



CASE STUDY (051-S-En) **Cruise Ship**

PROJECT DESCRIPTION

Special construction of desalination system with total production of 300 m³/day



DATE OF IMPLEMENTATION
December 2018

INTRODUCTION

The cruise ship in which the desalination system was installed belongs to one of the most important groups in the Israeli economy, operating in the shipping, leisure and holiday sectors, real estate, technology and communication.

PROJECT DESCRIPTION

During the reconstruction of a cruise ship recently acquired by the Israel group, two autonomous desalination plants producing 150 m³ per day (total production of 300 m³ per day) were installed with energy recovery systems, providing water for general uses of the ship.

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THE CHALLENGE

TEMAK was assigned with the project and had to deal with many issues, such as:

- The autonomous operation of the units
- Limited space for installation
- The narrow passages of the ship from which the equipment had to travel along to the final installation site
- Promoting the differentiation of the proposed technical solution from that used by domestic and international competitors to the client

TEMAK has responded successfully to challenges by implementing specialized technical solutions such as:

- Making a special pioneering design of 2 units in a single frame
- Selection of appropriate equipment (membranes, turbidity filters etc.) for access from all passages of the ship
- Construction of a sliding frame. The system arrived on the ship disassembled and reassembled at the site
- Designing of systems with energy recovery devices saving 40% energy, achieving less operation and strain on the ship's electromechanics, which leads to significant saving

THE RESULT

The customer entrusted TEMAK with its proposed innovative solution for water treatment, despite the fact that the application of this technology is not customary in the shipping industry. The advantages of the solution are many in the long run, as energy savings are achieved resulting in fuel savings bringing it as distant saving significant financial resources.



TEMAK, from 1980, stands next to Marine Industry supporting all the needs and requirements with reliability and consistency, since it provides a variety of verified water treatment and fluid control products. Thanks to the excellent technical knowledge of its specialized employees, TEMAK has the potential to offer individual and high efficiency solutions to every client.