

# Flour cooling system

Centralized system for the gradual and automatic reaching of set temperature, based on the direct exchange of pre-cooled air through a fluidized bed.

as low as 10-12 °C

Takes the flour as low as 10-12 °C

Progressive cooling system

Constant temperature through the whole year

Direct exchange of air in fluidized bed

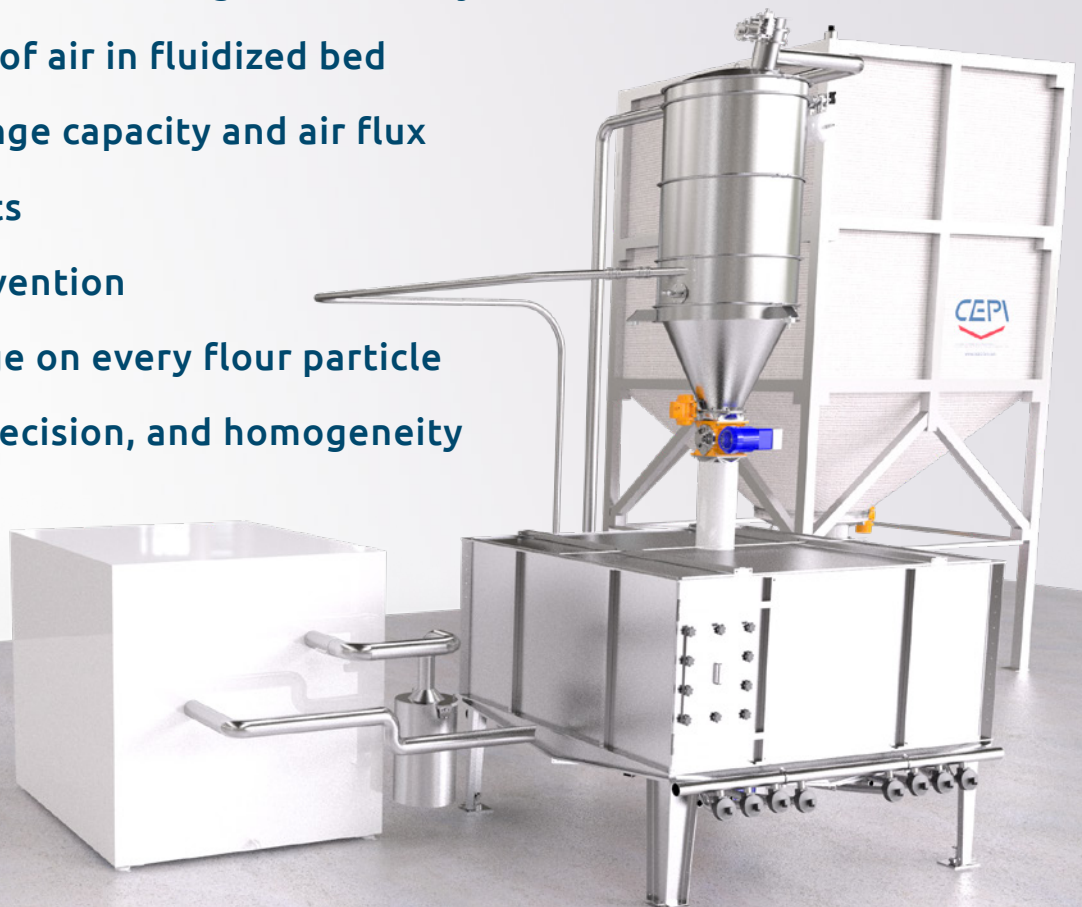
Increased exchange capacity and air flux

No cooling agents

No manual intervention

Thermal exchange on every flour particle

High stability, precision, and homogeneity in the dough





Bakery &  
Biscuits



Confectionery



Pasta &  
Cereals



Baby food &  
functional food

Correct and linear management of the dough temperature is essential in bread-making and similar processes. Seasonal changes cause considerable variations to the temperatures of work areas and raw materials, impacting leavening times and creating unevenness in the finished product. CEPI offers a centralized cooling system for a gradual and automatic reaching of set temperature, based on the direct exchange of pre-cooled air through a fluidized bed. With constant temperature of flour in the mix the final product is constant all year round.

