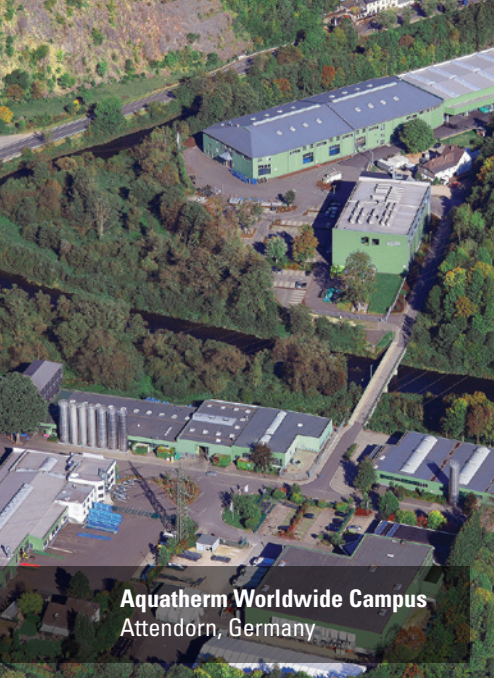
AQUATHERM NEW ZEALAND

INNOVATIONS

aquatherm
state of the pipe



Aquatherm Worldwide Campus
Attendorn, Germany

MORE THAN 40 YEARS OF GERMAN INNOVATION

As the **world's leading producer of PP-R pressure piping systems,**

aquatherm has tirelessly promoted high performance, quality engineering, and environmental responsibility since 1973. Our products are designed to outlast other materials and maintain peak performance throughout the system's lifetime.

aquatherm's polypropylene-random (PP-R) is the **safest, cleanest, longest lasting & best performing piping material available.**

