



Water disinfection of board of the ships.

**Water disinfection using an Envirolyte ELA-1200 installation,
installed in January 2013 on Stena Vision**



Stena line, Vision sailing between Karlskrona Sweden and Gdynia Poland.

The ferry was built 1982 – 1987 in Poland.

The fresh water tank is approximately 300 m³.

Daily water consumption is up to 90 m³

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

(In practice = 0 CfU / 100 ml)

Installed Unit: Envirolyte ELA-1200, capacity 120 l Anolyte/ hour

Installation



1000 L Anolyte container
25 L Catholyte container



Enviolyte ELA-1200 unit
Redox (ORP) control box



Red hose = Anolyte from ELA-1200 to Anolyte container.
Blue hose = Catholyte to drain or Catholyte container.
Black hose = Back wash



Brine container
Yellow hose fresh water to
the Brine container
(Salthopper)

Fresh water hose to the
Envirolyte ELA-1200 unit



Pressure regulator
In-coming fresh water
Filter
Black hose, fresh water to
Envirolyte ELA-1200 unit



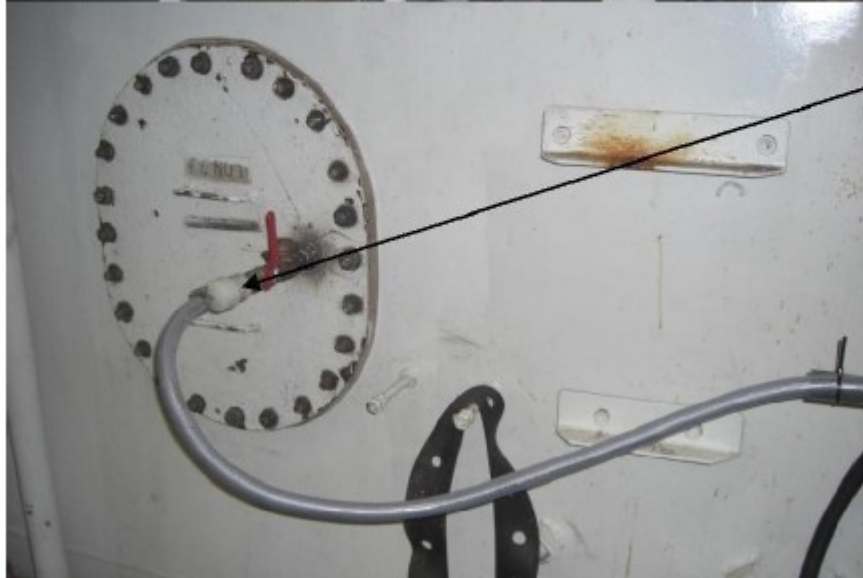
Anolyte dosing pump

Anolyte hose to the dosing Pump

Signal cable from ORP instrument to the dosing pump.



'Brine hose to the ELA-1200



Anolyte dosing point to the Fresh Water tank.

Stena Vision Bacterial test results

Stenaline had problems with high bacteria count on board Stena Vision 2011.

Beginning 2012 they installed a Conventional Disinfection system with UV light and Chlorination of all the fresh water. After one year of trails with the UV/Chlorination Stenaline found that the reduction of the bacteria count to < 1Cfu/ 100ml was not achieved.

They therefore decided to take a new initiative to reduce the bacteria counts on Stena Vision and ordered the installation of an Enviolyte ELA-1200 unit.

On the 11 January 2013 the Enviolyte ELA-1200 unit was installed on Stena Vision and only 6 weeks later, on the 21 February 2013, the Stena Vision was declared free from bacteria. The test results can be seen below.

Location	Test 09 January 2013	Test 30 January 2013	Test 21 February 2013
Cabin 2222, Deck 2	No Bacteria's	No Bacteria's	No Bacteria's
Cabin 7321, Deck 7	Bacteria's, 15 Cfu/100 ml	No Bacteria's	No Bacteria's
Cabin 8148, Deck 8	No Bacteria's	No Bacteria's	No Bacteria's
Cabin 1001-1002, Deck 10	Bacteria's, 50 Cfu/100 ml	Bacteria's, 10 Cfu/100 ml	No Bacteria's
Cabin 1153, Deck 11	No Bacteria's	No Bacteria's	No Bacteria's
Large Pool, Spa	Bacteria's, 20 Cfu/100ml	No Bacteria's	No Bacteria's
Small Pool, Spa	Bacteria's, 10 Cfu/100ml	Bacteria's, 1 Cfu/100ml	No Bacteria's

The Enviolyte ELA-1200 installation was accomplished by Enviolyte distributor in Sweden Aquacode AB , Bergfotsgatan 5B,431 35 MÖLNDAL ,Sweden.

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