

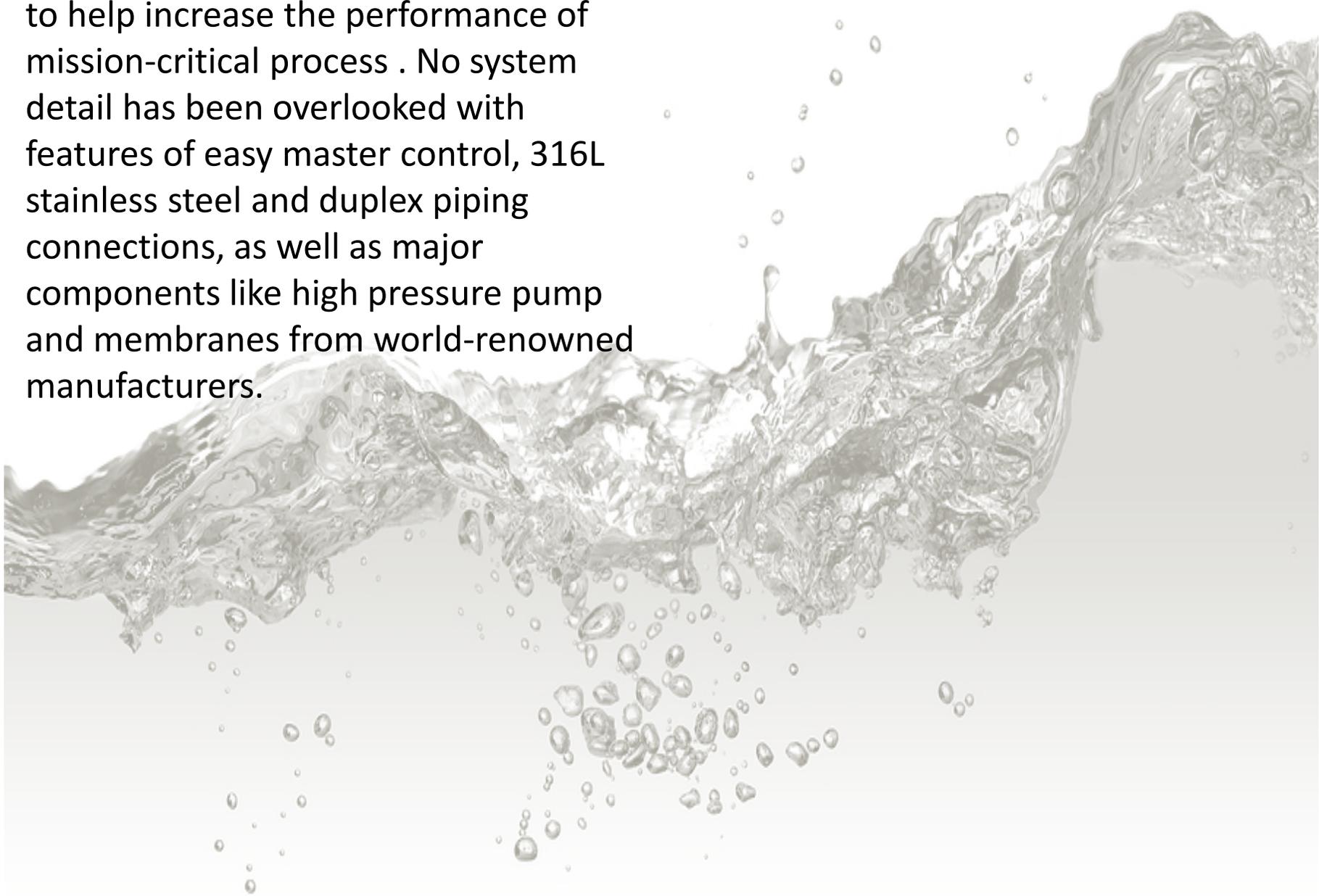
PRODUCT PORTFOLIO

An Introduction for
our Product's Reference Lists
and Information



Offshore Fresh Water Generator

In 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 world-renowned manufacturers.



