

# Mobile Desalination Truck

## • For Emergency = Truck with Diesel Powered Desalination System =

### Features

#### 1. Great Mobility and Compactness / Adaptable to All Emergency Sites

- (a) Paved Roads / 2WD 3tons Truck with Diesel Power Generator, Intake Hose, Potable Water Tank
- (b) Remote Isles/ 4WD 3 tons Truck with Diesel Power Generator, Intake Hose, Potable Water Tank

#### 2. For All Water and many Production Capacity / 1 ton to 100 tons a day of 20 hours

- (a) Desalination System / Seawater and Brackish Water
- (b) Purification System / River or Pond Water and Ground Water

#### 3. Outstanding Durability with High Quality Equipments

- (a) Always Operable / Usual Time at Fixed Lot and Emergency at Anywhere
- (b) 3 Stages of High Quality Filtration / Removing Larger Particles First, then Smaller makes Durable.
- (c) Our Original Electrolyzed Oxidizing Water (\*E.O. Water) Generator

#### 4. Easy Operation / Under Control of PLC and Sensors measuring Every Water Flow

- (a) Full Automatic Operation with Touch Screen
- (b) Automatic Rinsing and Sterilizing All Filtrations with the information from Sensors

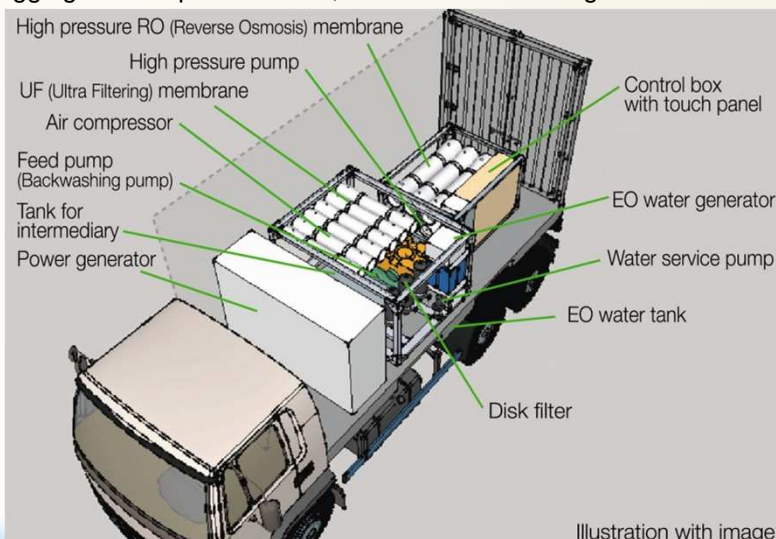
### Overview (Technical principles, actions, etc.)

#### 1. Filtration in 3 process / Gradually Eliminating Larger then Smaller Particles

- (a) Self-adjustable Disk Filter / Effective to Particles Lager than 20  $\mu\text{m}$
- (b) MF·UF / Effective to Bacteria, Virus and Minute Particles Larger than several nm
- (c) High-Pressure or Low-Pressure RO membrane / Inorganic Ions including Salt (NaCl)

#### 2. Electrolyzed Oxidizing Water (EO water) Generator

By electrolyzing diluted saline solution it produces Stable EO water and supplies EO water to the filtration. This EO water sterilizes all the filtrations and prevents multiplied bacteria and virus from clogging into the pore of filters, so called 'Bio-Fouling'.





## Installation Examples

We have been experiencing a lot in this field and other water treatment business not only in Japan but also overseas. Combining the accumulated relevant technologies and a lot of actual demand for Mobile Desalination from all over the world together we are now in the beginning stage of test production. This practically helpful Mobile Desalination Truck in Emergency will be launched in Next Spring.

### 1. Main Installation Records of Desalination System

(a) Shangdong Province, China	200ton (200,000 liters) /day	2000
(b) Yobiko, Saga pref. Japan	100ton (100,000 liters) / day	2006
(c) Muroto, Kochi pref. Japan	200ton (200,000 liters) / day	2007
(d) Washington State, U.S.	5ton (5,000 liters) / day	2007
(e) Government of Japan	30ton (30,000 liters) /day	2010

### 2. Main Installation Records of Purification System

(a) Kitakyushu, Fukuoka pref. Japan	200ton (200,000 liters) /day	2006
(b) Kusu, Oita pref. Japan	200ton (200,000 liters) /day	2006
(c) Washington State, U.S.	60ton (60,000 liters) /day	2007
(d) Suo Oshima, Yamaguchi pref. Japan	60ton (60,000 liters) /day	2010
(e) Government of Japan	70ton (70,000 liters) /day	2010

## Effects

### 1. Great Mobility / Immediately go to the Emergency Site and produce Potable Water

Product line-up for Any Road Condition and Equipped with All Necessary Items for Emergency

- (a) 4WD 3ton Canopy Type / Non Paved Roads and Any Bumpy Roads, such as Remote Islands
- (b) 2WD 3ton Canopy Type / Paved Roads

### 2. Wherever, Whenever you'll get Enough Potable Water As You Need

- (A) Equipped with All Necessary Items for Emergency
  - (a) Diesel Power Generator / Grid is NOT Necessary
  - (b) Intake Hose / Just Put into Raw Water
  - (c) Intake Pump / Take Raw Water into Desalination or Purification System
  - (d) Storage Tank / Storing Purified Water
- (B) Easy Operation by Touch Screen
- (C) Enough Drinkable Water As You Need = Various Capacity of 1 ton – 100 ton / day (20Hours / day)
  - (a) Average Necessary Drinking Water per Adult = 3 liters / day
    - Production Capacity 1 ton / day = for 333 persons / day, 100 ton / day = for 33,300 person / day
  - (b) Average Water Consumption for Daily life per person in Japan = 200 liters /day
    - Production Capacity 1 ton / day = for 5 persons / day, 100 ton / day = for 500 persons / day

### 3. Effective and Full Usage for Usual Time, too

Excellent Durability enables to use for normal days, and that leads to Paying Off Easily.

### 4. Safe Quality Drinkable Water

- (a) Adaptation to WHO and Tap Water Quality Standard in Japan
- (b) All Filtration are Always Kept Clean / EO Water Generator and Self-Cleaning System by PLC

Inquiries

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