EURO MEC®
water treatment plants

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AT A GLANCE

Location:
Port Sudan, Sudan

Client:
Sea Ports Corporation,
Sudanese Government

Project type:
Design, supply, installation and operator training for two (2) desalination plants, delivered CIF to Port Sudan on the Red Sea.

Water treatment plants:
Two (2) reverse osmosis desalination plants

Raw water source:
The Red Sea

Treated water quality:
Drinking water

Capacity:
Two (2) plants each producing 150 m3/day of safe drinking water

EU 444511CE

PORT SUDAN – DESALINATION OF WATER FROM THE RED SEA

Euro Mec Srl was contracted by Sea Ports Corporation, the port authority that governs, constructs and maintains harbors and ports in Sudan, for the supply and installation of two (2) containerized reverse osmosis (RO) water treatment plants.

Each plant is designed to produce 150 m3/day of drinking water through desalination of water from the Red Sea and is housed in an air conditioned 40' shipping container which has been modified to become the permanent plant housing and then recertified for road and marine transport.

The RO plants include the following equipment and treatment stages: submersible sea water intake pump, pre/post disinfection, sand & activated carbon filtration, antiscalant dosing, protective cartridge filters, high pressure pumps, energy recovery system, reverse osmosis desalination system, post sterilization, remineralization, Cleaning in Place (CIP) and automated flushing system and electrical control cabinet with PLC which automatically manages the entire plant.

In addition to the supply of the units, spare parts and consumable items, EURO MEC provided expert installation assistance and a comprehensive training course for local technicians responsible for operating and maintaining the desalination plants. Training is essential to the success of all Euro Mec projects and has the added benefit of strengthening the capacities of local operators.

The photos show a view of Port Sudan (top), inside a containerized sea water RO plant (left) and a 40' containerized water treatment plant being dispatched from EURO MEC (right).