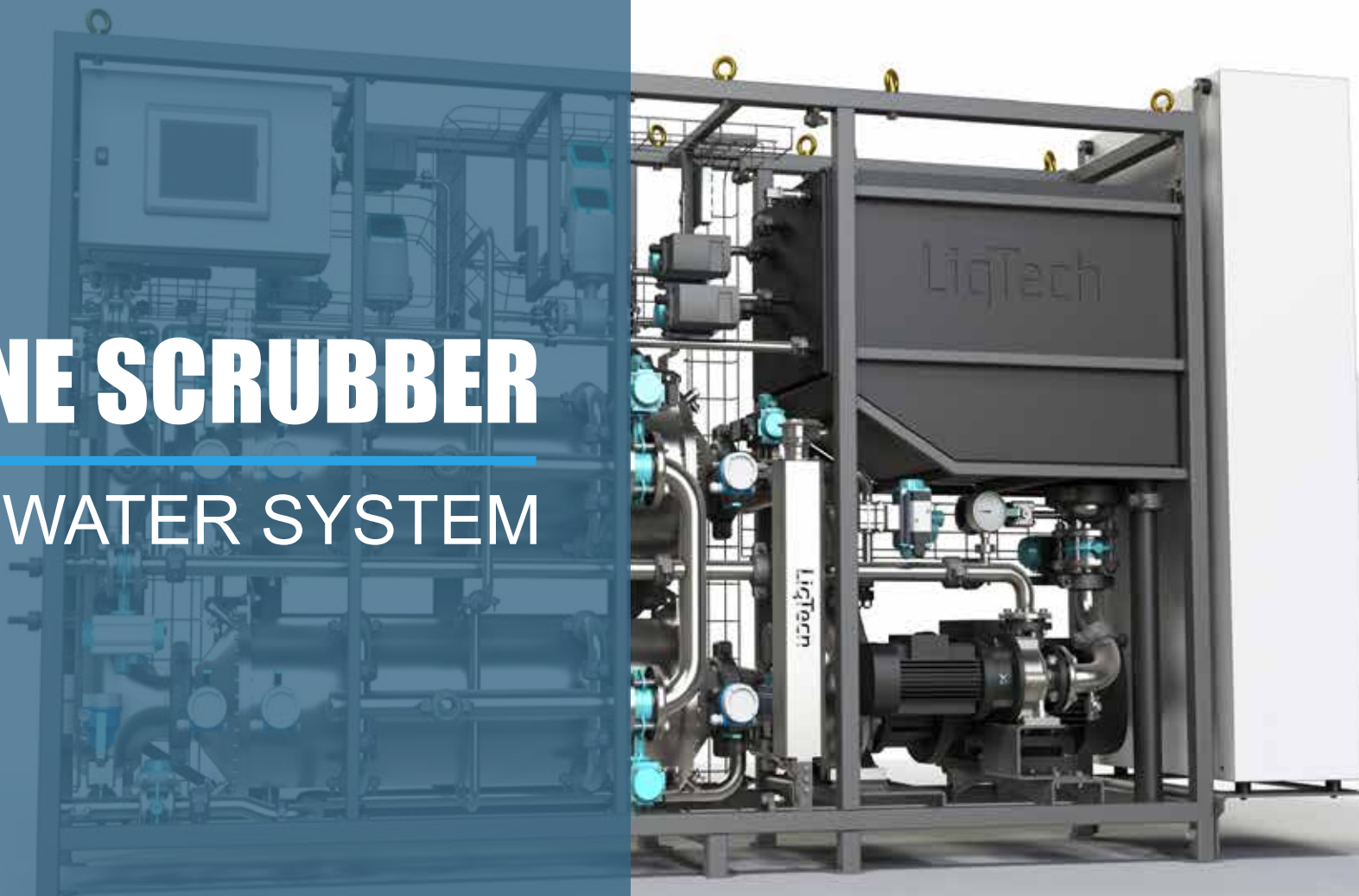


# MARINE SCRUBBER

## WASTEWATER SYSTEM



LiqTech



EMISSION TECHNOLOGY



MEMBRANE SYSTEMS



WASTEWATER TREATMENT



## THE WORLD IS RUNNING OUT OF CLEAN WATER

The world is running out of clean water resources and it is essential that we treat the resources we have with respect and care. LiqTech has developed a unique ceramic membrane capable of removing oil, pathogens and heavy metals a.o. from water, thus providing robust filtration solutions for essential applications.

## CLEAN AIR FOR A BETTER ENVIRONMENT

We care about the future and with our own proprietary technology for emission reductions in internal combustion engines we take an active role in reducing air pollution.



**Market proven**

**Selected by leading businesses**

**Future proof solution**

**Ideal for retrofit installation**

## **LIQTECH & THE IMO SULPHUR CAP**

LiqTech is the leader in the development, manufacturing and supply of revolutionary Silicon Carbide ceramic technology for the purification of liquids and gasses.

By 2020, the International Maritime Organization (IMO) has implemented a new lower cap on Sulphur emission for international shipping. Inside the Emission Control Areas (ECA) the regulations are even stricter.

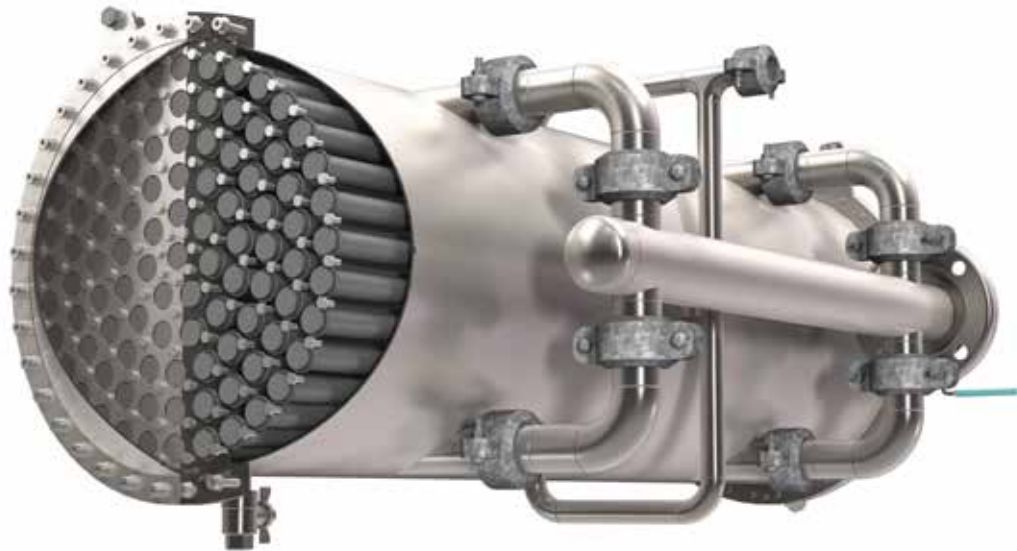
By installing a scrubber system, vessels can continue to operate on marine heavy fuel and avoid switching to significant more expensive marine gas oil while operating in IMO regulated areas.

Before discharging the wastewater from the scrubber process, it is essential that the water is cleaned to ensure a better and safe environment. LiqTech has developed a compact and efficient wastewater treatment plant outperforming discharge limits regulated by the IMO. The LiqTech system is fully automated and requires a minimum of maintenance. It has already proven well-suited for this difficult application and has successfully been installed on a large number of vessels both for retrofits and new builds.

## **BENEFITS OF SiC MEMBRANE TECHNOLOGY**

For more than a decade we have manufactured products of re-crystallized Silicon Carbide. Our Silicon Carbide (SiC) Membrane technology and systems will provide unique advantages for your business.

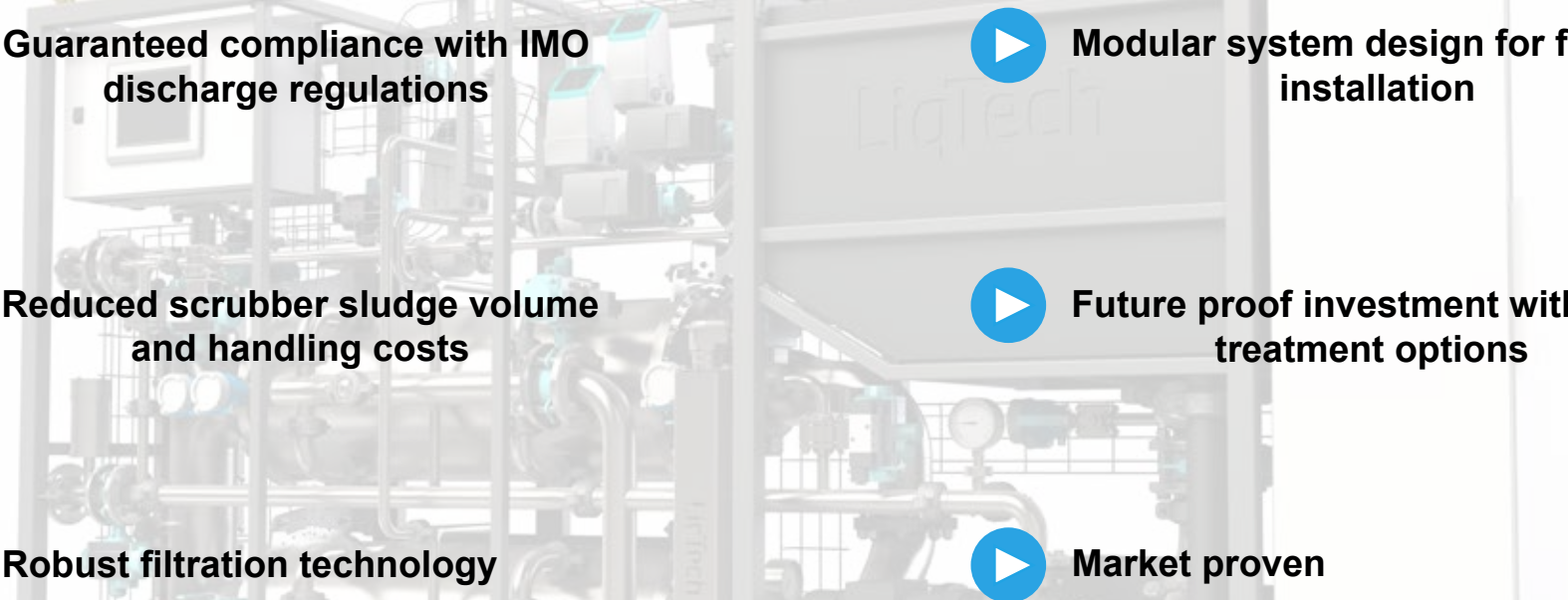
It is chemically inert, temperature resistant, has a high affinity to water (small footprint) and extreme hardness, which makes it a very durable product perfect for wastewater.



- ⇒ Unmatched flux
- 🧪 Chemically inert
- ✳️ Small footprint
- 🧴 Efficient cleaning
- 🔥 Excellent thermal properties
- 💎 Robustness
- 📈 Unmatched performance
- 🕒 Long service life - less maintenance



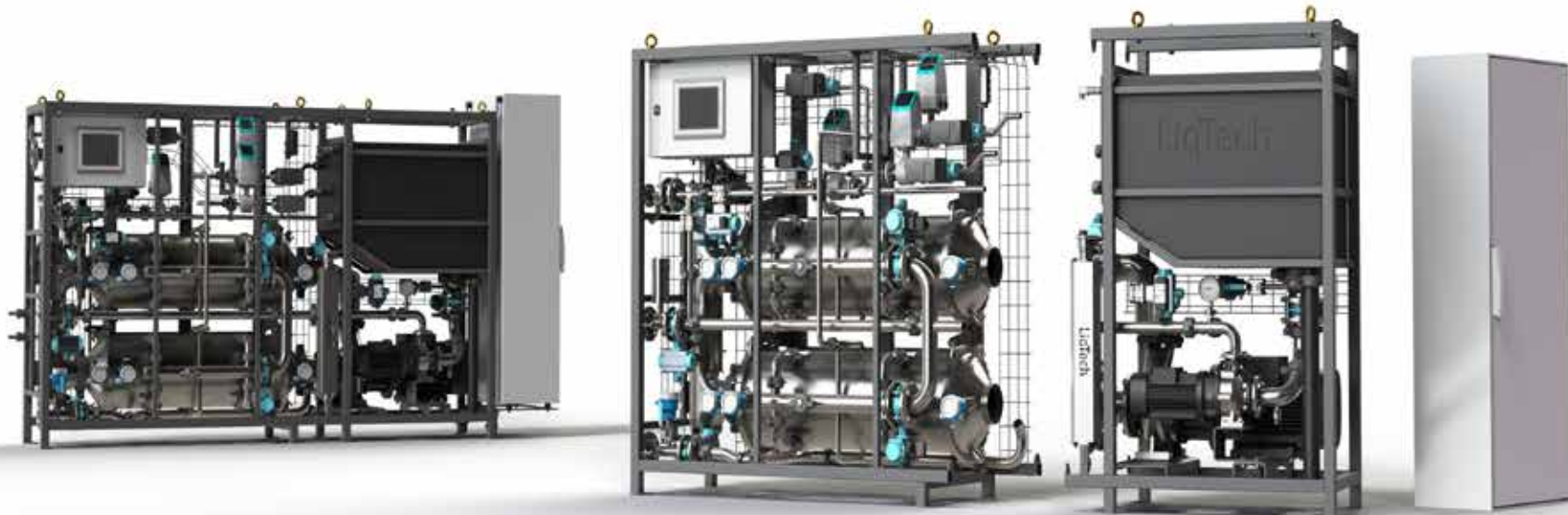
## **BENEFITS OF THE LIQTECH SYSTEM**

- 
- ▶ **Guaranteed compliance with IMO discharge regulations**
  - ▶ **Reduced scrubber sludge volume and handling costs**
  - ▶ **Robust filtration technology**
  - ▶ **Modular system design for flexible installation**
  - ▶ **Future proof investment with post treatment options**
  - ▶ **Market proven**

## **MODULAR DESIGN FOR FLEXIBLE INSTALLATION**

With LiqTech's innovative modular design, it is easy to install the marine scrubber wastewater solution on retrofits and new builds. The solution makes it possible to further increase capacity after installation if needed.