Rosenberg Family
Maik, Gerhard (founder), Christoff, Dirk

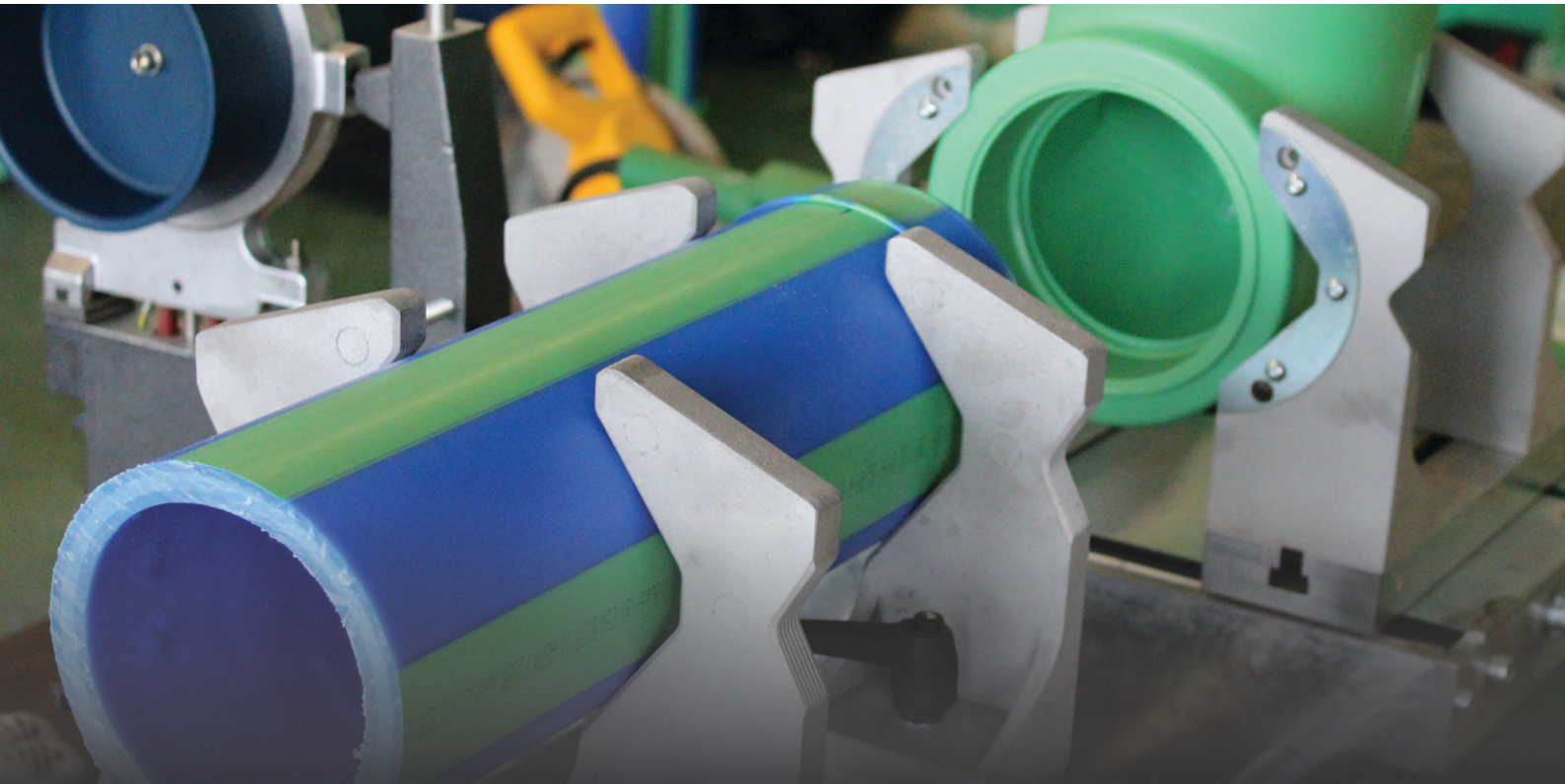
CUSTOMISED FOR

NEW ZEALAND

Our products were **first introduced to New Zealand in 1999,**

and are approved for use across the country in a wide range of applications. **Aquatherm NZ** have tailored their services to the New Zealand market, offering specialised fittings, custom fabrication, and advanced training with trades people and specialists in the business.

Our piping systems are **easy to install, maintain, and will last over 50 years with a certified warrantied install**. No corrosion, no leaks, no worries.



Our hot-water pipes have a reinforced multi-faser layer that reduces expansion by up to 75%.

OUR MATERIAL

Polypropylene-random (PP-R) is the base thermoplastic used in aquatherm's pipe and fittings.

PP-R is a blend of long and short chains of polymers, making the material rigid and durable, but still slightly flexible. When exposed to heat, PP-R can be fused together for a bond that possesses the same qualities as the original material.

PP-R is made from simple chains of polymers, making it strong and inert – **ideal for carrying water and other liquids.**

aquatherm manufactures its own proprietary PP-R resin, Fusiolen®, which is engineered to help prevent microbiological growth and to be easier to fuse than standard polypropylene. It is also heat-stabilised to protect the pipe from temporary exposure to temperatures that would damage other plastics.

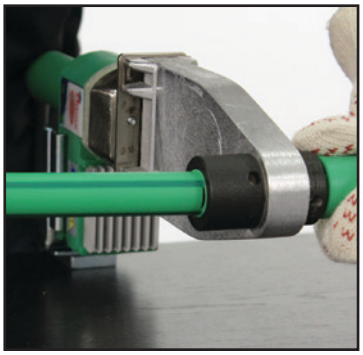
Fusiolen® PP-R is respected worldwide for its **purity, consistency, and low environmental impact.**

aquatherm PP-R and RP

The advantages:

- Low noise transfer
- Excellent self-insulation characteristics
- Nontoxic, inert water quality control
- Lighter in weight, flexible improving installations
- Fusion welded connections for a service lifetime
- 100% corrosion resistant
- Cost savings to traditional metallic systems
- High environmental compatibility
- Low surface resistance and improved water flow rate

PP-RP is corrosion-free and non-leaching, **making it safe and long lasting.**



HEAT FUSION

Heat fusion welds are made **without any glue, solder, or mechanical connections.**

Our Process

During heat fusion, two parts are heated and then pressed together as they cool, resulting in a permanent bond with no leak path. The pipe and fitting become one piece for a strong, reliable, long-lasting connection.

