



Crystal Valley Water Purifier

Have you ever drunk palatable water? Various standards must be respected for drinking water.

Crystal Valley has passed the following standards as water purification system for emergency preparedness.

- 27 Items of Environmental Quality Standards for **Groundwater** Pollution, Ministry of the Environment

Following substances have been removed: mercury, cadmium, hexavalent chromium, agrochemicals, etc.

- 65 Items of **polynuclear radioactive substances**, Nuclear Reactor Regulation Law, Ministry of the Environment

Removal record : Iodine 131, Cesium 134, Telluru 129m, Cesium 137, uranium, Radium 226, Radium 228

- 51 Items of **New Water Quality Standard 2015**, Ministry of Health, Labour and Welfare



Safety Passed

Water Quality Standard No. 101, Revised Ordinance of the Ministry of Health, Labour and Welfare 2015

Halocetic acid, sea water, rain water among other things or **boron/bromine** eluted from concrete water tanks
Removal of **nitrite nitrogen** mixed from underground water or rain water

Procarcinogen

Removal Experiment for Nitrite Nitrogen (NO₂-N)

Standard Color: Nitrite Nitrogen

Crystal Valley Water

Competitor's reverse osmosis membrane water purifier

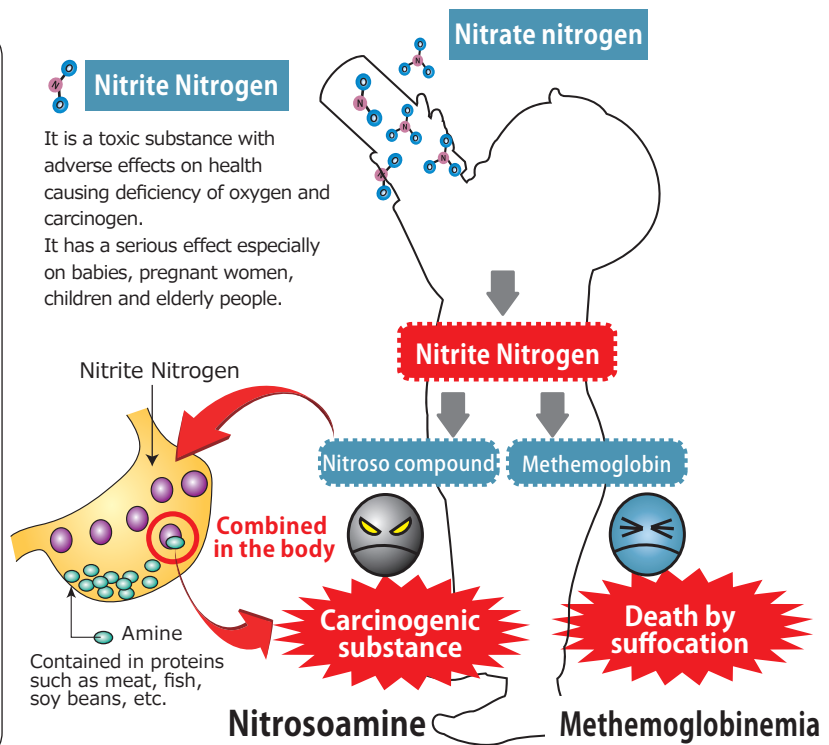
well water

river water

rain water

It shows red so as to detect nitrite nitrogen.
Crystal Valley Water is transparent even if it is tested.

Detection of Nitrite Nitrogen: 0mg/L
Conformed to new Water Quality Standards



Performance compared with Conventional Water Purifiers Crystal Valley removes nitrite nitrogen.

