# Water Treatment Solutions

## Buildings | Universities | Institutes
## Swimming Pools

TEMAK®
TOTAL WATER SOLUTIONS

# **Appropriate Water** Treatment Solutions mean **Efficiency & Economy**

TEMAK's new technologies and innovations lead to the optimum water management and treatment, to protect from salt deposits on hydraulic networks. Our solutions contribute to the reduction of failure and operational cost of a plant, and fighting against bacteria, viruses and fungus that may be present in water, which could be fatal especially in sites where large populations gather consuming water.

## Water Desalination with Reverse Osmosis Method

TEMAK provides complete water solutions for brackish and sea water desalination, as a result of its enduring experience, its successful installations, the large number of satisfied customers, and its specialized and perfectly trained staff. TEMAK's systems produce water that is of high quality, clean, healthy, potable and generally suitable for any use. Each case is studied and designed separately based on the quality of available water and the desired daily output. Salts, micro-organisms, organic substances, odours, chlorine, particles, ammonia and other harmful elements are removed from water. TEMAK Water Treatment Systems are complete, portable, reliable and easy to install, state-of-the-art, equipped and tested.

**Brackish Water Reverse Osmosis System 30m³/day**

**BrackishWater Reverse Osmosis System 700m³/day**

**Sea Water Reverse Osmosis System 350m³/day**

# « The proper design and selection of water treatment systems and hydraulic equipment ensure high efficiency with Safe and Optimum operation for people and the environment »

## Filtration

The filtration method removes suspended solids and other pollutants. TEMAK's automatic pressure and rapid sand filtration systems offer an instant solution to the issues of water turbidity and removal of iron, manganese, organic matter. Types for all hourly water flow rates are available.

**Bag Filters**

**Cartridge Filters**

**Turbidity Filters**

## 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.

**Metering Controlers & Dosing Pumps**

**Ultra Violet Disinfection**

## 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.

**Softener**

## 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 motors
- Air motors

**Valves with Pneumatic & Manual Motors**

## Chemical Additives

TEMAK, having the knowledge and experience, supplies the appropriate chemicals, which are necessary for the chemical treatment of boiler and cooling systems.

# Benefits of working with **TEMAK**

- Quality in: • Potable water • Design of solution
  • System manufacture and efficiency • Endurance • Installation and commission
  • Spare parts availability • Promptness in service
- Operation and maintenance cost reduction of the plant and equipment, due to the rational management of available and rejected water
- Minimization of energy consumption and saving on water heating and cooling, longevity of water devices and installations
- Protection from failures and wear & tear on hydraulic installations, piping, electrical devices, sanitary ware, steam generator resistance heaters, steam boilers, radiators, air conditioning units, hot water boilers, etc
- Solution study and design according to the real needs of each building
- Complete preventive maintenance annual plans for the assurance of consumers and buildings
- Specialized scientific support and service
- Equipment, consumables and spare parts stock

- Top quality - reliability
- Competitive prices
- Short delivery times
- Material availability
- Support in funded programs
- Appropriate selection of materials
- Consultation on system improvement
- Consultation on project studies/new installations
- Compliance with international regulations
- Technical support
- Fast service

Since 1980, TEMAK has been at the side of local communities 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 30 abroad countries, constitute the proof of our experience and know-how in water treatment.

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WATER VALUE AMBASSADOR
• ATHENS 1980 •

ISO 9001 · ISO 14001 · ISO 45001 · ISO 50001 · ISO 22000 · ISO 22301 · ISO 13485

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