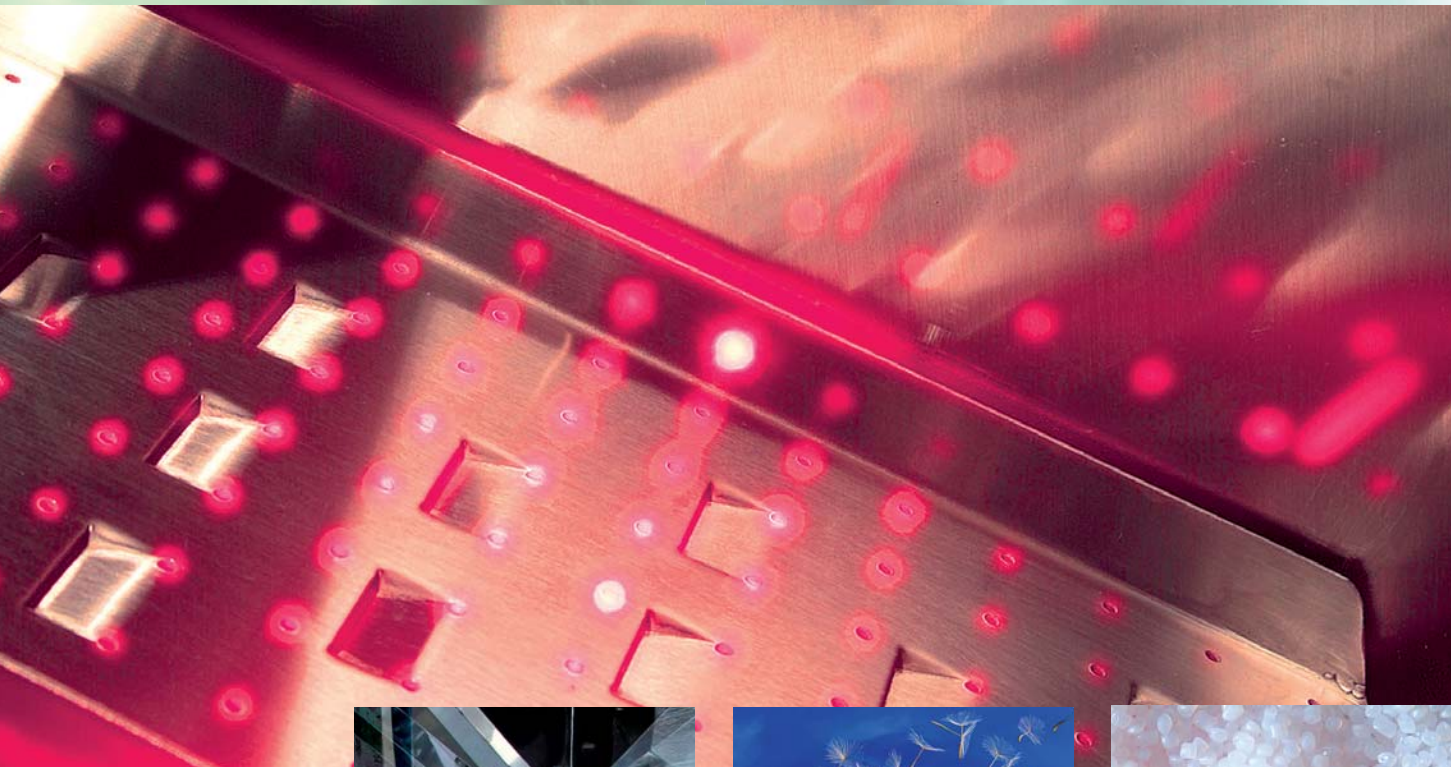


pe:etron

Discover **Bulkmatology**[®]
The Nature of Bulk Material Handling

DeDusting Solutions for the plastics industry



Mid and Max Series DeDuster®

Mid Series

P10	1,000 lbs/h	500 kg/hr
P30	3,000 lbs/h	1,500 kg/hr
P50	5,000 lbs/h	2,500 kg/hr
P80	8,000 lbs/h	4,000 kg/hr
P120	12,000 lbs/h	6,000 kg/hr
P200	20,000 lbs/h	10,000 kg/hr



Max Series

P400	40,000 lbs/h	20,000 kg/hr
P600	60,000 lbs/h	30,000 kg/hr
P800	80,000 lbs/h	40,000 kg/hr
P1200	120,000 lbs/h	60,000 kg/hr
P2000	200,000 lbs/h	100,000 kg/hr



XP Series

XP5	1,000 lbs/h	500 kg/hr
XP15	3,000 lbs/h	1,500 kg/hr
XP45	9,000 lbs/h	4,500 kg/hr
XP90	18,000 lbs/h	9,000 kg/hr
XP180	36,000 lbs/h	18,000 kg/hr
XP360	72,000 lbs/h	36,000 kg/hr
XP720	144,000 lbs/h	72,000 kg/hr
XP900	180,000 lbs/h	90,000 kg/hr



Application solutions

- For bagging stations
- For truck & railcar loading
- As stand alone system
- As mobile station

Benefits

- Removes dust and streamers
- Reduces customer complaints
- Improves product quality
- Reduces housekeeping costs

Dust and streamers are generated at the pneumatic conveying process. Dilute phase systems with high velocities create a high amount of dust and streamers. Slow motion conveying systems prevent the creation of streamers, but generate very fine dust due to the high friction. These fines need to be removed before processing, extrusion or before packaging.



