



# Improving energy efficiency for life

Efficient cooling solutions

Rising energy demand

# The environmental challenges of the future





## Air conditioning will use about 10% of all electricity worldwide and account for 37% of electricity growth demand by 2050.<sup>2</sup>

### Sustainable construction challenge

With the global population expected to reach nearly 10 billion people by 2050, and two-thirds of the people living in cities<sup>1</sup>, sustainable urban concepts will be essential for meeting future environmental challenges. Add to this that air conditioning will use about 10% of all electricity worldwide and account for 37% of electricity growth demand by 2050<sup>2</sup>, and this leaves us all with the challenge of addressing rising energy demand.

## + Air conditioners in buildings are expected to number 5.6 billion by 2050, growing their share of global annual emissions from 15% to 25%.<sup>3</sup>

### Industrial energy efficiency challenge

One topic regularly covered in discussions centered around sustainability, water scarcity, and the conservation of precious resources is being more energy-efficient and achieving net-zero emissions. The need to reduce carbon emissions and greenhouse gasses (GHG) to more acceptable levels has made energy efficiency in construction and innovation one of the most challenging problems for organizations to overcome.

### Process-specific challenge

Process-specific energy savings represent a large proportion of the savings many industrial sectors have identified. These can, in turn, also generate other cost-savings factors such as throughput increases, quality, and labor savings – all of which

contribute to productivity targets. On many occasions, energy efficiency measures contribute to saving energy in a company, but these measures often provide additional improvements for the production process, which considerably improve payback periods. Thus, in addition to protecting the environment, energy efficiency renders industrial processes more efficient and competitive.

### The net-zero challenge

The drive to net-zero puts increasing pressure on efficiency improvement and risk mitigation concurrently. How can engineered plastic piping systems improve operational efficiency? Can plastic piping systems be utilized in construction and industrial sites? What benefits do these systems offer? Which applications and locations?

### Your partner for improving energy efficiency

As a company active worldwide, GF Piping Systems' mission is to show our commitment to sustainability by supporting our customers' success with innovative, energy-saving solutions that make the collective global footprint and productivity levels more sustainable. With proper installation, our world-leading solutions can provide several advantages to building owners and industrial leaders, helping them improve energy efficiency for life.

<sup>1</sup> United Nations <https://www.un.org/development/desa/en/news/population/2018-revision-of-world-urbanization-prospects.html>

<sup>2</sup> The Future of Cooling, International Energy Agency (IEA) Technology report – May 2018

<sup>3</sup> <https://ccacoalition.org/en/initiatives/hfc>

# Improving energy efficiency for life



## Reliable and safe

How can piping systems that are maintenance-free for 25 years, vapor-tight, and resistant to weather and UV help contribute to net-zero emissions?

100%  
maintenance-free



## Low Carbon

Over its entire service life, what if your piping systems reduced your carbon dioxide balance by 80% compared to metal systems?



80% CO2 emission reduction



## Corrosion-free

100% corrosion-free and longer-lasting than metal alternatives. No incrustation for reliable long-term efficient operation ensures safe and reliable precision cooling.

60%  
weight  
reduction



## Lightweight

60% weight reduction compared to steel pipes per meter. Marine vessels can reduce fuel consumption due to the use of plastic piping systems, saving a significant amount of CO<sub>2</sub> emissions, additionally the structural designs of buildings can be positively impacted due to reduced weight load.

<sup>4</sup> HVAC factsheet - Energy breakdown, Australian Department of the Environment and Energy Sept 2013

# Our technology reduces the environmental impact of your chilled water and refrigeration applications

100 tons less CO<sub>2</sub> than a metal system



### Lower emissions

For a cold store installation, the required 1500 meters of pre-insulated plastic piping solutions from GF have a carbon footprint equivalent to 100 tons of carbon dioxide less than a metal system. This saving is equivalent to a journey of 446'000 kilometers by car.



### Energy efficiency

Increase energy efficiency by 30% compared to post-insulated metal piping systems, drastically reducing operating costs and CO<sub>2</sub> emissions.



### Cost saving

Data centers consume approximately 3% of the world's electricity, about 40% of which is for air conditioning. What if you could reduce average energy costs by 25%?



