

ECONOMIZER TREAT LIQUID

1. DESCRIPTION

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.

ECONOMIZER TREAT LIQUID is a specially developed liquid, which is easily dosed into the system, using a special **UNI AMERICAS** injection unit. The special air assisted nozzles create a fine mist so that the liquid vaporizes 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 economizer are covered efficiently.

In the past, powder products have been developed for this purpose. However, their large particle size and greater weight makes them difficult to inject efficiently, so they cannot reach all areas requiring treatment. This leads to product wastage and ineffective cleaning of the upper areas, where most of the soot is deposited.

2. APPLICATIONS

ECONOMIZER TREAT LIQUID 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 soot blowers.

3. DIRECTIONS FOR USE

ECONOMIZER TREAT LIQUID is designed to prevent major build-ups of soot in service. If the economizer is badly fouled we strongly recommend a pre-cleaning of the unit using **UNI AMERICAS GAS SIDE CLEANER OR ALKACLEAN**.

4. INITIAL DOSAGE

Consult your local **UNI AMERICAS** Service Engineer for recommendations of the dosage rate based on specific problems and requirements onboard.

DOSAGE PERIOD

Economizer Treat Liquid should be injected daily or twice daily after soot blowing.

LIQUID TO PREVENT SOOT DEPOSITS IN EXHAUST GAS BOILERS AT LOW TEMPERATURE

Product Highlights

- Easily dosed into system.
- Deposit is more friable and can be easily removed by the action of the soot blowers.
- Prevent major buildups of soot in service.

Product Characteristics

Appearance:	Clear liquid
Corrosive action:	Alkaline
Specific gravity:	1.3 (20°C)
Flash Point:	None
pH:	11

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clean chemicals clean ships clean seas



ECONOMIZER TREAT LIQUID

DOSING EQUIPMENT

The product must be dosed via the specially developed **UNI AMERICAS** injection unit, which is made of materials suitable for prolonged contact with **ECONOMIZER TREAT LIQUID**.

INJECTION POINTS

In most cases a single injector can be put into the exhaust system immediately after the turbocharger gas outlet. **UNI AMERICAS** Engineers will inspect and make detailed recommendation for exact positioning.