Cleaned plastic pellets

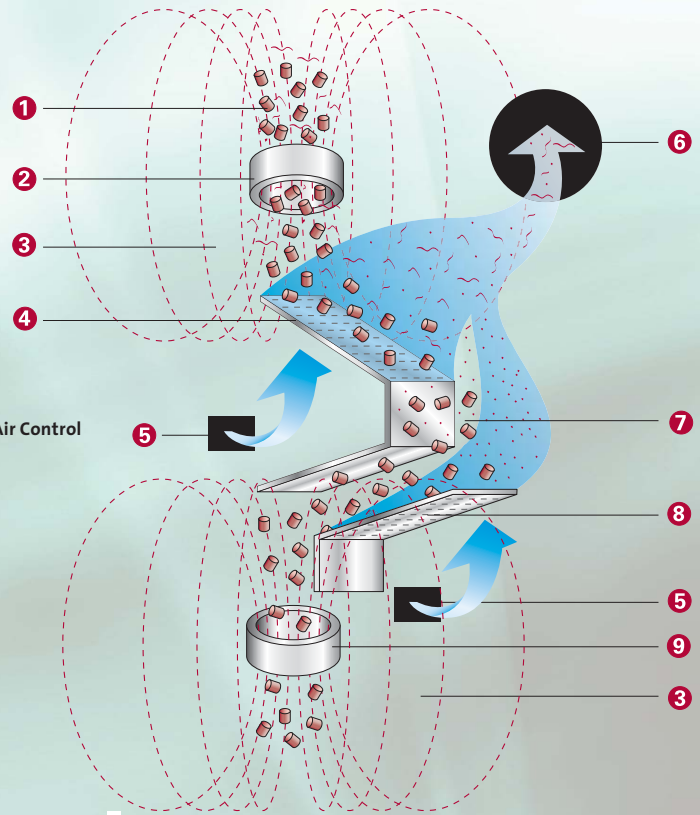


Dusty plastic pellets

Operating Principle

- 1 Product Inlet
- 2 Primary Flux Field Generator
- 3 Magnetic Field
- 4 Primary Wash Deck
- 5 Wash Air Inlet
- 6 Dusty Air Outlet
- 7 Venturi Chamber with By-Pass Air Control
- 8 Secondary Wash Air Deck
- 9 Secondary Flux Field Generator

XP-DeDuster® uses one Primary Flux Field Generator only



DeDusting Solutions

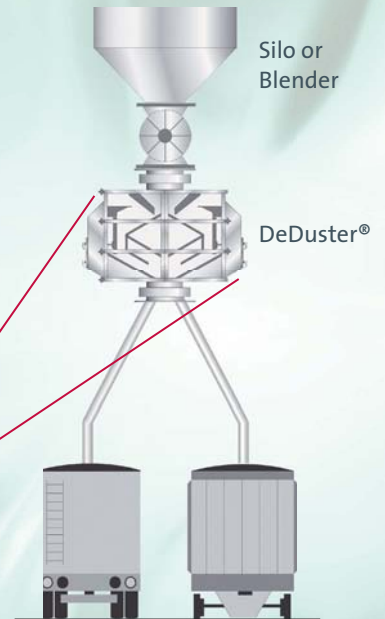
Pelletron DeDuster® use a magnetic flux field to disrupt the electrostatic charge between contaminants and pellets, and a patented air wash deck to separate and remove the contaminants. Pelletron provides DeDuster® for the Plastic Processing and Plastic Manufacturing Industry, as well as for Food, Mineral, Pharmaceutical, Chemical and other applications. DeDusters are available in sizes 100lbs/h (50kg/h) up to 20000lbs/h (100t/h).



P1200 DeDuster®, 60 t/h capacity in a PET loading station.