25% reduction in energy costs

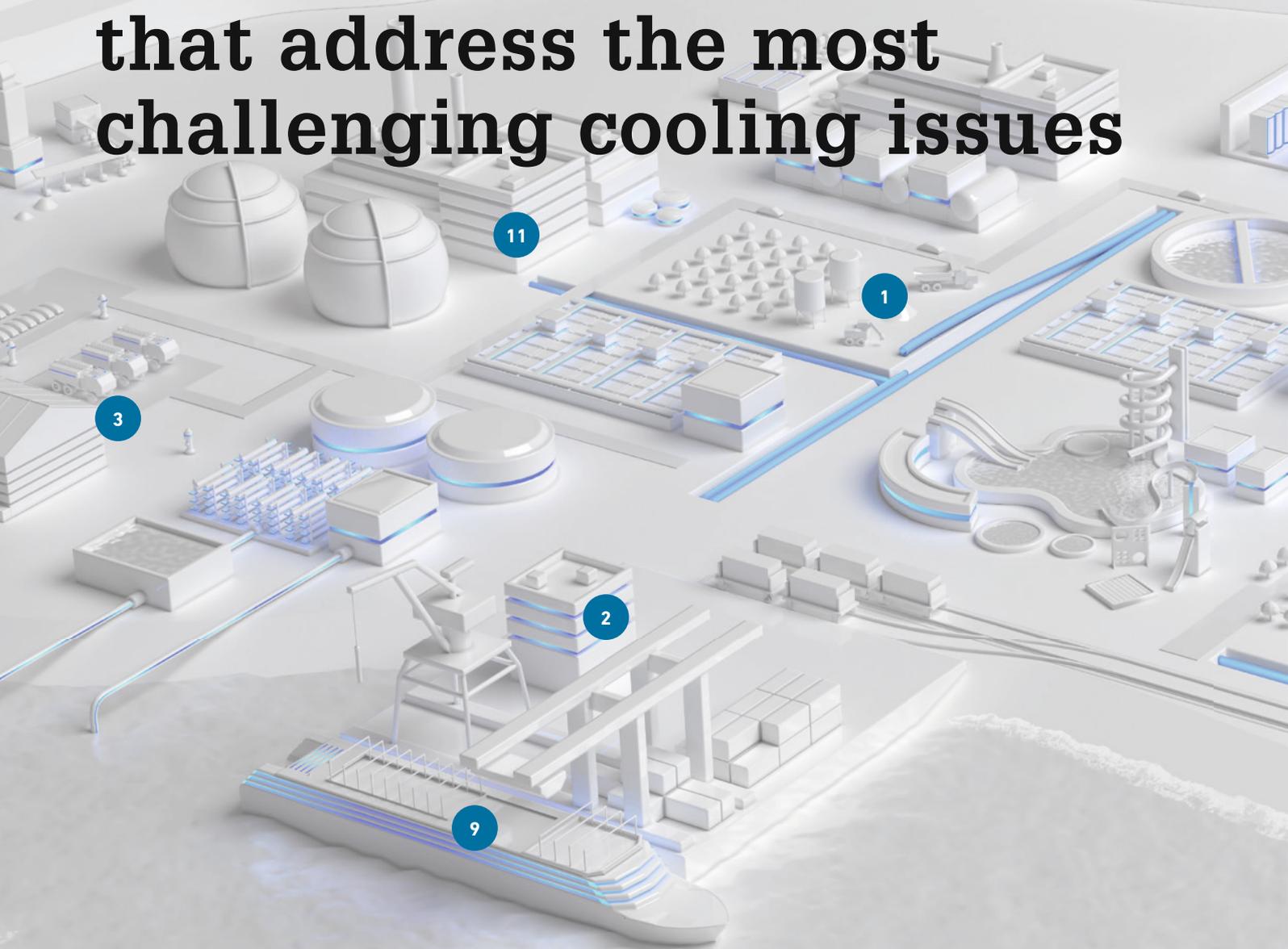
50% faster install



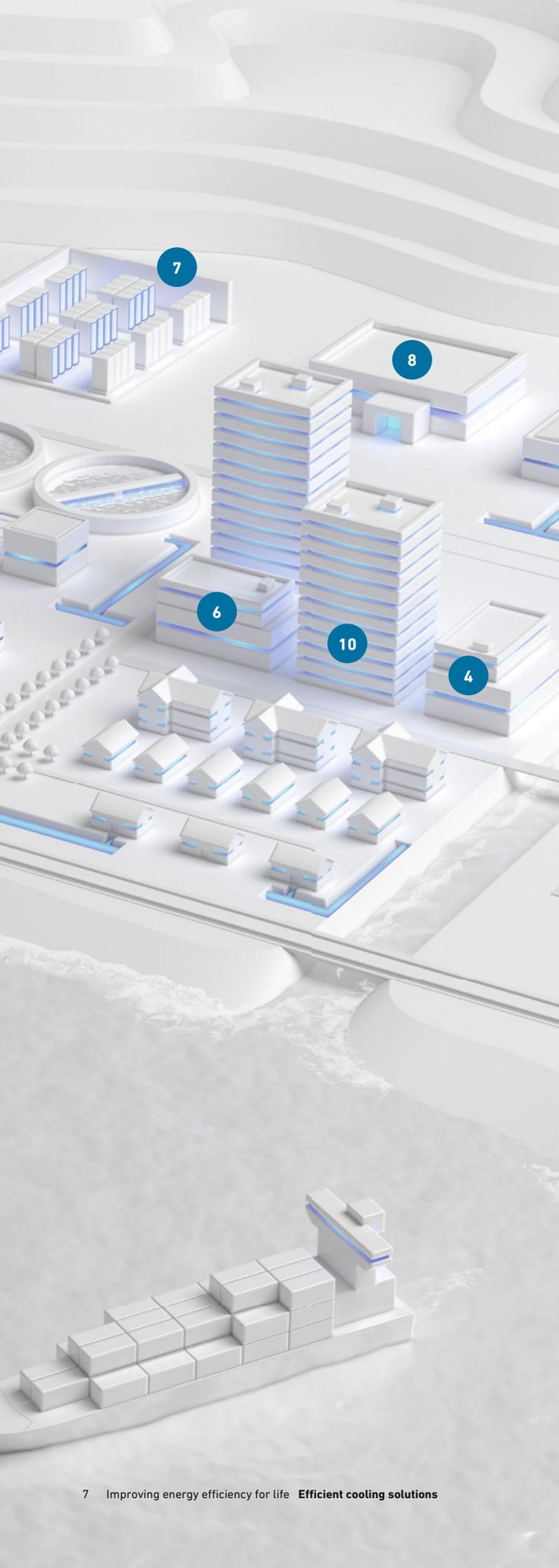
### Time saving

50% faster installation. Factory pre-insulation, electrofusion jointing, and lighter materials eliminate the need for traditional insulation and allow single-person installs.