PP-R Transitions

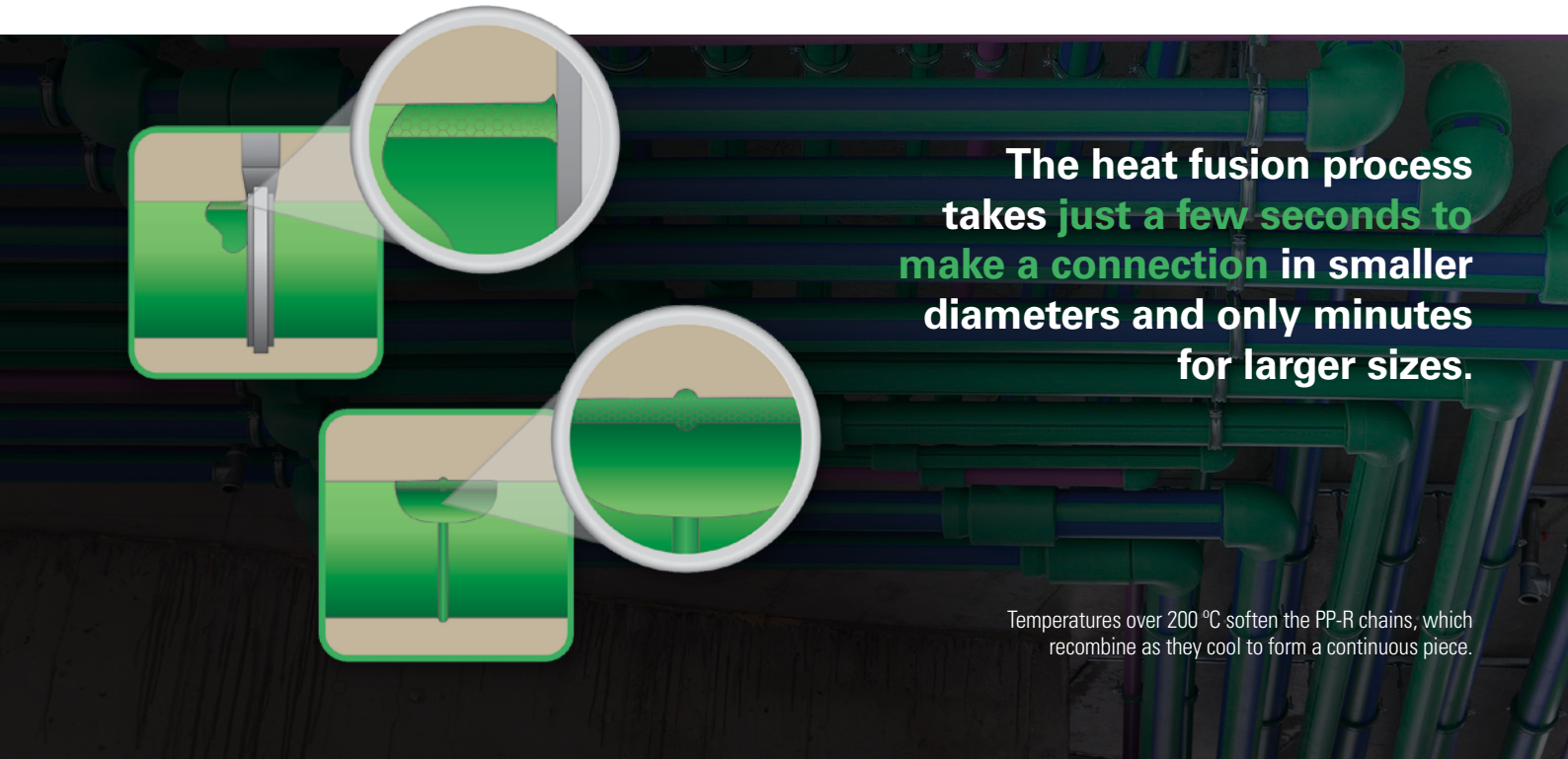
Our transition fittings make it easy to use PP-R pipe in systems that also use copper, PEX, steel, and other piping materials. **aquatherm** has a comprehensive range of BSP male and female connections available in Brass "Zero-Lead" for improved water quality and corrosion resistance and Stainless Steel.

A full range of flange connections in both Table E and DIN/PN.

Fusion Outlets

Fusion outlets replace most reducing-tees, saving time, money, and space.

To install a branch outlet, simply drill through the pipe wall, heat up the pipe and fitting, and place the outlet into the pipe. These outlets do not weaken the structure of the pipe and may be placed closer together than other branch-type connections.



The heat fusion process takes just a few seconds to make a connection in smaller diameters and only minutes for larger sizes.

