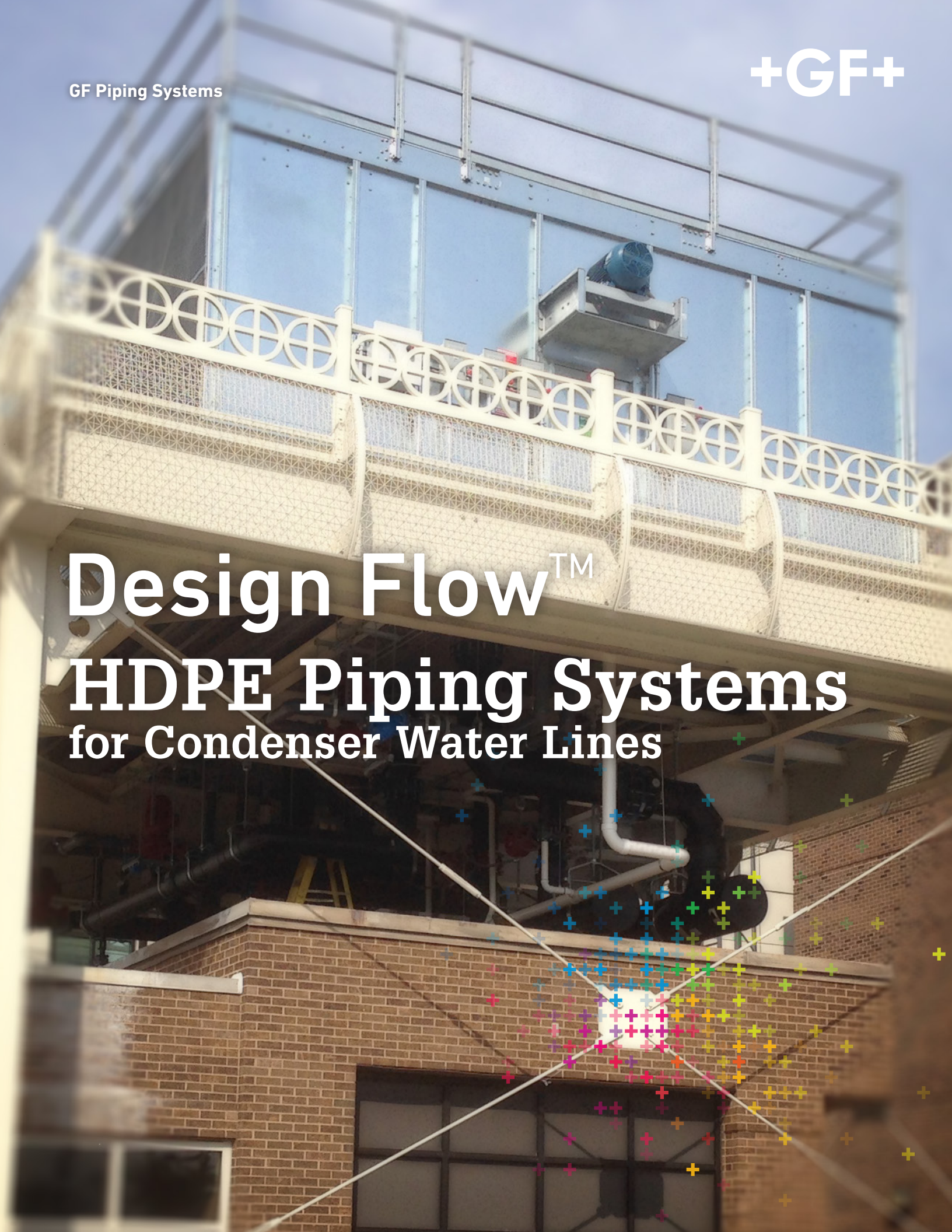


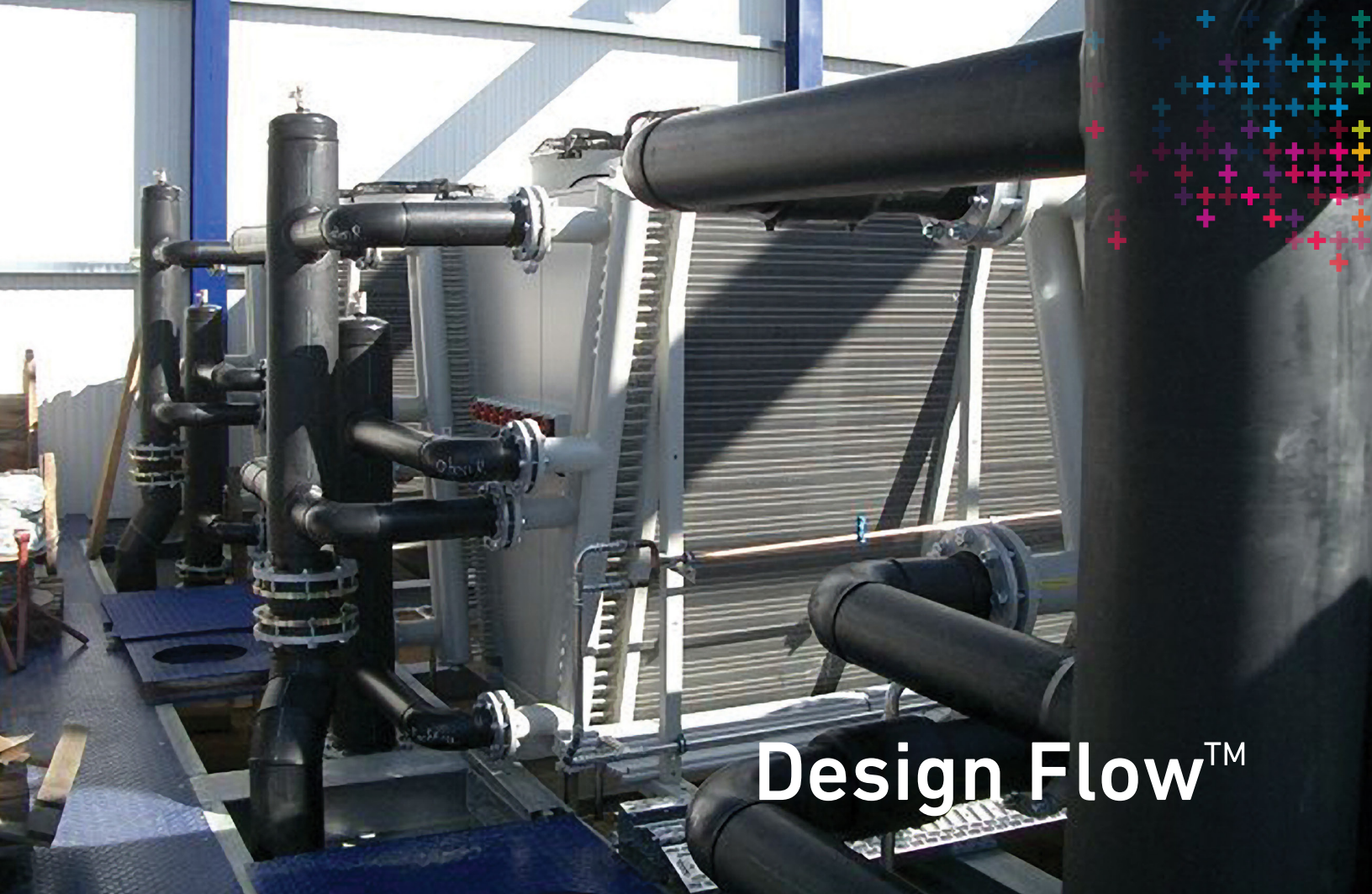
GF Piping Systems

+GF+

Design Flow™

HDPE Piping Systems
for Condenser Water Lines





Design Flow™

Condenser Water

Condenser water lines for chilled water are a common application in both office, mixed use, retail, and industrial buildings. Whether simply used as part of an HVAC system cooling air, or cooling other types of equipment, the condenser water lines are an important part of the cooling system and are expected to last for years. Often, chilled water must run underground to a condenser hundreds of feet away from the building; long-term integrity of the system is imperative. Since most systems are closed loop, a leak is often catastrophic.

Advantages of GF's Design Flow HDPE Piping System

The Design Flow piping system is a complete system from GF Piping Systems which includes, pipe, fittings, joining equipment, and installation training. GF HDPE (High Density Polyethylene) piping systems have a decade-long proven track record in a variety of industrial applications both buried and above ground. Traditionally, condenser water lines have been metal, most

often carbon steel. There are a variety of challenges working with metal piping systems that the Design Flow system reduces or eliminates. Our knowledge and understanding of the applications, along with our training and support, will make choosing Design Flow an easy decision even if you have no previous experience installing plastic piping systems.

Corrosion/Insulation



One of the most common reasons for the failure of a metal piping system is corrosion. Over time, metal pipes often rust both inside and out. Decades after installation, GF's Design Flow system will show no signs of corrosion.