# Creating solutions that address the most challenging cooling issues



As a leading global piping systems company, one of our goals is to help improve energy efficiency and overcome infrastructure challenges through innovation. By developing highly engineered products and industry-leading technologies, we create solutions that help improve energy efficiency and enable our customers to address their most challenging cooling issues.



### 1. Food production

Innovative cooling solutions for use during the manufacturing and processing of food are both faultlessly hygienic and economically efficient.

### 2. Ripening rooms

Ripening rooms must have adequate refrigeration capacity to remove the heat that climacteric fruits generate as they ripen.

### 3. Breweries

Simple and cost-effective secondary refrigeration solutions efficiently provide maintenance-free cooling as well as control of the fermentation process and climate control within storage rooms.

### 4. Cold stores

Highly reduced refrigerant charge, stable temperature control, and maintenance-free secondary refrigerations systems with an economically viable total cost of ownership.

### 5. Wineries

Essential cooling solutions for use during fermentation, barrel storage, and secondary cooling with glycol or brine solutions.

### 6. Medical cooling (MRI cooling)

When patient care needs medical imaging, it is critical that the equipment is functional and supported by a reliable cooling solution.

### 7. Data centers

Creating solutions for the energy-intensive cooling process of increasing data centers.

### 8. Industrial process cooling (e.g., molds)

Process cooling typically consumes the majority of a molding cycle. The ability to reduce cooling time can ensure improved process efficiency and performance.

### 9. Marine

Lighter, corrosion-free air-conditioning solutions enable the marine industry to reduce GHG emissions and fuel consumption.

### 10. Air conditioning

Energy-efficient cooling systems contribute to sustainable city infrastructure and the growing green building sector.

### 11. Industrial dehumidification

To protect sensitive equipment from moisture damage and to ensure climate-controlled environments.

# Sustainable building frameworks

## Green building standards

Sustainability is a critical consideration when building for the future, and heating, ventilation, and air conditioning are vital focus areas. Whether it's production halls, offices, or onboard cruise liners, corrosion- and maintenance-free alternatives to post-insulated metal simplify installation and offer a longer lifespan while improving energy efficiency. The reassurance of a constant temperature in your cooling system and a healthy and pleasant atmosphere concerning temperature and humidity are important factors, but this mustn't sacrifice contributions to green building standards.

Like all others, the construction sector focuses more and more on their consumption of resources, and the respective greenhouse gas emissions, coupled with indirect emissions from purchased energy sources such as electricity, steam, cooling, and heating. Everything is connected, and by striving for improved energy efficiency in all that we do, we can contribute significantly to reducing our climate footprint.

There are just over a billion single-room air conditioning units in the world right now – about one for every seven people on earth. Numerous reports have projected that by 2050 there are likely to be more than 4.5 bn, making them as ubiquitous as the mobile phone is today. The US already uses as much electricity for air conditioning each year as the UK uses in total.<sup>5</sup>

**+ A typical three-story building needs about 3,000 meters of piping to convey chilled water for air conditioning. Using a copper system equates to 17.5 tons of CO<sub>2</sub> emissions. When using GF Piping Systems portfolio, these emissions reduce to 5 tons.**

## Sustainability rating systems

Sustainable Building (SB) rating systems such as BREEAM (UK), LEED (USA), DGNB (Germany), and SWGW (Switzerland) encourage designers and stakeholders to think about low carbon, low impact designs that minimize the energy demands of construction. GF Piping Systems uses and evaluates its systems to the following programs developed for building assets:

- BREEAM 2016
- LEED 2009
- LEED v4
- DGNB 2015
- DGNB 2012

Using the criteria provided by these rating systems can often result in a more efficient, durable, and resilient project for new facilities. Such a sustainability framework helps reduce waste and energy costs and provides tax incentives and long-term operating costs savings opportunities.

The positive environmental effects of building greener buildings allow owners to operate more efficiently by reducing their water and energy consumption and investing in higher quality materials that reduce operational and maintenance costs.

## GF Piping Systems Sustainability Framework

Our efficient cooling solutions are designed for longevity and maximum efficiency when used in cooling applications. This way, we minimize your environmental impact across the life of your operations. Throughout our global manufacturing facilities, we are committed to reducing CO<sub>2</sub> emissions by 21% by 2025 within our production processes and facilities and ensuring that social or environmental benefits accompany 70% of all product sales.<sup>6</sup>

<sup>5</sup> Buranyi, S. (2019, August 29). The air conditioning trap: how cold air is heating the world. The Guardian. <https://www.theguardian.com/environment/2019/aug/29/the-air-conditioning-trap-how-cold-air-is-heating-the-world>

<sup>6</sup> Georg Fischer Sustainability Framework 2025

## HVAC applications



### Air conditioning

Uninterrupted cooling processes and air conditioning ensure an ambient and comfortable environment at workplaces, residential buildings and hospitals.



### Industrial air conditioning

An ambient work environment for the employees and stable temperatures for machinery help to sustain uninterrupted and efficient production processes.



### Process cooling

Production processes require stable temperatures for machinery. Reliable and maintenance-free cooling systems help to make production more efficient.



### Shipbuilding

Corrosion-free air conditioning plays a vital role in onboard accommodation as it helps to have a healthy and pleasant atmosphere concerning temperature and humidity. Thermal comfort can be provided with a direct expansion system for small capacities, while chilled water systems are commonly used for big ships.



