



HELIOLAND BEACH CLUB RESORT

Location:	El Quoseir, Egypt	Capacity:	500 m ³ /d
Engineer:	Hydropro, Inc.	Feed Source:	Seawater
Market:	Private Resort	Feed Quality:	45,000 TDS
Membrane:	Hydranautics SWC3	Start-Up:	Spring 2001

Project Highlights: Hydropro was selected to furnish a desalination system to provide for the total water requirements at the newly constructed Helioland Beach Club Resort. The design criteria for this system was focused on very low maintenance, very low energy consumption and extreme corrosion resistance. Therefore the very best materials were used.

The high-pressure pump is of centrifugal configuration and is constructed of Duplex SS. All the high-pressure piping is of a special Duplex as well as the Energy Recovery Device. The system frame is constructed of structural FRP, the membrane pressure vessels are of FRP and all other non-metallic materials are of special thermoplastics.

The control system is based on a sophisticated PLC, which will be interfaced with a computer based MMI system. The 160 kW high-pressure pump motor is started and controlled by a Variable Frequency Drive System. All system operations can be remotely monitored by Hydropro's associate, MegaTrade of Cairo and by the service and engineering departments at the Hydropro home offices.