

COOL-FIT

# Sustainable production of plastic components

Customer reference:  
J. Krebs & Co. A/S, Denmark

COOL-FIT, the pre-insulated plastic piping system was chosen as the right solution to cover the cooling needs.

# A plastic manufacturer opts for a plastic piping system for cooling applications

J. Krebs & Co A/S focuses on quality and sustainability in their daily business. This aligns with the GF Piping Systems' strategy of innovation and sustainability, as customers specifically inquire about carbon emissions.

## Project background

In 2016, Peter Lauritzen Bay, the CEO of J. Krebs & Co. A/S, took over the responsibility for the business from his father. He is a plastics engineer and also has a background from McKinsey and Accenture. Since the takeover, development has been rapid. The customer base has grown and investments have been made in more machines and employees. When they began to modernize the factory, they also needed to look at cooling, as temperature and air control are important parameters for a plastics manufacturer.

## Selected technical solution

When Peter Lauritzen Bay reached out to his network and one said: "For these types of installations we always use COOL-FIT from GF Piping Systems". So they chose COOL-FIT for many reasons. A crucial factor was the molds would become the weak point (sacrificial anode) if a metal solution was chosen. Plastic is lighter than metal and an installer can do the job alone. Plastic does not corrode and the inner surface is smooth, avoiding incrustation and ensuring perfect flow throughout the lifetime of the piping system, which makes it also more sustainable.

## Achieved improvement

Following the first stage of replacing the cooling system in the existing production and preparing for the expansion of the factory, Peter has calculated the reduction of power consumption in kWh per DKK of revenue. Based on a baseline of 12 months in 2021, power consumption in the last year has been reduced by 29%. "We are proud of the results, but are also aware there are more levers to turn in the future and we are far from finished optimizing consumption for the benefit of the environment." Peter continues.



The COOL-FIT 2.0 installation can be upgraded with a 9900 transmitter with a paddlewheel sensor mounted at a height of 3 meters. Yet the flow can easily be read while standing on the floor.



COOL-FIT 2.0 installation performed at heights up to 7 meters. As COOL-FIT is lightweight, installation can be done by one person. A d110 COOL-FIT pipe weighs 5.6 kg per meter. In comparison, an equivalent steel pipe weighs approximately 14 kg per meter.

## Customer benefits

- 60% lower weight compared to metal pipes.
- Saves 30% of thermal energy compared to metal solutions
- 100% corrosion and maintenance-free.
- 50% faster to install compared to similar metal solutions
- Design with CAD and BIM libraries
- Perform impact calculations with Cooling-Toolbox: calculate energy saving, pressure loss, condensation etc.
- GF Piping Systems offers customized products to satisfy individual needs



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