

MKC STUDY GUIDE

REVERSE OSMOSIS (MK3)

- **Theory:** Pressurized seawater is passed over a semi permeable membrane that passes pure water but excludes salt water.
- Osmotic pressure is the difference in pressure across the membrane.
- Reverse Osmosis is known as Hyper-filtration.
- Osmotic pressure is equal to 1 psi per 100 milligrams per liter of salt.
- The osmotic pressure of sea water is **350-370 psi**.
- Osmotic pressure occurs when pressure is applied to the higher salt concentration side of the membrane, causing pure water to be forced out of the salty solution.
- **Low Pressure Switch:** Secures the high press pump if the low press switch pre-determined setting isn't met (**on 110's setting is 5 psi**).
- **High Pressure Pump:** Creates a pressure of **700-1000 psi** to achieved reverse osmosis.
- **Pulsation Dampener:** Absorbs pulsations created on discharge side of high press pump. Consists of a nitrogen charged rubber bladder charged to approximately **2/3 system pressure**.
- Cracking pressure for system relief valve is most likely set at **1050 psi**.
- **Pressure Regulator:** Normally a needle valve installed on the brine discharge line used to keep the module pressure at **700-1000 psi**.
- When the salinity cell detects more than **500 ppm tds (salt)** it shifts the 3 way valve to overboard discharge position. **Audio & visual alarm notification**.
- **Crossflow:** Allows the membrane to continually clean itself. Fluid passes through the membrane while the rest continues downstream, sweeping the rejected species away from the membrane.
- **Daltons:** Atomic Mass Unit (measure of atom's mass). A unit of mass defined as 1/12 of the mass of a carbon-12 atom, equal to 1.66×10^{-27} kg.
- **John Dalton:** British physicist and chemist that developed the atomic theory of elements and molecules, founder of modern physical science.

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Sabine Zange



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