



DESCRIPTION

Water systems on board all vessels are subject to scaling corrosion and fouling by marine organisms and bacteria. On their own, any of the above, can cause problems, but when they are combined, the problems are magnified; this can cause severe system damage, resulting in operational failure and high repair/maintenance costs.

The Marichem Marigases **DOSING SYSTEM** has been engineered to feed treatment chemicals by gravity through a flow meter. It has been carefully developed to ensure a constant, controlled flow rate and a long feeding time.

The **DOSING SYSTEM** is designed for use with the following Marichem Marigases products:

EVAPORATOR TREATMENT (673005) used for scale control in the fresh water evaporator. **OXYCONTROL (673008)** used for corrosion prevention within the boiler. **MARICHEM C.C.I. (673006)** for condensate corrosion inhibitors needed in the boiler. **CLOG-CONTROL (673014)** - anti fouling of the water cooling system.

COMPONENTS

- ◆ One, 100 litre, high-density polyethylene cylindrical tank, specified to be used only for chemical products.
- ◆ One, high quality, long life adjustable flow meter.
- ◆ Suitable number of valves, connectors and fittings.
- ◆ Appropriate length of high standard polypropylene or reinforced nylon tubing, suitable for use with chemical products.

PACKAGING

Order Number : 710301

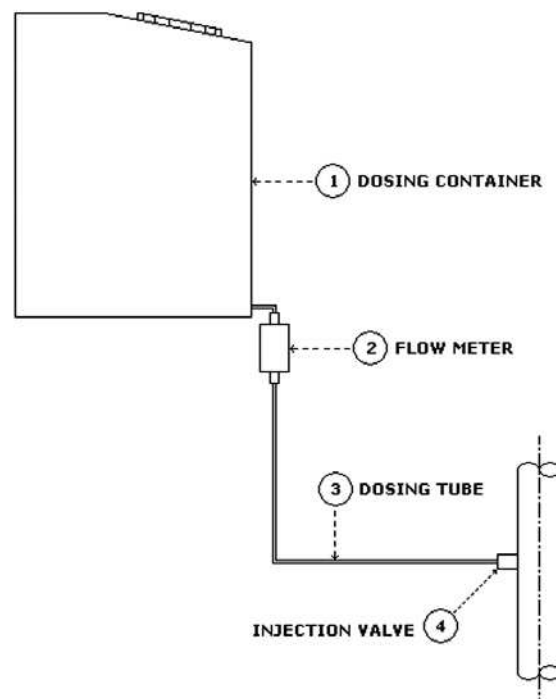
Container : Plastic Tank

DOSING SYSTEM MANUAL™



Flow meter for Dosing system

Order No: 710302



DOSING PROCEDURE

Product: EVAPORATOR TREATMENT (673005)

Dosage: Initial dosage should be 15–35ml/ton of distilled water per day. If scale is present the dosage should be increased to 30–70ml/ton of distilled water per day.

Dosing unit location: The dosing unit should be placed near to evaporator and dosed to the evaporator inlet or the salt water feed line.

Product: OXYCONTROL (673008)

Dosage: Initially the dosing must be regulated to supply the system at a rate of 1.2lt/ton of the boiler water. After 48 hours, the flow must be regulated to 0.3lt/ton of the boiler's water capacity on a daily basis. Thereafter, the flow is regulated according to the test results obtained from using the WT SULFI TEST KIT.

Dosing unit location: The dosing, must be done by introducing the DOSING SYSTEMS tubing into the boiler's feed pump suction line or into the hot well, which is below the water level and close to the feed pump suction unit.

Product: MARICHEM C.C.I (673006)

Dosage: 70 ml - 80 ml of MARICHEM CCI per 1 ton of boiler water should be dosed on a daily basis.

Dosing unit location: The location of the DOSING SYSTEM is chosen to enable the dosing tube to be introduced at one of the following points:

- Condensation pump discharge.
- Deaerator storage tank.
- Hot well tank.
- Condensation return tank.

Discharge of the solution must then be initiated by regulating the systems flow meter to the above prescribed rate.

Product: CLOG-CONTROL (673014)

Dosage: The recommended dosage for a sea water cooling system is 0.4 litres of CLOG- CONTROL per 100 tons of seawater flow for a period of one hour. This procedure must be repeated every 48 hours. However, the dosage should be adjusted proportionally to the rate of the seawater flow. The proposed dosage should deactivate the marine bio-film and completely remove the marine biological growth.

Dosing unit location: The dosage must be applied in a cross flow between the seawater suction pump and the system heat exchange.

For detailed information on safety and health, please refer to Product Label.

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