

PEACE OF MIND
FOR ALL YOUR VOYAGES AHEAD



FLUSH WITH G.E.P.H INSTALL GUIDE



PHIBER[®]
SYSTEMS



INTRODUCTION

Routine Freshwater Flushing and preservation mitigates corrosion, biofouling and scale buildup, extending the service life of both systems and materials used in raw water networks, significantly reducing operating costs and increasing intervals between services.

This Document provides design tenets, functional overview, and operation principles for raw water (seawater) and freshwater networks, and the GENERAL operation of a PHIBER System. IT DOES NOT COVER THE SPECIFIC INSTALLATION OF ANY PARTICULAR SYSTEM.

It is not intended to supersede any marine industry practices, standards, or common sense.

All information presented within this document should be considered proprietary and confidential.

PHIBER Systems are available for purchase only from authorized agents and resellers. Professional installation is recommended and must be documented and recorded to engage warranty coverage.

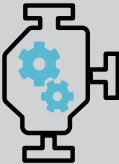
US PATENTS PENDING



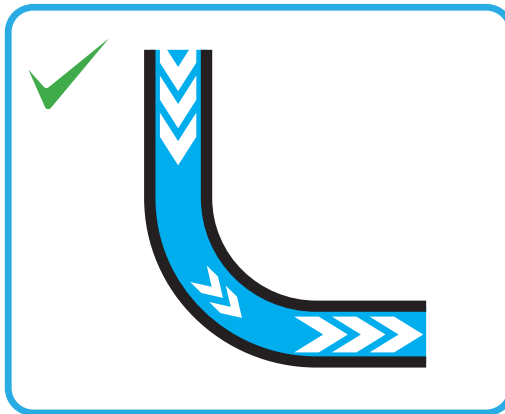
Full details on all things PHIBER,
including FLUSH-O-PEDIA, ABYC Standards, Flushing regulations by State, and more!

ICON LEGEND

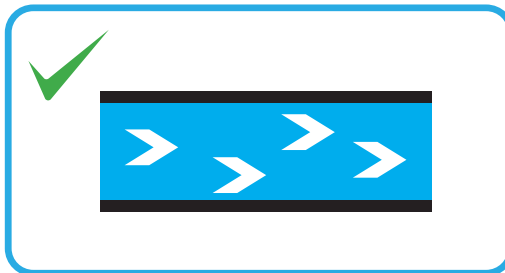
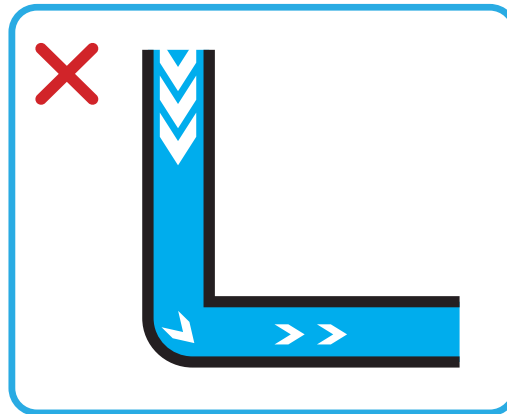
Frequently used in this manual.

Icon	Description
	PHLOW HUB
	Manual Activation
	Empty Water Hose
	Full Water Hose
	Dock Hose Inlet
	Outboard Engine
	Powerhead
	Pump
	MPT to Barb Fitting
	Tee
	Clamp
	Reducer Bushing

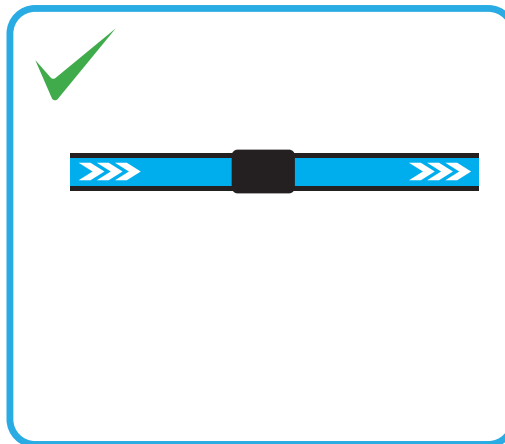
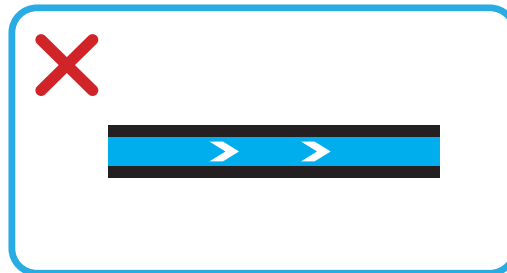
EXERCISE GOOD PLUMBING PRACTICES



