

Press Release

Global Communications

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COOL-FIT – the pre-insulated plastic piping system now available in larger dimensions

Corrosion resistance and energy efficiency for secondary cooling and refrigeration

Saving energy and using energy efficiently are major priorities at GF Piping Systems. With the new large dimensions ($d250$ to $d315$ mm inner diameter) of the proven COOL-FIT system for secondary cooling and refrigeration, the company once again demonstrates its innovativeness. With installation times being up to six times faster compared to conventional systems and an excellent corrosion resistance, COOL-FIT also substantially lowers installation and maintenance costs.

COOL-FIT is a fully pre-insulated plastic piping system comprising pipes, fittings, valves & adapters and designed for secondary cooling and refrigeration. Thanks to a low thermal conductivity (0.026 W/m·K), COOL-FIT retains heat or cold, depending on which is required, up to *30% more* than conventional piping systems, thus enabling substantial energy savings during operation.

High efficiency

The product range has been supplemented with large dimensions for even greater efficiency in distribution lines. The new pre-insulated COOL-FIT components with inner diameters $d250$ mm, $d280$ mm and $d315$ mm are a further systematic step towards providing more efficiency in large-dimensioned installations.

The COOL-FIT system consists of the corrosion-free inner pipe made of ABS (acrylonitrile-butadiene-styrene), surrounded by a compact PUR insulation. Because the socket-spigot pipe is prefabricated, the PUR insulation only needs to be peeled when the pipe is shortened. The inspection gap is filled with a profiled foam strip and sealed with a shrink-on sleeve, which adds to stability in a system with bending forces and also looks good after shrinking.

The PUR insulation has an outer PE jacket, offering protection against mechanical forces, e.g. in high-pressure cleaning. The black version is UV-resistant and therefore suitable for both indoor and outdoor use. The smooth inner wall of the ABS plastic pipe prevents deposits from the medium and contributes to a consistent flow behavior. The reduced pressure loss further improves efficiency – a performance that remains constant for years.

Easy and reliable installation

As project deadlines continually become shorter, technologies are required that enable shorter planning and installation times - COOL-FIT ABS is one of these! Thanks to the tried and tested solvent cementing technique, ABS is joined quickly and reliably, and without fusion units or special jointing equipment. The cementing technique, using TANGIT ABS, saves a great deal of time compared to metal pipe welding.

The ABS pipe material used by GF Piping Systems has been specially developed for durable pressure piping systems and complies with EN ISO 15493 requirements. It is free of halogens and resistant to low temperatures. COOL-FIT is ideal for conveying such media as water, cooling water and ice water, organic and inorganic saline solutions, as well as glycol solutions.

A free online calculation tool is available in eleven languages at www.cool-fit.georgfischer.com; this tool supports planning engineers in dimensioning and laying out piping systems. The parameters which can be calculated are pressure loss, condensation, heat loss, dimensioning, pipe carriers, contraction and pipe outer temperature.

Photo caption: COOL-FIT



COOL-FIT ABS System, GF Piping Systems, 2011

Georg Fischer – Adding Quality to People’s Lives

GF Piping Systems is one of three companies within the Georg Fischer group and a leading supplier of plastic and metal pipe systems with a global market presence. Our portfolio offers connection technology, fittings, fixtures, sensors and pipes for the treatment and distribution of water as well as the safe transport of industrial fluids and gases. GF Piping Systems supplies leading innovative technical solutions for domestic engineering applications, the chemical process industry, food & beverage, life sciences, the microelectronics, shipbuilding, water and gas supply industries as well as potable water treatment. Our distributors in more than 25 countries and representatives in a further 80 countries guarantee customer service around the clock. Production facilities in Europe, Asia and the US are customer focussed and comply with all local requirements. Georg Fischer’s registered offices have been located in Schaffhausen, Switzerland, since the company was founded in 1802.

Key figures - GF Piping Systems 2009

More than 4300 employees worldwide (as of 31 May 2009)
1066 million CHF turnover
80 million CHF EBIT (earnings before interest and taxes)

Further information is available from www.piping.georgfischer.com