Because of the thermal properties of plastic piping systems, most installers decide not to insulate our Design Flow HDPE. Having a thick plastic pipe wall acts as an inherent insulator.

Fabrication



A major advantage GF can provide is prefabrication. Spools arrive on-site with the complicated joining already done, leaving installers with minimum amounts of joining to complete in the field.



Manifolds often have many connections in a tight space. GF can make customized manifolds with tight tolerances that can be difficult to do in the field. This saves labor and allows you to deliver a product that looks top notch.

Cost



Metal piping systems are considerably heavier than the Design Flow System. Installing a metal system is much more labor-intensive, especially when hanging the pipe from a ceiling.



Price volatility is a concern for metal piping systems. With world supply and demand fluctuating drastically, it's hard to know what your price will be when it's time to buy. You'll find Design Flow is well-priced and, due to price stability, will not increase drastically from when your job was first quoted.

+ General information



Specification

Size Range:
• 2" – 36"

Pressure Rating

- SDR 11 (200 PSI) @ 73°F
- SDR 17 (130 PSI) @ 73°F

Operating Temperature

-58°F to 140°F

Joining Technology

- Butt Fusion
- Electrofusion

Standard Ratings

- ASTM D638
- ASTM D2837
- ASTM D3035
- FDA CFR 21 177.160
- FDA CFR 21 178.3297
- NSF 61



The electrofusion saddle offering allows for field retrofits — in some cases in little as an hour. This reduced labor and downtime saves both time and money.

GF Piping Systems

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