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Disaster Damage and Water Cutoff

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Reliability proven in Japan, a disaster-prone country

Digital signage | A next-generation disaster prevention center that simultaneously delivers water and information

No experts required! Maintenance can be carried out by local staff only | 1

No experts required! Maintenance can be carried out by local staff only | 2

Water quality testing | A specialized agency certifies that the water is drinkable as it is

"Now is the time to get water from the air to save lives"



Water is essential for life, yet during disasters, this vital lifeline is often severed

Water

is the final line of defense for protecting human life.

Earthquakes, typhoons, heavy rains, tsunamis, sudden disasters take everything away from us, and the most serious loss is the loss of water.

Humans cannot survive for more than three days without water.

Water is essential for everything, from toilets to washing hands, drinking, eating, and medical care. In times of disaster, the water supply stops. That is the reality.

We propose a new solution that can produce clean "water for life" in any situation, as long as there is air.

Water outage damage from past disasters | Examples in Japan: Secondary damage caused by water shortages

The Great Hanshin-Awaji Earthquake

1995

 Many areas experienced water outages for over a week



Great East Japan Earthquake

2011

- Water trucks didn't arrive
- Water is rationed
- Toilets were out of service and sanitation was deteriorating.



Kumamoto earthquake

2016

- Water shortages in evacuation centers
- Sanitation problems growing



In all cases, there are many cases of "secondary damage that could have been prevented if water had been available."

Infectious diseases, heat stroke, dehydration, mental and physical stress...

The reality is that "water shortages damage both the body and the mind."

What is POT1?

Minimal infrastructure to

create water from air

This atmospheric water generator collects moisture from the air, filters and sterilizes it, and generates drinkable "water of life."

In the event of a disaster or when logistics are halted, water can be produced "on the spot," making it suitable for immediate use in evacuation centers, government offices, medical institutions, and homes.

No external water supply required Only air and power are required

Portable and easy to operate with touch panel.

It is possible to secure an emergency water supply system for the first 24-72 hours without the need for transportation.

POTORI













Produces

up to

140L

of water

per unit per

day

Note: Water production

volume is a theoretical value and varies depending

on the surrounding environment.





Item	Specifications	Remarks
Power supply/Maximum power consumption	Three-phase AC 380V, 50/60Hz, approx. 4.5kW	When all functions operate: water production, heating, and cooling
Rated Water Production	130 ℓ /day(50Hz) 140 ℓ /day(60Hz)	Temperature 27℃ Humidity 60%
Fan Type	Sirocco fan	
Air Intake Volume	30m3/min (50Hz) 32m3/min (60Hz)	
Operating Noise	59dBA(50Hz) 61dBA(60Hz)	
Water Storage Tank Capacity	Approx. 45ℓ	
Supply Water (Purified Water) Tank Capacity	Maximum capacity: Cold water: approx. 8 ℓ Hot water: approx. 8 ℓ	Hot water can be adjusted to room temperature
Supply Water Temperature	Cold water:approx. $5\sim10^{\circ}$ C Hot water:approx. $80\sim95^{\circ}$ C	Hot water can be reheated
Water Dispensing Speed	Approx. 30ml/sec	
Unit Weight	Approx. 190kg (when water production is at maximum,Approx. 250kg)	
Dimensions	W1400×D530×H1730mm	
Supply Water Quality	Suitable for drinking (provided that the intake air is from a normal environment)	Option: sodium filtration and adding chlorine
Others	Features: direct water line connection and a water drawing function	

Why POT1 is chosen

Our unique technology provides a stable supply of life-giving water "anytime, anywhere"

Water can be produced anywhere there is electricity.



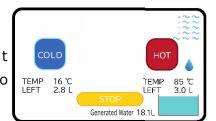
Multi-stage filter sterilization WHO standard drinking water quality



Robust design, suitable for harsh field environments and transportation



Touch panel operation makes it easy for anyone to use



How many people can be saved with POT1 water?

Greatly reduce the hygiene and health risks of evacuation life!

140 ÷

2

70

100 unitssupply water to7,000 people

POT1/1unit daily production capacity

140L

Note: Water production volume is a theoretical value and varies depending on the surrounding environment.



The minimum requirement for an adult is

2L/day



One unit can save the lives of

70 people a day

It is also possible to expand the water storage capacity and add more water supply outlets using an external tank.

