GF Piping Systems

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COOL-FIT 4.0

Efficient cooling in the food sector

Food manufacturer: Bischofszell Nahrungsmittel AG

Improved energy efficiency through the modernization of a cooling system during ongoing operation.

Reliable systems for the highest hygiene standards

The Swiss Bischofszell Nahrungsmittel (BINA) is a leading manufacturer of convenience and fruit products as well as instant meals and beverages for retailers, industry, bulk consumers, and export. Its operation poses the highest demands on the cooling system – to keep the cooling chain of the foods intact at all times, pipes carry a glycol mixture. With the COOL-FIT 4.0 system . the food manufacturer has now modernized its cooling system during ongoing operation.

Project background

As a response to rising energy costs, Bischofszell Nahrungsmittel AG decided to modernize the piping system of its cooling system. The company produces food items around the clock and is therefore dependent on uninterrupted operation with continuous cooling. An installation during operation was therefore one of the most important requirements for the new cooling system.

Selected technical solution

The system operates at a pressure of 4 bar in a temperature range of -5 °C to +10 °C and has dimensions between 40 and 90 mm. To be able to carry out the modernization measure during ongoing operation without production interruptions,the company opted for the pre-isolated plastic piping system COOL-FIT 4.0 from GF Piping Systems. The pipes, fittings and vales of the system are The system's pipes, fittings and valves do not require extensive post-insulation, which saves a lot of time. In addition, the system is low weight and was efficiently installed by electrofusion.

Accomplished improvements

Thanks to the low thermal conductivity of plastic pipes and the effective foam isolation, the food manufacturer was able to benefit from a considerable reduction of conduction losses. The reduced energy consumption not only benefits the operational costs, but the reduced CO2 emissions also actively contribute to improved environmental protection. In addition, the new piping system is distinguished by its long service life, highest level of corrosion resistance, and an attractive look.

The modernization involved a stretch of around 150 meters of the system.

All components of the pipe cooling system are already pre-isolated.

Customer benefits

- **Safe cooling for the food industry for decades to come**
- **Efficient system with low production costs due to pre-insulation of all components such as pipes and valves**
- **Fast installation ensures production start without delays**
- **Clean installation and durable, aesthetically pleasing solution**

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