

PRODUCT CATALOG

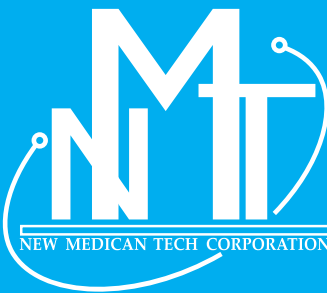


Water purification principle	Harmful substance											
	Residual chlorine	Musty odor	Nitrate nitrogen	Trihalo-methane	Dioxin	Endocrine disruptors and other organic matter	Radioactive substances	Viruses	Agricultural chemicals	Lead	Arsenic	Aluminum
Concentration for accelerated test	20 ppm	1	100 ppm	1	1	2,200 chromaticity ^{※1}	1	1	1	50 ppm	10 ppm	20 ppm
Activated carbon	○	△	×	△	×	×	×	×	△	△	×	×
Activated carbon + hollow fiber membrane	○	△	×	△	×	×	×	×	△	△	×	×
Ionized alkaline	○	△	×	△	×	×	×	×	×	×	×	×
Electrolytic reduction	○	△	×	△	×	×	×	×	×	△	×	×
Ion exchange resin	×	×	×	×	×	×	×	×	×	×	×	×
High performance carbon block	○	△	×	△	×	×	×	×	△	△	△	×
Ceramic	○	△	×	△	×	×	×	×	×	×	×	×
π-water	○	△	×	△	×	×	×	×	×	×	×	×
Conventional reverse osmosis membrane	○	○	△	○	○	△	△	○	△	△	△	×
Crystal Valley	○	○	○	○	○	○	○	○	○	○	○	○

○ = Can be removed
× = Cannot be removed
△ = Can be removed until water flow reaches certain limit
△ = Some agricultural chemicals can be removed until water flow reaches certain limit

※1: Result of chromatography removal test for theaflavin, organic substance of molecular weight MW = 564 (approx. 0.7 nanometers)^{※2}, nearly equal that of endocrine disruptors.
※2: MW stands for molecular weight (or size of molecule).

Light weight small-sized
portable system
for all kinds of safe drinking
waters purification



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Light Weight Small-sized Portable System For All Kinds of Safe Drinking Waters Purification

小型軽量可搬式 全水域対応型 安全飲料水化装置

Crystal Valley water purification system will produce safe drinking water with the world's most advanced technology of reverse osmosis membrane method to meet a water quality standard and WHO guide from near-at-hand water like rain, river or sea water.

Light weight small-sized portable system for all kinds of safe drinking waters purification will be of help to ensure all kinds of drinking waters purification.

クリスタル・ヴァレー浄水システムは、世界最先端の逆浸透膜浄水技術により、雨水・河川水・海水などの身近な水から水道水質基準やWHO飲料水水質ガイドラインに適合する、安全な飲料水を造り出します。

小型軽量可搬式 全水域対応型 安全飲料水化装置はあらゆる地域の飲料水確保に役立ちます。

Usable Water Sources



共助
Mutual
Aid

Capable of supplying water for up to 333 people per day.

1日最大333人分の給水対応

Trunk Model

トランク式 雨水・河川水・プール水・汽水域 対応型

Can be used with rainwater, river water, pool water, and brackish water.

Features

- Easy operation just press a single button to activate the microcomputer.
- Includes automatic filter cleaning function.
- Include Safe Drinking Water Monitor Alarm
- Trunk design for easy carrying.
- All accessories needed to process drinking water can be stored inside the trunk case.

<特徴>

- マイクロコンピュータのボタン一つで誰でも簡単操作
- フィルター自動洗浄機能付
- 安全飲用水モニター警告装置付
- 持ち運びしやすいトランク型
- 浄水に必要な備品は、トランク内に装備

<用途>

- 地下水汚染地域、雨水利用、河川水、湖沼水 学校、公共施設等



[TKM-1000T]

Applications

Contaminated ground water area, utilizing rain water, river water, lake water at school and public facilities, etc.

Specifications

Water Production Capacity	41.7 liters per hour (333-person supply model) Using Rainwater
Main Unit Size	55cm (w) X 25cm (d) X 43cm (h)
Weight	Approx. 22kg (dry)
Electric Power Consumption	Approx. 80W DC12V/AC100-240V 50-60Hz Dual-voltage type

* The maximum water production capacity is with water at a temperature of 25¼°C

* Specifications and designs of the product will be modifiedfor improvements and other reasons without any notice.



公助
Public
Aid

Capable of supplying water for up to 1,248 people per day.

1日最大1,248人分の給水対応

Small and Portable

小型可搬式 全水域対応型 (海水対応)

Compatible with All Types of Water (Seawater Model)

Capacity

- For sea water and brackish water
Supply drinking water 1.3ton/day
Clean drinking water for about 432 people
- For fresh water (River, Pond, Rain, Bath water etc.)
Supply drinking water 3.7 ton/day
Clean drinking water for about 1,248 people



Features

- Light-weight and compact, can be easily transported to disaster sites.
- Can be easily operated by almost every one, just press a single button
- Included automatic filter cleaning function and Safe Drinking Water Monitor Alarm
- Included automatic Chlorine Infuser
- the consumption of electricity is only 650W (100V50 /60Hz), even solar generation power is enough

Applications

Utilizing brine, brine damage, contaminated ground water area, utilizing rain water, river water, lake water at school and public facilities, etc.

Specifications

Water Production Capacity	156 liters per hour (1,248-person supply model) Using Rainwater 54liters per hour (432-person supply model) Using Sea water
Water Quality Monitor	Micro computer installed water quality monitor for safety drinking water
Alarm Device	Ultrabright light-emitting diode, waterproof warning buzzer,
Hypochlorous Implantation Equipment	Continuancevariable adjusting automatic hypochlorous implantation equipment.
Rated Pressure	With shock absorbing tank for high pressure
Pressure-adjusting Method	Pulsation Damper (SUS) Safety Valve for high-pressure cutoff (SUS)
Suction Distance	Maximum 2m
Main Unit Size	95cm (w) X 42cm (d) X 64cm (h)
Weight	Approx. 77 kg (dry)
Electric Power Consumption	Approx. 650W AC100V-240V 50-60Hz

* The maximum water production capacity is with water at a temperature of 25¼°C

* Specifications and designs of the product will be modifiedfor improvements and other reasons without any notice.

<特徴>

- 可搬移動式で非常にコンパクト。キャスター付きなので、大人一人で簡単に移動できます。
- 海水淡水化の運転はスイッチ一つをON、バルブを開けてメーターを「6」に合わせるだけ。お子様やご婦人でも簡単に運転可能です。
- 取水する原水と浄水された水をマイコン制御の水質センサーが瞬時に飲料の可否を測定し、安全に浄水できていれば緑ランプ点灯。異常が出れば赤ランプが点灯し、警報ブザーが鳴ります。
- 連続自動塩素注入装置により、残留塩素0.2ppm以上自動添加されますので、汚れた容器を持ち込まれても浄水された水で洗浄してから安全な飲料水を入れることができます。
- 消費電力はわずか650W (100V50/60Hz)、ソーラ発電だけでも十分使用できます。

<用途>

- 海水利用、塩害、地下水汚染地域、雨水利用、河川水、湖沼水 学校、公共施設等