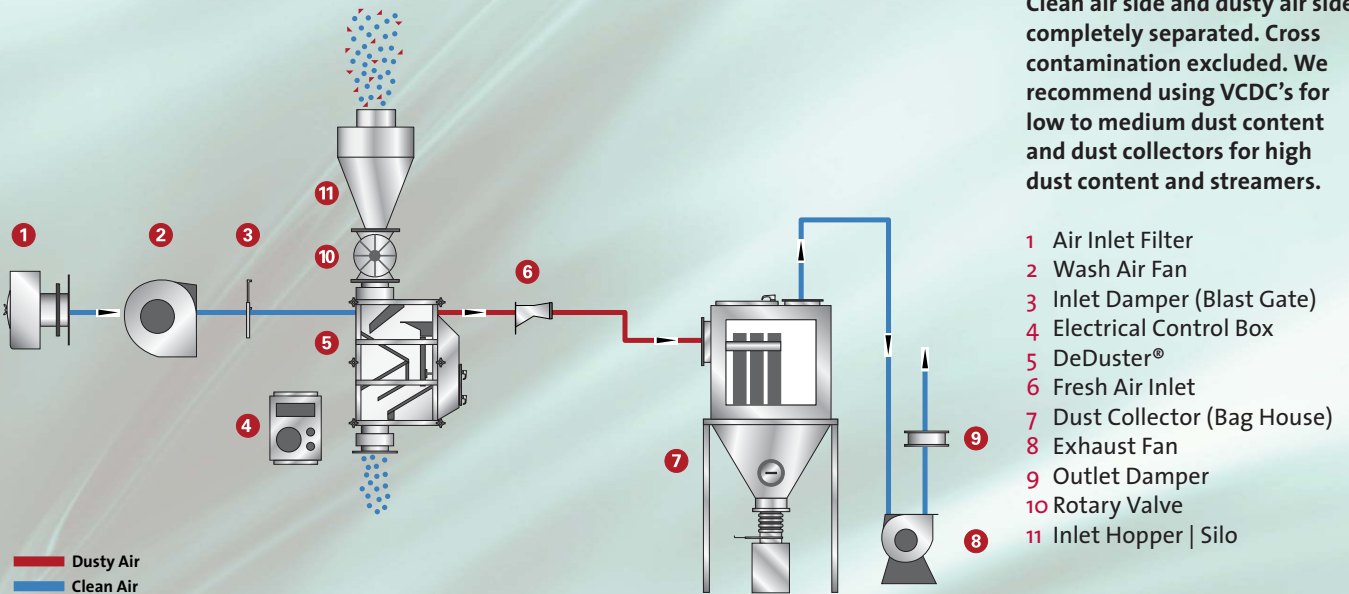


The best location for DeDusting is always at the end of the pellet handling process, before packaging or loading.



