

How to guarantee the production quality and the yield of bakery ovens while preserving energy?

Food industry
Ovens and furnaces
climatic chambers

Keywords

- Climatic chambers
- Ovens and furnaces
- Innovation
- Automation
- Optimisation
- Control
- Energy management
- Autoclave

Context

Increasingly demanding on the manufacturing quality of their products, bakery operators are constantly seeking to produce better products for their customers and to offer a wide variety of recipes to keep the consumer interested. Therefore, bakers want to combine quality, variety and originality while optimising their yield and controlling their costs.

Challenges

Today, manufacturers of specialised ovens must offer bakers ovens with innovative functions to :

- improve the quality of finished products
- Reduce production costs,
- Cut energy consumption and optimise production times.



The Fuji Electric solution

To meet these needs, Fuji Electric offers advanced features in terms of oven automation and control.

Thanks to a simple and user-friendly ergonomics, the user can easily configure specific recipes for each product and allow fast start-up times and consistent production quality. The control algorithms used ensure optimum baking quality through temperature control.

The combination of the Fuji Electric components used and their customised programming reduces the energy consumption of the oven. An integrated maintenance assistant avoids prolonged stoppages of the oven and ensures its continued operation.



Your advantages

- Improve product quality
- Reduce energy consumption
- Optimise production times
- Enjoy simple, user-friendly ergonomics



Control and regulation solution for ovens and furnaces



Multi-loop input/output
and control modules PUMA

Reduce energy consumption

Optimisation mode for multiplexing heating zones

Simple and user-friendly ergonomics

Touchscreen operator interface with optimised user experience

Improved quality of finished products

High-precision control with solid-state relays and drives

Fast operation and consistent production quality

Customised recipe creation

Optimisation of the energy used

Adaptation power to the load

Optimisation of production time

Programmed start

Easy and intuitive maintenance

Integrated maintenance assistant



TECHNOSHOT
touchscreen human/machine interface



FRENIC
Frequency inverter



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