ACG Ecolcell Antifouling Chlorinator

HLI's Model 7600 antifouling chlorinator was developed for the U.S. Navy using technology from Azienda Chimica Genovese (ACG) of Genoa, Italy, a company with over 45 years experience in electro chlorination antifouling in both naval and commercial marine applications. In a new teaming arrangement HLI is offering ACG's commercial equipment in the U.S. market. HLI will manufacture the equipment in the U.S. using some ACG proprietary components and will offer continuing

field support for the equipment. The commercial Ecolcell creates an antifouling agent, sodium hypochlorite (NaOCI), directly from seawater which is distributed to the seawater piping system for protection against all types of fouling.



agent (sodium hypochlorite) is required to combat marine fouling, 0.1 to 0.3 ppm. At such low levels, the chlorine residual is NOT harmful to the environment. These residual levels have been tested and they uphold International Environmental Standards. This antifouling agent is unique in that, and once the electrolysis (conversion from seawater to NaOCI) has taken place, the solution reverts to salt and water within 25 minutes.



Ecolcell operates by using an electrolytic cell containing titanium anodes to transform the salt of seawater into sodium hypochlorite (NaOCI) through a process of electrolysis.

Electrolysis begins when the current is switched on at the control panel and the valves are opened. The resulting sodium hypochlorite is piped to the injection points where the disinfecting agent is injected into the seachests to mix with incoming seawater and prevents fouling in the whole seawater system.

The system consists of three parts:

- Control Panel (located near electrolysis group);
- Electrolysis Group (located in the engine room/the nearest of seachests);
- Injection points (located in seachests, connected to the electrolysis group via pipes and control valves. Specially designed ACG pipes can also be used).

Facts about Sodium Hypochlorite:

- Sodium hypochlorite is acknowledged as being the best antifouling agent:
- It is effective against both macro and micro marine fouling;
- It is eco-friendly, produced directly from seawater and reverts to salt and water when transformation process is complete (total time of 25 mins approx.); small concentrations guarantee that the corrosiveness of seawater does not increased (unlike copper anode system), i.e. no galvanic corrosion.







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Schematic diagram:

