GF Piping Systems

Natural cooling for bakery production machines

COOL-FIT for the “cheerful” bakery

Reference Case

Natural cooling for the BÜSCH bakery, Kampf-Lintfort

With over 30 years of experience in the craft of baking, the BÜSCH bakery is now known far beyond its location on the Lower Rhine. The quality products are delivered to more than 200 BÜSCH's own branches in the region around Kamp-Lintfort. In 2020, the owner wanted to replace the existing refrigeration system in the production facility without interupting operations. The pre-insulated PE piping system COOL-FIT 4.0 proved to be a winning solution. Due to the low weight of the plastic material, no heavy transport aids were necessary for carrying, as is often the case with metal systems.

Project background

At the BÜSCH bakery in Kamp-Lintfort, the latest baking techniques, expertise and experience, and a good deal of traditional handwork are used. Quality is very important, and of course, this also applies to the technical equipment in use. In the search for a suitable new refrigeration system, the task was to find a solution to meet these expectations. It had to be possible to install the new system during ongoing operations, as the daily production cannot be interrupted. In addition, the sustainability of the new system was an important factor, especially the ability for it to fit within the existing structural design, the weight of the system, and its use of a natural refrigerant.

Selected technical solution

With its load capacity and quality, COOL-FIT 4.0 meets the high hygiene and safety requirements as desired. As the pipe and fitting are preinsulated, only one trade is needed for assembly afterward. The planning and implementation took place in cooperation with Kälte Klima Peters and Schiessl Kälte.

Accomplished improvements

The 3-in-1 welded plastic construction is corrosion and maintenance-free for the entire service life of the equipment and is easy to keep clean. Unlike conventional systems made of metal, COOL-FIT has a uniformly closed surface – so the risk of poisoning during cleaning and operation is minimized. All surfaces are sealed and therefore UV-resistant and protected from rain and all other influences.

The lightweight, largely prefabricated pipe system was easily assembled and reliably joined by electrofusion within a few minutes.

At the "cheerful" bakery BÜSCH in Kamp-Lintfort, high-quality baked products are created every day using the latest baking techniques and a considerable amount of traditional handwork.

Customer benefits

- **Sophisticated system design makes it easy to keep piping clean; prevents sedimentation and minimizes pressure drop problems.**
- **Lower thermal conductivity of plastic and robust foam insulation minimize energy losses.**
- **Much lighter than traditional metal systems; places lower structural requirements on buildings and supporting structures.**

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