With an increased exchange capacity and a bigger air flux, our system has been recently perfected to automatically and independently take the flour to the temperature required for further processing. Flour can go as low as 10-12 °C with a difference between entry and exit temperature up to 20 °C, making it a highly rational and accurate system that removes the need for cooling agents such as cooled water or ice, and the constant manual intervention they require.

Cooling agents not only add unnecessary costs to your process but lead to instant decreases and unstable temperatures through time. The progressive cooling of the CEPI system guarantees higher stability and precision, and homogeneity in the dough with thermal exchange acting directly on every flour particle. CEPI cooling system leads to standardization of production and finished product with diminished costs and reduction of human error.

Like all our technologies, it is highly versatile with various options for dimension and thermal capacity. It is a modular system based on the specific cooling needs and consumption rates of each installation, and is designed to ensure full hygiene and safety and in compliance with all relevant international standards including ATEX legislation. There is no exchanger on the conveying lines and therefore no clogging in the pipes and no loss of time and resources to pure and restore the lines. CEPI cooling system is fully integrated with the storing, conveying and metering installation and provided with weighing in real time, integrated automation and full traceability.



---

## Features & Technologies

Flour can go as low as 10-12 °C

Gradual and automatic reaching of set temperature

Centralized system and feeding silo from the line

Flexible and modular with variable dimension: 2000x2000 & 2500x2500 mm

Fluidized bed with variable thermal capacity

No cooling agents such as water or ice

No constant manual intervention required

Air heat-exchanger

Air depuration filter

Higher stability, precision and homogeneity in the dough

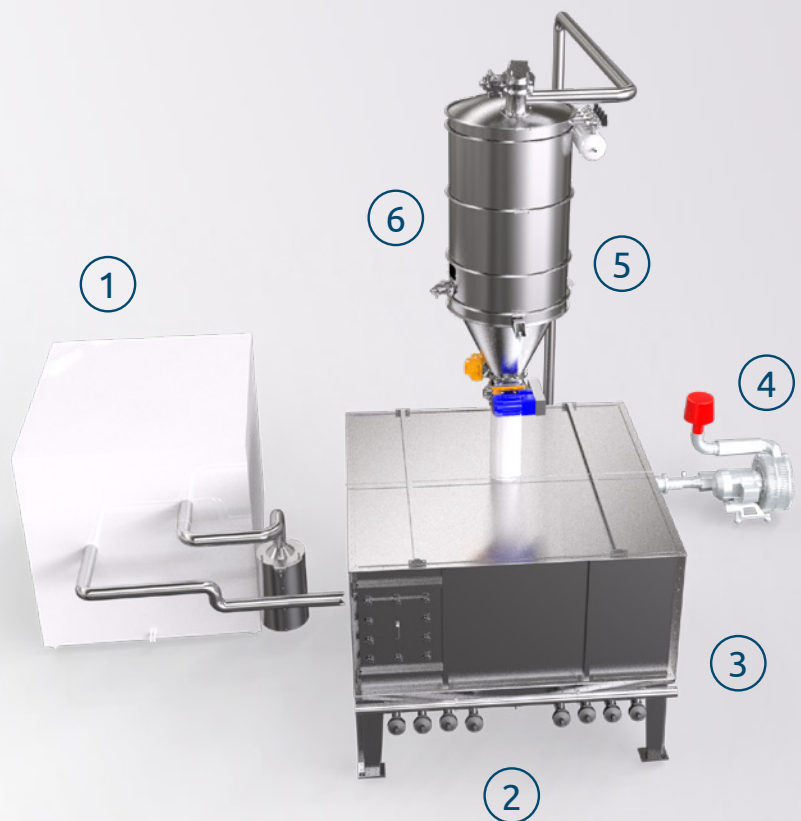
Standardization of production and finished product

