



## AT A GLANCE

### Location:

Lipari Island, Aeolian Islands,  
off the coast of Sicily, Italy

### Water treatment plant:

Reverse osmosis sea water  
desalination plant.

### Raw water source:

The Tyrrhenian Sea

### Treated water quality:

Drinking water

### Capacity:

450 m<sup>3</sup>/hour, 10,800 m<sup>3</sup>/day

This flow rate is achieved in three  
(3) sections each producing  
150 m<sup>3</sup>/hour of drinking water.  
The sections can be managed  
independently to satisfy the  
fluctuating demand for drinking  
water on the island.

## DRINKING WATER FOR THE ISLAND OF LIPARI

Lipari is the largest of Italy's Aeolian Islands, a registered UNESCO World Heritage Site and popular tourist destination.

Lipari's population doubles in the Summer months putting pressure on the island's drinking water supply and for this reason Euro Mec was contracted to supply a drinking water plant treating water from the surrounding Tyrrhenian Sea.

The plant was designed to be realized in different stages. The first stage consisted of the urgent advance supply of the first section of the plant with a flow rate of 150m<sup>3</sup>/hour, operating 24 hours per day for a total production of 3600m<sup>3</sup>/day of drinking water. This important advance delivery was completed in July just in time to accommodate the peak of the high season in August when tourists flock to the picturesque islands for Summer holidays.

The water treatment plant is a skid mounted reverse osmosis (RO) desalination plant producing drinking water from sea water and was designed to work with power supplied by a photovoltaic system. The unique configuration of the plant optimizes performance and also ensure easy access for management and maintenance of the equipment.

Euro Mec engineers and technicians worked on the installation and start up of the plant and provided training and ongoing support to local operators to ensure the high quality of the drinking water being produced.

*The photos show a view over Lipari Island (top), part of the equipment being delivered to the island (left) and one section of the drinking water plant during installation (right).*



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