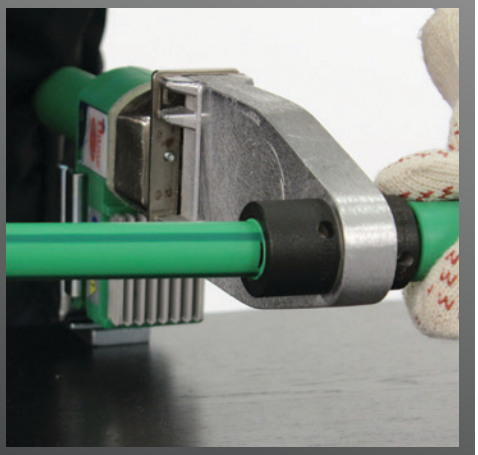
Temperatures over 200 °C soften the PP-R chains, which recombine as they cool to form a continuous piece.

aquatherm green pipe®

aquatherm green pipe is the **safest, most reliable choice for potable applications** and many other projects.

Fields of application

potable water | chemical transport | district heating | swimming pool | ship building | pure water | agriculture & aqua-culture



aquatherm green pipe® is suitable for a wide range of project types. It excels in potable and food-grade applications.

aquatherm green pipe is high resistance to corrosion, making it ideal for hard water supply, commercial, industrial, swimming pools and corrosive environments.

Available in cold water and hot water configurations **aquatherm green pipe** is German manufactured in accordance with DIN and ISO and verified internationally by most leading authorities. **Aquatherm NZ** has BRANZ and Watermark certification for New Zealand compliance.

aquatherm green pipe is available from 16mm to 250mm in diameter, with larger diameter ex-Germany and is used in everything from small homes to commercial buildings.

SDR 9 MF RP - the next generation hot water pipe

aquatherm sets the innovation standard in the production of PP-pipes and fittings worldwide. We continually bother to push developments for product improvement.

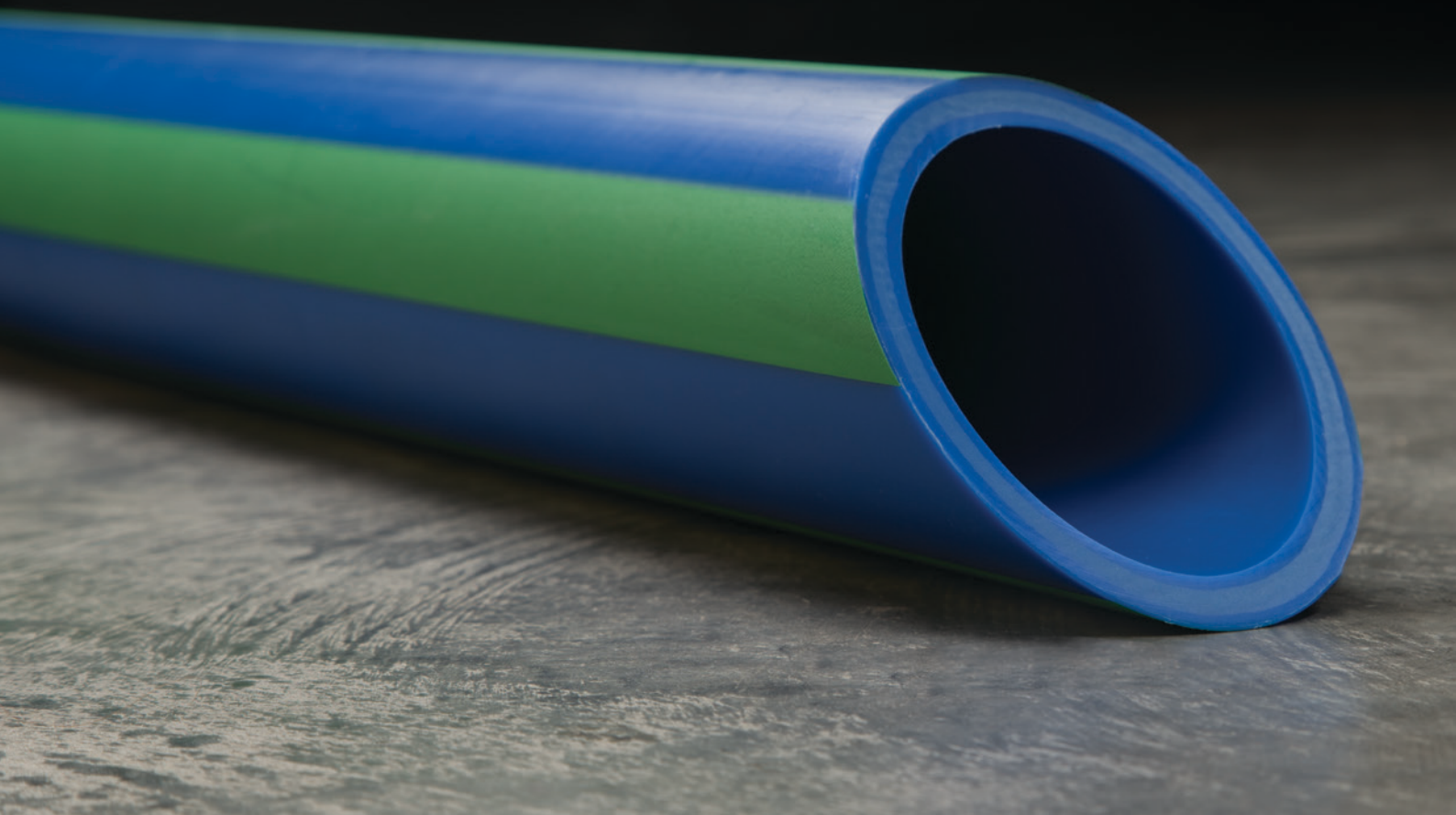
The current level of evolution is called "fusiolen PP-RP". With "fusiolen PP-RP" we can produce fibre composite pipes with lower wall-thickness, increased press and keeping all the well-established advantages of polypropylene.