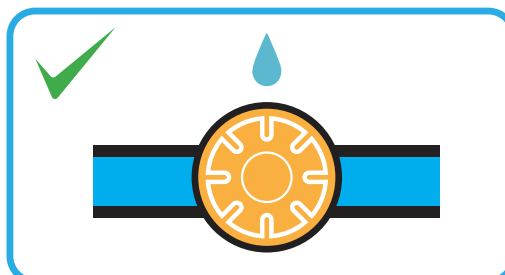
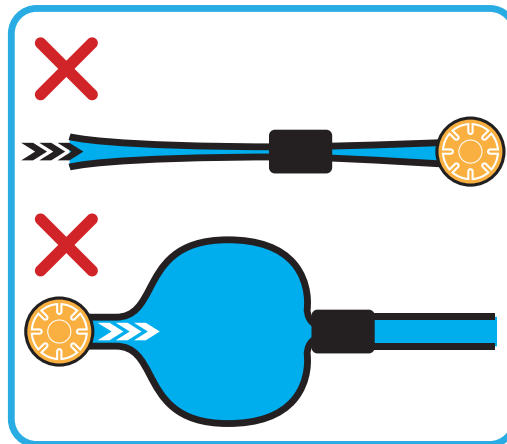
MINIMUM BENDS



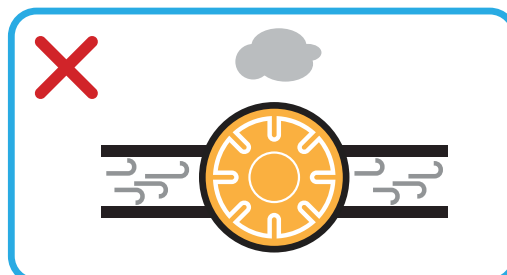
CORRECT SIZE



MINIMUM RESTRICTIONS



WATER PRESENT





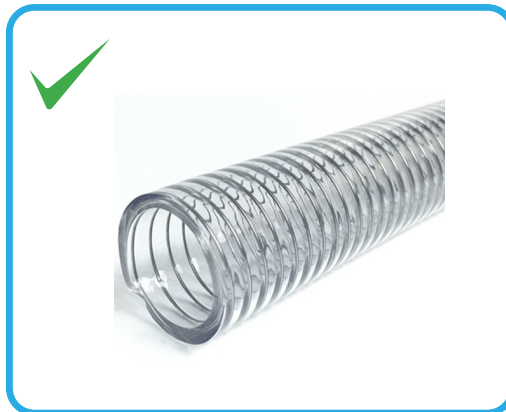
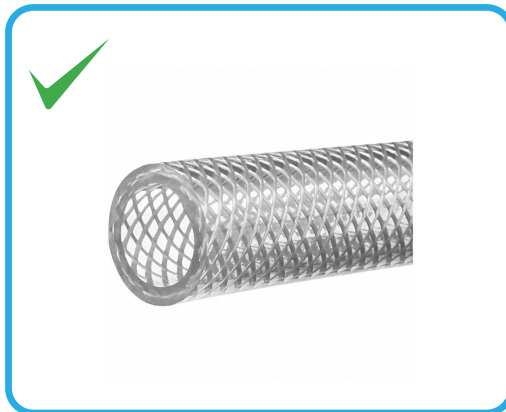
SURVEY, MAP, PLAN & EXECUTE

GENERAL STEPS

1. Survey/Map the proposed PHIBER System integration
2. Acquisition of parts and materials needed
3. Integrate the PHIBER System
4. Test & Commission
5. Document

HOSE CONSTRUCTION

Only spiral-wire reinforced hose or rigid-wall tubing should be used for the Freshwater Feed-to-Raw water network plumbing because it will be subjected to both pressure and suction. If vinyl or soft hoses are used, they may either stretch or collapse as the pressures change inside the lines.