Method of Water Purifier	Residual chlorine	※1		※2						
		Radioactive substance	Bromic acid	Boron	Nitrite nitrogen	Dioxin	Virus	Agrochemicals	Arsenic	Asbestos
Crystal Valley	○	○	○	○	○	○	○	○	○	○
Competitor's reverse osmosis membrane	○	△	×	×	×	○	○	△	△	○
Hollow fiber membrane	○	×	×	×	×	×	×	▲	×	×
Alkali ion	○	×	×	×	×	×	×	×	×	×
High performance carbon	○	×	×	×	×	×	×	▲	△	×
Ceramic	○	×	×	×	×	×	×	×	×	×

○ = Most can be removed × = Cannot be removed △ = Can be removed during early use ▲ = Can be removed during early use for some agrochemicals

*1 Following radioactive substances have been removed: Iodine 131, cesium 134, tellurium 129m, cesium 137, uranium, radium 226, radium 228

*2 As for bromic acid, carcinogenicity has been confirmed

World's first seawater desalination plant has realized water purification under conditions of AC 100V 660 W.

Battery-operated



For Solar Unit

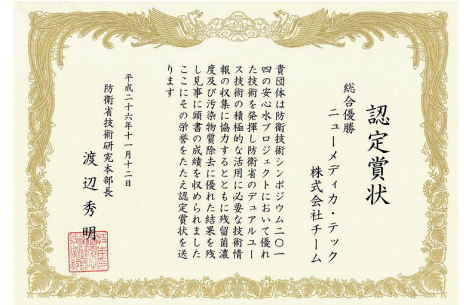


It's operable using solar units, small generators or batteries as Crystal Valley Water Purifier is designed for low power consumption.

CVR-M155J in particular has realized world's first low power consumption, 660 W/h as a seawater water desalination plant. Household Water Purifier can also be operated under power consumption of 11 W/h and lithium battery.

Certified by the Ministry of Defense: Disaster Response Compact Water Purifier; water purification capability No.1 Certification

Our Crystal Valley Water Purifier was selected in 2014 from a nationwide safe water project, sponsored by the Ministry of Defense and entitled "Some water is unfit to drink, even though we want to," and awarded a rating of "Removal Capability/Functionality No. 1" among compact water purifiers.



Crisis Management Association: CMA Certification Disaster Response Water Purifier

We have been certified as the "Organization that's Contributing to the National Resilience Promotion". NEW MEDICAN TECH CORPORATION has obtained the "Resilience Certification" based on the guideline enacted by the National Resilience Promotion Office of the Cabinet Secretariat. We will continuously strive to contribute to the national resilience while strengthening its business continuity.



Resilience Certification
Certification Registry Number EO000024

Resilience Certification:

Resilience Certifications is a system with which the Association for Resilience Japan agrees with the cause of the national resilience promotion and certifies the corporations or autonomous bodies that proactively address business or project continuities as the "Organization that's Contributing to the National Resilience Promotion" based on the "Guidelines regarding the Certification of the Organization that has contributed to the National Resilience Promotion" enacted by the National Resilience Promotion Office of the Cabinet Secretariat.



(Following water can be applied) Salt Water Brackish Waters Salt Content 2000 mg/L or less

Crystal Valley Disaster Response Water Purifier



Protect yourself and your families : Self-help

■ Household Crystal Valley Water Purifier

It can be used during water outage in case of disaster as well as everyday life.

Maximum Water Generating Volume
15L/hour
Bath Water
120 persons/day

Power Consumption
11W



CV-105JT-R CV-205JT-R

Disaster Response Kit sold separately is necessary.



Protect districts: Mutual Help

Local Governments, Management Associations, etc.

■ CVR-T41J(Trunk type)

High-shock Resistant, Superior Transportability and Easy to Operate

Maximum Water Generating Volume
51L/hour
Rain Water
400 persons/day

Power Consumption
85W



Protect Districts Mutual Help · Public Assistance

Hospitals · Evacuation Areas, etc.

■ CVR-M155J(Motor type)

Using power consumption of 660W, sea water becomes drinking water.

Maximum Water Generating Volume
156L/hour
Fresh Water
1248 persons/day

Maximum Water Generating Volume
54L/hour
Sea Water
432 persons/day

Power Consumption
660W



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