Diminished costs

Reduction of human error

Integrated automation, full traceability and weighing in real time

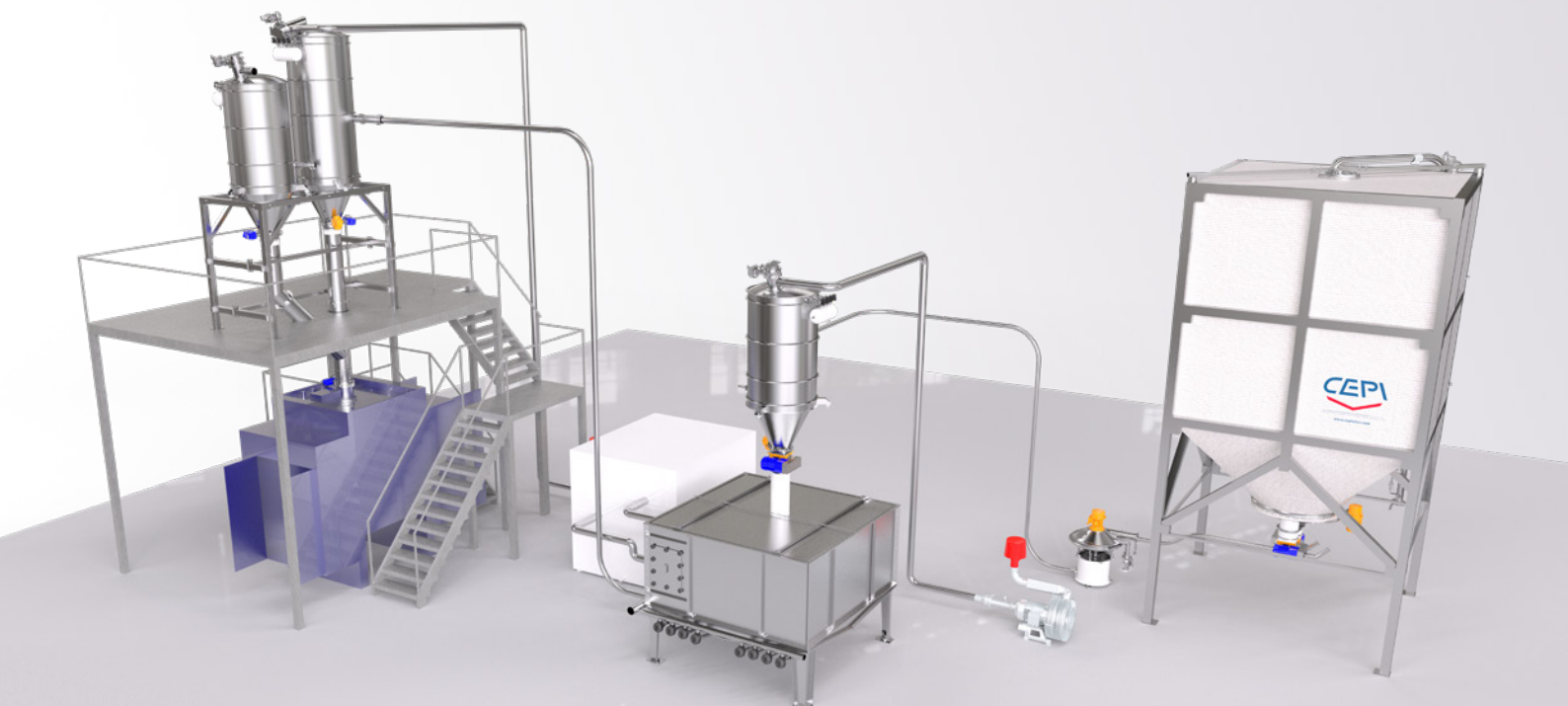
- ① Air exchanger
- ② Fluidized bed
- ③ Modular storage silo
- ④ Blower
- ⑤ Feeding hopper
- ⑥ Air depuration filter







