

Water

REVERSE OSMOSIS DESALINATION PLANT



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The municipality of Reggio Calabria in Italy has a system of aqueducts that draw water from the groundwater table through wells. Many of the wells are situated near the coast and are characterised by high salt concentrations. The city of Reggio receives water from the well field of Calopinace. A reverse osmosis desalination plant has been built at Calopinace to purify the water. The plant can treat 180 litres of salty water each second. The water has an average chloride concentration of 5,000 mg/l. Stainless steel was used to create the round welded tubes, fasteners, flanges, pumps, bars, pipe fittings and union elbows used in the desalination plant. Various grades were used, depending on the level of corrosion-resistance required for each part.

Location | REGGIO CALABRIA, ITALY

Environment | OUTDOOR

Product

Fabrication process | WELDING, MECHANICAL JOINING, CASTING (PUMPS)

Grade/surface | 904L, EN 1.4593, EN 1.4462, EN 1.4517, AISI 316TI, EN 1.4408.

Material thickness/diameter

Weight

Competing material | PAINTED CARBON STEEL

Date of Completion

Manufacturer | ACCIONA AGUA S.A.

Material Supplier

Source of Information | CENTRO INOX

Remarks