PRODUCT PORTFOLIO

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



DESIGN CONCEPT

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

PRODUCT PORTFOLIO

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

DESIGN CONCEPT

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

PRODUCT PORTFOLIO

SWRO Desalination System KRO-4800-SOD

APPLICATION

- Shell-Technip Prelude FLNG

CAPACITY

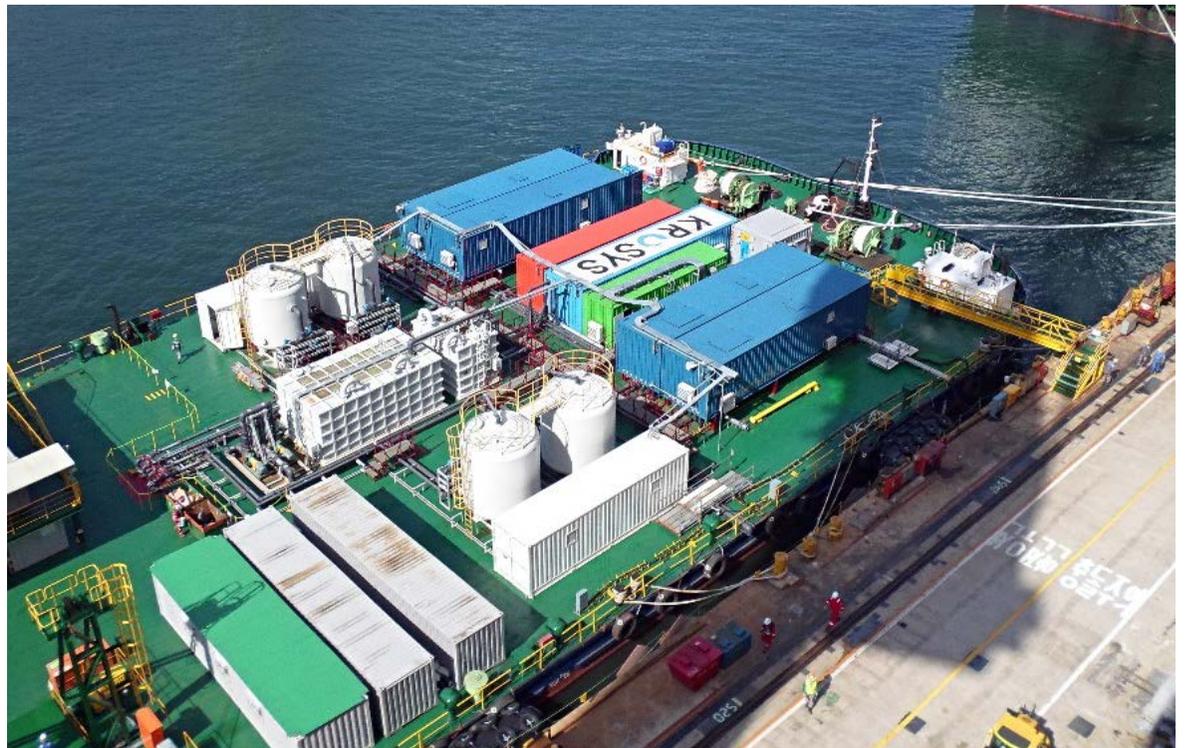
- 1,200 ton/day x 4 blocks

PRODUCT FLOW QUALITY

- 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 °C
- Pressure
: 40 ~ 70 bar
- Turbidity
: 200 NTU Max