The atmospheric water generator can help save even more lives.



Reliability proven in Japan, a disaster-prone country

Supplying "life-saving water" during the

Noto Peninsula earthquake

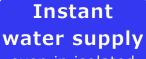
Immediately after the earthquake, we donated two POT1 units to evacuation centers (isolated villages with no water supply), which were installed and put into operation.



Shika Town, Hakui County, Ishikawa Prefecture February 5, 2024

Noto Town, Hōsu District, Ishikawa Prefecture February 26, 2024

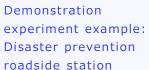
We were able to provide clean water even to isolated villages and evacuation centers where lifelines had been cut off, and the people there were very happy that they could now drink it safely.



even in isolated areas with no water supply







Demonstrated at multiple locations in Japan (Michino Station and local governments)

Contributes to strengthening local government disaster prevention systems during typhoons and earthquakes







Digital signage | A next-generation disaster prevention center that simultaneously delivers water and information

In emergencies, it becomes a "lifeline"

- Instant display of warnings and evacuation instructions from the government's Disaster Control Headquarters
- Real-time information on evacuation shelter maps, safety information, and water supply status
- Information can be provided in multiple
 languages to accommodate tourists
- Functions as a local safety confirmation board even when communication networks are cut off



In normal times, we will be a "trusted community hub"

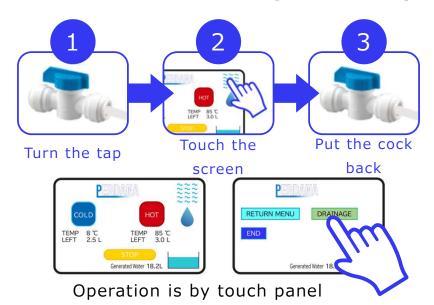
- Raising public awareness of disaster prevention through announcements of disaster prevention drills and hazard maps
- Providing public health information from the government, such as heatstroke and infectious disease prevention measures
- Regular use of infrastructure promotes smooth use in emergencies

Signage is available at an optional cost

No experts required! Maintenance can be carried out by local staff only | 1

No need to dispatch a specialized team for maintenance, even when installed in numerous locations that are difficult to access, such as mountainous areas or remote islands. This system significantly reduces operating costs and time, and enables continuous water supply.

Maintenance of draining water when not in use can be completed in **just 3 steps**



What this can accomplish



No specialized knowledge required

Anyone can respond easily and safely; it only requires local government officials and community members.



Significantly reduce operational costs

There is no need to organize a maintenance team with specialized skills or to send technicians to remote islands.



Maintaining high operating rates

In the unlikely event of an emergency, we can respond immediately on-site, minimizing downtime caused by cuts in water supply.

No experts required! Maintenance can be carried out by local staff only | 2

From daily cleaning to periodic filter changes, no special skills or specialized tools are required.

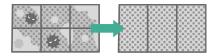
This allows for sustainable water infrastructure operation at sites throughout the country, especially on remote islands and in mountainous areas.

2 types of maintenance that do not require specialized knowledge

Daily cleaning Air filter

Just open the cover and use a brush to remove any dust from the filter.

Anyone can do it in just a few minutes.



Regular replacement Water filter

Simply open the housing panel with a simple tool and twist the cartridge filter to replace it. The three filters are color-coded, so you can install them safely and without mistakes.



What this can accomplish



Building an independent operational structure

Without waiting for experts, local staff and residents will take the lead in maintaining water infrastructure, building a technically independent disaster prevention system.



High operating rate ensures life-saving water supply is never cut off

Replacement can be completed in just a few minutes, minimizing downtime and preventing the most fatal situation of having no water in the event of a disaster.



Providing equal access to safe water to every corner of the country

Even in difficult-to-reach remote islands and mountainous areas, long-term operation is possible with simple procedures. We deliver life-saving water equally throughout the country.





Rigorous third-party water quality certification

This certificate was issued by Hiyoshi Corporation, a water quality inspection organization registered under Japan's Waterworks Law. The test results prove that the water meets all of Japan's strict water quality standards for a total of 51 items, including heavy metals such as lead, mercury, and cadmium, which are harmful to the human body, as well as disease-causing E. coli and general bacteria. As "water of life" of the highest quality, drinkable as it is, it can be used not only for emergency purposes in times of disaster, but also for daily drinking with peace of mind.

