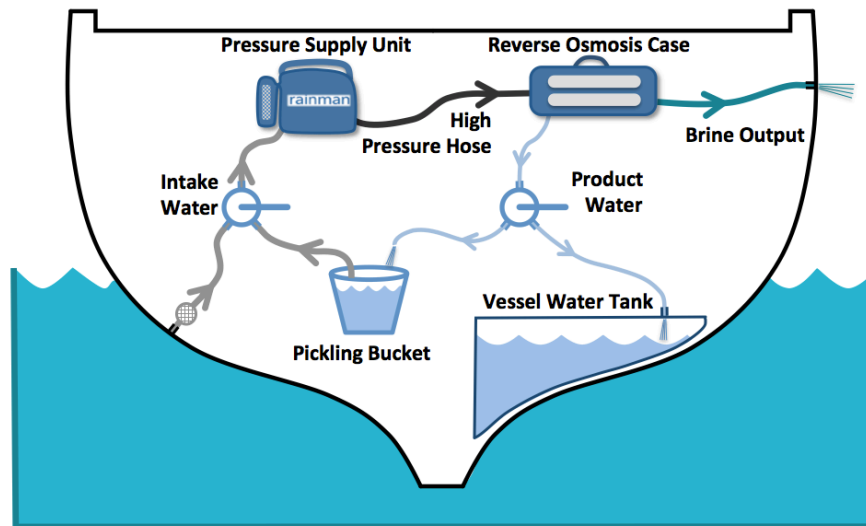


Rainman Watermaker – Installation Guidelines

Although the Rainman watermaker is designed as a portable system not requiring installation, many of our customers choose to partially or fully install the system in their boat. The variations can range widely, including installation of both the pressure supply unit and reverse osmosis case to installing one or the other of the units. An install process should be undertaken by a skilled and experienced technician. As such, this is not a comprehensive guide but a document of tips and issues for consideration.

Rainman Installed



Pressure Supply Unit:

- If taking water in from through hull, ensure a sea strainer is in place to catch coarse matter prior to getting in to pre-filter assembly.
- Ensure through hull location will not let air into the system. Account for heeling of sailing vessel and avoid through hull too near the bow.
- Mount pressure supply unit in a cool dry location.
- Ensure you leave access to easily view and change the pre-filter.
- Intake hose should be minimum of 1/2" diameter.
- Pressure supply unit has in built lift pump. Do not exceed 2 metres (6 ft) above the water line.
- We recommend not installing any petrol powered device in an enclosed area.
- A 10 litre (2.5 gallon) bucket should be used and accessible through a T valve for fresh water rinsing and membrane pickling purposes. Vessel tank water should not be used for fresh water rinsing or membrane pickling as there may be residual chlorine in the tank from previous filling with city water. This chlorine will damage your reverse osmosis membrane.
- If you wish to draw water from the vessel tank for fresh water rinsing, an inline active carbon filter can remove the residual chlorine.
- A dedicated through hull is best. If shared with other appliances, it is critical to ensure your Rainman watermaker is not being starved of feed water by competing with other appliances.

Reverse Osmosis Case:

- The brine output should be above the water line to avoid back pressure. Use the easiest method to dump brine overboard, including internal sinks, etc.
- The product water hose should have T valve for water tasting/testing, fresh water flushing, and membrane pickling.
- The product water hose should feed into top of vessel tank to avoid back pressure.
- There is practically no limit on length of high pressure hose, product water hose, or brine output hose.
- The reverse osmosis pressure vessel housings may be mounted within the Rainman case or removed and mounted on their own.