END USER / YEAR

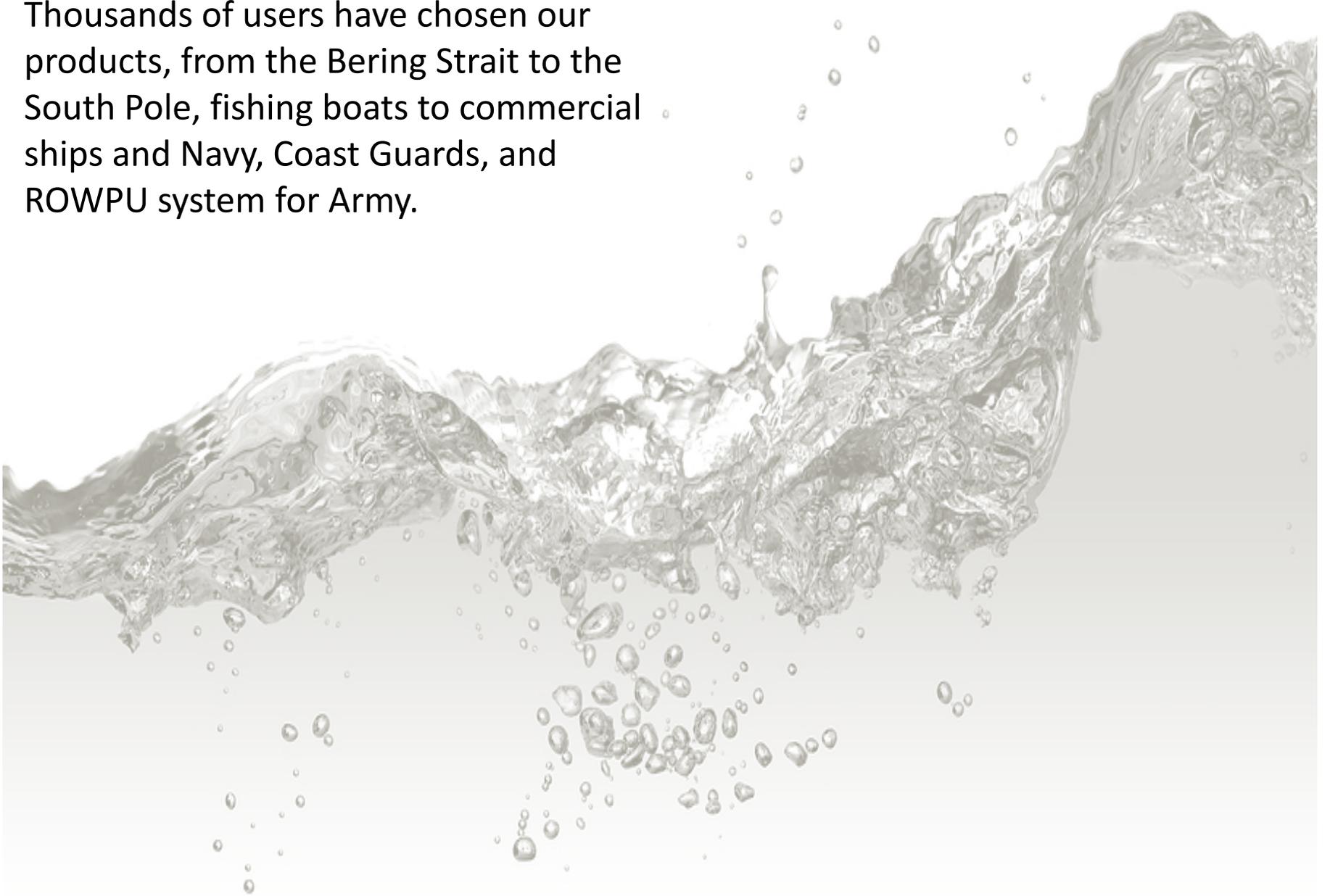
- Shell-Technip Prelude FLNG
- Deployed in 2013.09 ~ 2014.06

DESIGN CONCEPT

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

Shipboard Fresh Water Generator

Since 1980s, we have been the world leading marine SWRO manufacturer. Thousands of users have chosen our products, from the Bering Strait to the South Pole, fishing boats to commercial ships and Navy, Coast Guards, and ROWPU system for Army.



