



aquatherm
state of the pipe

Sails in the Desert Resort, Yulara, NT

Over a number of years, the existing mild black steel chilled water and heating hot water services, which were installed in the service tunnel within the Sails in the Desert Hotel at the Ayers Rock Resort, Yulara NT, had deteriorated to an unmanageable situation where the old steel piping system was continually developing leaks.



Aquatherm blue pipe system replaced the corroded black steel pipe systems.

cool winters), a proper functioning chilled and heating water system is essential.

Solution

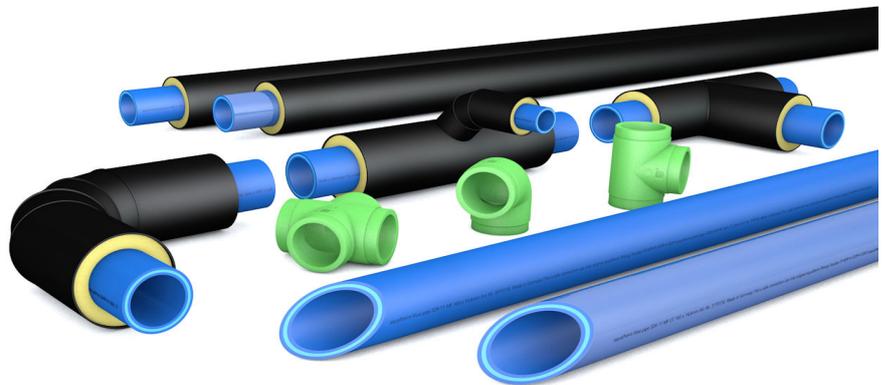
The existing chilled water and heating water flow and return piping were replaced with aquatherm blue pipe SDR11 MF pipe system, pipe sizes up to Ø200, complete with insulation.

The aquatherm blue pipe SDR11 MF pipe system is made of PP-R (Polypropylene Random Copolymer, Multilayer Fibre), all made in Germany.

Using the aquatherm blue pipe system saved the contractor labour time. By using the aquatherm blue pipe system, the labour cost savings could be up to

40%, compared to traditional metal pipe systems. No heavy welding gas cylinders or open flame insurance required, as with the welding of black steel.

The aquatherm blue pipes are lighter in weight ($p < 1$) than metal pipes. The aquatherm blue pipes can be lifted by one or two people.



Aquatherm blue pipe (TI) is a pipe system for heating and cooling, made of a corrosion resistant material, being PP-R.

Requirement

Due to oxygen in the systems and poor insulation, black steel pipes can corrode internally and externally. This will not only cause future leaks but, due to scaling and an increase in internal pipe roughness, will also increase the energy bill for the use of the circulating pump(s). Especially in Central Australia, with its land climate (hot summers and

Since the pipe roughness of the aquatherm blue pipe SDR11 MF pipe is less than for traditional metal pipes, the friction head (energy \$) loss will be less.

Result

Thanks to Hindmarsh Plumbing Adelaide for delivering professionally installed aquatherm blue pipe chilled water and heating hot water systems.

Free training and site support were provided by an Aquatherm technician.

Aquatherm Australia supplied the required aquatherm blue pipe SDR11 MF pipes and PP-R fittings from stock.

Contractor: Hindmarsh Plumbing
Client: Voyages Indigenous Tourism Australia Pty Limited



Sails in the Desert Resort, Yulara, Northern Territory

