



Water disinfection of board of the ships.

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

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 XPRS

The Viking XPRS sails between Helsinki and Tallinn.

The ferry was built in 2008.

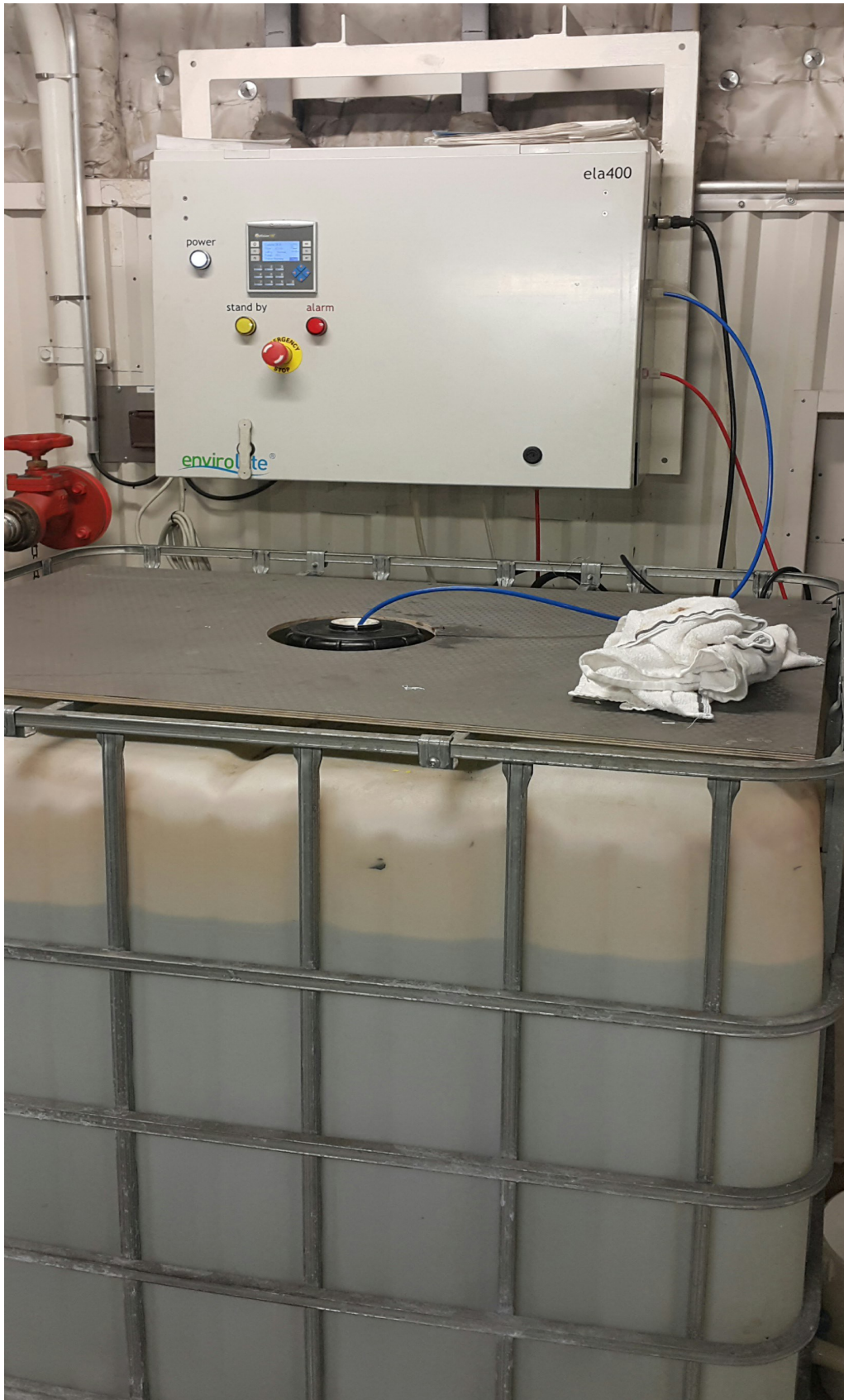
- **Length: 185 m**
- **Width: 27,7 m**
- **Passengers: 2 500**
- **Beds: 736**
- **Cars: 230**

The fresh water tank is approximately 270 m³. Daily water consumption is up to 150 m³.

