



aquatherm
state of the pipe

CASE STUDY: PIPE QUALITY LIKE NEW EVERY DAY



Photo: Club La Santa

PROJECT:
Club La Santa

LOCATION:
Tinajo, Lanzarote, Spain

COMPLETION:
2014

APPLICATION:
HVAC

PRODUCTS:
aquatherm blue pipe
aquatherm green pipe
aquatherm blue pipe ti

NO CORROSION DESPITE HIGH HUMIDITY AND DESALINATED WATER

Lanzarote is a very special island. The fascinating volcanic landscape, the year-round mild climate and the roaring Atlantic make them, despite their size of just 58 kilometres in length and 34 kilometres wide, a holiday paradise that tourists from all over the world visit. Since 1983, Club La Santa in Tinajo in the north-west of the island has welcomed all those who want to combine their passion for sports with their holidays.

Many professional athletes from all over the world visit the Sport Hotel, as the island's climate and resort offerings allow them to work outside year-round, improving their performance. Due to the success and influx of visitors, the owner

decided in 2012 to expand the resort. The new part of the hotel consists of 50 two-storey buildings with a total of 96 apartments, a reception building, a restaurant, technical rooms, a sports centre, a conference building as well as two new Olympic swimming pools and two leisure pools. The building services, which include hot water, swimming pool heating, heating and cooling of the apartments, restaurants, reception and conference rooms, have been planned by Elias Casañas' Incanae engineering office. The experts in geothermal energy and energy saving rely on piping systems from aquatherm. For 15 years Casañas and his team have been working with aquatherm products and are convinced of their quality.

THE CHALLENGE

For a hotel expansion the engineers were looking for an energy-saving piping system that would not incrustate or corrode under the influence of desalinated water and high humidity.

THE SOLUTION

After five years of operation, aquatherm's piping systems operate like brand new and ensure that the circulating pumps used consume the same energy as on the first day.



Photo: Club La Santa, James Mitchell



Photo: Club La Santa

Three systems were installed at Club La Santa: aquatherm green pipe for potable water, aquatherm blue pipe for the distribution of hot and cold water for heating and cooling, and aquatherm blue pipe ti, a pre-insulated pipe for underground distribution of heating and cooling water. In total, aquatherm supplied more than eight kilometres of pipes.

“The beauty of this installation was that we were able to use the aquatherm pipes in combination with geothermal and solar energy,” says Elías Casañas.

The challenge for plant engineers was to work with aggressive desalinated water and, as is typical in Lanzarote, a high level of humidity, which in the area of cooling would result in the formation of condensation on the pipes. These two factors lead to corrosion, especially with metal pipes. However, aquatherm products are made of polypropylene, which does not interact with aggressive waters. The simple installation, in which the pipe and fitting are briefly heated and then joined together, saved a lot of time during assembly.

The plant has been working for five years and the owner, maintenance manager, and project engineers are all very happy with it.

“Products from aquatherm have offered us solutions even in difficult situations. During the installation of the pipes, aquatherm even exceeded our original expectations,” explains Diego Fernández, Maintenance Manager of Club La Santa.

“After five years of operation the aquatherm pipes and valves are like new. There is neither corrosion nor incrustation. That’s why the circulation pumps use the same energy as the first day,” says Elías Casañas.



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