**Data centers consume approximately 3% of the world's electricity, about 40% of which is for cooling**

# Industrial energy efficiency challenge

We create solutions for energy-intensive cooling processes.

GF Piping Systems offers a range of complete systems that have been developed specifically for applications in data centers, crypto farms, and other high-tech industries to provide optimal added value. Our solutions are lightweight and completely 100% weather-resistant, from outdoor systems to indoor water distribution, including white spaces, with our double-containment system with leak detection.

Our plastic piping solutions for cooling applications result from years of pioneering innovation, providing owners and operators with a quicker set-up and more efficient and reliable operation during the entire service life of their projects.

Advanced cooling systems developed using liquid- and air-cooling technologies improve the efficiency of the data center. The cooling systems are connected to district heating & cooling grids, using GF Piping Systems' technology to ensure energy recovery of the heat generated by the IT equipment.



## 25% less energy costs

Our piping solutions can help reduce average energy costs by 25%, thanks to the low thermal conductivity of our factory pre-insulated pipes, valves, and fittings.



## High environmental contribution

Over their entire service life, plastic systems have a carbon dioxide balance 80% lower than metal systems.



## 100% maintenance-free

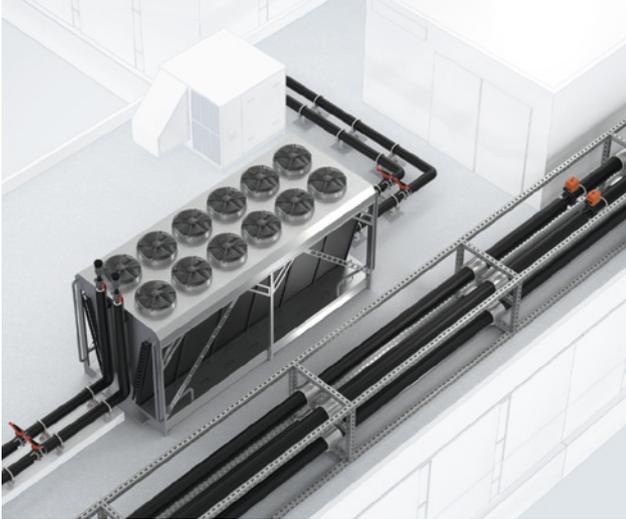
The systems are maintenance-free for 25 years, vapor-tight, and resistant to weather and UV, reducing maintenance requirements and running costs of the cooling system and ensuring reliable operation.



## Full solution delivery

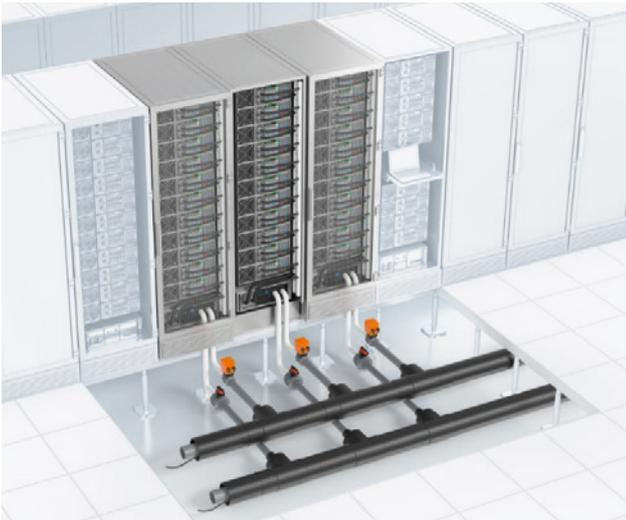
We provide support during all project phases, from engineering calculations during the project's design to properly installing our products and prefabricated components on the project site.

## Key applications



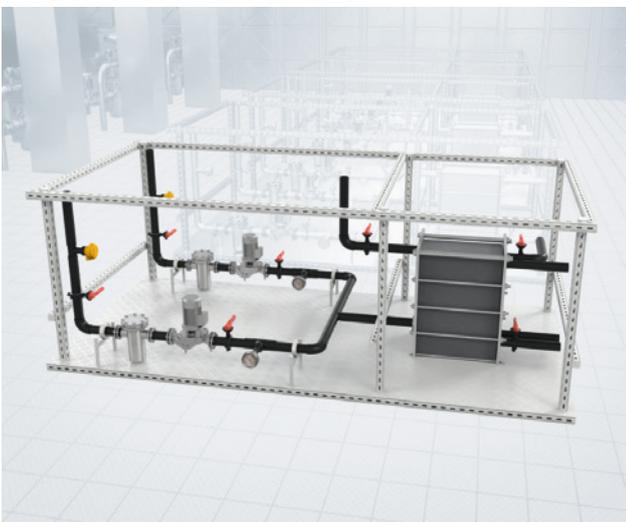
### Chilled water on rooftops

Piping systems for chillers and condenser units on rooftops are exposed to extreme environmental conditions (i.e., temperature variations, rain, UV radiation). For such situations, our solutions offer a lifespan of 25 years with constantly high performance.



