

Clorius Controls solves the task of temperature control

Any task where a media is heated or cooled to a certain temperature, Clorius Controls has the solution.

Examples of medias to be heated / cooled:

Fresh water Hot water Lubricating oil Fuel oil Air Asphalt

Examples of valve media:

Fresh water Sea water Hot water Lubricating oil Steam

Heat transfer oil

Limits for the valve media:

Temperature up to **350°C**Pressure up to **40 bar** k_{vs} up to **1250 m³/h**

The Clorius Controls Scope of Supply

Valves:

2-way valves

Sizes DN 15/4 - DN 150 Single / double seated 3-way valves

Sizes DN 15 - DN 300

Body material: gun metal

cast iron

nodular cast iron

cast steel

Spindle: stainless steel
Cone and seat: stainless steel

gun metal

Control equipment:

Selfacting temperature control

consisting of

thermostat sensor

capillary tube

Electronic temperature control

consisting of

valve motor PI(D) controller

sensor

Pneumatic temperature control

consisting of

actuator positioner PI controller sensor

Certificates

Work certificates

Test certificates from a Classification Society

Instructions

Installation guidelines Maintenance instructions Operation instructions

Application examples

Main engine and auxiliary engine:

Jacket cooling water system

Piston cooling Nozzle cooling

Load- and scavenging air cooling

Lubricating oil cooling

Oil preheating:

Fuel oil and diesel oil

in storing-, settling-, and service tanks Preheating prior to separation and injection

Heat Exchangers:

Water heaters for radiator plant Water heaters for domestic water Evaporators (production of freshwater)

Tank Heating:

Bilge water tank Cargo tank Sludge tank FO drain tank FO overflow tank Asphalt tank

Air Conditioning Plant:

Preheating of air Reheating of air Cooling of air

Solutions are depending on the actual method required:

2-way valve with self-acting thermostat or with actuator, controller and sensor

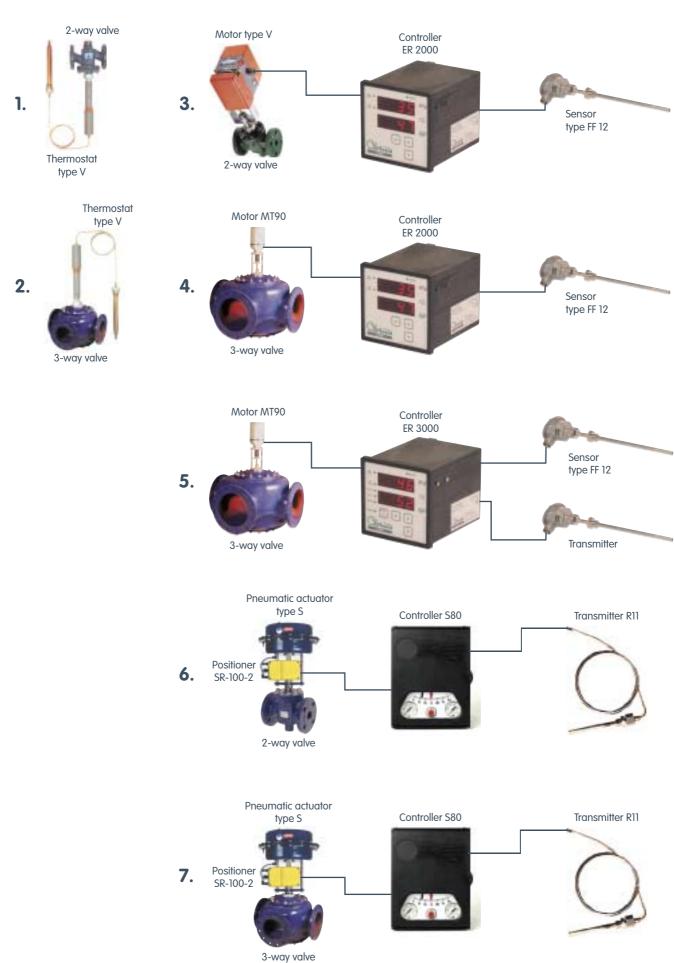
3-way valve (mixing or diverting) with self-acting thermostat or with actuator, controller and sensor

Actuators can be electrical or pneumatic or electric/pneumatic

Hydraulic and electric/hydraulic actuators are optional solutions

Communication with central control systems (RS 485 for controller type ER 2000)

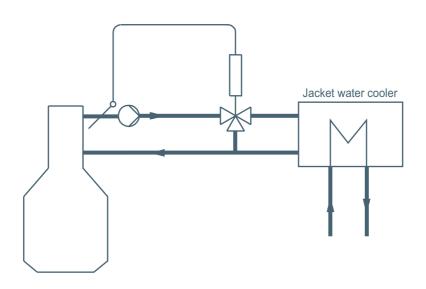
Solutions



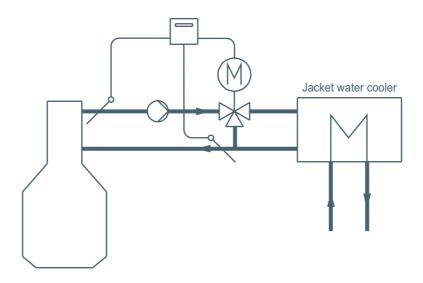
Application in principle

Engine jacket cooling water system

Solution 2, 4 and 7



Solution 5

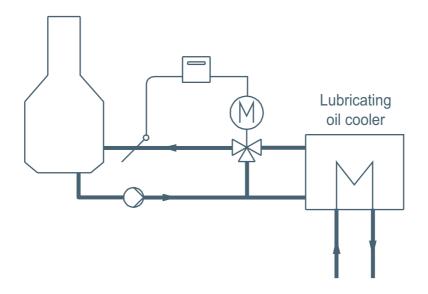


(Principle only)