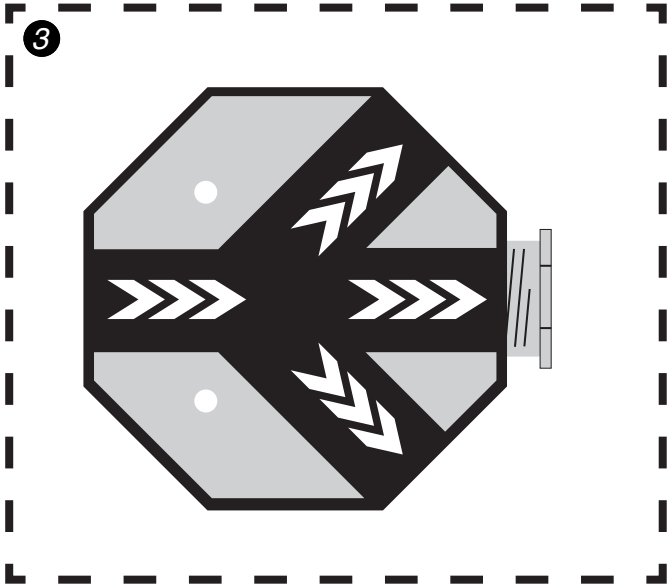
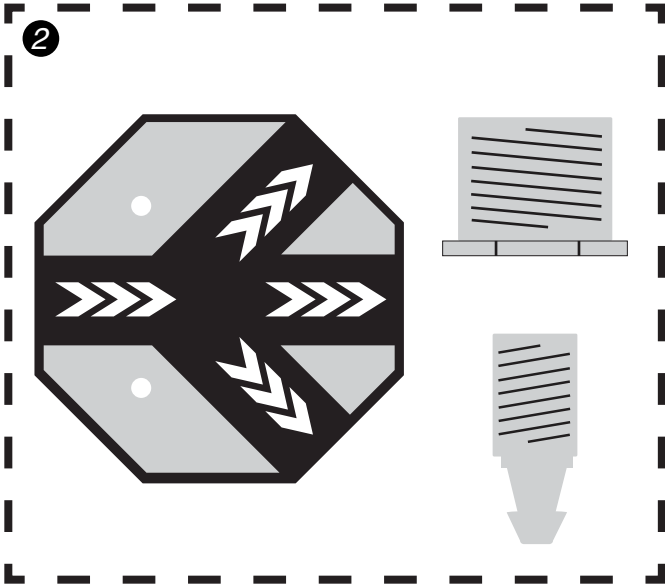
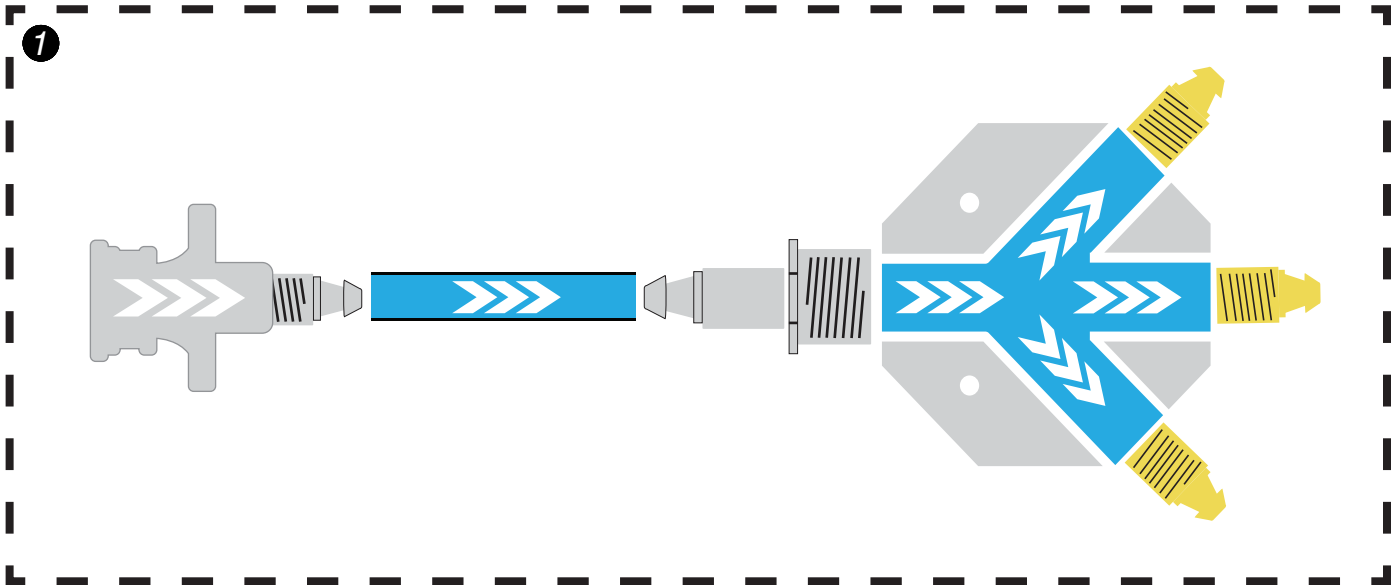
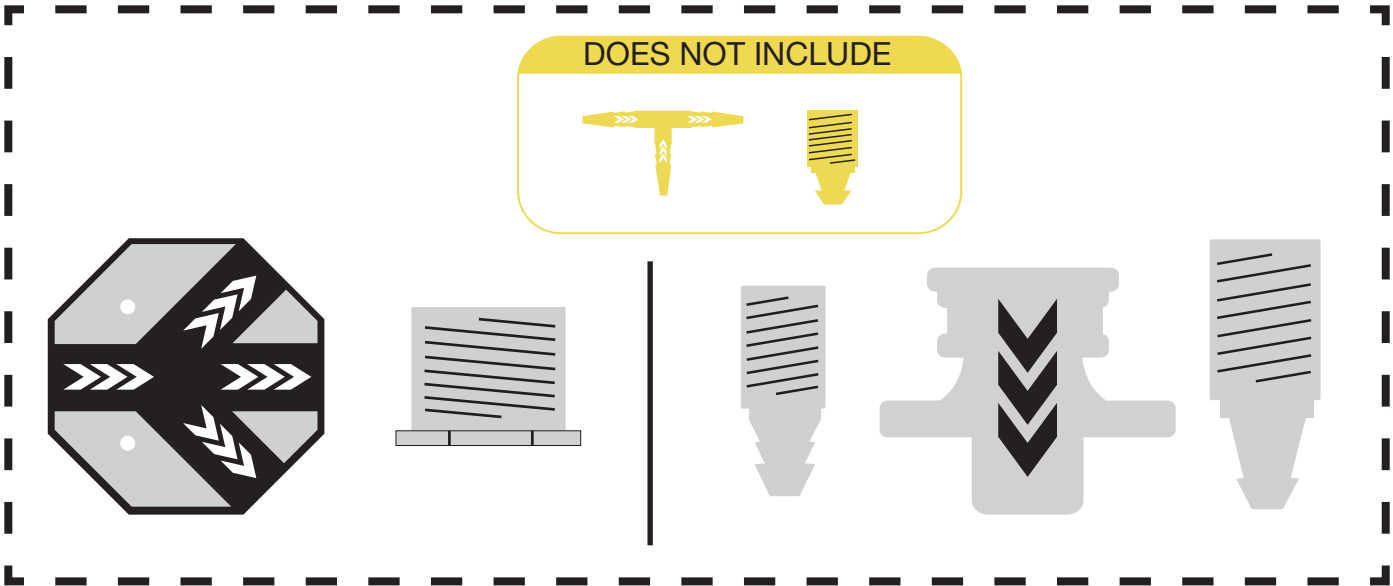


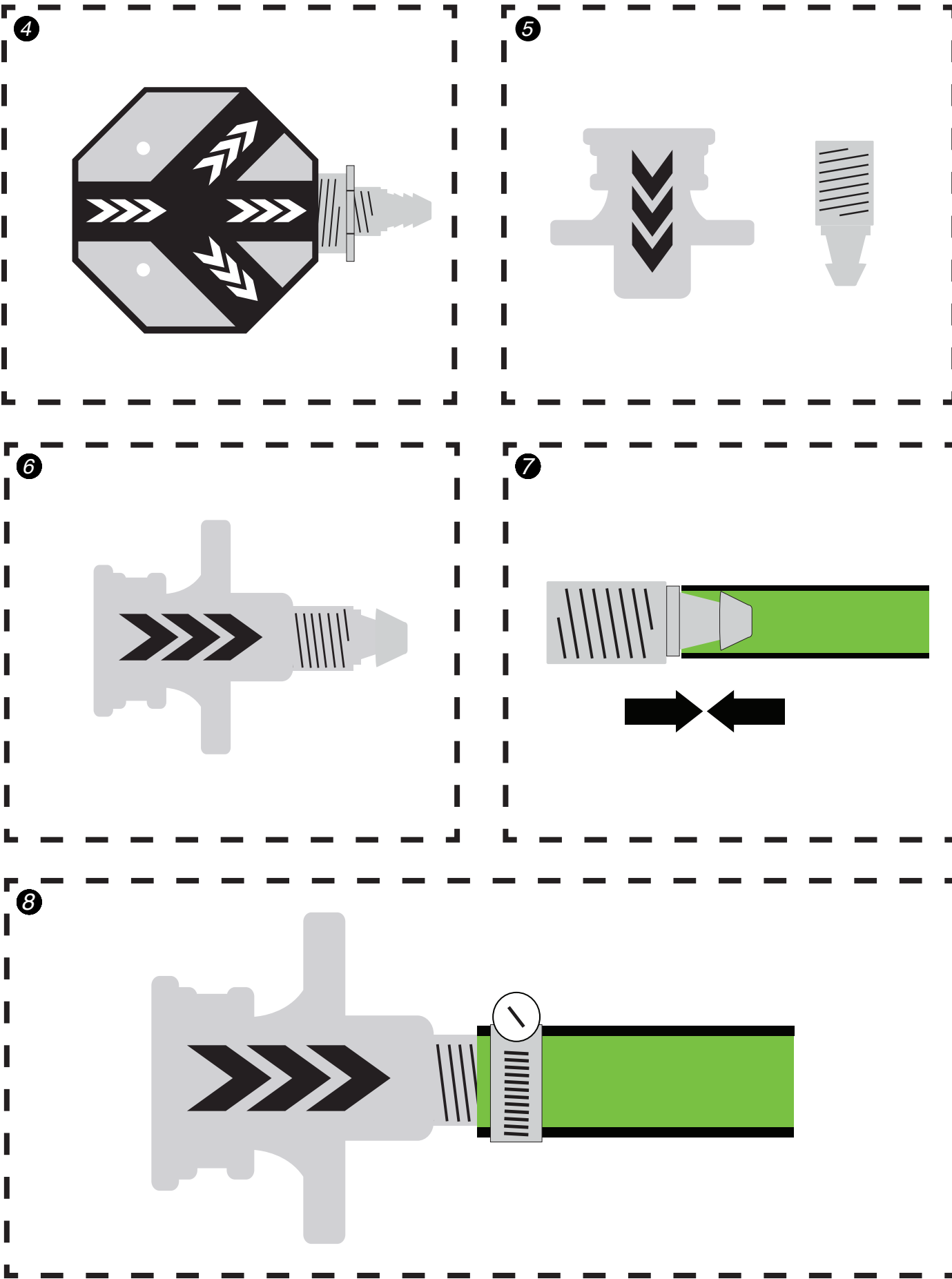
OPTIMAL FRESHWATER FLUSHING (FWF):



