

Clorius Controls ... company profile



Clorius
Controls A/S

- ensures reliable
control of heating, cooling
and ventilation systems.

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Clorius Controls

For over a century, Clorius Controls has specialised in the development and production of equipment for monitoring, controlling and regulating heating, cooling and ventilation.

The company has delivered thousands of self-acting thermostats to the shipbuilding industry. These differ from other thermostats in that they can be maintained and even repaired onboard a vessel. The company has even launched a 3D instruction guide accessible via its website - www.cloriuscontrols.com - to aid ship engineers in this.



Recent design improvements have lowered the weight of Clorius control valves.



Temperature control on open deck requires controllers that can withstand seawater. For this purpose, Clorius has developed a high quality self acting, all stainless steel thermostat.

Other items in the ever-evolving product range include control valves, electronic controllers, electric valve motors, pneumatic controllers and -actuators. These products have been supplied to shipyards all over the world.

"Secure delivery and reliable co-operators are important factors, when you want to keep a ship running all year," Torbin Laursen of Clorius told Marine Equipment News. "This is why Clorius Controls offers buffer stock of valves and regulating equipment according to industry specification. Service engineers from Clorius are ready to travel in order to participate in sea trials and to ensure the quickest and most economical repairs. The engineers are available 24 hours a day, 365 days a year."

Over the past 12 months, Clorius has increased sales to the shipbuilding industry by 20 per cent. "We have been especially successful in the growing Chinese market, but sales have also been bolstered by Polish, Croatian and Romanian orders. The order book for the year ahead indicates that we can expect

similar sales growth." says Mr Laursen. To further aid ship designers, Clorius has signed up with Tribon.com, the online marketplace that links shipyards, maritime equipment suppliers and shipowners in a global network.

On the design front, the Clorius team has reduced the weight of Clorius 3-way valves. In addition two new types of electronic temperature controllers have been introduced recently. Type ER 2000 is a simple PI(D) temperature controller. For easy start-up it can automatically and optimally determine favourable control parameters.

Type ER 3000 is a double loop PI(D) controller which is used where a conventional single loop controller cannot maintain a constant and precise temperature. An installation example would be large engine jacket cooling water systems.

"Experiences shows that using single loop controllers for this application can give some high temperature fluctuations in the cooling water system, especially when starting and stopping the freshwater generator. Such fluctuations are avoided by using the new type of controller," says Mr Laursen.



3-way valve made of nodular cast iron equipped with valve motor type MT 90.

The company has also designed a product to meet the market demand for a price competitive, high quality temperature control solution for open deck installations.

Clorius is now marketing a high quality self-acting thermostat. All metallic parts of the thermostat are made of stainless steel and the thermostat is fully sealed. "Compared with other solutions, pneumatic or electric, this solution is extremely cost-competitive," adds Mr. Laursen. "The Croatian shipyard 3. Mai Brodogradiliste D. D. has decided to use this solution for their newbuildings numbers 683 and 684. Each of the newbuildings will be equipped with 30 controllers."

These vessels will also be equipped with Clorius pneumatic actuated control valves for cooling applications. The all stainless steel thermostat can, of course, also be used in rough, hazardous areas as an inexpensive and reliable alternative to traditional solutions.

New single- and double loop controllers. The double loop PI(D) controller is used where a conventional single loop controller cannot maintain a constant and precise temperature.



Complete control systems

Clorius Controls offers a complete range of tested and reliable equipment for control of heating, cooling and ventilation systems, all with the purpose of achieving the highest reliability and saving energy.

Specialists in selected areas



Residences and institutions

Equipment for control and regulation of heating and ventilation systems



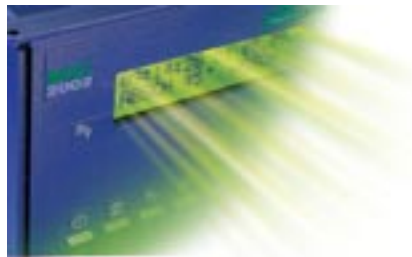
Industry

Valves and thermostats for the regulation of heating, cooling and process heat



Maritime industry

Certified valves, thermostats and motors



Control valves

Clorius valves are simple and reliable for regulation of temperature and pressure differences in heating, cooling and ventilation systems for maritime industry, general industry, institutions and residences.



Controllers

Clorius Controls offers a wide range of electronic controllers for heating, cooling and ventilation systems. The controllers are available for systems in the maritime industry, general industry, institutions and residences. Clorius Controls offer controllers for simple stand-alone solutions or for larger BMS-plants.



Motors

Clorius Controls offers a large program of conventional regulation motors and analogue motors. This includes special motors for maritime use, which are designed to withstand vibrations.

Thermostats

Self-acting thermostats from Clorius Controls function directly and are available with sensors for air or liquids. They are also available as safety thermostats for the protection of secondary pipe installations.



Balancing valves

With Ballorex balancing valves the amount of water in the individual heating circuits can be balanced and regulated.

Pressure differential controllers

The controllers from Clorius Controls lower large and variable pump pressure to stabilize the flow in the plant.



Clorius Controls' products can also be found on Tribon.com.

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