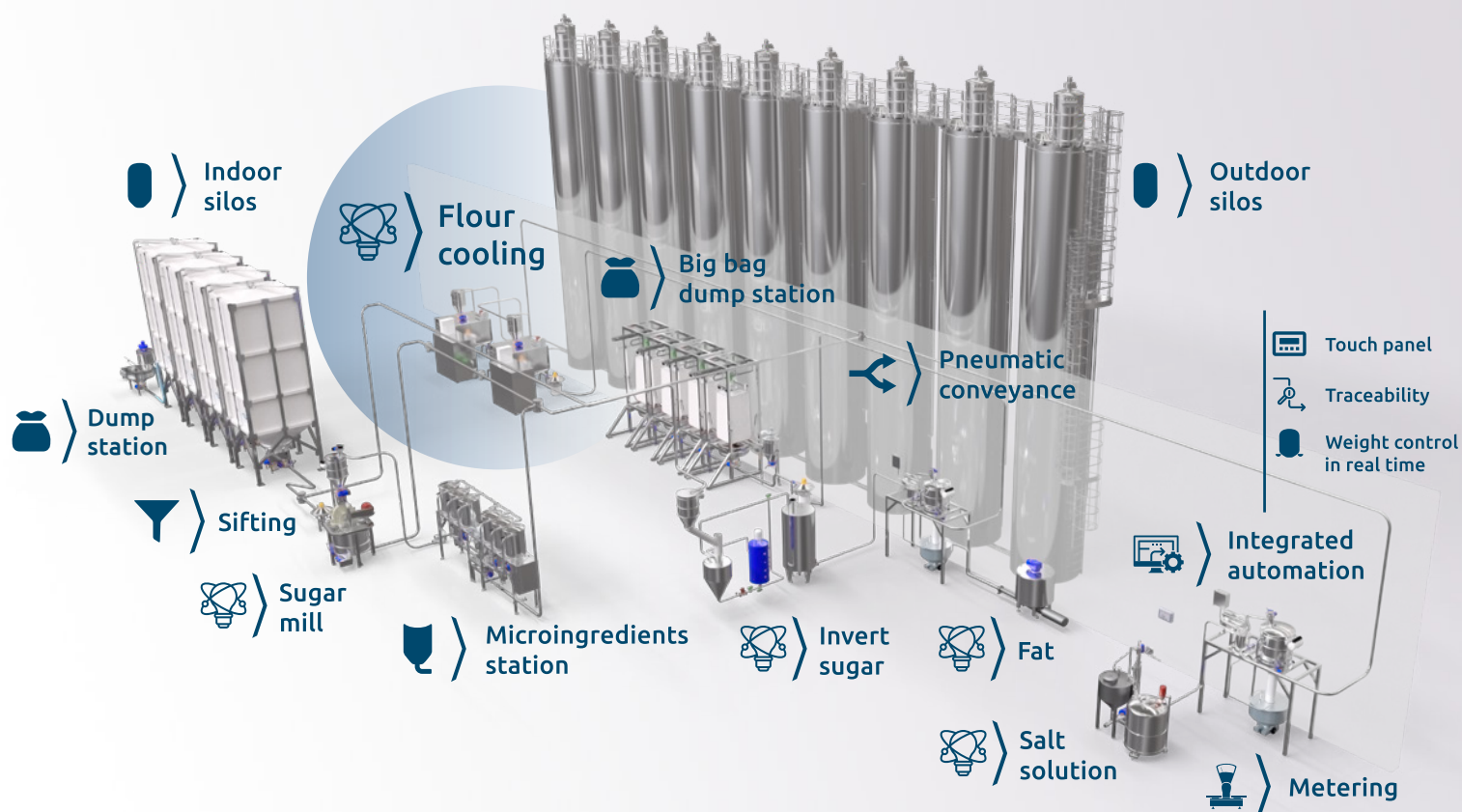
Flour cooling installation with storage  
in Trevira fabric indoor silo, cooling in CEPI  
system and conveyance to metering station



Special applications  
**Flour cooling**

[www.cepisilos.com](http://www.cepisilos.com)  
[cepisilos.com/contact](http://cepisilos.com/contact)  
cepisilos [f](#) [v](#) [in](#) ..





## Bulk-handling systems for the food industry since 1985



STORING



CONVEYING



DOSING



AUTOMATION

Product and process analysis  
Engineering and control  
Direct manufacture  
Project management  
Installation and commissioning  
Monitoring and service



Bakery & biscuits  
Confectionery  
Pasta & Cereals  
Dairy  
Premix

Functional food  
Baby food  
Pet food  
Chemical  
Pharmaceutical