





Offshore Fresh Water Generator

n the most sophisticated offshore
field, FWG for offshore is specially
designed to help increase the
performance of mission-critical
process. No system detail has been
overlooked with features of easy
master control, 316L stainless steel and
duplex piping connections, as well as
major components like high pressure
pump and membranes from worldrenowned manufacturers.



Offshore Fresh Water Generator KRO-100-SOS

APPLICATION

- Offshore
- Applicable to high-salinity water

WATER QUALITY

■ Less than 500 ppm TDS

CAPACITY

- From Seawater
 - : 100 ton/day

SPECIFICATION

- Dimension
 - : 3,875 x 1,500 x 1,900 mm
- Weight
 - : 600 kg
- Power Consumption
 - : 33 kW
- Equipment control
 - : PLC +HMI



END USER / YEAR

- Doo-Sung Drilling Rig
- Deployed in 2013



- Drinking water production at 40,000 ppm TDS
- Corrosion-resistant stainless frame
- All Explosion-proof valves and gauges
- Compact design and high quality



Offshore Fresh Water Generator KRO-060-SOS

APPLICATION

- Offshore
- Applicable to high-salinity water

WATER QUALITY

■ Less than 500 ppm TDS

CAPACITY

- From Seawater
 - : 60 ton/day

SPECIFICATION

- Dimension
 - : 1,900 x 1,350 x 1,700 mm
- Weight
 - : 1,200 kg
- Power Consumption
 - : 19.2 kW



END USER / YEAR

- Drilling Jack-Up Unit, CJ46-X1000D
- Quantity: 4 units
- Deployed in 2013

- Corrosion-resistant stainless frame
- All Explosion-proof valves and gauges
- Compact design and high quality



SWRO Desalination System KRO-4800-SOD

APPLICATION

Shell-Technip Prelude FLNG

CAPACITY

■ 1,200 ton/day x 4 blocks

PRODUCT FLOW QUALTIY

- 1st Stage
- : 5,600 TPD / 500ppm TDS (50% recovery rate)
- 2nd Stage
 - : 4,800 TPD / 10ppm TDS (85% recovery rate)
- MDG
- : below 100 ppb as Dissolve Oxygen

OPERATION CONDITIONS

- Feed water quality
 - : 30,000 ~ 35,000 mg/L TDS
- Feed water temp.
 - : 5 ~ 30 ℃
- Pressure
 - : 40 ~ 70 bar
- Turbidity
 - : 200 NTU Max







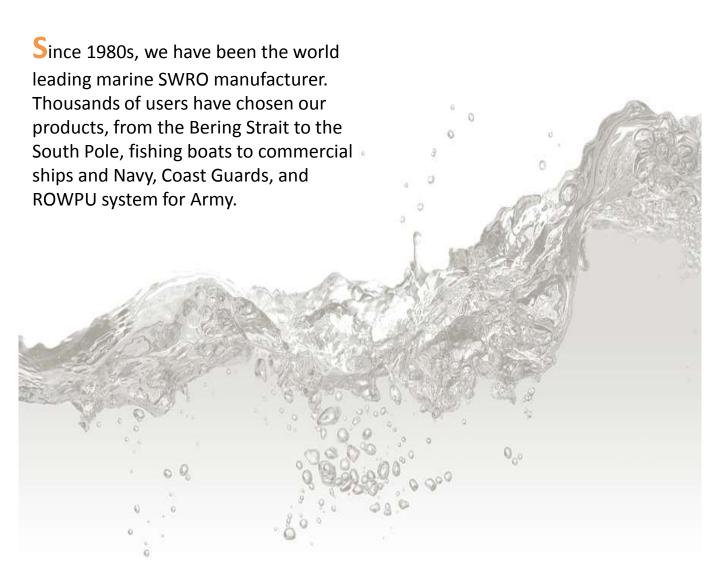
END USER / YEAR

- Shell-Technip Prelude FLNG
- Deployed in 2013.09 ~ 2014.06

- System Consist
 - : Pre-treatment \rightarrow 1st RO \rightarrow 2nd RO \rightarrow MDG
- Full double staged reverse osmosis SWRO system with MDG
- Work scope : Design, Construction, Supply & Installation



Shipboard
Fresh Water Generator





Shipboard Fresh Water Generator KRO-050-SMD

APPLICATION

- Seawater desalination
- Navy or coast guard vessel

WATER Quality

- Drinking Water
 - : Less than 500 ppm TDS
- Pure water
 - : Less than 10 ppm TDS

CAPACITY

- Drinking Water
 - : 50ton/day
- Pure water
 - : 2ton/day

SPECIFICATION

- Dimensions
 - : 2,643 x 2,343 x 2,052 mm
- Weight
 - : 3,310 kg
- Power Consumption
 - : 26.2 kW
- RO Membrane
 - : Spiral wound, Polyamide, Thin film composite
- High Pressure Pump
 - : Spiral wound, Polyamide, Thin film composite



END USER / YEAR

- Korean Navy
- Deployed from 2004



Aegis

- Compact and light weight
- Produces drinking and pure water simultaneously
- Quiet and vibration free : meets US military specifications
- Design accredited to Korean military standards



Shipboard Fresh Water Generator KRO-020-SMD

APPLICATION

- Seawater desalination
- Navy or coast guard vessel

WATER Quality

- Drinking Water
 - : Less than 500 ppm TDS
- Pure water
 - : Less than 10 ppm TDS