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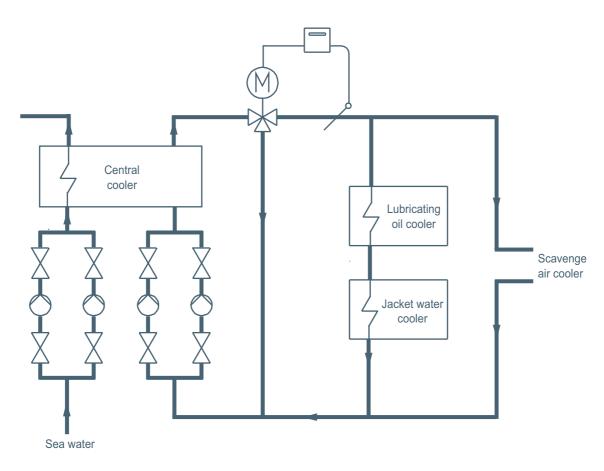
Lubricating oil cooling

Solution 2, 4 and 7 (ref. page 4)



Central cooling water system

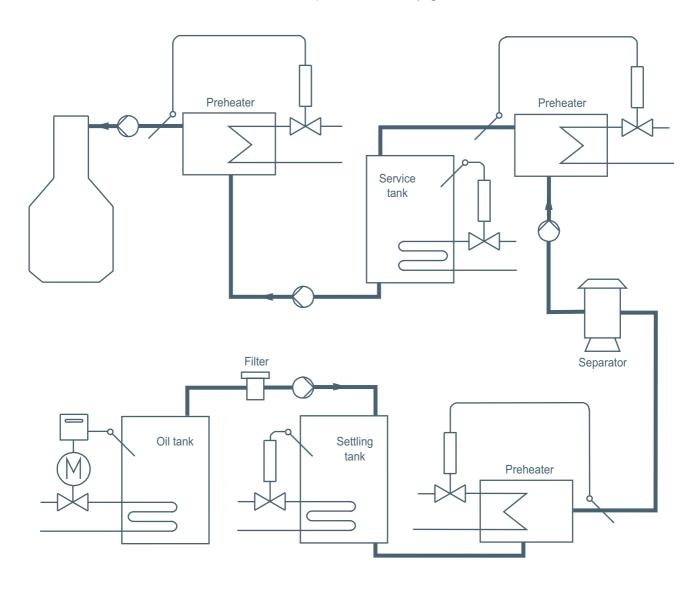
Solution 2, 4 and 7 (ref. page 4)



6 (Principle only)

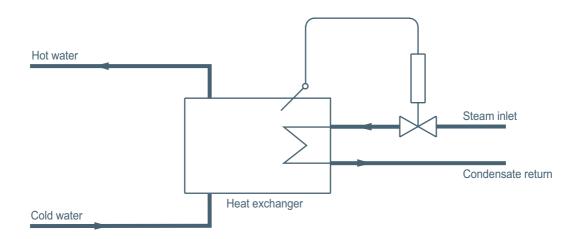
Oil preheating

Solution 1, 3 and 6 (ref. page 4)



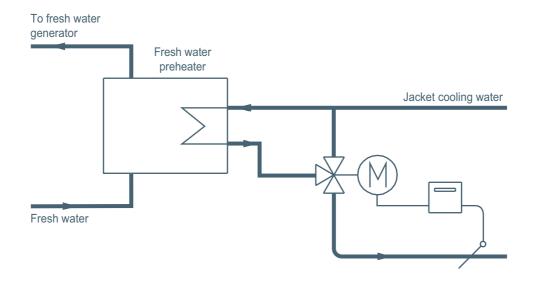
Hot water tank heating

Solution 1, 3 and 6 (ref. page 4)



Heating system for fresh water generator

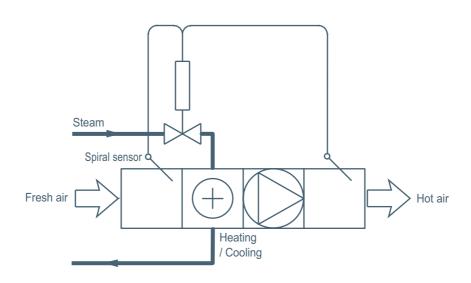
Solution 2, 4 and 7 (ref. page 4)



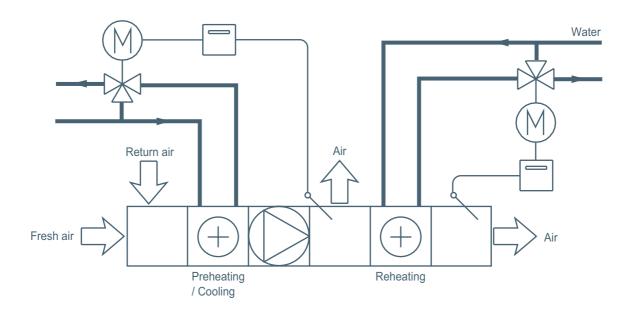
8 (Principle only)

Air conditioning plant

Solution 1 (ref. page 4)



Solution 2, 4 and 7 (ref. page 4)



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 offers 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.

Balancing valves

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

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.





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



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