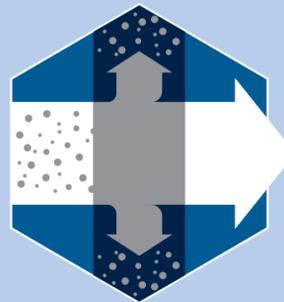


# Filtered water and long-lasting components

There's a lot more in the sea than just water. Unfortunately, sometimes it can have a detrimental effect if raw, unfiltered water gets caught up in your stern tube applications.

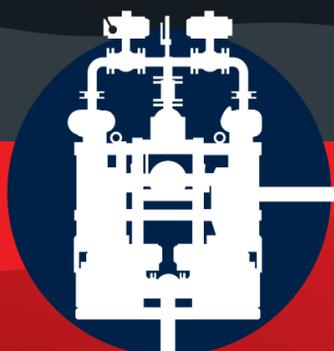
Sea water particulates, debris, abrasives – concerns that raw water can bring. But concerns that can be avoided with our Wärtsilä Water Quality Systems.



In order to preserve the stern tube seal and bearings, a high-quality flush water supply is needed. Designed to work with sea water, brackish and fresh water sources, our Wärtsilä Water Quality Systems literally take in the good water and get rid of the bad.

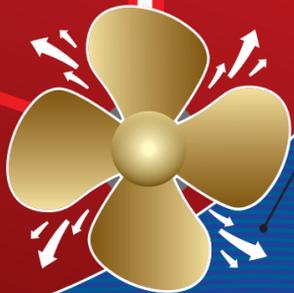
## Wärtsilä Water Quality Systems in action

- 1 Our Wärtsilä Water Quality Systems should be installed in a below deck location on an even foundation, such as a fully supported deck plate.



- 2 Provides an uninterrupted flow of treated conditioned water from an incoming raw water supply.

- 3 Treated water is fed directly into the shaft seal and bearings to provide water for cooling and lubricating functions.



- 4 After passing through the stern tube bearing, the water is ejected back into the sea, providing an environmentally friendly, non-polluting lubrication system.

- 5 During initial commissioning our Wärtsilä Water Quality Systems are run in local mode, after which they are always run in remote mode.

## Simple to install, easy to use

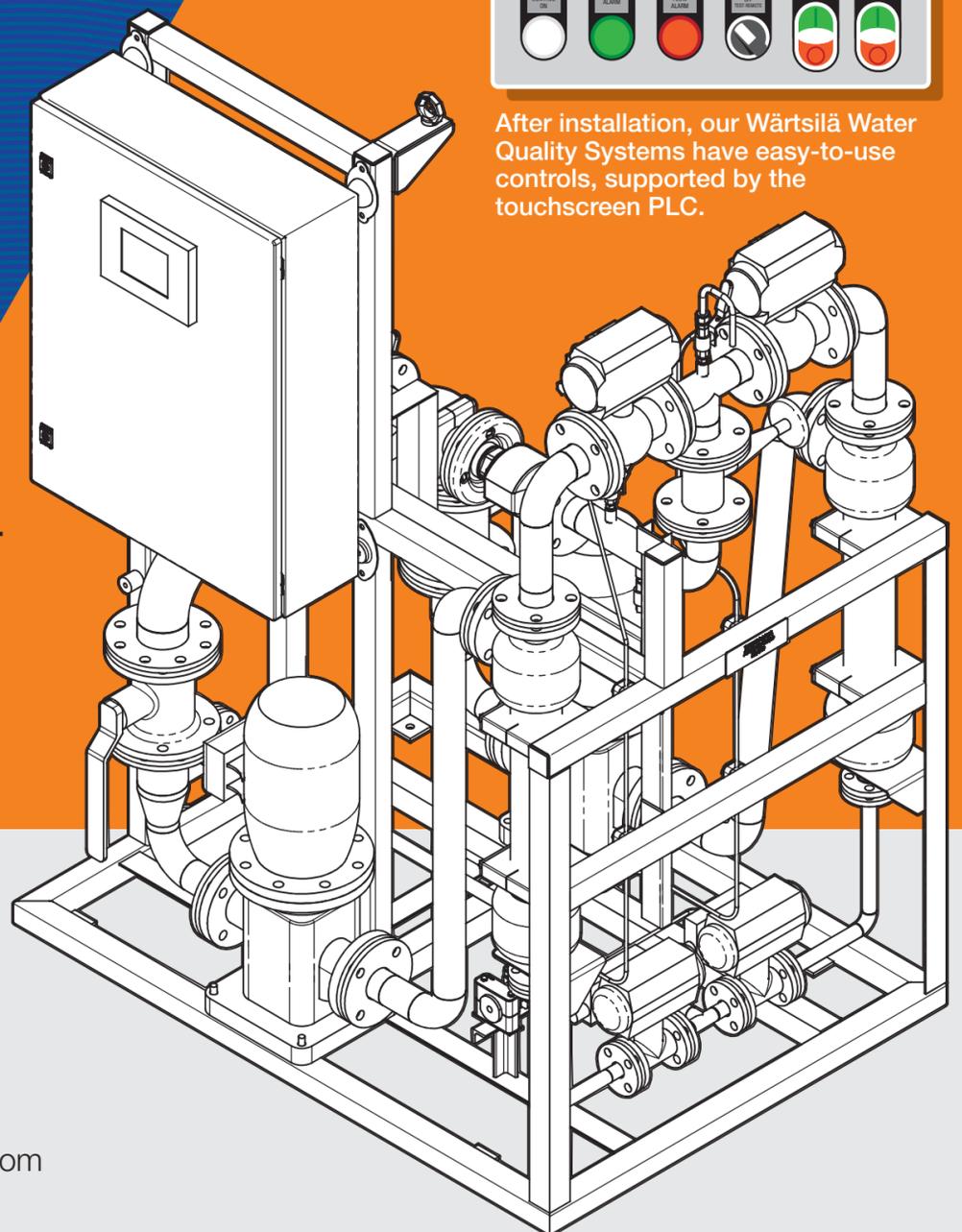


After installation, our Wärtsilä Water Quality Systems have easy-to-use controls, supported by the touchscreen PLC.

Our Wärtsilä Water Quality Systems are self-contained, skid-mounted systems controlled by a Programmable Logic Controller (PLC). It controls all instrumentation, purging and alarm generation for faults.



To maintain a regular, clean supply of water, the system is pre-programmed to perform a regular purge cycle of 15 seconds for every 15 minutes of running.



## What are the main benefits?

- Water is run through a hydro cyclonic system that automatically discharges debris.
- Full monitoring control panel that allows you to monitor pressures, temperature and water flow.
- The use of dual centrifugal pumps prevents the system from over-pressurising, which limits risk and redundancy.
- Increased component life, reduced wear and maintenance needs.

**Wärtsilä Water Quality Systems**  
Increase the life of your shaft line equipment