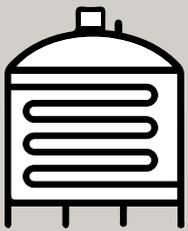


DOUGH COOLING SYSTEM

SYSTEM PATENTED
BY AGRIFLEX
FOR TEMPERATURE
SELF-REGULATION



AGRIFLEX[®]

since 1975



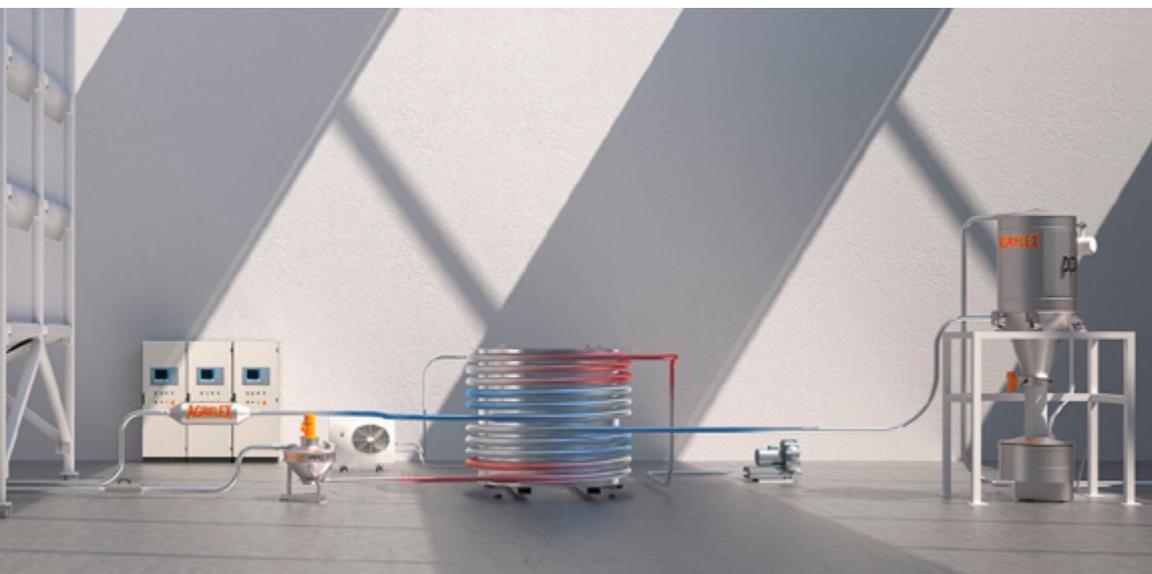
PRODUCT COOLING SYSTEM

Dough temperature self-regulation for best quality.

Dough cooling and temperature control are key to obtain a higher quality finished product. Air dehumidification is crucial during cooling of the most abundant product in the dough – e.g. flour, starch, powdered sugar etc. **Agriflex has patented an innovative cooling technology** that makes it possible to reduce temperature automatically up to 25°C by self-regulation, ensuring **constant and homogeneous temperature of the product**.

VANTAGGI

- Automation and control of the product cooling process; the process does not cause heat stresses to the product and the dough, because the heat exchange liquids have a minimum temperature of 5°C
- Reduced energy consumption
- Excellent compliance with hygiene regulations
- Raw materials are not mixed with ice or other cooling substances that cause an uneven temperature drop in the product
- Ice, CO2 and nitrogen are not required



COOLING COIL

The system has two parts: **a tube bundle air cooling system and air treatment unit**.

Pressurized air is channelled through the heat exchanger, where it is in contact with the tube bundle circuit through which the coolant runs. As a result, air is cooled and dehumidified. Then the air treatment unit separates and discharges the residual condensate to obtain **dry cool air that reaches the product** – e.g. flour, starch, powdered sugar.

ADVANTAGES

- High efficiency heat exchange and low energy cost
- Fully automated system that adjusts the temperature
- Easy maintenance through the whole flour route
- Low operating costs

All our products comply with:

All regulations for specific applications (ATEX, food regulations, safety, seismic codes etc.)

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