the DeDuster.**

Material is typically fed to the hopper above the C-50 by a TubeLoader. The C-50 features an integrated variable speed feeder on the inlet, to dose resin through the cleaning zone at the desired rate. Turning the feed rate control knob during setup changes the resin flow rate for the desired application. The feeder automatically stops feeding when the level sensor below the DeDuster detects resin, and begins feeding again when needed. The maximum allowable temperature of the material that is processed by the C-50 DeDuster is 180° F {82° C} so it is typically mounted to dryer inlets where the material is cooler than that limit.

- 01 _____
C-50 DeDuster
- 02 _____
Vacuum loader (TLM model shown)
- 03 _____
Transition hopper
- 04 _____
Sight glass
- 05 _____
Level sensor



Specifications



Model	C-50
Flow rate (pellet throughput)	50 lbs/hr {22 kg/hr} at 35 lbs/ft ³ density 80 lbs/hr {35 kg/hr} at 56 lbs/ft ³ densities
Dimensions inches {mm}	
A - Overall height	12.34 {314}
B - Canister and dust path height	8.15 {207}
C - Width	13.00 {330}
D - Overall depth	17.51 {445}
E - Material inlet	1.68 {43}
F - Bolt pattern (square)*	5.3 {135}
G - Through holes (4 holes)	0.38 {10}
Material outlet (matches inlet)	1.68 {43}
Approximate weight lb {kg}	
Installed weight	40 {18.2}
Shipping weight	46 {20.9}
Available voltages - Approximate full load amps[†]	
110 -240 VAC (50/60 Hz) at < 0.5 A	7.0
Compressed air requirements	10 SCFM {17 Nm ³ /hr} at 90 psig {6 barg} source pressure

Specification Notes

* Top and bottom mounting patterns are the same.

† FLA data for reference purposes only. Does not include any options or accessories on equipment. For full FLA detail for power circuit design of specific machines and systems, refer to the electrical diagrams of the equipment order and the nameplate applied to the machine.

Specifications may change without notice. Consult with a Conair representative for the most current information.

