

PRONOMAR MERUS Water treatment for Maritime applications

THE SUSTAINABLE TECHNOLOGY

The unique and highly efficient MERUS® technology, which basically consists of a ring that is installed around the pipes in question, gives off molecular oscillations disturbing the lime scale, rust, bacteria, algae etc. in your **fresh- or seawater pipes and applications**. Afterwards, the substances are flushed away leaving water pipes and applications mostly free of scaling and bringing them back to high performance levels.

The same counts for **hydro carbon pipes and applications**, where paraffin waxing, biofouling and corrosion often causes efficiency drop-down due to blockage or leakage.



THE PRINCIPLE BEHIND

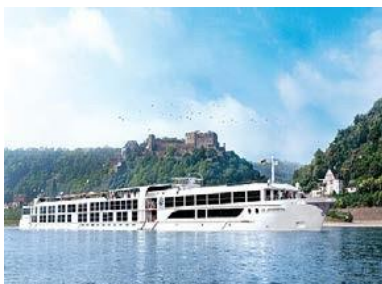
Limestone appears in nature in many different forms – chalkstone, marble, lime rock, or as (main) component in many minerals, all with their own specific characteristics – lime rock is a hard building material, chalk is soft enough to write with on blackboards.

With the Merus technology the limestone in water will crystalize differently – in a form that forms less problems in technical applications: it will be kept longer in solution and finally will crystalize in a less hard and more loose consistency. Also rust will form in a different redox state, so that there will be a reduction of red rust (Fe_2O_3) in favour of a magnetite layer (Fe_3O_4).

How is this achieved?

All existing substances show characteristic, material-bound frequency patterns; these frequencies (molecular oscillations) are overlapped with targeted frequencies by the Merus technology. (Like counteracting disturbing vibrations in car engines with targeted counter vibrations.)

No external energy source is needed; the surrounding temperature is sufficient to get the overlaying frequencies going. These overlaying frequencies are programmed into the metal grid of the Merus rings, which are made of an aluminium-silicium-alloy.



QUOTES

- Longer lifespan and reduced maintenance cycles
- Increases the efficiency of chemicals
- State-of-the-art technology to save time and money
- “Saves me headache and reduces my operational costs”

