



## **Water disinfection of board of the ships.**

**Water disinfection using an Envirolyte ELA-400 installation,  
installed in July 2013 on Viking Mariella**

**Viking Line ships sail several times daily between Finland and Sweden as well as Finland and Estonia. The Åland Islands (Finland) are accessible from both Turku and Helsinki on the Finnish mainland and in Sweden from Stockholm and Kapellskär**



**Viking Mariella**

**The Mariella sails between Helsinki and The Åland Islands (Finland) and Stockholm.**

**The ferry was built in 1985.**

- **Length: 177 m**
- **Width: 28,4 m**
- **Passengers: 2 500**
- **Beds: 2 500**
- **Cars: 430**

**The fresh water tank is approximately 270 m<sup>3</sup>.**

**Daily water consumption is up to 65 m<sup>3</sup>**

**The accepted bacteria count : Less than 1 Cfu / 100 ml.**

**(In practice = 0 Cfu / 100 ml)**

**Installed Unit: Envirolyte ELA-400, capacity 40 L of Anolyte/ hour**

## **Installation**



**Envirolyte ELA-400 anolyte generator , brine tank, pressure control valve, water filter, pipes and fittings.**



Installation on Viking Mariella was complicated since the installation site is as divided by the doorway. The machine and the anolyte storage tank are on the opposite walls from the doorway and the pipes and the electrical cables had to be secured above the door.

## **Viking Mariella Bacterial test results**

Viking Lines had problems with high bacteria count on board the ships. They therefore decided to take a new initiative to reduce the bacteria counts on first Viking Gabriella and then on all other seven ships. After two months of extensive trials with anolyte being delivered to the ship in canisters and verification of the results by the German accredited laboratory Viking Lines ordered the installation of an Enviolyte ELA-400 unit on board of Viking Gabriella and then Viking Mariella.

In July 2013 the Enviolyte ELA-400 unit was installed and only 2 weeks later the Viking Mariella was declared free from bacteria.

The Enviolyte ELA-400 installation was accomplished by Enviolyte distributor in Finland - Enviolyte Suomi Oy, Hallimestarinkatu 23, 20780 Kaarina, Finland, e-mail: [heikki.puurula@enviolyte.fi](mailto:heikki.puurula@enviolyte.fi), [matti.kannisto@enviolyte.fi](mailto:matti.kannisto@enviolyte.fi), Tel.: +358 40 547 9220, +358 40 540 5110