



Efficent handling of coffee dust and powder

Whether it is handling whole coffee beans, ground or instant coffee, Simatek has a bag filter solution that improves the operators' working environment and increases the bottom line – all while protecting the environment.

Emission control

Today, there is a firm focus on protecting the environment. Many companies within the food industry are promoting and enforcing the regulation aimed at reducing emissions, according to the EU's COMMISSION IMPLEMENTING DECISION 2019/2031 from November 12th, 2019. "In new plants, this means limiting emissions down to 2-5 mg/Nm³ and in existing plants 2-10mg/Nm³."

"Commissioned in spring 2019, our Simatek bag filter succeeded in ensuring dust levels of less than 10 mg/Nm³ in the exhaust air."

PRODUCTOS SOLUBLES S.A. a Spanish coffee powder manufacturer.

Turning powder loss into increased revenue and profits.

With a Simatek bag filter, you not only limit emissions to comply with regulatory requirements, you also increase your bottom line and profits through powder recovery. With typical payback periods of less than three years and with a technical and economic lifetime of more than 20 years, a Simatek bag filter will generate significant increased revenue and a better bottom line year after year.

Did you know.....

Powder loss from spray driers using a conventional cyclone solution is typically in the range of 0,5 to 1,5% of powder production. Simatek bag filter technology can reduce this to less than 5 mg/Nm³, corresponding to a loss of less than 0,02% of the powder production.

Calculation examples on bag filter powder recovery

Powder recovery from the bag filter	ka/vear	24.000	60.000	95.000	155,000
Operation pr. year	hours	5.000	5.000	5.000	5.000
Powder loss using bag filter	mg/Nm³	5	10	5	10
Powder loss using cyclones	mg/Nm³	150	200	150	200
Spray dryer powder capacity	kg/h	1.000	2.000	4.000	5.000

Where Simatek can contribute to your process

Green coffee bean handling Coffee bean roasting

SimSpot and SimPact 4T-R bag filter

SimSpot and SimPact 4T-R bag filter

Coffee bean grinding

SimSpot and SimPact 4T-R bag filter

Ground coffee silo storage

Silo, SimSpot and SimPact 4T-R bag filter

Extraction

Evaporation

Spray SimPact 4T or drying SimPulse 3C bag filter

Agglomeration

SimPact 4T or SimPulse 3C bag filter

Coffee powder transport and silo storage

Silo and SimPact 4T-R bag filter

Coffee powder packing

SimPact 4T-R bag filter

Our product offerings

Dust collection and aspiration



Silo pulse jet filter

Silo filter in a compact, cylindrical design with an efficient pulse-jet cleaning system.

Special features

- Emission: reduce to less than 5 mg/Nm³
- Product contact material: mild steel or optional stainless steel



SimSpot spot filter

Pressure shock resistant (PSR) miniature bag filter with a built-in fan that can easily be installed on conveyors and bucket elevators.

Special Features

- Pressure shock resistance of 0.7 bar (PSR optional)
- Emissions: less than 10 mg/Nm³
- Filter size: up to 5,1 m² (PSR) and up to 12,6 m² (conventional)
- Product contact material: mild steel or optional stainless steel



SimPact 4T-R pulse jet filter

Comes with different possible inlet types strategically placed in the construction forms ensures the efficient capture of both coarse and fine particles.

Special features

- Capacity: up to 130.000 m³/h
- Filter size: up to 435 m² filter surface
- Filter bag length: up to 8 m
- Emissions: reduce to less than 5 mg/Nm³
- Product contact material: mild steel or optional stainless steel

Process filters



SimPact 4T

Comes in a compact and sturdy cylindrical design with efficient down flow filtration, ensuring effective product recovery and emission control.

Special features

- Capacity: up to 120.000 m³/h
- Filter size: up to 960 m² filter surface area
- Filter bag length: up to 11 m
- Emissions: reduce to less than 5 mg/Nm³
- Product contact material: stainless steel
- Hygienic design compliant to EN1672-2 and EHEDG
- CIP as option



SimPulse 3C

This bag filter represents the next generation of pulse-jet filters. It uses a unique high air volume and low pressure jet pulsing technology that ensures a low pressure drop and long lasting filter bag life.

Special features

- Capacity: up to 210.000 Am³/h
- Filter size: up to 1.700 m²
- Filter bag length: up to 11 m
- Emissions: reduce to less than 5 mg/Nm³
- Product contact material: stainless steel
- Hygienic design compliant to EN1672-2 and EHEDG
- CIP as option with unique inside filter bag CIP
- Single bag leak detection



An optimised investment. Efficiently delivered.

Founded in 1981, Simatek is a leading manufacturer of industrial air filtration solutions. Our high-tech products and systems optimise footprint, performance and maintenance for industrial plants worldwide. All at a low cost of ownership.

Our main areas of expertise:

- Dust collection and aspiration: A wide range of pulse-jet bag filters designed to work with dust explosive atmosphere and meet international standards and certifications.
- Process air: A range of sanitary and non-sanitary bag collectors for the processing industry – including process filters with Cleaning in Place (CIP) and super sanitary bag collectors conforming to the 3-A standards and USDA guidelines.

Unique technology and specialised expertise are at the heart of everything we do at Simatek. Our core team of dedicated employees – alongside our global network of partners and representatives – are ready to help you find the solution that will benefit your business the most.

We call this an optimised investment, effectively delivered.



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