

## Service & support: Always one step ahead

The layer of biofilm starts to form minutes after it comes into contact with water. The system always needs to be switched on and functioning properly. In the event of a power supply failure of one or more transducers, fouling can occur after a short time.

At Lamers System Care (LSC), we don't just install a system, we ensure it works flawlessly at all times. Using the LSC Portal we are able to continuously track power supply and transducer function, as well as change settings, troubleshoot and update the system from a distance.

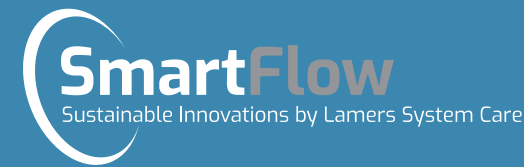
We offer our Lamers Monitoring Contract which includes:

- Proactive Monitoring – 24/7 Protection
- Sound Pressure Level Measurements
- Endoscope Imaging
- Instant Alerts (via portal, SMS, call, or email) in case of failure

By detecting and resolving issues before they cause problems, we help keep your vessel running at peak efficiency, without the worry of unexpected fouling.

*“We were looking for an anti fouling system for box coolers on our vessels. Lamers System Care provides efficient protection against Marine Growth and prevents cleaning in between the 5 yearly dry dockings. It is reducing operational costs as the system is fully accessible from the engine room. In combination with the yearly Monitoring Contract, this is a good solution for us.”*

Richard van Wassehaar - Technical Director  
Arklow Shipping Nederland BV



## About Lamers System Care B.V.

At LSC, we are committed to providing smart and sustainable solutions that reduce both operational costs and environmental impact. As trusted advisors and system integrators, we offer customized antifouling technology for the industrial, maritime, and agricultural sectors. Our transparent approach, cutting-edge technology and a focus on customer success positions us as the preferred partner for innovative maritime businesses.

Stay ahead of biofouling and optimize your performance with SmartFlow. Contact us today to learn more!

### Address:

Oostwijk 9  
5406 XT Uden  
The Netherlands  
T : +31 (0) 413 275 647

I : [www.LSCare.nl](http://www.LSCare.nl)  
E : [info@LSCare.nl](mailto:info@LSCare.nl)  
Chamber of Commerce: 80739418  
VAT nr: NL861565241B01



**A sound solution for  
fouling prevention**  
for commercial shipping







## The challenge: Biofouling is costing you

Biofouling is a costly issue in the maritime industry, as marine growth on hulls and propellers increases drag and fuel consumption, while causing blockages and failures in pipes and cooling systems.

The problem begins the moment water meets solid structures. In just minutes, single-celled organisms start forming a biofilm — a foundation for larger marine organisms like mussels and barnacles to thrive. Left unchecked, this growth leads to higher maintenance costs, reduced efficiency, and regulatory compliance issues. Stricter environmental legislation make the need for a sustainable and effective solution greater than ever.







- Introducing **SmartFlow** - it works best with:
- > **Box coolers** – Maintain optimal cooling efficiency
  - > **Plate heat exchangers** – Prevent blockages and loss of performance
  - > **Pipework & pumps** – Avoid costly maintenance and downtime
  - > **Crossovers & strainers** – Ensure continuous system reliability
  - > **Propellers & hulls** – Reduce drag, improve fuel efficiency
  - > **FiFi systems** – Keep firefighting systems clear and ready for use

## The Solution: SmartFlow Ultrasonic Antifouling

Smart Flow uses the power of ultrasonic technology to prevent biofouling before it takes hold. Our advanced system emits a series of high-frequency ultrasonic pulses, creating microscopic vibrations that disrupt biofilm formation at its earliest stage.

This process effectively prevents the attachment and growth of marine organisms, keeping your vessel and critical equipment clean, without the need for harmful chemicals or costly mechanical cleaning.

## Key features

-  Lower Operating Costs – Reduce maintenance, extend service intervals, and avoid unexpected dry docking.
-  Eco-Friendly Protection – No biocides, no heavy metals—just pure ultrasonic technology.
-  Enhanced Performance – Clean surfaces minimize vibration and wear, extending equipment lifespan.
-  Minimal Maintenance – No through-hull fittings, no anodes to replace, and no no dry dock required for installation
-  ATEX Compliance Available – Tailored solutions for hazardous environments.
-  Energy-efficient - Only <50W for the system
-  Fuel Savings – A cleaner hull, propellers, and rudder means real savings on fuel.

SF1 - SF4



SF5 - SF12



Transducer



### Technical specifications

Model	SF1 - SF4	SF5 - SF12
Voltage	AC 110-240V 50/60Hz	AC 110-240V 50/60Hz
Average power	< 30 Watts	< 50 Watts
Dimensions	401 x 250 x 120 mm	401 x 406 x 120 mm
Weight control unit	4 kg	10 kg
Weight transducer	0.5 kg	0.5 kg
Transducers	1 - 4 pcs	5 - 12 pcs
Control unit rating	IP66	IP66
Transducer rating	IP67	IP67
Warranty	2 years	2 years

## Results

