



Tetra Pak® Dust Collector

Remote dust collector designed for tipping stations



Application

The Tetra Pak® Dust Collector is a dedusting/dust removal unit that can be connected to the Tetra Pak® Bag Tipping unit CIP and other similar applications.

It is specifically designed to improve air quality at tipping locations when built-in filters are not an option or not recommended. For example, when producers want to avoid contamination from one ingredient to another (e.g. allergens, black vs. white ingredients) or when the tipping station is cleaned in place using water.

For high-risk products, EHEDG recommendations state that a remote dust filter should be placed away from the tipping area. This eliminates the risk of filter media finding its way into the product. The absence of a built-in filter also makes the tipping station easier to clean, thereby minimising contamination risks.

Highlights

- CE, ATEX and NFPA compliant.
- Does not require explosion protection (Minimum Ignition Energy MIE > 3 mJ).
- Compact, precisely dimensioned for the job.
- Meets food and beverage industry hygiene standards (collected dust can be reused in the process depending on application).

Working principle

The Tetra Pak® Dust Collector draws in dust and fine powders via a collecting hood, using an industrial fan.

The dust/fine powders are separated from the vacuumed air via cyclone hopper and cartridge filters. Clean air is sent back into the room where the dust collector is installed.

Working principle (cont.)

The cartridges are cleaned automatically by sequenced air pulses. Collected fines need to be emptied out of the cyclone and thrown away (or re-used, depending on the application) at regular intervals. There is a dedicated butterfly valve at the outlet of the receiving hopper.

Cartridge replacements and hopper cleaning are both made easier by a large access door. For maximum efficiency, Tetra Pak® Dust Collector should be installed close to the collecting hood.

Basic unit

Tetra Pak Dust Collector is a compact unit, which comes frame-mounted and pre-assembled. Made of grade 316L stainless steel and food-certified materials. CE, ATEX and NFPA compliant.

Main components

- Cyclone.
- Cartridge filters.
- Reserved air jet cleaning system with compressed air tank.
- Large access door.
- Isolation butterfly valve.
- Receiving container.

Options

- Level sensor.
- Pneumatic hammer.

Capacity

1000 m³/h at maximum distance of 10 m.

Consumption data

Electrical power

1.5 kW (depending on selection) 400 V, 50 Hz

Compressed air

Filter cleaning 58 Nm³/h at 600 kPa (6 bar)

Dimensions