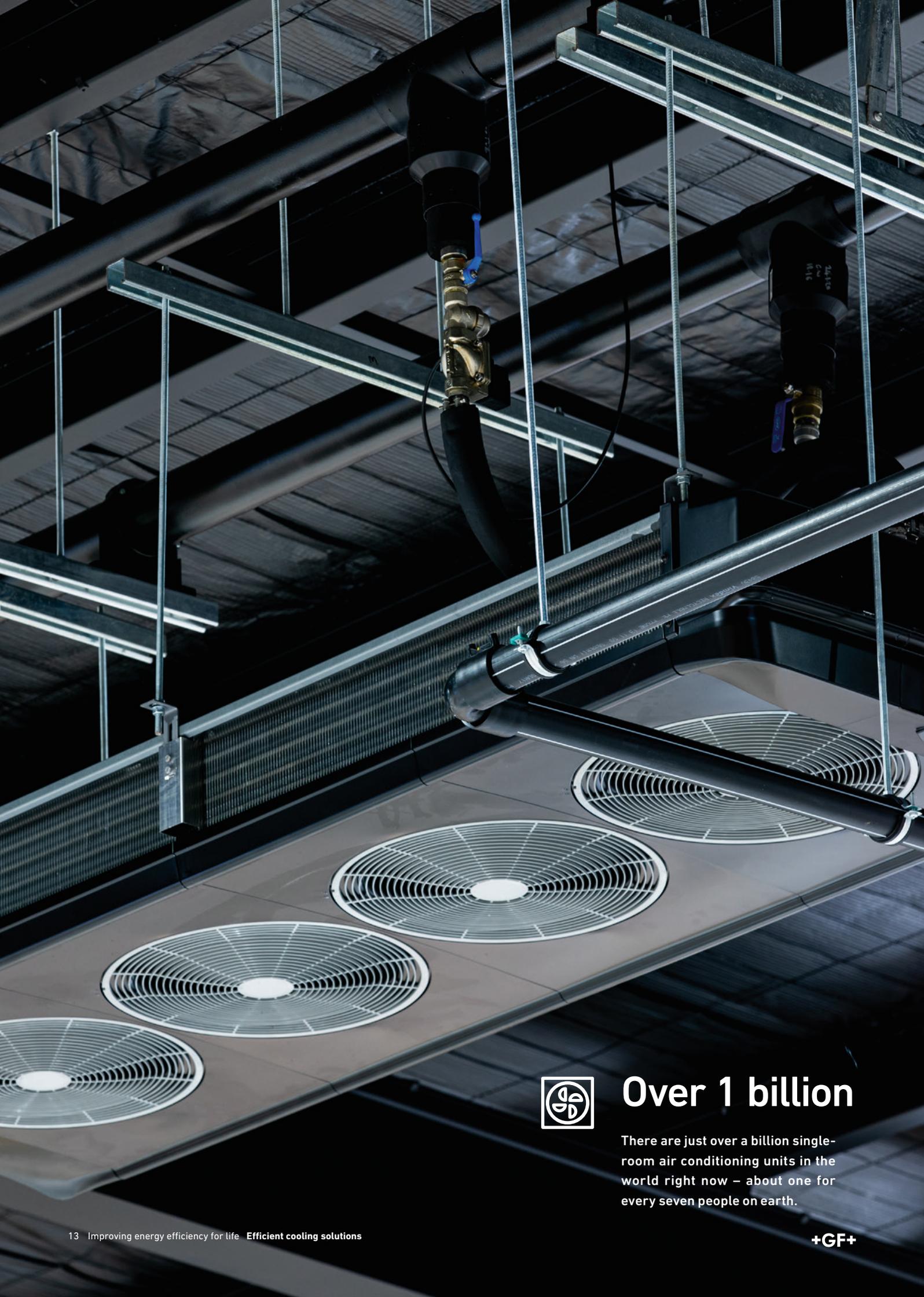
### Direct liquid cooling in computer rooms

The use of liquid-cooled servers, despite offering clear efficiency benefits, also raises safety and reliability issues as pressurized water moves very close to the CPUs. Avoid risk in critical applications by relying on the global expert in top-quality, pressure-bearing plastic piping systems.



### Chilled water pumping stations and machine rooms

Prefabricated pump station skid's built-in controlled working conditions off-site offer considerable advantages. The low weight of plastic enables large skids to be prefabricated off-site and delivered in practically 'plug-in' condition to the project site. Furthermore, GF Piping Systems offers a wide range of compatible manual and actuated plastic and metal valves designed to be integrated cleanly into the complete plastic system.



# Over 1 billion

There are just over a billion single-room air conditioning units in the world right now – about one for every seven people on earth.

Refrigeration

# Faultlessly hygienic and economically efficient

Innovative solutions for the food and beverage industry





### Maximum safety for your production

Refrigeration processes in breweries, wineries, bakeries, dairies, and meat and fish production always require accurate temperature control combined with high cooling capacity. The regulated flow of refrigeration fluids in pre-insulated plastic pipes within the secondary cooling loop allows precise and cost-effective management.

GF Piping Systems products offer cutting-edge technology that benefits fruit and vegetable processors, slaughterhouses, breweries, and supermarkets. Pre-insulated piping systems help you work with maximum efficiency and without disruption while simultaneously reducing your maintenance and operating costs.

### Non-corrosive system solutions

Due to its material characteristic, our factory pre-insulated plastic solution is corrosion-free for its entire lifespan of at least 25 years. Thanks to a robust pipe jacket, damages of the insulation during the installation process or operation are no longer a problem.

### Low maintenance, highly effective

Smooth inner surfaces guarantee good pressure loss characteristics and no encrustation on the internal surfaces of the medium-carrying pipe. The low heat conductivity of plastics helps improve efficiency due to small energy losses. These characteristics lead to low maintenance and highly efficient plants.