aquatherm blue pipe®

This alternative to metal is **expansion controlled, corrosion-free, and better** than the piping material it replaces.

Fields of application

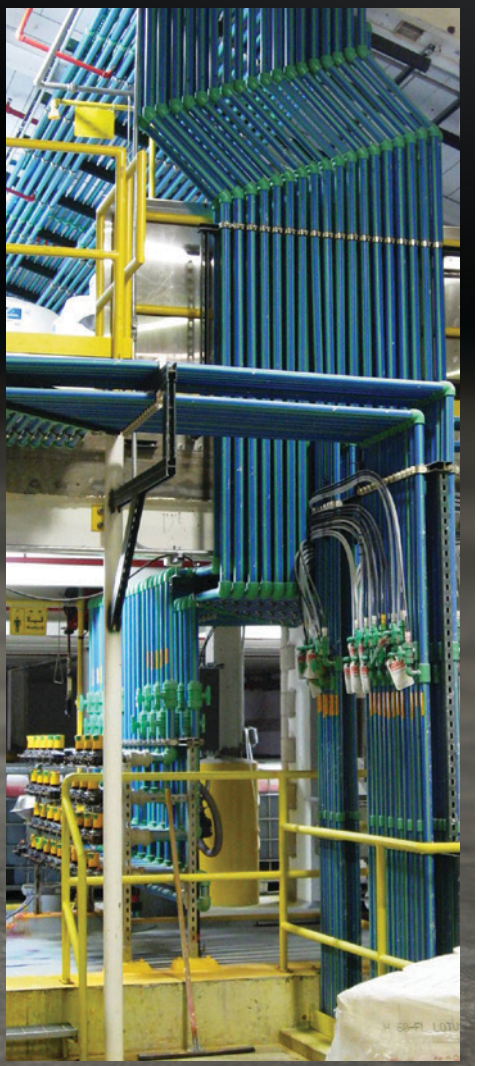
- district heating
- chemical transport
- swimming pool
- ship building
- chilled water
- geothermal
- industrial floor
- heating systems for A/C
- compressed air
- underfloor heating
- sports floor



aquatherm blue pipe® is the best choice for high performance pressure piping systems developed to prevent corrosion in air conditioning pipes, the range of applications for **aquatherm blue pipe** has rapidly expanded, owing to characteristics ideal for other fields of piping installation.

Ideal for applications outside of potable water installations, **aquatherm blue pipe** offers higher volumetric current values due to smaller wall thickness and multi-fibre technology for higher stability and lower expansion.

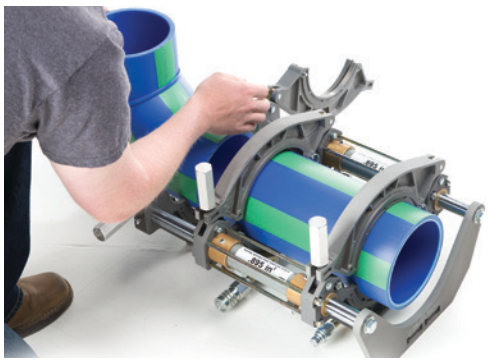
aquatherm blue pipe is available in sizes from 16mm to 315mm and is ideal for heating and cooling, industrial, compressed air, geothermal, and more.



