

Create Store Transport

Safe Drinking Water

Safe and hygienic RO (Reverse Osmosis Membrane) Type

Drinking water purified on a molecular level, stored in a sealed tank, sterilized with a germicidal lamp, and with a final sanitizing filter.

Electricity storage system for continuous operation

With solar panels (600W) and an iron phosphate lithium battery (2.5kw), it's equipped with an automatic switching system for high-performance and safe emergency response.

3 WAY system realizes power-saving, space-saving, and increased volume capacity

The pump, RO, three rows of tanks, uses 2A of power, produces 120L per hour, and achieves storage capacity of 100L.

2 STEP System for Large-capacity water sampling

You can choose from two faucets for either daily use water or drinking water.

Easy Operation and Maintenance

Just turn it on to start producing fresh water. Transparent housing makes it easy to see when it's time to care for the machine. One-touch fitting method makes maintenance easy.



Reverse Osmosis Membrane + Water Tank + Solar Panel + Battery-Mounted type

Emergency Mobility Sterile RO Water Purification Unit

TOP Rescue RO II

TR-120-MRO-ST120

Unit Outer Dimensions / Weight
W1700 × D850 × H1600
(With solar panels open H1900)
235kg

Main Applicable Locations for Usage

Schools, Community centers,
Nursing homes, Hospitals,
Apartment building's emergency equipment,
etc.

This product is part of the Tokyo Metropolitan Small and Medium Enterprise Support Center's (Public Interest Incorporated Foundation) New Market Development Project.

Emergency Mobility Sterile RO Water Purification Unit

TOP Rescue RO II

Secure everyday and emergency daily use water, drinking water, and medical water!!

RO (Reverse Osmosis Membrane) System

Equipped with a proven RO module that removes harmful matter, chemicals, and radioactive substances on a molecular level.

Safe, secure, and sanitary.



TR-120-MRO-ST120



Also ideal for medical sites during emergencies.

The New and Evolved TOP Rescue RO II System Flow

Primary Treatment Daily Use Water

Self-priming Pump

Sends water from the water source to the unit

Pre-wind Filter

Removes particulates, rust, etc.

Pre-Carbon Filter

Removes Excess Chlorine

Secondary Treatment Drinking Water

RO Booster Pump × 3

Pressurizes the RO modules

RO Module × 3

Separates and removes organic matter, inorganic ions, etc.

Concentrated Water (Drainage)

Water Supply Pressure Tank 40L × 3

Stores RO water, sends water supply by internal pressure (0.3MPa)

Post-Carbon Filter

Final treatment for odors, etc.

Ultraviolet Germicidal Lamp

Final sterilization by UV irradiation

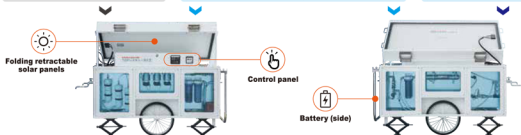
Ertiary Treatment Medical Use Water

UF Membrane Cartridge

Pyrogen free

UV Sterilization Faucet

To prevent reverse contamination



Specifications

Product Name	: Emergency Response Type Water Purification Unit TOP Rescue ROII	External dimensions	: W1700 × D650 × H1600 (mm) ※ during the panel open H1900
Model	: TR-120-MRO-ST120	Weight	: 235kg
Filtration system	: Activated carbon filtration (primary treatment) Reverse osmosis membrane filtration (secondary treatment) UF/UV (tertiary treatment)	Solar + battery:	: Output 200W × 3 Modules = 600W Lithium iron phosphate battery 2.5kw
Water Production Volume	: Primary 350L/h (Daily use water) Secondary 120L/h (Drinking water) ertiary 120L/h (Medical use water)	Consumables	: Pre-filter Carbon filter / RO Module / UVI UF
Water Storage Volume	: Water Supply Pressure Tank Capacity 40L × 3 Tanks = 120L (net 100L)	Port size	: Rc1 / 2 (Water supplier, and wastewater)
Power	: AC100V 50 / 60Hz 2A	Pump	: Self-priming pump (1) RO Module pump (3)
		Use Environment	: Electricity : Indoor (Daily and Commercial Power Supply) Outdoor: Emergency battery power supply (Automatic switching) Water Source : Indoor (Daily tap water) Outdoor: Emergencies Well water, pond water, clear water, rainwater