### Low installation costs and reduced downtime

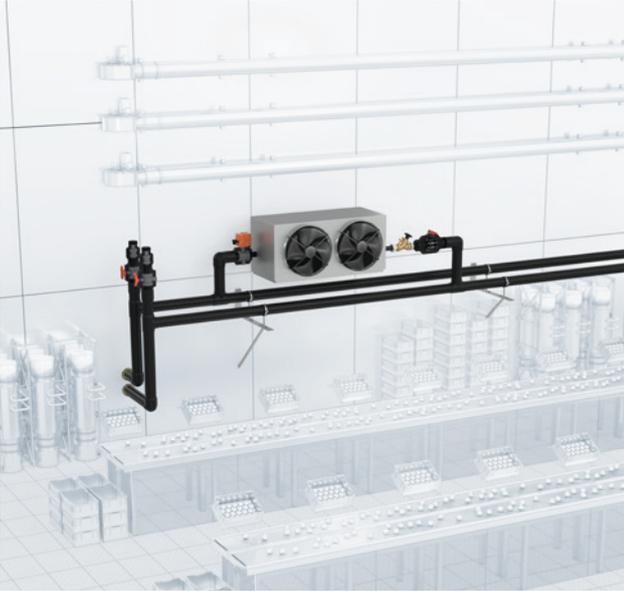
We offer you system solutions designed for specific applications. We provide the appropriate jointing technology for each application to ensure low installation times and reduced downtime costs.

### Easy to clean and remain hygienic

Thanks to its design, GF's pre-insulated system is very robust and can easily be power washed.

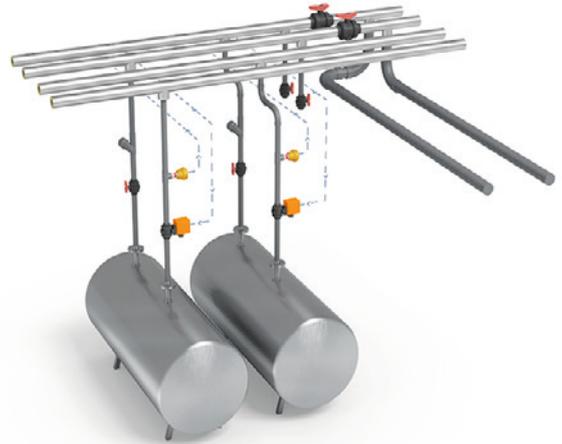


## Key applications



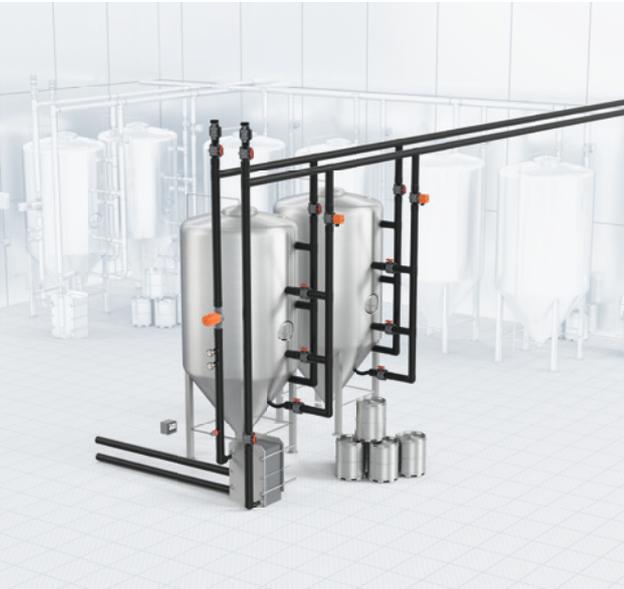
### Food production

During the manufacturing and processing of foods, reliable cooling is essential for faultlessly hygienic and economically efficient production.



### Dairies

The dairy industry has numerous requirements for cooling and refrigeration. The most common applications are cooling milk via a plate heat exchanger, cooling the storage tanks for the milk, or storage areas for other milk-based products and foodstuffs.



### Wineries and breweries

Corrosion resistance is particularly vital in the cooling processes of beverage production because of the constant use of water and liquid primary products.



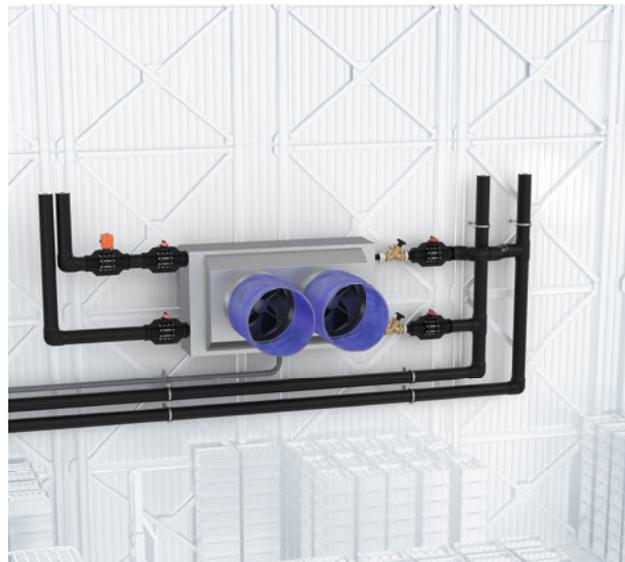
### Meat and fish

Food production halls, packaging areas for fresh food, and the production processes are all areas where temperature-controlled environments are essential. Especially in working areas where foodstuffs are exposed to the surrounding environment, secondary refrigeration systems with propylene glycol (MPG) are common and often required by law due to the possibility of food contamination by leaking refrigerant gases.