**The accepted bacteria count : Less than 1 CfU / 100 ml.
(In practice = 0 CfU / 100 ml)**

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

Installation

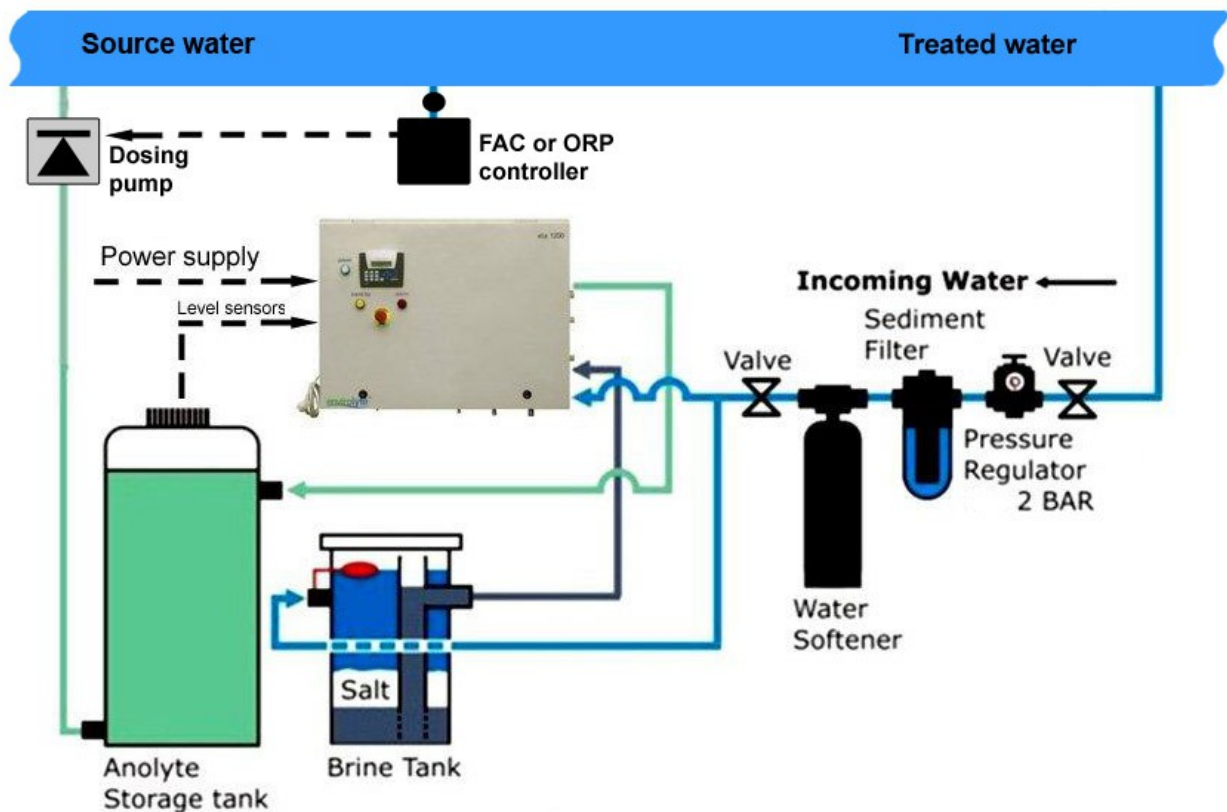


Envirolite ELA-400 anolyte generator with anolyte storage tank



Analyte dosing pump with brine tank and water filter

Below can be seen a schematic of the systems layout



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

The Enviolyte ELA-400 installation was accomplished by Enviolyte distributor in Sweden - Enviolyte Technology AB (www.enviolyte.se)