CAPACITY

- Drinking Water
 - : 20ton/day
- Pure water
 - : 2ton/day

SPECIFICATION

- Dimensions
 - : 1,600 x 1,500 x 1,950 mm
- Weight
 - : 2,080 kg
- Power Consumption
 - : 13.5 kW
- RO Membrane
 - : Spiral wound, Polyamide, Thin film composite
- High Pressure Pump
 - : Triplex ceramic plunger pump STS316 Manifold



IND USER / YEAR

- Korean Navy
- Deployed from 2004

DD-971

- Compact and light weight
- Produces drinking and pure water simultaneously
- Quiet and vibration free : meets US military specifications
- Design accredited to Korean military standards



Shipboard Fresh Water Generator KRO-015-SMD

APPLICATION

- Seawater desalination
- Navy or coast guard vessel

WATER Quality

- Drinking Water
 - : Less than 500 ppm TDS
- Pure water
 - : Less than 10 ppm TDS

CAPACITY

- Drinking Water
 - : 15ton/day
- Pure water
 - : 1.5ton/day

SPECIFICATION

- Dimensions
 - : 1,600 x 1,500 x 1,950 mm
- Weight
 - : 1,850 kg
- Power Consumption
 - : 9.7 kW
- RO Membrane
 - : Spiral wound, Polyamide, Thin film composite
- High Pressure Pump
 - : Triplex ceramic plunger pump STS316 Manifold



END USER / YEAR

- Korean Navy
- Deployed from 1996

- Compact and light weight
- Produces drinking and pure water simultaneously
- Quiet and vibration free : meets US military specifications
- Design accredited to Korean military standards





Shipboard Fresh Water Generator KRO-010-SMD

APPLICATION

- Seawater desalination
- Navy or coast guard vessel

WATER Quality

- Drinking Water
 - : Less than 500 ppm TDS
- Pure water
 - : Less than 10 ppm TDS

CAPACITY

- Drinking Water
 - : 10ton/day
- Pure water
 - : 1ton/day

SPECIFICATION

- Dimensions
 - : 1,600 x 1,500 x 1,950 mm
- Weight
 - : 1,760 kg
- Power Consumption
 - : 9.7 kW
- RO Membrane
 - : Spiral wound, Polyamide, Thin film composite
- High Pressure Pump
 - : Triplex ceramic plunger pump STS316 Manifold



END USER / YEAR

- Korean Navy
- Deployed from 1996



MSH-571

- Compact and light weight
- Produces drinking and pure water simultaneously
- Quiet and vibration free : meets US military specifications
- Design accredited to Korean military standards



Shipboard Fresh Water Generator KRO-002-SMD

APPLICATION

- Seawater desalination
- Navy or coast guard vessel

WATER Quality

- Drinking Water
 - : Less than 500 ppm TDS
- Pure water
 - : Less than 10 ppm TDS

CAPACITY

- Drinking Water
 - : 2.5ton/day
- Pure water
 - : 0.5ton/day

SPECIFICATION

- Dimensions
 - : 1,600 x 1,200 x 1,500 mm
- Weight
 - : 2,080 kg
- Power Consumption
 - : 13.5 kW
- RO Membrane
 - : Spiral wound, Polyamide, Thin film composite
- High Pressure Pump
 - : Triplex ceramic plunger pump STS316 Manifold



END USER / YEAR

- Korean Navy
- Deployed from 1998



PKG-711

- Compact and light weight
- Produces drinking and pure water simultaneously
- Quiet and vibration free : meets US military specifications
- Design accredited to Korean military standards



Shipboard Fresh Water Generator KRO-002-SSS

APPLICATION

- Seawater desalination
- Submarine

WATER QUALITY

Less than 500 ppm TDS

CAPACITY

- Drinking Water
 - : 2.5ton/day

SPECIFICATION

- Dimensions
 - : 950 x 535 x 1,060 mm
- Weight
 - : 280 kg
- Power Consumption
 - : 0.98 kW
- Vibration
 - : MIL-STD-167-1 Typell
- Anti-Magnetic,EMC
 - : MIL-STD-461E
- Impact
 - : MIL-S-901D Grade B, Class II, Type A



END USER / YEAR

- Korean Navy
- Deployed from 2005



P214 Class Submarine

- Small footprint & light weight
- Superior reliability and durability
 - : All 316L STS Pressure regulating valves
- No need to worry about fluctuating pressure
- Extremely quiet
 - : Noise level less than 60dB



APPLICATION

Seawater desalination

WATER Quality

Drinking Water

: Less than 500 ppm TDS

CAPACITY

■ Up to 2 TPD

: 2 ton/day

Up to 6TPD

: 6 ton/day

SPECIFICATION

Up to 2 TPD

Dimensions

: 710x 395 x 700 mm

Weight

: 60 kg

Power Consumption

: 3kW

Up to 6 TPD

Dimensions

: 700 x 576 x 1,300 mm

Weight

: 200 kg

Power Consumption

: 3.3 kW

Shipboard Fresh Water GeneratorUp to 6 TPD for Industrial



Up to 2 TPD

END USER / YEAR

- Fisheries and sophisticated boats
- Deployed from 1985

- Compact and light weight
- Easy master control
- World top major components including high pressure pumps and membranes