### Carbonated drinks

The fizz and characteristic taste of soft drinks and carbonated water come from dissolving CO<sub>2</sub> in water, causing a reaction of dilute carbonic acid. Cooling is an essential part of the bottling process for all carbonated drinks.



### Cold stores

Cold stores are a vital link in the cold food chain. As we know it, the modern world is dependent on fresh or refrigerated foodstuffs. The cold food chain is an integral part of our daily life. Produce must be stored reliably and with accurate temperature control.

The energy costs of cold stores are significant, so any technological advancements that can be made will have economic and ecological benefits. The huge reduction in refrigerant charge, the stable temperature control, and the practically maintenance-free running of such a system make secondary systems an economically viable option in terms of the total cost of ownership.



### Bakeries

The baking process is a highly temperature-sensitive process. The cooling system is critical in bakery operations for large industrial bakeries or smaller regional plants. Chilled water and glycol solutions must be distributed efficiently, accurately, and safely in such plants.

One community, one purpose

# How we're already helping to improve energy efficiency globally



At GF Piping Systems, we use cutting-edge technology designed for versatile use in cooling applications. It combines corrosion and maintenance-free components with a reliable and efficient factory pre-insulated system. We've successfully delivered more than 500 customer projects in multiple industries and installed more than 500,000 kilometers of COOL-FIT pipe globally.

## Zonzo Estate - The Yarra Valley

Located in the Yarra Valley, Victoria, Australia, Zonzo Estate's wine label was born from a simple aspiration to bring friends the best drop possible. In late 2019, the business embarked on an ambitious project to convert an empty warehouse into its brand-new winery. The cooling circuit, custom-designed for the project, uses a mixture of glycol and water, circulating at a temperature of  $-5^{\circ}\text{C}$  and 4 bar of pressure, and is supported by 200 kW of chiller capacity. The glycol circuit is the main pipe run for the winery production for white and red wine. Thanks to the pre-insulated piping, it looks beautiful and has incredible energy efficiency, with minimal transfer and energy loss.

### Stay cool in the fight against COVID-19. SENFA, Alsace, France

The coronavirus brought with it an unforeseen need for face masks. The textile coating company SENFA was equipped with the optimal expertise to produce masks. In a very short time, the necessary machines for the production of the material for fabric masks were ordered. However, as the production halls became too hot in summer with the many machines, the infrastructure had to be adapted. A new cooling center with ceiling fans, compatible with the COOL-FIT system from GF Piping Systems, was able to remedy the situation.



### Baden Cloud, Appenweiher, Germany

With digital consumer demand growing exponentially, GF Piping Systems provided the reliable and maintenance-free cooling system that the Baden Cloud data center requires to ensure its data stays safe. Data centers must be cooled for reliable operations, as servers, storage systems, and network components generate considerable heat. COOL-FIT, the fully pre-insulated plastic piping system, is 50% faster to install, lightweight, and has zero corrosion. The Baden Cloud Operations Manager also chose COOL-FIT to positively affect the company's carbon footprint, with the system boasting 30% higher energy efficiency.



### Singapore Management University, Singapore

The well-renowned Singapore Management University (SMU) campus area spans about 8'000 square meters, of which 7'000 square meters require air conditioning. Located in a hot and humid climate, the university selected the COOL-FIT system to rely on for a comfortable working and learning environment on a project with a zero energy requirement. Approximately 7.2 kilometers of piping and 12'000 units of fittings of the COOL-FIT pre-insulated system were provided for the project completed in December 2019. As this customer was more accustomed to using metal piping systems, GF provided support from design to implementation, such as with engineering assistance and on-site training. The project had a zero energy requirement.



### Porta Samedan Shopping Center, Samedan, Switzerland

The Porta Samedan shopping center in the Swiss Alps was built with a focus on sustainability, which is why the country's largest retailer chose COOL-FIT for its air conditioning system. The center includes a variety of shops, including the Migros supermarket, which need to be cooled and heated to accommodate the growing number of visitors. The pre-insulated piping system COOL-FIT also appealed to the installers, with quick implementation thanks to its light weight and easy to use electrofusion jointing technology, ensuring a fast and smooth construction period. With one third lower emissions caused by the maintenance-free COOL-FIT system, the retailer is sure to pursue a more sustainable future, while providing an uninterrupted offering to its visitors.



Trust the leaders

# Supporting the cooling sector for many years

GF Piping Systems is the perfect partner to integrate your project from planning to commissioning. Our efficient cooling solutions and our Specialized Solutions such as design support, off-site manufacturing, and training programs ensure we are always ready when you are.



**GF UK  
(Coventry)**  
+ Prefabrication  
+ Skids and modules



**GF US  
(Irvine)**  
+ Custom products  
+ Prefabrication  
+ Skids and modules



**GF CPC  
(Shawnee)**  
+ Prefabrication

**GF CPC  
(Dallas)**  
+ Prefabrication



**GF Switzerland  
(Schaffhausen)**  
+ Custom products  
+ Prefabrication

## Your preferred global partner

There are many challenges to completing construction projects in today's accelerating business world, including shortages of skilled labor, time constraints, cost overruns, quality concerns, and physical space limitations on job sites. GF Piping Systems can help you meet these challenges, no matter where in the world your construction project happens to be.

## Specialized ideas

Whether you're an OEM, contractor, engineering firm, or end-user, GF Piping Systems wants to be your partner in executing the most complex construction projects in the world. By applying our Engineering and Offsite Prefabrication solutions, we have earned the position of preferred global partner to some of the biggest players in the most dynamic industries.



