

C-20 DeDuster®

No more dust or short streamers

The Pelletron **C-20 DeDuster®** removes dust and short streamers from virgin and regrind material before it enters injection molding machines or extruders. It can be installed directly on the throat of those machines or on upstream equipment like blenders and dryers. Pelletron's **C-20 DeDuster®** is perfect for applications up to 23 kg/h where defects like black spots, gels or weak spots are not acceptable. The **C-20 DeDuster®** solves these problems resulting in reduced scrap rates, higher quality parts and increased profit.

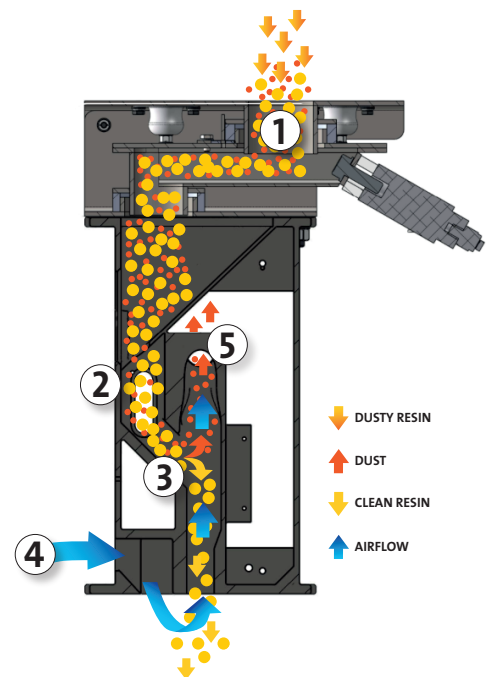
Installation and operation are simple. Installation requires a 24 V DC connection and a 6 bar compressed air supply are required for installation. The **C-20 DeDuster®** has an on/off switch, two signal lights and two adjustment controls. Two adjustment controls are used to set the cleaning air flow and the vibration delivery. A sight glass in the **C-20 DeDuster®** allows observation of how the dust and short threads are removed from the material. A transparent dust container collects the separated material.



Excellent Results

C-20 DeDuster® Operation

- 1 Controlled Feed Zone:** The **C-20 DeDuster®** has a vibratory feeder driven by a pneumatic motor that doses the resin, with whatever dust and streamers it contains, into the unit. A knob for adjusting the resin flow rate is easily accessible on the front of the **C-20 DeDuster®**.
- 2 Ionizing Zone:** Compressed air uniformly distributes negative ions from the ion generator to neutralize the static charge that holds dust on the surface of the resin.
- 3 Venturi Zone:** An efficient compressed air operated vacuum generator creates the counter flow air stream that separates streamers and dust from the falling pellets or regrind.
- 4 Air Inlet:** The cleaning air is pulled from the atmosphere through a filtered opening on the side of the **C-20 DeDuster®**.
- 5 Dust Collector:** Unwanted dust and streamers are sent to the attached mini dust collector which features a cyclone separator and cartridge filter for the air before it is released to the atmosphere. The dust collector is easily emptied without needing tools to access the dust drum.



- **Ideal for injection molders and extruders**
Dust-free pellets and regrind are required to produce high quality parts with low scrap rates.
- **Compact size for easy retrofitting**
Weighing only 18.2 kg, the **C-20 DeDuster®** is a lightweight solution to improve your scrap rates.



Features

Installation:

The **C-20 DeDuster®** is only 18.2 kg and 337 mm tall. Just plug in the unit to a single-phase 24V DC / 2A power source, connect a 1/4" compressed air line, and position the level sensor on a sight glass (optional) below the **C-20 DeDuster®**.

Material is typically fed to the hopper above the **C-20 DeDuster®** by a common vacuum loader with a flapper valve to isolate the conveying vacuum from the **C-20 DeDuster®**. No changes are made to your existing vacuum system control. The **C-20 DeDuster®** features an integrated variable speed feeder on its inlet to dose resin into the cleaning zone at a metered rate. Turning the feed rate control knob during setup changes resin flow rate for a wide range of applications. The feeder automatically stops the resin flow into the **C-20 DeDuster®** when the level sensor below the **C-20 DeDuster®** detects resin. Of course, the flow is started again when the down-stream process starts again and the level sensor does not detect resin anymore.

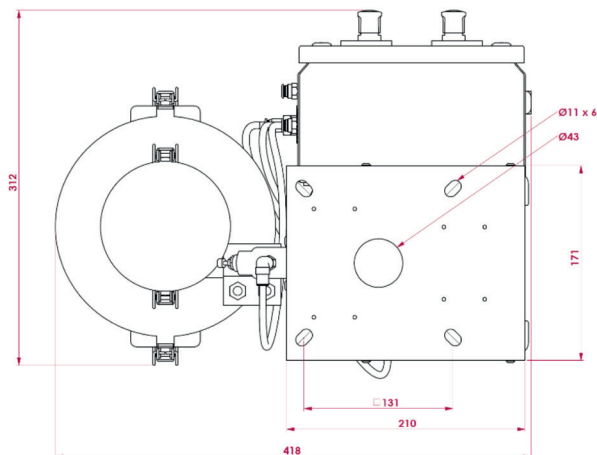
The maximum allowable temperature of the material that is processed by the **C-20 DeDuster®** is 82° C.



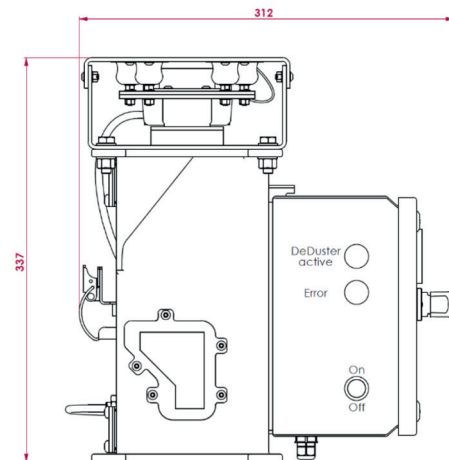
- 1 C-20 DeDuster®
- 2 Transition hopper
- 3 Sight glass
- 4 Level sensor
- 5 Control box

Specification

Top View



Front View



Energy supply required

24 V DC / 2 A / 50 Hz

Pneumatic hose Ø 6 mm with 6 bar inlet pressure

Compressed air requirements

17 Nm³/h

Max Product Temp

82° C

Approximate Weight

Installed weight 18.2 kg

Shipping weight 20.9 kg

Flow Rate (pellet throughput)

22 kg/h at 560 kg/m³

35 kg/h at 880 kg/m³