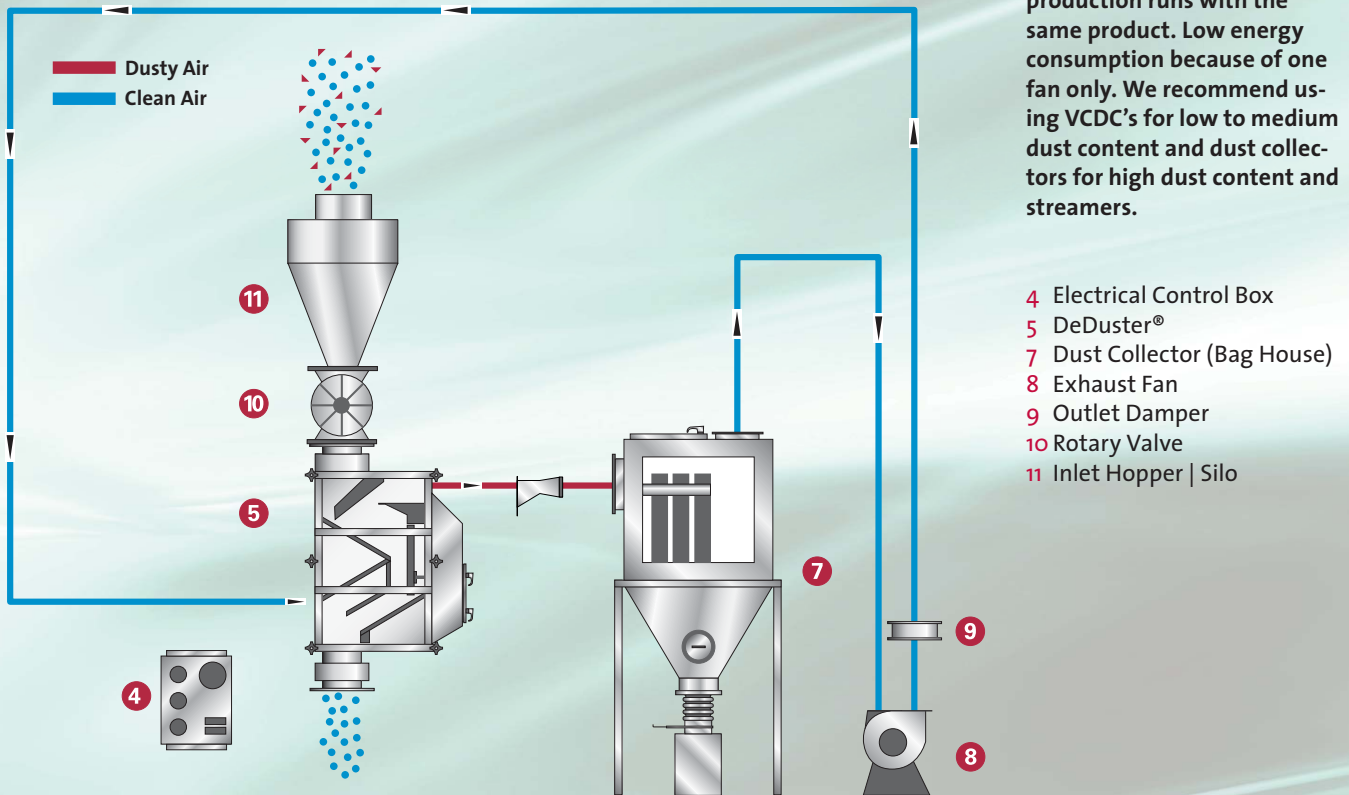
Installation Examples

Open loop system with dust collector or patented Vertical Cyclonic Dust Collector



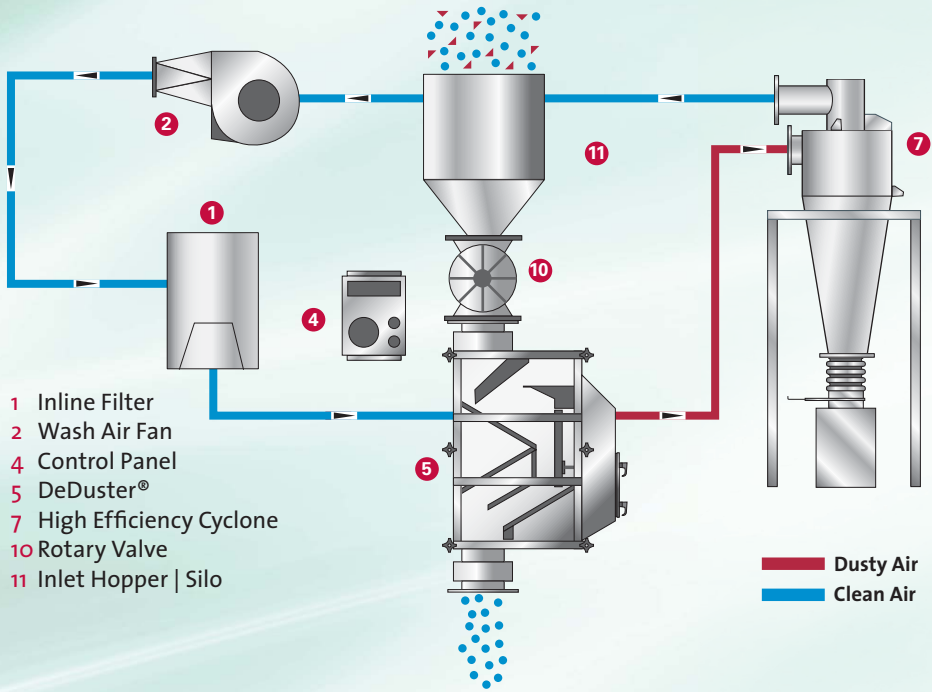
For application with frequent product and /or color changes. Clean air side and dusty air side completely separated. Cross contamination excluded. We recommend using VCDC's for low to medium dust content and dust collectors for high dust content and streamers.

Closed loop system with dust collector or patented Vertical Cyclonic Dust Collector



For application with dried air or inert gas (N₂). For long production runs with the same product. Low energy consumption because of one fan only. We recommend using VCDC's for low to medium dust content and dust collectors for high dust content and streamers.

.....
Closed loop system with patented CCD solution (Compact Cyclonic DeDuster®)



- 1 Inline Filter
- 2 Wash Air Fan
- 4 Control Panel
- 5 DeDuster®
- 7 High Efficiency Cyclone
- 10 Rotary Valve
- 11 Inlet Hopper | Silo

For application with very high dust loads, regrind and long streamers. Very compact design. Also recommended for mobile stations.



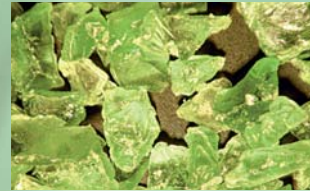
CCD system on Gaylord stand



P800 DeDuster® cleaning 40 T/H with LDPE while loading railcars



Discover **Bulkmatology**[®]
The Nature of Bulk Material Handling



Cleaned regrind



Dusty regrind



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