SOLAR WATER

Drinking water

ot water oproximately 127 liters/day



DSW- I Base price **¥340,000**

(Installation costs and consumption

Effective heat collection area 1.91 square meter

Hot water tank capacity: 95 liters Evaporation tank capacity: 32 liters Distilled water capacity: 20 liters



DSW-II

Base price **¥528,000**

(Installation costs and consumption tax not included)

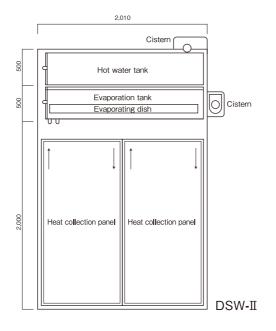
Effective heat collection area 3.82 square meter Hot water tank capacity: 142 liters Evaporation tank capacity: 66 liters

A system that generates pure water (distilled water) from rainwater (from roof)

Drinking water

pproximately 208 liters/da





(Specification sheets)

		DSW-I				DSW-II				
Model	Dimensions	Water volume (£)	Weight (kg)	Weight when full of water (kg)	Dimensions	Water volume (2)	Weight (kg)	Weight when full of water (kg)	Material Quality	Insulating material
Hot water tank	ф377×850	95.0	19.0	114.0	ф377×1,860	142.0	32.0	174.0	Special stainless steel	Styrofoam
Evaporation tank	(φ400×870) (φ336×870)	32.0	37.0	69.0	(ф400×1,776) (ф336×1,776)	66.0	60.0	126.0	Special stainless steel	Styrofoam
Heat collector	1,000×2,000×70	9.0	36.0	44.0	2,000×2,000×70	18.0	72.0	88.0	Special stainless steel	Fiberglass
Evaporating dish	ф220/2×672×H60	6.2		6.2	ф220/2×1,576×H60	13.3		13.3	Special stainless steel	
Distilled water capacity		20.0				42.0				
	Total	161.2	92.0	265.2	Total	279.3	164.0	467.3		

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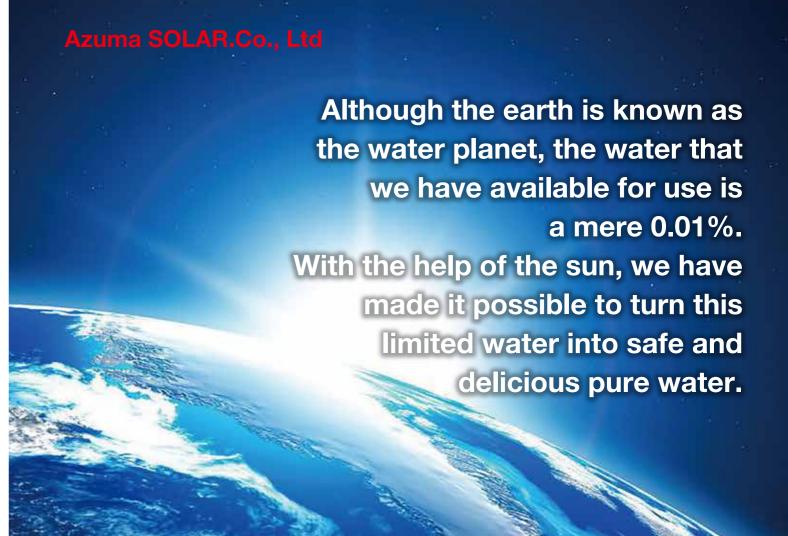
Kagoshima Sales Office: 523-4, Kokubukawauchi Kirishima, Kagoshima, 899-4314 Japan

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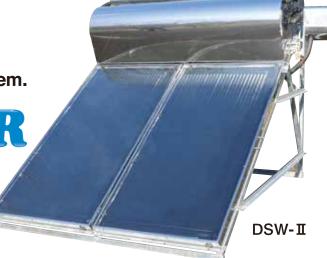
Saitama Azumasolar: 3508-1, shobuchosanga Kuki, Saitama, 346-0104 Japan (Planned Construction Site)

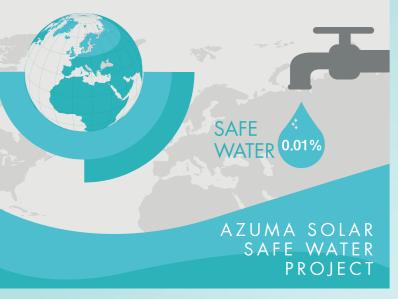


AZUMA SOLAR SAFE WATER PROJECT

Simultaneous Drinking Water/Hot Water Collection-Type Solar Water Heating System.

