

COOL-FIT® PE Plus

Pre-insulated system for refrigeration
and chilled water



Safe, efficient cooling has never been easier!

COOL-FIT® is the successful range of pre-insulated plastic piping systems from GF Piping Systems. It makes cooling applications more efficient than before—in all phases of your project. COOL-FIT® simplifies planning and installation through superior design, pre-insulation, low weight, and modern jointing technologies. COOL-FIT® reduces costs through completely maintenance free operation, energy efficiency, and longevity (more than 25 years). COOL-FIT® is environmentally friendly, thanks to its low carbon dioxide emissions, throughout the entire service life of the product. The specialists at GF Piping Systems support you in this through all project phases.



100% maintenance-free

Fully plastic media pipe—corrosion and scaling free. UV resistant and corrosion-free jacket pipe. Pre-insulated with closed cell insulation attached to both media and jacket pipes. Fully vaportight system that can be power washed—no degradation of insulation due to water uptake.

65% less weight

Makes perfect use for buildings with challenging load bearings. In rooftop installations, this weight reduction can allow for more equipment to be installed on the roof, increasing the commercial floor space available. The robustness of hangers and supports can be downsized.

50% quicker installation

Less time required on site. Complete control of the installation schedule—3 in 1 system. Machine controlled electrofusion jointing reduces human error to an absolute minimum and allows for traceability of the joints.

30% higher energy efficiency

Thanks to the low thermal conductivity of plastic pipes compared to metal and the superior insulation properties of the foam insulation ($\lambda \leq 0.015$ BTU/hR.Ft.F) The COOL-FIT® system is significantly more energy efficient than any other systems. How much? Our free calculation tool can help you calculate.



Product features



Pre-insulated pipes for fast installation

No post insulation steps are necessary with the COOL-FIT® PE Plus system. The result in significant time savings. Additionally, the lightweight makes moving pipe and fittings around the job sites easier, safer and faster.



Wide range of pre-insulated electrofusion fittings

The offering of COOL-FIT® PE Plus fittings includes elbows, tees, couplers, and reducers. Electrofusion ensures permanent joints in just a few minutes.



Valves

Both ball and butterfly valves are available in the COOL-FIT® PE Plus system. Easy to use insulation kits are available and have options for electric and pneumatic actuation.



Uncomplicated flange connections

Connection to existing metal systems is simple with the use of flange connections. The COOL-FIT® PE Plus range includes ANSI 150# flange adaptors and a matching insulation kit for a clean, consistent install.



Instrument fittings for sensors

Sensors for measuring pressure, temperature, and other parameters can be easily integrated with our threaded instrument fittings.



Easy transitions to metal systems

The COOL-FIT® PE Plus adapter fittings enable simple transitions to metal connections, allowing for effortless solutions to adjacent systems.



Tools and training

GF Piping Systems offers a complete range of tools for purchase or rent and provides factory certified training to ensure proper procedures are understood and followed.



COOL-FIT® PE Plus

Leading technology for easy installation and longevity

COOL-FIT® PE Plus is the result of years of development by our engineers with the aim of making the system even easier and faster to install, while at the same time, remaining as safe, reliable, and durable as you expect from all GF Piping Systems solutions. Many crucial details contribute to this.

COOL-FIT® 4.0

Materials *	Media pipe	HDPE
	Insulation	PUR
	Outer jacket	Pipe: HDPE, Fitting: Plasticized PUR
Dimensions		1" – 18" (d32 – d450)
Joining technology		Electrofusion
Max Pressure		1" – 4" (d32 – d110) SDR 11 200 PSI
		6" – 18" (d160-d450) SDR 17 130 PSI
Temperature		Media -58°F - 140°F Ambient -22°F - 140°F
Weight (without liquid)		Pipe 1" (d32) 0.95 lb/ft
		Pipe 8" (d225) 11.1 lb/ft
Environment	Resistance	Water- and vapor-tight; UV resistant
	Ozone depleting potential	Zero
Standards	EN ISO 15494	Plastic piping systems for industrial applications – Metric series
	ISO 7	Fittings
	EN ISO 16135, EN ISO 16138	Industrial valves

* All three materials are permanently connected.



Machine controlled jointing process—in just minutes

COOL-FIT® PE Plus pipes, fittings, and valves can be connected neatly, easily, and within just a few minutes by electrofusion. Our specialists show the installation team how it's done, both on site and in a detailed video tutorial – step by step.

One of the most significant benefits of COOL-FIT® PE Plus is clean, simple, and fast installation. The installation team can easily interconnect pipes, fittings, and valves within just a few minutes, thanks to the exceptional design and the use of electrofusion. The pipe ends are already peeled when delivered, meaning that the installation can start without delay. The sealing lip of the fitting along with the vulcanizing tape seals the insulation without any additional work.

Even installers without any previous electrofusion experience find it easy to install COOL-FIT® PE Plus. We provide onsite training and certification free of charge.



Clean the fusion zones of the fitting and pipe using Tangit PE-cleaner and a clean paper towel.



Place the assembly aid on the fitting. Stretch the sealing lip pressing the handles together.



Slide both ends of the pipe into the fitting as far as the marking. Then remove the assembly aid.



Connect the welding cables to the welding contacts of the fitting and weld according to the instruction manual.

Watch the installation tutorial video: www.gfps.com/cf4-installation

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