



CASE STUDY (075-H-En) **GREECE – RESIDENCE**

Brackish Water Reverse Osmosis System with a capacity of 25,2 m³ / day of potable water

Project Implementation Date
October 2021

PROJECT DESCRIPTION

Residence in Argolida

CHALLENGES

TEMAK undertook to adapt and install the complete solution in the cottage in a new engine room of the client, as well as to train the person in charge of the estate for the operation and monitoring of the equipment. The brackish water is stored in a tank and through a suitable feed pump 3.0 km / h is passed to the turbidity filters to remove turbidity and then activated carbon filter to remove residual chlorine and organic charge. Dosage is performed with anti-inflammatory fluid to protect the reverse osmosis membranes.

The water then enters the reverse osmosis system producing 25 km / h desalinated water with a 60% recovery.

The system is equipped with a CIP device for rinsing the membranes, so that the chemical cleaning can be performed, when necessary. What sulfuric acid is dosed in the water, in order to adjust the pH to 6.6 and then the water is collected in the produced water tank, where it is chlorinated with a very small amount to avoid algae. The design temperature is 18 - 25oC.

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.