PRODUCT PORTFOLIO

Shipboard Fresh Water Generator

KRO-500-MD

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



Aegis

END USER / YEAR

- Korean Navy
- Deployed from 2004

DESIGN CONCEPT

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

PRODUCT PORTFOLIO

Shipboard Fresh Water Generator

KRO-200-MD

APPLICATION

- Seawater desalination
- Navy or coast guard vessel

WATER Quality

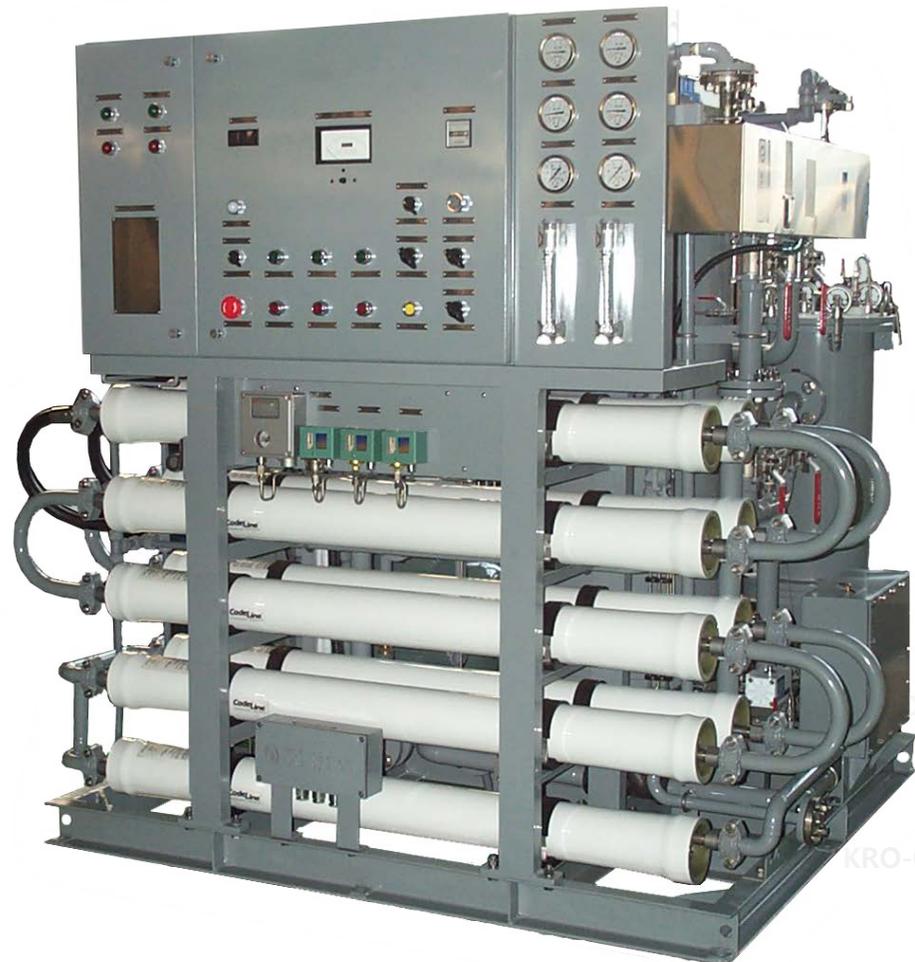
- Drinking Water
: Less than 500 ppm TDS
- Pure water
: Less than 10 ppm TDS

