

Retrofit Installation Overviews



A retrofit PHIBER installation will be unique. It is highly recommended to devise a detailed installation plan before commencing and acquire any supplemental materials that may be necessary (custom plumbing, pumps, electrical fixtures, etc.) to complete the installation.

Professional installation is always recommended, and the average installation will take 8-10 hours for Inboard Systems and 4-6 hours for Overboard Systems.



Inboard FWF Manifolds

For flushing that typically occurs with the (engine) raw water pump ON:

1. Determine rate of raw water flow GPM (gallons per minute) at lowest speed (idle)
 2. Determine Fresh Water System ability (pump and plumbing) to provide appropriate GPM
 3. Select the correct size of Inboard FWF Manifold components
 4. Schematize (plan) the installation (plumbing, electrical, etc.)
 5. Observing the flow directions of the PHIBER Manifold hardware, general installation is as follows:
 - a. Swing Check as close as possible (downstream) to the raw water inlet seacock
 - b. Balancing Tee downstream from Swing Check
 - c. Primary Gate into the freshwater supply line downstream from the freshwater pump
 - d. Spring Check at the Balancing Tee
 6. Install PHIBER Control Module
 - a. Connect to vessel electrical system
 - b. Connect appropriate sense/switching circuits
 - c. Connect Primary Gate
 - d. Program accordingly
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Overboard FWF Manifolds

For flushing that typically occurs with the (engine) raw water pump OFF:

1. Determine Fresh Water System ability (pump and plumbing) to provide appropriate GPM (gallons per minute) and Pressure (PSI)
2. Select the correct size FWF Manifold components
3. Schematize (plan) the installation (plumbing, electrical, etc.)
4. Observing the flow directions of the PHIBER Manifold hardware, general installation is as follows:
 - a. Primary Gate installed into the freshwater supply line downstream from the freshwater pump
 - b. Spring Check installed between primary gate and point of entry into the raw water network
5. Install PHIBER Control Module
 - a. Connect to vessel electrical system
 - b. Connect appropriate sense/switching circuits
 - c. Connect Primary Gate
 - d. Program accordingly

At PHIBER Systems, we are passionate about solving problems and pride ourselves in building a personal relationship with our customers.

For existing vessels and system retrofits, we are happy to provide installation examples, technical documentation, and advice to your installer, ensuring that the systems are integrated, perfectly and professionally.

[Reach out to us](#) to get started today.