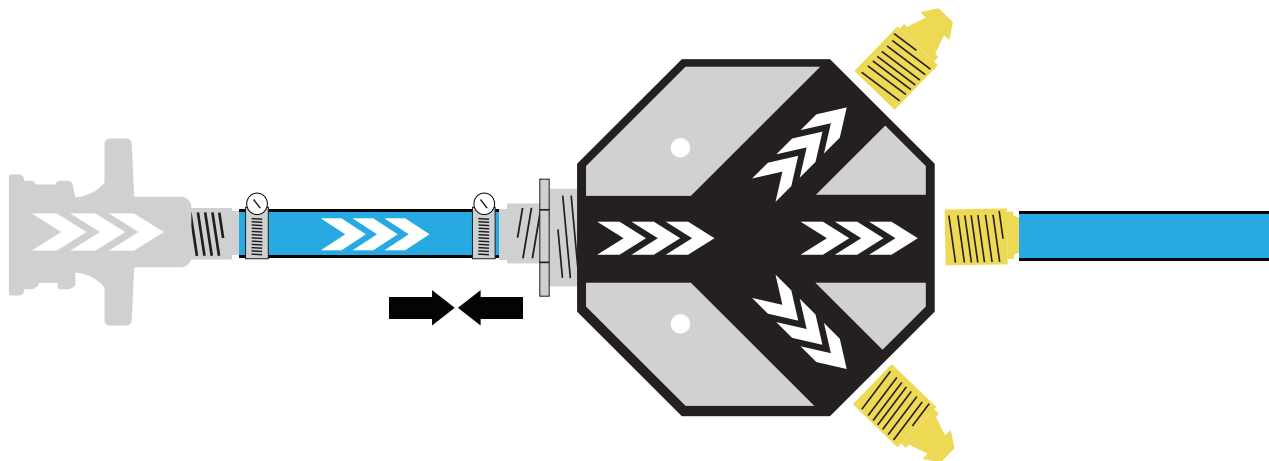
PHIBER

- FLUSH IMMEDIATELY AFTER USE
- FLUSH ONLY WITH ENGINES OFF
- 40 PSI MINIMUM WATER PRESSURE
- 2 GPM MINIMUM FLOW PER ENGINE
- DURATION: (REFER TO OEM FWF SPEC)

