

# COOL-FIT® PE Plus

**Pre-insulated system for refrigeration  
and chilled water**



# Safe, efficient cooling has never been easier!

COOL-FIT® is the tried and tested pre-insulated plastic piping system from GF Piping Systems. It makes cooling applications in all areas of your project more efficient than ever. Through superior design, pre-insulation, low weight, and modern jointing technologies, COOL-FIT® simplifies planning and installation. COOL-FIT® also reduces costs through completely maintenance free operation, energy efficiency, and system longevity (25 years or more). COOL-FIT® is manufactured with minimal carbon dioxide emissions to support your green initiatives. The specialists at GF Piping Systems are ready and able to support you through all phases of your project.



## 100% maintenance-free

An engineered plastic media pipe results in a corrosion and scaling free system. The jacket pipe is similarly corrosion-free but also fully UV resistant. COOL-FIT® is pre-insulated with closed cell insulation connecting the media and jacket pipes. This fully vapor tight system allows power washing with no degradation of insulation due to water uptake.

## 65% less weight

COOL-FIT® is the perfect solution for projects with load bearing challenges. In rooftop applications, this weight reduction can allow for more equipment to be installed on the roof and increase the commercial floor space available. Hangers and pipe supports can also be downsized.

## 50% quicker installation

The 3 in 1 design gives you complete control of the installation schedule and requires less time on site. Also machine controlled electrofusion jointing reduces human error to an absolute minimum and allows for traceability of the joints.

## 30% higher energy efficiency

With the lower 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 comparable system. How much? Our free calculation tool can help you find out.



# Product features



## Pre-insulated pipes for fast installation

No post insulation steps are necessary with the COOL-FIT® PE Plus system resulting in significant time savings. Additionally, the lighter weight makes moving pipes and fittings around the job site easier, safer, and faster.



## Uncomplicated flange connections

Connecting 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 clean, consistent installs.



## Wide range of pre-insulated electrofusion fittings

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



## Instrument fittings for sensors

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



## Valves

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



#### Easy transitions to metal systems

The COOL-FIT® PE Plus adapter fittings enable simple transitions to metal connections and allow 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.





# Leading technology for easy installation and longevity

COOL-FIT® PE Plus is the result of years of development by our engineering teams. Their aim was making the system even easier and faster to install, while at the same time, retaining the safety, reliability, and durability you expect from all GF Piping Systems solutions. These specifications are the results of their success.

## COOL-FIT® PE Plus

<b>Materials *</b>	Media pipe	HDPE
	Insulation	PUR
	Outer jacket	Pipe: HDPE, Fitting: Plasticized PUR
<b>Dimensions</b>		1" – 18" (d32 – d450)
<b>Joining technology</b>		Electrofusion
<b>Max Pressure</b>		1" – 4" (d32 – d110) SDR 11 200 PSI
		6" – 18" (d160-d450) SDR 17 130 PSI
<b>Temperature</b>		Media -58°F - 140°F Ambient -22°F - 140°F
<b>Weight</b> (without liquid)		Pipe 1" (d32) 0.95 lb/ft
		Pipe 8" (d225) 11.1 lb/ft
<b>Environment</b>	Resistance	Water and vapor tight; UV resistant
	Ozone depleting potential	Zero
<b>Standards</b>	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 joining -Simplify your installation

**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. Your installation team can easily interconnect pipes, fittings, and valves in just a few minutes thanks to the engineered fitting design and use of electrofusion. The sealing lip of the fitting, along with the vulcanized tape, completely seals the insulation and system with minimal 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](http://www.gfps.com/cf4-installation)**

## Local support around the world

Visit our webpage to get in touch with your local specialist:

**[www.gfps.com/our-locations](http://www.gfps.com/our-locations)**



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