

COOL-FIT 2.0

Sustainable process cooling

GF Piping Systems installs COOL-FIT in Schaffhausen production plant

Pre-insulated lightweight piping system
for easy installation and up to
30% energy savings.

Efficient cooling for production of pre-insulated plastic piping systems

GF Piping Systems processes around 3'000 metric tons of material per year by injection molding at its plastics plant in Schaffhausen. A total of 160 production systems have to be permanently cooled, including the hydraulic tanks for machines. The COOL-FIT 2.0 pre-insulated piping system from the company's own product range now performs this work more effectively, reliably and sustainably in the long term.

Project background

Following the renovation and expansion of the production plant and other buildings, the managers of GF Piping Systems' plant in Schaffhausen were looking for a reliable solution to keep the 160 machines at a temperature of between 25 and 30°C. Furthermore, the piping system should be connected to a refrigeration unit and provide cooling over several hundred meters. Another challenge was the limited space available for the installation of the piping system.

Selected technical solution

For its cooling system renewal and expansion, GF Piping Systems opted for the company's own solution, COOL-FIT 2.0, using dimensions from d32 to d160. At the same time, the cooling unit needed to be replaced, because the combination with COOL-FIT 2.0 was expected to bring further improvements in cooling. Since the system is already factory pre-insulated and connections are easy to make thanks to electrofusion technology, installation could be up to twice as fast compared to metal systems.

Accomplished improvements

After three years of operation, the plant managers are satisfied with the COOL-FIT system. The piping system for cooling the hydraulic systems of the injection molding machines is proving to be reliable and easy to maintain. The extremely energy-efficient system also has a positive impact on energy costs as well as the company's sustainability goals.



COOL-FIT 2.0 in use at the WKS plant of GF Piping Systems.



An employee of GF Piping Systems checking a COOL-FIT pipe.

Customer benefits

- Around 7 million kWh savings per year
- Very low energy loss due to pre-insulation of all components
- Cost and time savings due to lightweight and quick to install system
- Clean installation with flexible adaptation to local conditions
- Robust, condensation-free pipe jacket for optimal protection of the piping system

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