- ▶ Separation of filter skid for ease of installation
- ▶ Possibility to increase capacity
- ▶ Low maintenance



# **LIQTECH FILTRATION PROCESS FOR MARINE SCRUBBERS**

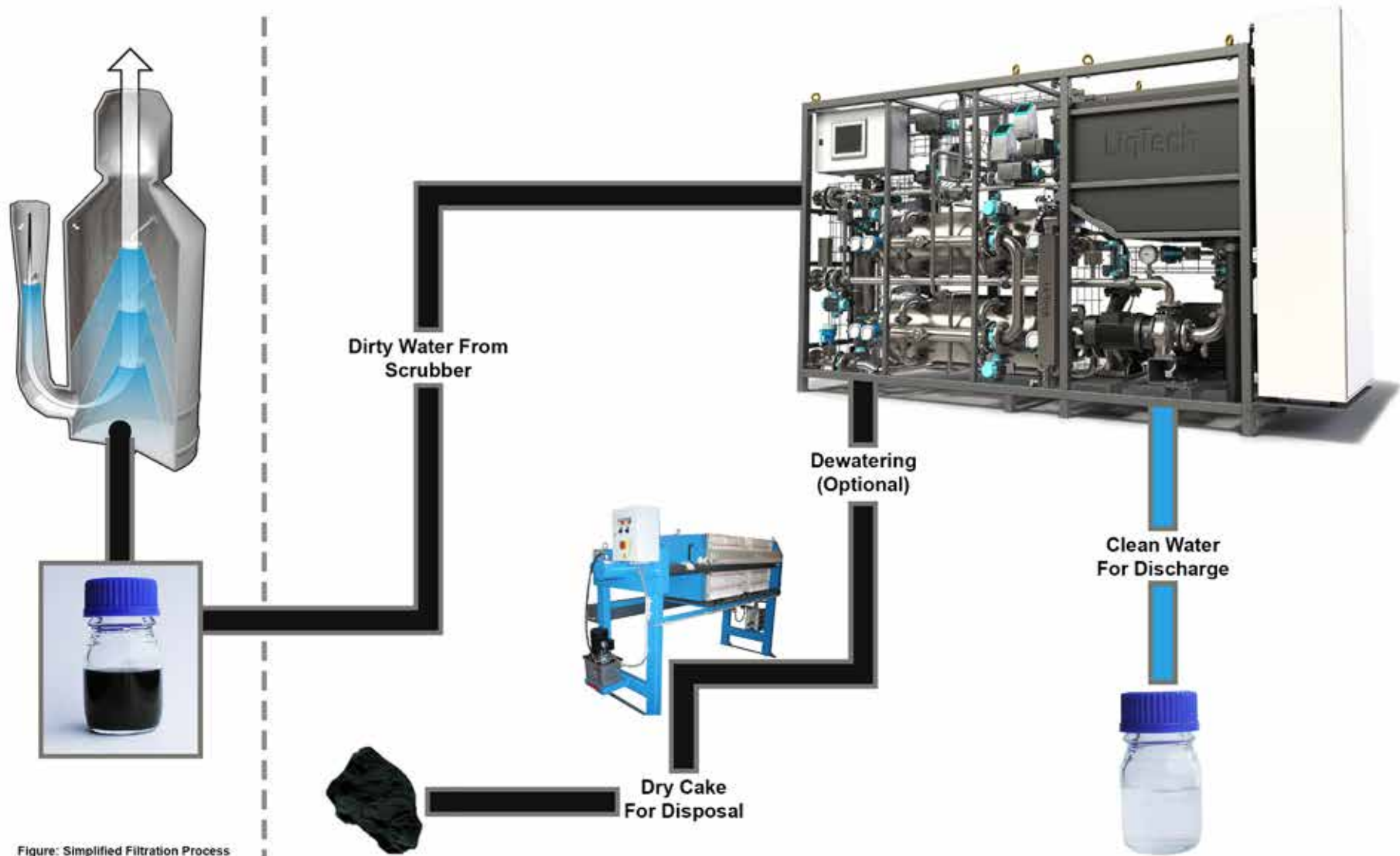


Figure: Simplified Filtration Process

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