

**SIMATEK**

Filter Technology

## CIP'able Bag House applications for the dairy industry

High efficiency  
filter technology.



# Bag houses for the dairy industry

## Industry requirements

- Sanitary execution.
- Cleaning in Place (CIP)
- Blockage free CIP nozzle.
- Short CIP turnaround time incl. dry out.
- Low investment and low operating cost.
- Optimal processing.
- Bag house filter powder recovery.
- Low emissions.
- Compliance with regulatory standards
- Compact design ensuring small footprint.
- Competent project management.

Simatek engineers and manufactures sanitary bag houses according to the requirements of the food and dairy industry including super-sanitary filters approved according to the USDA and with 3-A symbol certification.

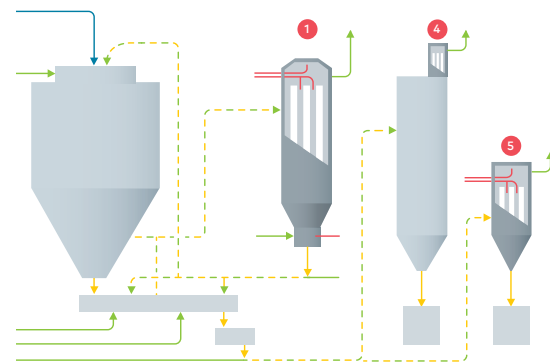
With all our filters – small or large - you get a reduced foot print and low operating cost.

Our dairy bag houses are used for three different purposes: Total separator, Sanitary filter and Police filter.

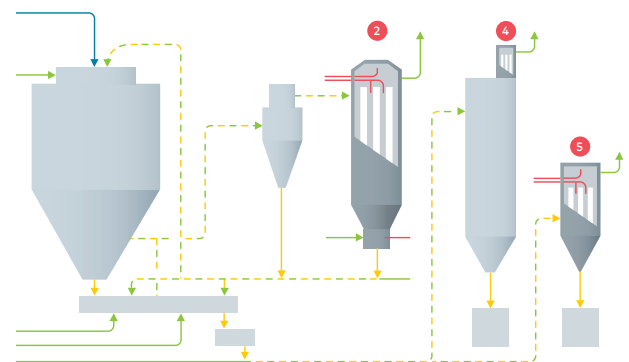
- 1 Bag house in sanitary execution with CIP for total separation for re-use of powder; bag house replaces cyclones.
- 2 Bag house in sanitary execution with CIP placed after cyclones for re-use of powder.
- 3 Bag house as police filter placed after cyclones, no powder re-use.
- 4 Sanitary silo bag house.
- 5 Bag house for pneumatic powder conveying.

Bag houses can replace wet scrubber and cyclone, either as police, sanitary bag house with CIP as an option or for total separation with CIP.

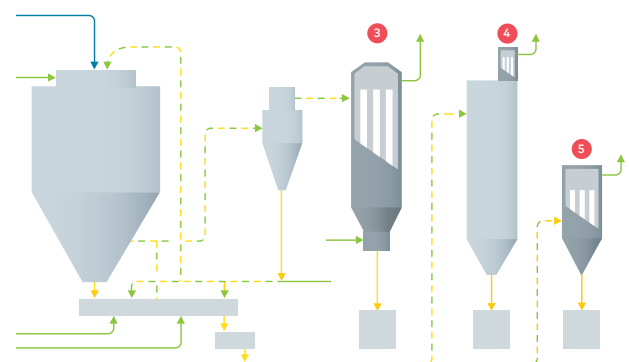
## Total separator



## Sanitary filter



## Police filter



Feed ————  
Air ————  
Powder ————  
CIP ————

# Simatek high sanitary bag house series 3CX-CIP

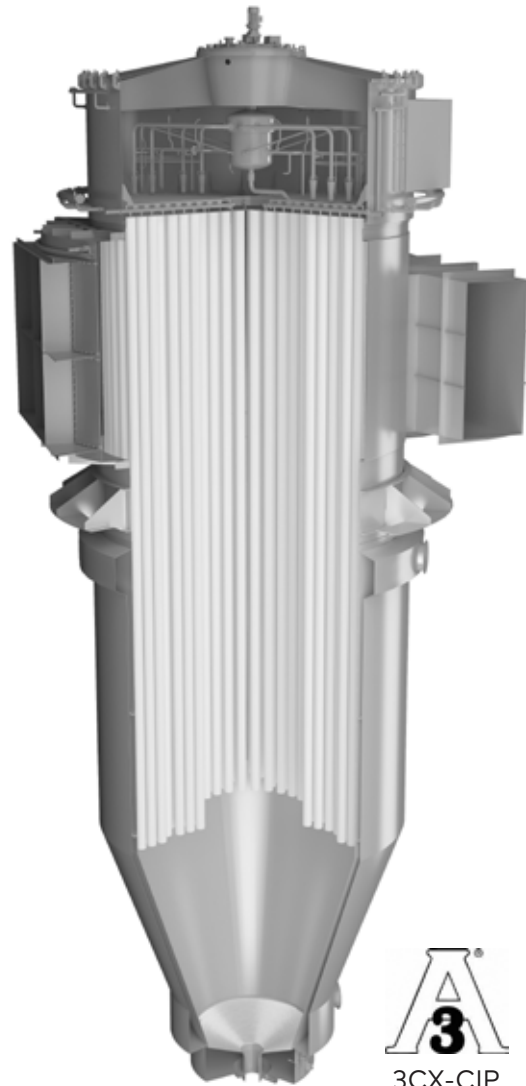
The SimPulse 3CX-CIP bag house holder of the 3-A symbol certification for bag houses (40-04) uses a special wrap around air distributor inlet design. This ensures a lenient air distribution between the bags and minimizes swinging bags.

The special designed PAD (Pulse Air Distributer) uses low pressure air (9-16 psi) at high volume for single bag pulsing, enabling utilization of bags up to 40 ft.

Safe and stable operation at full design capacity, even for difficult products and operating conditions is ensured due to all time low Air-to-Cloth ratio. Favorable can velocity reduces powder build-up underneath the tube sheet.

Simatek's special designed blockage free USDA accepted 6B sanitary CIP-nozzles are hydraulic activated. The nozzle design allows a 360 degree cone shaped CIP liquid fan working up and down cleaning the tube sheet bag interface and top of the bag. Bags are cleaned from inside out as well, to avoid cross contamination issues.

Full welded heating jacket ensures an even temperature profile over the bag house and the fluid bottom gives effective and trouble free powder discharge.



The SimPulse bag filter series 3CX-CIP is 3-A symbol certified according to Sanitary Standards for Bag Houses 40-04 and applies to the USDA guide lines as well.

The 3CX-CIP filter series comprises a complete range of filters up to air flow of 210,000m<sup>3</sup>/h (123,000 ACFM), each of which is equipped with

fully automatic CIP of the filter chamber and the clean-air chamber as well as the filter bags.

The certification has been assigned in compliance with the Third Party Verification. For further reference, please visit [www.3-a.org](http://www.3-a.org)

*(Third Party Verification for the 3-A Symbol and 3-A Process Certification, Certified Conformance Evaluators).*

# 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:

- 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 houses for the processing industry – including process filters with Cleaning in Place (CIP) and super sanitary bag houses 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.

**SIMATEK**  
Filter Technology

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