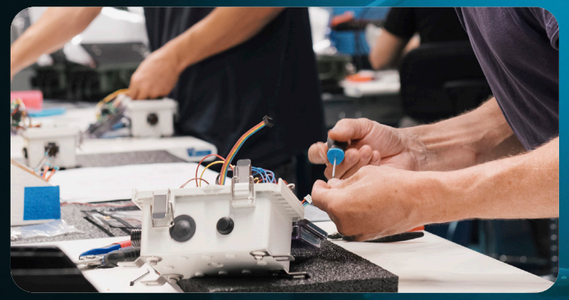
# PRESSURIZED HYDRO INJECTION BRINE EVACUATION REMEDIATION



**Freshwater Maintenance...**
**...performed at the Push of a Button!**

**PHIBER Systems protect against the "tentacles" of Biofouling, Corrosion & Scale in marine systems that use seawater, including shafts & seals, inboard & outboard engines, generators, vessel stabilization systems... and more.**

**If it uses seawater, a PHIBER System can flush it!**

DEALER INFORMATION

**Proudly Engineered & Manufactured at our ISO-9001 Certified Facility**
**Saint Augustine, Florida USA**

## PEACE OF MIND FOR ALL YOUR VOYAGES AHEAD

**Visit our Website for More Info**

sales@PHIBERSystems.com
www.PHIBERSystems.com
PHIBERSystemsofficial

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MADE IN USA

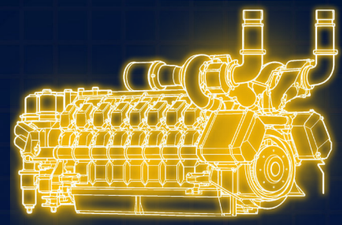
PHIBER® SYSTEMS

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IBEX 2024 INNOVATION AWARDS WINNER

# Push-Button Automated Systems

## For Complex Inboard Networks





## SCIENCE & TECHNOLOGY

Bringing Freshwater Maintenance
Into the 21st Century

PHIBER® SYSTEMS

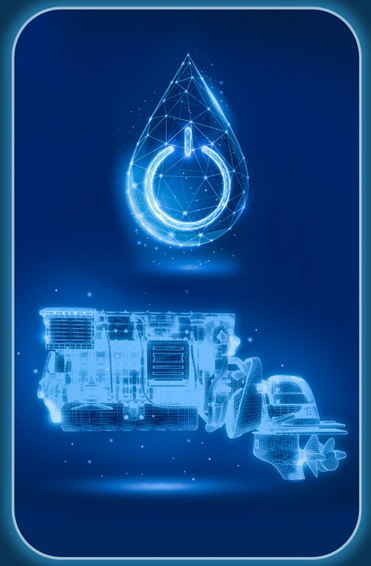
# Revolutionizing Seawater Systems for the 21st Century

Since the dawn of mechanized propulsion, abundant seawater is used to control operational temperatures within critical marine systems. “Raw water” is pulled in, pushed through equipment to cool or lubricate, and then dumped back overboard. Yet, despite 100 years of advancements in marine system design, the consequences of using seawater in Raw Water Networks remain:

Corrosion  Biofouling  Scale

In 2020, a new course was charted... a radical design evolved out of frustration, challenging 75 years of status quo for raw water network design, and how they are maintained.

*Scan to Watch*
*“PHIBER Revolutionizing Seawater Networks”*








## ROI-FOCUSED SOLUTIONS

The revolutionary PHIBER System advances critical seawater networks into the 21st century, offering ***precision Freshwater Maintenance***, *at the touch of a button*, eliminating the labor & time burdens of routine flushing... and the hassle of a garden hose!

The intelligent **Control Module** is programmed to execute optimal freshwater flushing (FWF) under specific conditions, promoting safety, efficiency, and eco-friendly processes.

The failsafe **Hydrostatic Lock** complies with ABYC standards, ensuring seawater NEVER contaminates the freshwater network.

