

## **CARETREAT ECONOMIZER**

**Liquid to prevent soot deposits in exhaust gas boilers at low temperature.**

- \* Effective above 200 °C
- \* An easily dosed liquid
- \* Complete coverage of entire exhaust gas unit
- \* Greatly improved heat transfer
- \* Neutralises sulphuric acid
- \* Reduces corrosion and fire risk

### **Introduction**

Today's main propulsion units have low exhaust gas outlet temperatures. This is due to increased engine and turbo blower efficiency. Lower gas temperatures are also the result of running at reduced power. The low temperature and reduced gas volume gives increased soot deposition and subsequent corrosion.

The increased deposition greatly reduces the thermal efficiency of the economizer. As "dew point" is often reached in the unit, causing the generation of sulphuric acid, the corrosion process is greatly accelerated.

Caretreat Economizer is a specially developed liquid which is easily dosed into the system, using a special Marine Care injection unit. The special air assisted nozzles create a fine mist so that the liquid vaporises on contact with the hot gas.

The vapor mixes intimately with the exhaust gases and the active material is dispersed throughout the system in microscopic particles. These tiny particles have an extremely large "active surface area" and being light, remain in the gas fully dispersed. This ensures that all parts of the economiser are covered efficiently.

Caretreat Economizer catalyses the post combustion process, resulting in modified soot particles which are dry and non adherent. The resulting deposit is more friable and can be more easily removed by the action of the sootblowers.

### **Directions for use**

Caretreat Economizer is designed to prevent major build ups of soot in service.

### **Dosage instruction**

1-2 litres of Economizer is required for every 1000 m<sup>2</sup> of heating surface area. This amount should be increased / decreased dependant on economizer design and fuel consumption.

### **Dosage period**

Caretreat Economizer should be injected daily or twice daily after sootblowing.

### **Dosing equipment**

The product must be dosed via the specially developed Marine Care injection unit which is made of materials suitable for prolonged contact with Caretreat Economizer. For further information please refer to the Marine Care equipment information sheet.

### **Injection points**

In most cases a single injector can be put into the exhaust systems immediately after the turbo charger gas outlet. Marine Care engineers will inspect and make detailed recommendations for exact positioning.

### **Properties**

Yellowish coloured neutral product containing special metal salts. Fully miscible with water.

Specific gravity (20°C) : approx. 1.19 kg/ltr.  
Flash point : none  
pH (1% solution) : approx. 7

*For detailed information on safety and health, please refer to Material Safety Data Sheet and / or Product label.*

The details of our products are given completely free of undertaking. Since their application lies outside our control we cannot accept any liability for the results.