



CASE STUDY (072-H-En) **GREECE – RESIDENCE**

Brackish Reverse Osmosis System with a capacity of 22,3 m³ / day water for the needs of washing machines.

DATE OF IMPLEMENTATION
August 2021

PROJECT DESCRIPTION

In a gas station at Ampelokipi, Zakynthos a of brackish reverse osmosis system with a capacity of 22,3 m³/day and quality 2.400 ppm was put into operation in August 2021 covering the needs of low conductivity water.

CHALLENGES

TEMAK took over in a pressed delivery time to create a reverse osmosis system that will produce water of very low conductivity, deionized less than 30 µS / cm, to avoid stains in cars during washing. The brackish water is stored in a tank where it is chlorinated and through the feed pump with flow 1.9 m³/h is first passed to a turbidity filter to remove turbidity and then to an activated carbon filter to retain the organic charge and dechlorination.

Dosing with antiscalant agent is performed to protect the reverse osmosis membranes. The water then enters the reverse osmosis system producing 0,95 m³/h desalinated water achieving a 50% recovery rate.

The system is equipped with a CIP system for rinsing the membranes and for chemical cleaning performance when it will be necessary. The treated water is collected in the product water tank ready for consumption. The treated water is now used to wash tour buses and trucks.

Since 1980, TEMAK has been at the side of Tourism sector and covering their needs with reliability and consistency, having a full range of certified water treatment products. Thanks to the systems manufacture in Greece and the high expertise of its specialized staff, TEMAK is able to offer total water treatment solutions, from study and design to manufacture and installation of required systems.

The 750.000 m³/day of clean potable water or water for general uses, produced daily from TEMAK's installed systems in Greece and 26 abroad countries, constitute the proof of our experience and know-how in water treatment.