The innovative **FWF Manifolds** are proprietary plumbing configurations that transform any raw water network to include safe and correct freshwater maintenance as an intrinsic function. They use only physics to operate, responding to changes in water pressure upstream and downstream of the Lock. They are available in two distinct configurations:

**“OVERBOARD” FWF Manifold for Simple Wet & Dry Networks**

**“INBOARD” FWF Manifold for Complex Wet Networks**



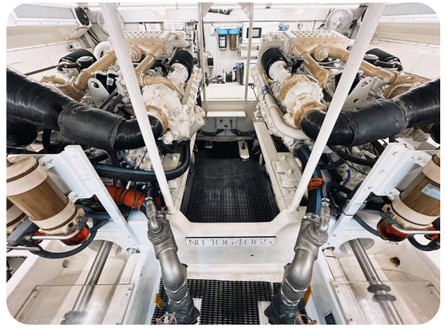
# The PHIBER System

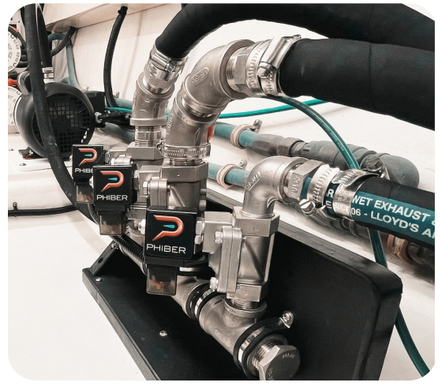
Routine flushing maintenance with simple fresh water is prescribed by OEMs as the most important “preventative maintenance” in mitigating the effects of seawater in marine systems; HOWEVER, performing a flush at the end of every duty-cycle imposes significant labor investment, time expenditure, and water waste burdens, especially on Inboard Systems.

Patent-pending, award winning PHIBER Systems are the FIRST and ONLY ***fully-automated*** universal Freshwater Maintenance solution, complementing ANY marine systems that depend on raw water for operation, including “Inboard” applications which weren’t previously able to benefit from routine freshwater flushing.

*Scan to Watch*
*“PHIBER Functional Overview”*






## THE CONTROL MODULE

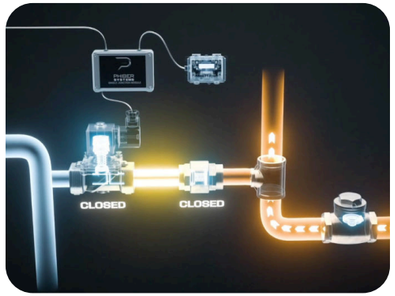
The Control Module was developed over 3 years of intense research and incorporates experience and design gathered from a wide range of marine professionals, including both commercial and recreational communities. It embodies both real world application and operating conditions in its design and software, and is universally compatible with any PHIBER FWF Manifold.

The Control Module constantly monitors operating conditions of a network, and only executes a maintenance cycle when programmed conditions are met, engaging the Manifold’s function. It performs a “perfect” flush using specific programmed metrics, and then documents it in a protected historical record.

Freshwater Maintenance records protect the boat/owner through:

- Preserving/Enhancing Vessel Resale Value
- Provides Proof of OEM Maintenance Compliance

## THE INBOARD FWF MANIFOLD




The Control Module, Hydrostatic Lock & Inboard Manifold operate in concert to execute “perfect” Freshwater Maintenance... at the push of a button!

The **Inboard FWF Manifold** serves complex “wet” raw water networks such as inboard diesel engines on vessels that generally remain in the water with their seawater systems constantly submerged (filled with seawater).

Complex wet systems must be flushed while active and the raw water pump is operating, preserving (pickling) the entire raw water circuit with fresh water upon system shutdown. The Inboard Manifold enables “hands free” injection of fresh water into the raw water network through an engineered solution, eliminating the need for manual opening/closing of valves and starting/stopping of the raw water pump (on an engine).

The Manifold protects the vital function of the raw water network (cooling) at all times by guaranteeing water flow to the raw water pump under any condition, protecting critical components from starvation and overheating.

Learn more at **PHIBERSystems.com**