- 100% corrosion resistant
- Increased flow rates
- Fusion welded connections for a service lifetime
- Increase pressure control via multi-fibre pipe layer
- Reduce flushing requirement completing installation

It has gone on to find success around the world in hotels, stadiums, schools, offices, and industrial applications for heat and cooling, compressed air, chemical, geothermal wastewater treatment being non-potable applications.

aquatherm blue pipe's integrated expansion control, heat stabilisation, and resistance to corrosion, scaling and impact, combined with heat-fused connections, make it an ideal alternative to metal and other plastic materials.



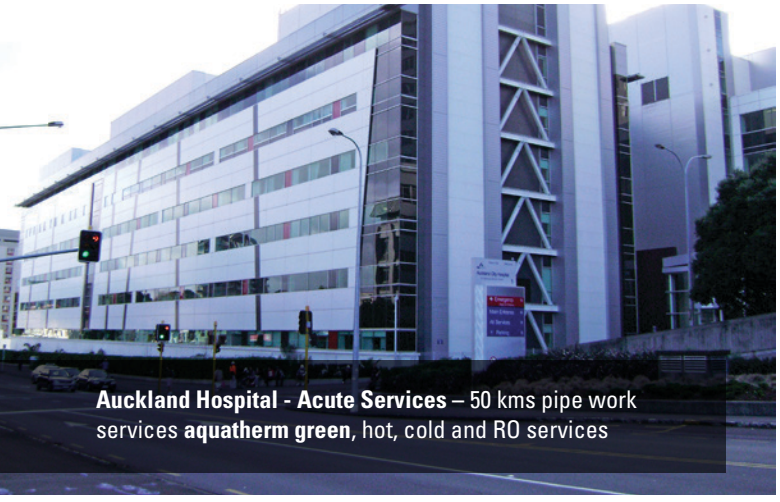
Our products are backed by a **multimillion-dollar global warranty. Now that's confidence.**

Ryman Villages nationally – aquatherm green potable cold water, reclaimed and low temperature hot applications.

OUR PROJECTS

Don't just take our word for it; take a look at some projects where aquatherm pipe has been used here in New Zealand.

From apartments to family homes to large-scale commercial and national projects, **aquatherm** has been adopted not just as a viable alternative but as the preferred choice of contractors, engineers, and property owners.



Auckland Hospital - Acute Services – 50 kms pipe work services **aquatherm green**, hot, cold and RO services

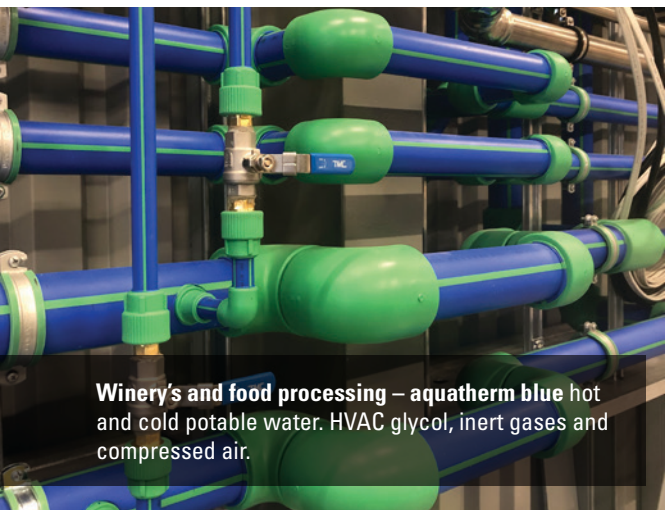
Grey Hospital – aquatherm green colour coded application of hot and cold potable water.

Alexandra Park (246) Apartment complex – aquatherm green for potable cold water to the cylinders.

Shirley Boys and Avonside girls college – aquatherm blue and **aquatherm green**, hot, cold potable services, chilled, heating services and inground pre-insulated services.

Incorporating **aquatherm** piping systems and **BEST Solution**, the building's plumbing is designed to deliver high performance and low maintenance for the full life of the hospital.