SOLAR WATER





Making pure (drinking) water with the sun's heat

With rapid population growth in the last 100 years, conflicts over water resources have led to frequent and acute quantitative water shortages throughout the world. Additionally, there is also the qualitative problem of roughly 500 million people not having access to safe drinking water. These factors lead many to believe that "the 21st Century is the century of water."

In both Japan and the rest of the world, the market for mineral water has expanded significantly, indicating the demand for delicious and safe water, At Azuma Solar, we have developed the world's first "simultaneous drinking water/hot water collection-type solar water heating system" (patented domestically and internationally), an innovative system that uses almost limitless solar thermal energy to supply hot water and safe drinking water simultaneously.

Reproducing the Earth's Natural Processes Using Solar Energy

Just as solar heat turns seawater into water vapor, which then turns into clouds and rain, so too does our solar water heater generate pure water through evaporation, cooling, and condensation.

Although the earth is known as the water planet, approximately 97% of the earth's water is seawater and roughly 2% is in the form of ice in Antarctica, the Arctic, and glaciers. Of the remaining 1%, most of it is underground, leaving only about 0.01% for drinking water in lakes and



Japanese patent No.4687928 PTC international patent PCT-JP2011/05 No.1976

German patent No.11 2011 100 000 Korean patent No.10-1222451 Chinese patent No.201180001027,7

Australian patent No.2011211830 Hong Kong patent HK1166364

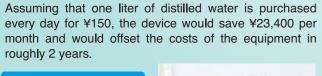
India, Indonesia, Thailand, and Malaysia patents pending

A patent application for our "simultaneous drinking water/hot water collection-type solar water heating system" was filed on December 11, 2009 and was approved in roughly one year on February 25, 2011 to give us a Japanese patent for our technology. We currently also hold international patents, as well as patents for Germany, Korea, China, Australia, and Hong Kong. Patents for India, Indonesia, Thailand, and Malaysia are pending. With the patent acquisition process from application to approval taking a relatively fast 15 months, our technology's novelty, marketability, and inventiveness has received international recognition.



FEATURES

Capable of collecting 156 liters of pure water in one month.



Drinking water collection

Pure water savings

¥780 / day ¥28,400 / month

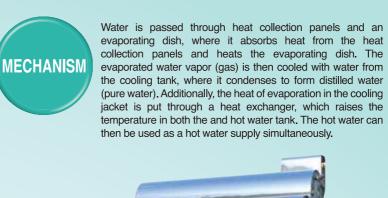
(Corresponding value) Please consume the collected We recommend you to boil it

before drinking for your safety.



Hot water collection

	Hot water tank (52~60°C)	Evaporation tank (49~59°C)	Total
Capacity	142 <i>Q</i> /day	66 2 /day	208 2 /day
Heat quantity (a sunny September day)	About	About	About
	6,000kcal	2,000kcal	8,000kcal
	/day	/day	/day
Amount of savings (LPG conversion)	¥5,703	¥1,901	¥7,604
	/day	/day	/day





Mechanism



DSW-II

In addition to the features of solar water heaters that have been available until now, our device is also capable of generating pure water (distilled water) with solar thermal energy. Being capable of providing both drinking water and hot water simultaneously, it is an innovative product that has a wide variety of applications. As it is possible to generate pure water from rain water or even river water, our device can be put to good use securing safe drinking water during disasters and in less developed countries that lack infrastructure.

Water vapor → Condensation → Pure water

Although it is possible to mineralized pure water (distilled water) using fossilized seashells, maifan stone, deep ocean water, etc., the efficacy of pure water (distilled water) is also widely acknowledged.

As drinking water

Refreshing drinking water that removed harmful substances to the body

For cooking

As there are no added components, it helps to draw out the inherent tastes of ingredients.

In green tea, coffee, and tea

Deep smells and delicate flavors are extracted and taste enhanced.

In caring for newborns and infants

It can be used in milk and baby food and it is gentle on babies' sensitive skin.

As ice

It makes a very transparent ice, which makes that whiskey and water taste even better

In humidifiers and steam irons

More efficient and longer-lasting with less water scale



Evaporation tank