## GF Piping Systems has a network of 13 fabrication workshops worldwide



### Ultimate integration partner

With increasingly shorter project lead times for construction projects, our highly skilled project managers, engineering services, state-of-the-art welding technology, and advanced stock management can ensure we meet your tight deadlines on time, every time.

Nowadays, GF Piping Systems has a network of 13 fabrication workshops worldwide. Those locations can coordinate when required by projects, sharing expertise and capabilities to deliver best-in-class solutions, on time, everywhere in the world.

# One partner from planning to commissioning



### Ready when you are

With Specialized Solutions, GF Piping Systems supports the design and installation of state-of-the-art plastic piping systems so that owners and planners can concentrate on their daily business without interruption. GF Piping Systems is present every step of the way, from providing planning support on new projects to testing the condition of old systems.

### Cooling Tool-box

The cooling calculation tool from GF Piping Systems supports the dimensioning and design of the secondary circuit. The cooling calculation tool includes calculation functions for expansion and contraction, energy-saving, surface temperatures, pipe dimensioning, pressure losses, CO<sub>2</sub> footprint, and many more.

### Custom product design

With your individual needs and application in focus, our customizing teams forge the solution that best fits you, developing custom-made parts to complete systems or special solutions produced in small series, individual consulting, and off-site prefabrication. We offer a wide range of comprehensive solutions through our global network of flexible locations. Tailored innovation, inspired by you.

### Digital libraries

The libraries cover three key areas for designing, creating, and maintaining a project: Building Information Modeling, the Plant Design Software, and the CAD Library helping you reduce costs and construction times while ensuring design accuracy and integrity. Reduce time and effort while ensuring design accuracy and integrity.

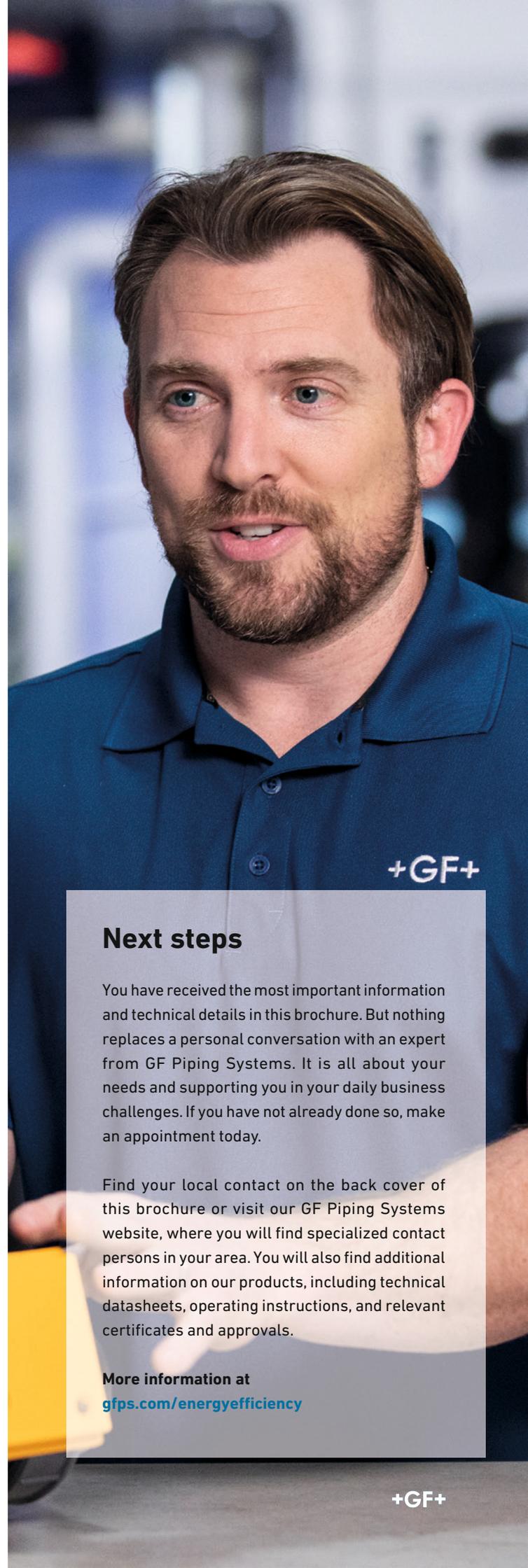
### Engineering

Increase the efficiency of your project with tailor-made analysis packages from GF Piping Systems that help minimize project risks by diminishing incorrect calculations or wrong material selection. Rely on GF's experience in fast project implementation and choose our durable, safe, and reliable piping systems delivery. Established knowledge, guiding you through.

### Instructional and virtual reality training

Installers can master installation techniques related to our portfolio in a safe environment using our instructional courses or our pioneering virtual reality training modules. With each module, your team of installers can become better prepared for the experience of being on-site, welding, and installing our world-leading piping systems.

More information at  
[gfps.com/specialized-solutions](https://gfps.com/specialized-solutions)



## Next steps

You have received the most important information and technical details in this brochure. But nothing replaces a personal conversation with an expert from GF Piping Systems. It is all about your needs and supporting you in your daily business challenges. If you have not already done so, make an appointment today.

Find your local contact on the back cover of this brochure or visit our GF Piping Systems website, where you will find specialized contact persons in your area. You will also find additional information on our products, including technical datasheets, operating instructions, and relevant certificates and approvals.

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