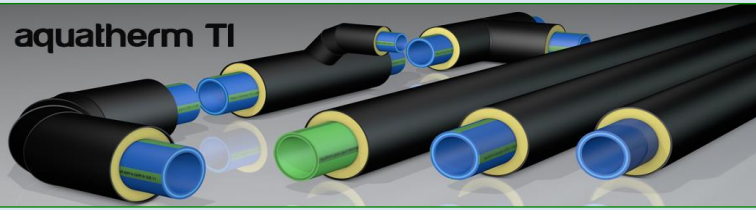


aquatherm TI



aquatherm ti

pre-insulated pipe systems
for district **heating** and **cooling**

One of the most energy-efficient methods of transporting **heating** or **cooling** water covering long distances is the application of underground piping.

Aquatherm offers the German made pre-insulated **aquatherm ti pipe system** with **3 different medium pipes**. These pipes are insulated with closed cell PUR rigid foam and coated with a casing pipe made of PE.

aquatherm green pipe ti

next generation faser composite RP pipe SDR9 Ø32-Ø250 (OD)

Application: (Raised Pressure) **heating** and **cooling**.

aquatherm blue pipe ti

faser composite pipe SDR11/17.6 Ø32-Ø355 (OD)

Application: **heating** and **cooling**.

aquatherm blue pipe ot ti

faser composite oxygen-tight pipe SDR11 Ø32-Ø250 (OD)

Application: **heating**.



Below pictures of a major current Australian project



Advantages of the aquatherm ti system:

- Longevity & maintenance free (no corrosion) critical in PPP projects.
- Less pipe roughness = 0.0070 mm (less pressure loss; smaller pumps)
- Low Thermal Conductivity of the **aquatherm blue** and **green** pipes.
($\lambda = 0.15 \text{ W/mK}$, $\lambda = 384 \text{ W/mK}$ (copper), $\lambda = 50 \text{ W/mK}$ (carbon steel))
- Low weight ($\rho < 1$).
- Lesser linear expansion ($\alpha = 0.035 \text{ mm/mK}$) and expansion forces; no thrust blocks required.
- Very good chemical resistance (in case of "hyper reactive" soil).
- Suitable for high traffic load (SLW60; 60 tons).
- Cost savings by quick and easy processing of pipes and fittings.
- Leak proof socket fusion and butt welding joints.
- No mixing of chemicals due to the use of rigid PUR foam elements.

For more information:

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aquatherm
state of the pipe

colours of innovation

