

OFFSHORE WATER TREATMENT SOLUTIONS



Fresh Water Maker

Fresh Water Maker, also known as reverse osmosis unit applies desalination process to remove dissolved salts from seawater thereby producing fresh water. Our design of Fresh Water Maker meets offshore requirements by using robust components such as high pressure pump with API-610 standard compliance, ASME certified FRP membrane housing, offshore corrosion-resistant paint system and explosion-proof certified electrical and instrumentation components. Our fresh water maker has been certified by marine classification societies such as American Bureau of Shipping (ABS), Det Norske Veritas Germanischer Lloyd (DNV GL) and Bureau Veritas (BV).

Potable and Demineralised System

Safe drinking water and service water is essential on-board offshore platforms and vessels. At Hitachi Aqua-Tech, we provide customized seawater desalination systems that produce quality water safe for drinking. Our systems conform to our client's specifications and requirements for marine, offshore and onshore application and are designed based on the feed water quality and the capacity required. Our systems are able to comply with hazardous area requirements and marine classification standards when necessary.

Sulphate Removal Unit (SRU)

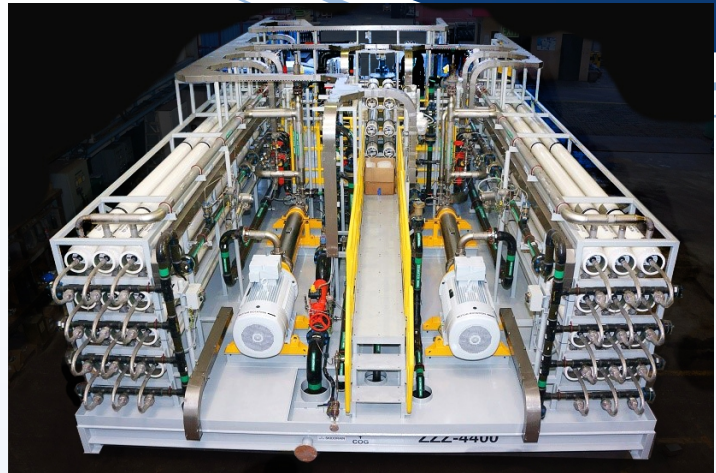
In oil production, seawater is injected into a reservoir to maintain pressure and to channel hydrocarbons to the producing well. The injected water has to meet a certain quality to prevent scaling and blockage of the injection equipment. Seawater contains significant amounts of barium and strontium ions. These ions have strong affinities with sulphate to form strontium sulphate or barium sulphate which will precipitate and deposit on pipe internals and machinery components. These insoluble scales are difficult to remove. Hence, the most effective preventive measure is to remove sulphate ions from the feed water.

We offer engineering services and partner with reliable equipment suppliers to build robust and compact Sulphate

OFFSHORE WATER TREATMENT SOLUTIONS COMPLETED PROJECTS

FPSO OSX 3

Reverse Osmosis System
1113 m³/day x 2 units installed in Zone 2, 2A, T3
Hazardous Area



FPSO Cidade de Mangaratiba MV-24

Reverse Osmosis System
750 m³/day x 2 units installed in Safe Zone Area



FPSO Cidade de Itaguaí MV-26

Reverse Osmosis System
750 m³/day x 2 units installed in Safe Zone Area



OFFSHORE WATER TREATMENT SOLUTIONS COMPLETED PROJECTS

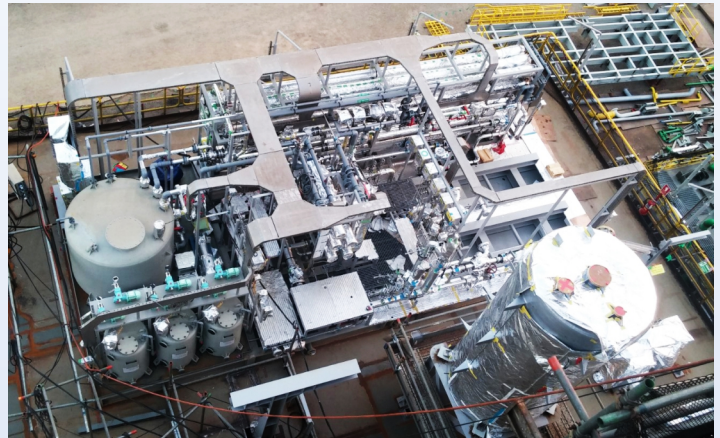
FPSO Cidade de Caraguatatuba MV27

Reverse Osmosis System
750 m³/day x 2 units installed in Safe Zone Area



FPSO Petrobras 74 (P-74)

Fresh Water Maker for Oil Dilution
600 m³/day x 2 units installed in topside of FPSO,
Zone 2, 2A, T3 Hazardous Area



FPSO Petrobras 75 / 77 (P-75 / 77)

Fresh Water Maker for Oil Dilution
600 m³/day x 2 units installed in topside of FPSO,
Zone 2, 2A, T3 Hazardous Area



OFFSHORE WATER TREATMENT SOLUTIONS COMPLETED PROJECTS

FPSO Petrobras 76 (P-76)

Fresh Water Maker for Oil Dilution
600 m³/day x 2 units installed in topside of FPSO,
Zone 2, 2A, T3 Hazardous Area



FPSO Prof. John Evans Atta Mills

Potable water solution 70m³/day x 1 unit installed
in Safe Zone Area.



Jangkrik Floating Production Unit (FPU)

Demin 24m³/day for service usage installed in
topside of FPSO Zone 1, IIB, T3 Hazardous Area

