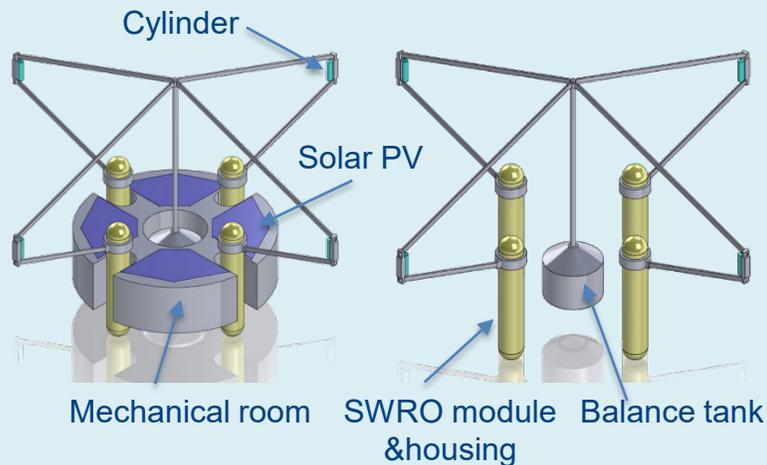


WAVOTUS: Floating Desalination Plant Accessible Everywhere

System Description

Composition

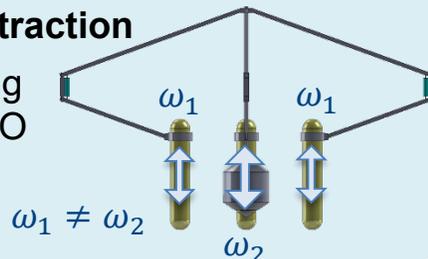
- 4 SWRO modules and housings
- 1 Balance tank
- 4 cylinders for sucking and compressing seawater
- 1 mechanical room for installing auxiliary devices and solar PV panels



Appearance of WAVOTUS

Main energy extraction

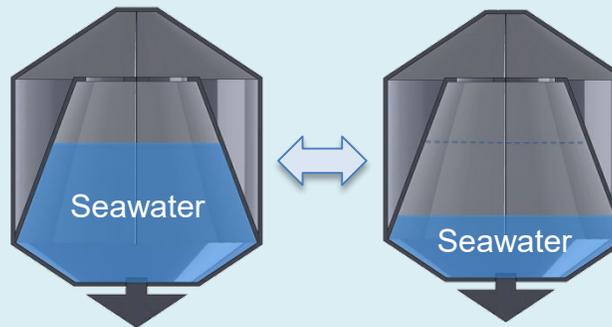
- Relative heaving motion of SWRO modules and a balance tank



Distinctions

Balance tank: self-weight-control system

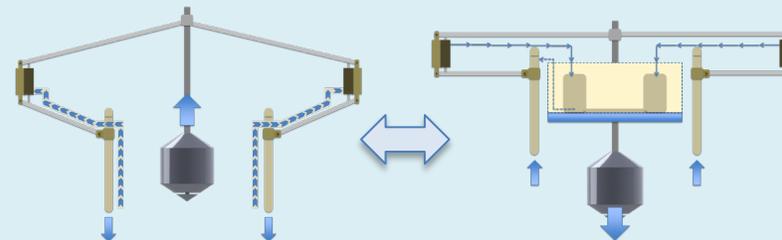
- Natural frequency change deliberately without major tuning
- Operation at a wide variety of locations



Seawater level control of the balance tank

Direct use of SWRO modules

- Direct hydraulic energy converting system by relative heaving motions of SWRO modules and a balance tank

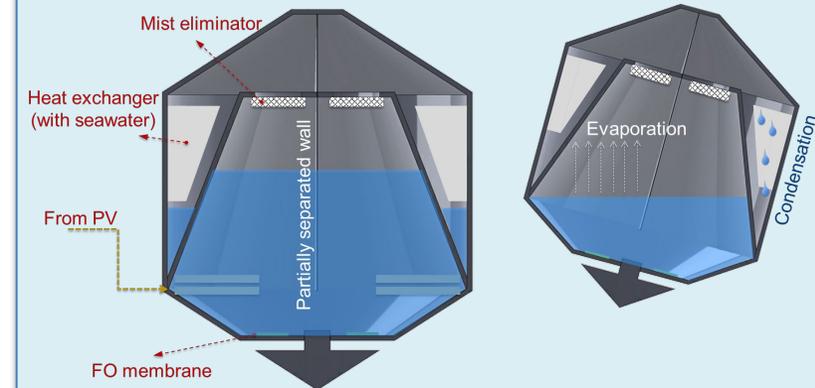


Sucking and compressing motions

Distinctions

Distilled water generation

- Production of distilled water by extracting the oscillating energy from pitching or rolling motions



Concept of oscillating vapor compression

Targeting on the remote communities

- Designed for fitting into a standard container for the shipping

