# Water Treatment Solutions

## Tourism Sector

TEMAK®

TOTAL WATER SOLUTIONS

# Appropriate water treatment solutions mean **Efficiency & Economy**

The tourism sector is one of the key sectors where TEMAK provides its know-how offering reliable solutions through its methods and products/equipment. Water treatment in hotels is a major issue, not only because it upgrades their services but also because it decreases the operating costs. The water quality in hotels must be in fully compliance with EU guidelines and raw water should be free from physical, chemical and microbiological parameters that have a negative impact on its function and performance.

## Water Desalination with Reverse Osmosis Method

TEMAK provides integrated desalination solutions for brackish and seawater with water treatment systems – which are complete, potable, reliable, easy to install, contemporary technological, equipped and tested.

TEMAK's advanced desalination plants are perfect solutions to tackle the problem of water quality and quantity in hotels. Salts, microorganisms, organic substances, odor, chlorine, particles, ammonia and other harmful elements are removed from water. Desalination of seawater by reverse osmosis is the most widespread method, as it is considered that it can provide good quality of water in economical and reliable way.

Reverse Osmosis Systems

## Filtration

The filtration method removes the suspended solids and other pollutants. TEMAK's automated and rapid sand filtration systems offer an instant solution to the issues of water turbidity, odor, organic substances and chlorine. Types for all hourly water flow rates are available.

Bag Filters

Cartridge Filters

Turbidity Filters

«The proper and responsible maintenance of water treatment systems creates a consistent and continuous relationship between the customer and TEMAK »

## Softening

TEMAK's softening systems remove total water hardness (calcium and magnesium salts) providing "soft" water, protecting hydraulic installations, water supply network, steam and refrigerant circuits from calcium carbonate deposits.

A complete range of automatic softeners is available for any water supply.

Twin Softening System

## Swimming Pool Equipment

TEMAK provides water treatment solutions for swimming pools, such **as pH, chlorine, dosing pumps and exchangers.** The exchangers cover a wide range of applications and are used to heat or cool liquids, using water, steam or other liquid that circulates inside the tubes.

Metering Controlers & Dosing Pumps

Heat Exchangers

## Automatic Chlorination Systems - Disinfection

TEMAK offers total water disinfection solutions from automatic chlorination systems to ultraviolet (UV) radiation devices. TEMAK's automatic chlorination systems ensure the complete disinfection of water supply network, potable water tanks and swimming pools, through controlled chlorine dosing but also continuous water quality control before water is led to consumption. The ultraviolet radiation devices are used for water disinfection through the inactivation/destruction of present pathogens, to inhibit their growth during distribution of water to the final consumer.

Automatic Chlorination System

Ultra Violet Disinfection System

## Chemicals for Desalination, Cooling Towers and Boilers

TEMAK, having a lot of knowledge and experience in water treatment, provides the appropriate chemicals that are necessary for the pretreatment, post - treatment and chemical **cleaning of reverse osmosis membranes**. The appropriate use of chemicals achieves the protection and the longevity of the membranes, the maximization of the system efficiency, the decrease of water and energy consumption, the protection of the equipment from scaling and corrosion. All these factors contribute to the economic operation of the equipment.

Furthermore, TEMAK provides a complete range **of chemical additives** that protect **boilers** (low or high pressure steam, water), cold or hot water closed recirculation circuits, open **refrigerant** recirculation **circuit**s, ensuring high efficiency and proper operation of the systems.

## Hydraulic Equipment

TEMAK is specialized in selecting and implementing various components of a network, while at the same time has developed partnerships with the most important international brands for import and distribution in the Greek market.

- Butterfly valves
- Ball valves
- Non-return valves
- Electric & pneumatic motors

**Valves with Pneumatic & Electric Actuator**

# Benefits of cooperating with **TEMAK**

- **Quality in:**
  system design, manufacture
  and performance, endurance, installation
  and commissioning, spare parts availability

- **Cost reduction due to:** rational management of raw and reject water (economy in consumption), reduced consumption of the detergents and cleaners, minimization of energy consumption in the water heating systems, longevity of the appliances that use water

- **Protection against damages to:** plumbing, piping, electrical appliances, sanitary appliances, equipment of steam generators, equipment of water heater, radiators, boilers, dishwashers, washing machines, coffee machines, ice machines etc

- **Furthermore:** keeping clean and sparking the tiles in the bathrooms, kitchen rooms, sanitary appliances, ensuring soft and perfect clean lines, keeping trees, plants and grass alive and full of colors, protecting the environment by utilizing the available water and energy sources

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 800.000 $m^3$/day of clean potable water or water for general uses, produced daily from TEMAK's installed systems in Greece and 45 abroad countries, constitute the proof of our experience and know-how in water treatment.

**TEMAK®**
ΟΛΟΚΛΗΡΩΜΕΝΕΣ ΛΥΣΕΙΣ ΝΕΡΟΥ

**WATER VALUE AMBASSADOR**
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ISO 9001 ISO 14001 ISO 45001 ISO 50001 ISO 22000 ISO 22301

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