Burwood Hospital



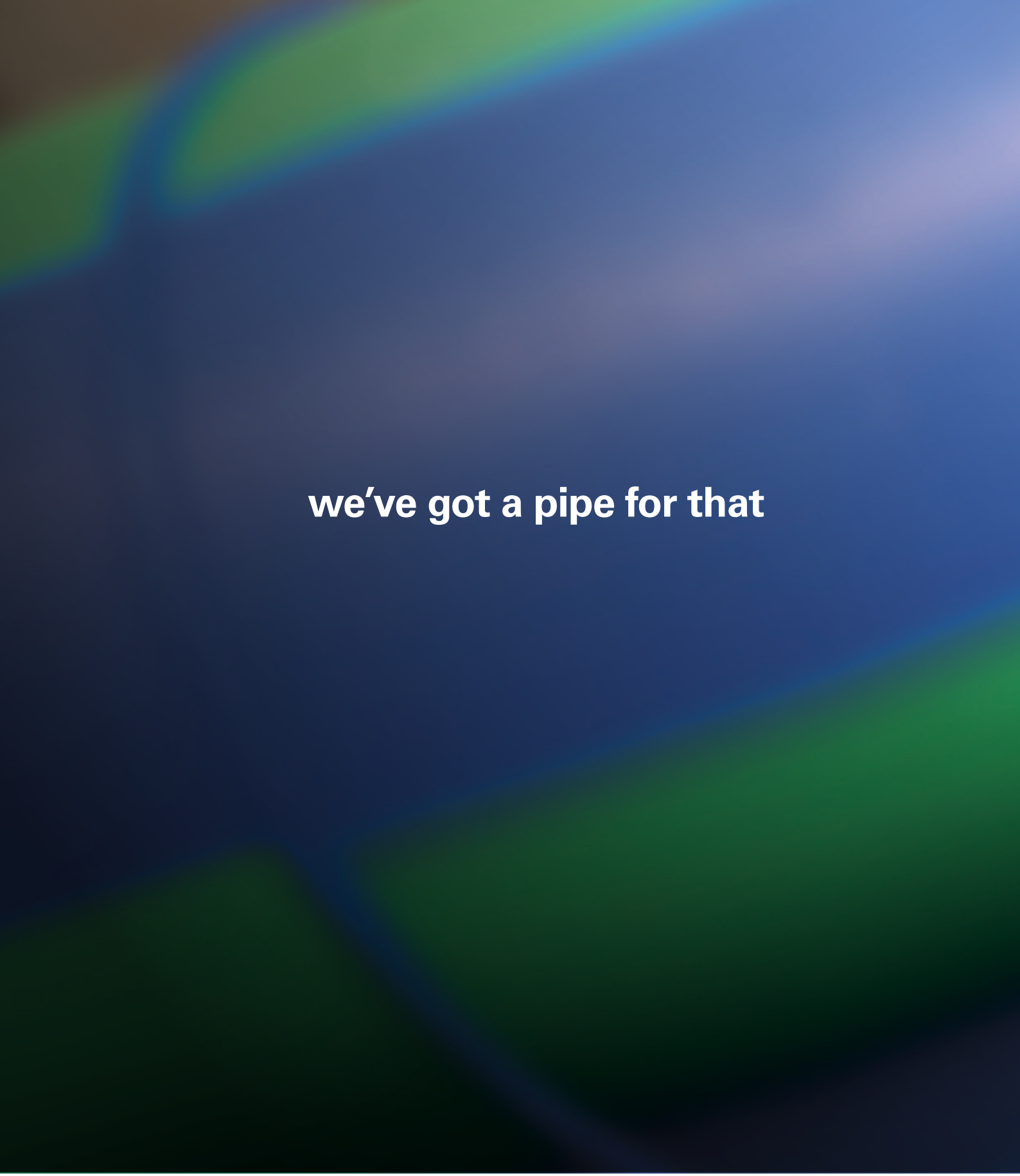
Winery's and food processing – aquatherm blue hot and cold potable water. HVAC glycol, inert gases and compressed air.

Case Study:

BEST solutions in Burwood Hospital

Canterbury's Burwood Hospital is a brand new facility which incorporates state-of-the-art medical technology to deliver the best outcomes for all patients who visit the centre.

Just as important to the successful operation of Burwood Hospital is its plumbing and reticulation systems – and these are just as cutting-edge as the gear which powers the theatres.



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