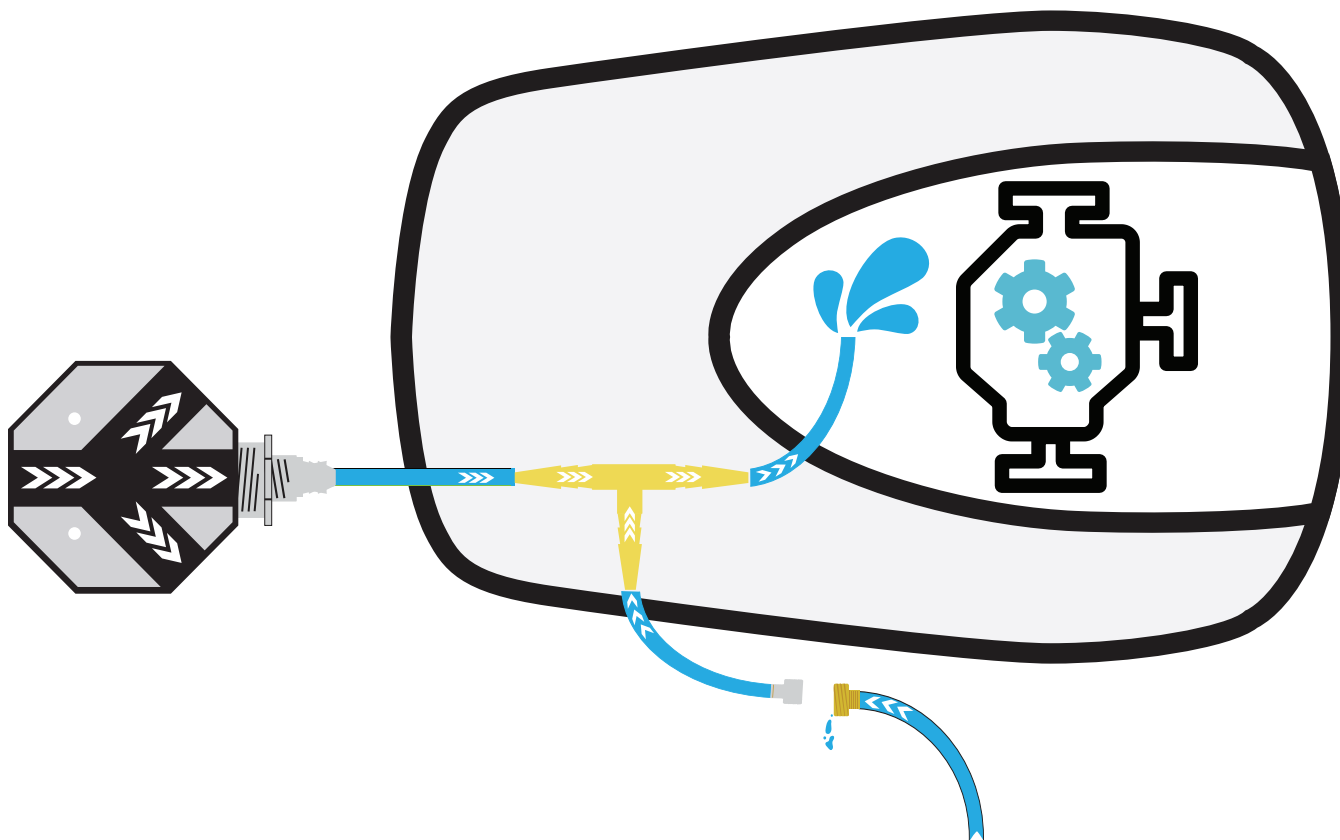


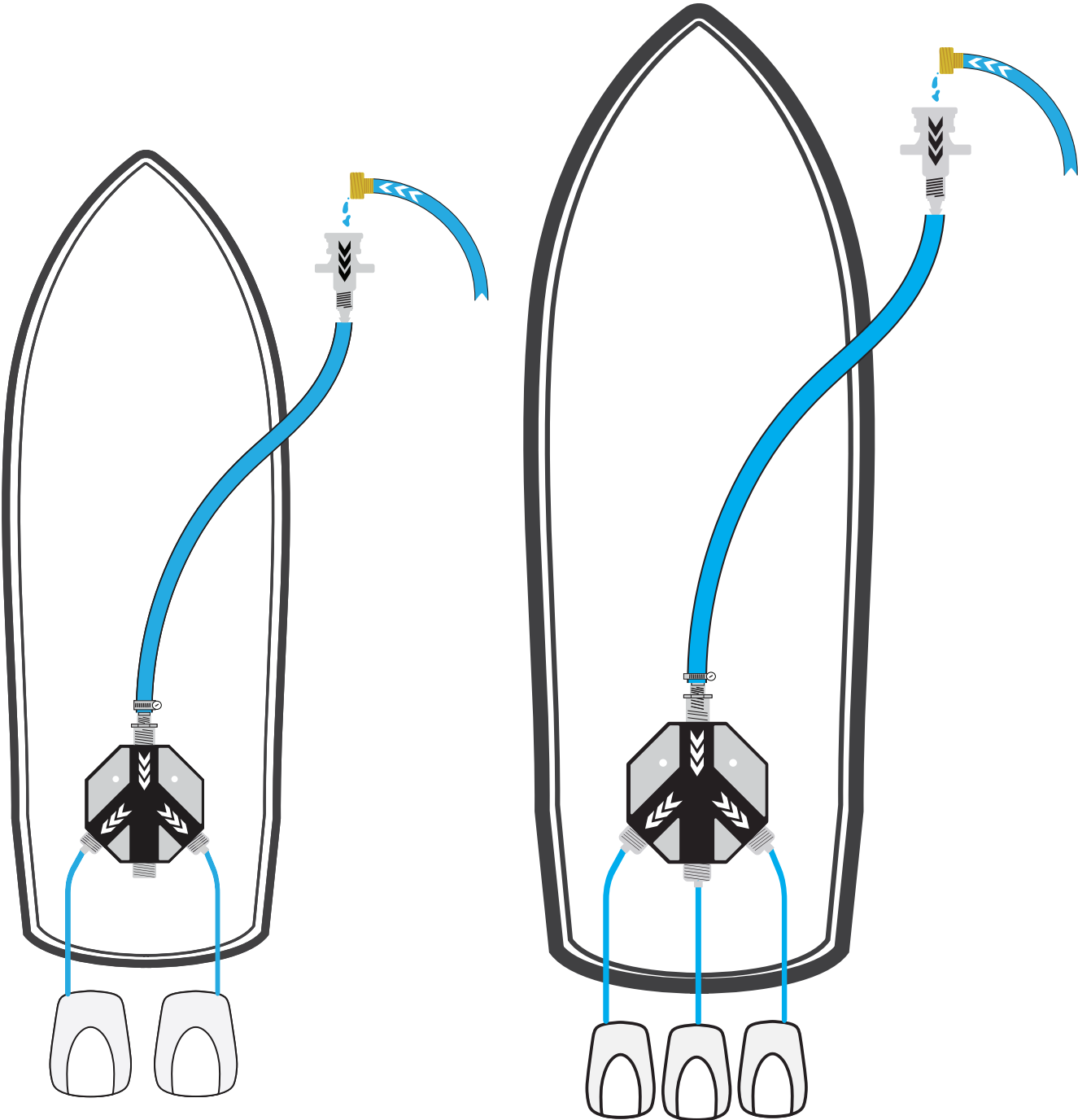


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INSTALLER NOTES

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Flush-o-Pedia

Flush-o-Pedia is a compilation of seawater science, chemistry, and all about flushing maintenance for marine systems, including the philosophy and mechanics of raw water networks, freshwater systems, and the individual technologies used to create them.

PHIBER Training & Education

PHIBER Qualified Installer Training (St. Augustine, FL) introduces design, modification, and integration of PHIBER Systems into existing or new raw water networks.



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