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



KRO-040-MTS

KRO-050-MTS

**DD-971**

END USER / YEAR

- Korean Navy
- Deployed from 2004

DESIGN CONCEPT

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

PRODUCT PORTFOLIO

Shipboard Fresh Water Generator

KRO-150-MDA1

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

DESIGN CONCEPT

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

PRODUCT PORTFOLIO

Shipboard Fresh Water Generator

KRO-100-MD

APPLICATION

- Seawater desalination
- Navy or coast guard vessel

WATER Quality

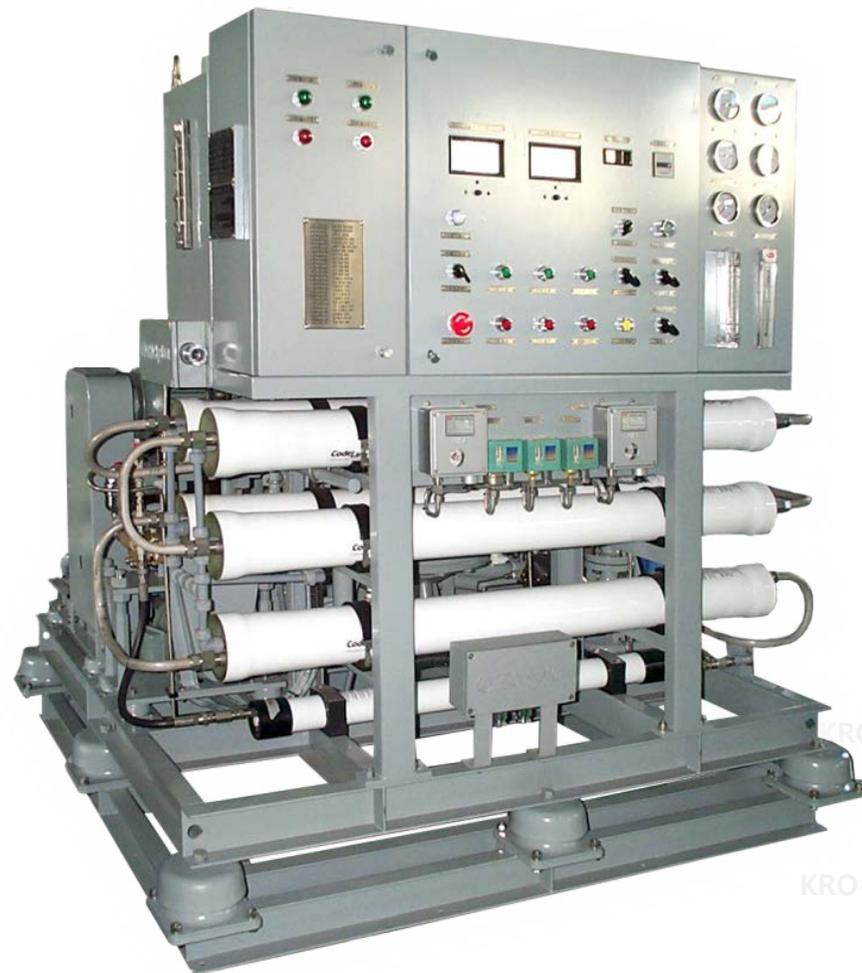
- Drinking Water
: Less than 500 ppm TDS
- Pure water
: Less than 10 ppm TDS

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



KRO-040-MTS

KRO-050-MTS



MSH-571

END USER / YEAR

- Korean Navy
- Deployed from 1996

DESIGN CONCEPT

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

PRODUCT PORTFOLIO

Shipboard Fresh Water Generator

KRO-025-MD

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

DESIGN CONCEPT

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

PRODUCT PORTFOLIO

Shipboard Fresh Water Generator

KRO-025-SS

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

DESIGN CONCEPT

- 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

PRODUCT PORTFOLIO

Shipboard Fresh Water Generator

Model: KRO-015-SID-010

APPLICATION

- Seawater desalination
- 18K LNG Bunkering Vessel

WATER Quality

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

CAPACITY

- Drinking Water
: 15ton/day
- Pure water
: 10ton/day

SPECIFICATION

- Dimensions
: 3,200 x 1,400 x 2,100 mm
- Weight
: 2,600 kg (Dry)
: 2,900 kg (Wet)
- Power Consumption
: 27 kW
- RO Membrane
: Spiral wound, Polyamide,
Thin film composite
- High Pressure Pump
: plunger pump



END USER / SHIPOWER

- Shell / KLCSM (HMD 8298)
- Deployed from 2021

DESIGN CONCEPT

- Compact and light weight
- Produces drinking and pure water simultaneously

PRODUCT PORTFOLIO

Shipboard Fresh Water Generator

Up to 6 TPD for Industrial

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



Up to 2 TPD

Up to 6 TPD

END USER / YEAR

- Fisheries and sophisticated boats
- Deployed from 1985



DESIGN CONCEPT

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