

COMPANY PROFILE

Beginning with the development and manufacture of hydrogen electrolyzer and water purifier from 2013, we've successfully developed and patent registered a unique technology for hydrogen-water generator through R&D.

Our hydrogen-water generator is very popular among overseas buyers because it combines <u>superior</u> <u>performance and merchantability</u> compared to that of our competitors including those ones in Japan and currently we are actively engaged in export negotiation with buyers worldwide including <u>USA</u>, <u>Japan</u>, and <u>Europe</u> etc.

With the expansion of technology and marketing investment, we will leap to become a <u>Global No. I Hydrogen-Water Specialist</u>.

COMPANY HISTORY

2017

• Incorporated Dagaga Co., Ltd.

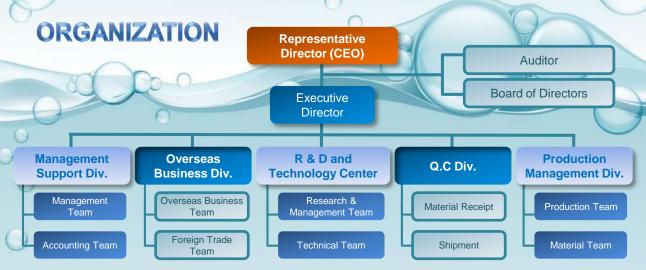
2016

• Exported Model 'HYD-2100A' and 'HYD-50A' to Spain and Malaysia respectively.

2013

• Started R&D for hydrogen-water generator and water purifier





R&D

Patents

Patent Application and Number	Date of Applicatio n	Date of Registration	Title of Invention
Patent No. 10-1683109	2016.05.16	2016.11.30	Hydrogen-containing water manufacturing devices
Patent No. 10-1748788	2015.03.18	2017.06.13	Hydrogen-containing water manufacturing devices
Patent No. 10-1748789	2016.09.09	2017.06.13	Hydrogen-containing water manufacturing devices
Patent No. 10-1748791	2016.11.23	2017.06.13	A portable tumbler equipped with hydrogen-containing water manufacturing function
PCT / KR2016 / 001907	2016.02.26		Hydrogen-containing water manufacturing devices
PCT / KR2017 / 005051	2017.05.01		Hydrogen-containing water manufacturing devices
10-2017-0066186 Patent No. 10-1771166 10-2017-0163431	2017.05.29 2017.04.13 2017.11.30	2017.08.18	Portable tumbler equipped with hydrogen-containing water manufacturing function Hydrogen-containing water mfg devices (Spa, Tumbler) Hydrogen-containing water mfg devices (Tumbler, Port)
Patent No. 10-1823824	2017.05.17	2018.01.24	Comprehensive processor Fan with air cleaning function Hydrogen-containing water manufacturing devices
Patent No. 10-1823825	2017.05.24	2018.01.24	
Patent No. 10-1856627	2017.11.30	2018.05.03	
Patent No. 10-1909665	2018.03.23	2018.10.12	Hydrogen-containing water manufacturing devices Hydrogen-containing water manufacturing devices
Patent No. 10-1950368	2018.05.16	2019.02.14	

Performance of Technology Development

Title of Technology (Development)	Key Technology	Period of Development	Cost of Development
Hydrogen-containing water electrolytic bath device	A source technology extracting only 100% pure hydrogenwater through the electrolysis of water after processing titanium and plaiting platinum and then letting it be contained in water.	2013. 01 ~ 2014. 12	About 150 million Won
Electrolyzer electronic control unit	Development of electronic control device and algorithm that maximize efficiency and safety of hydrogen electrolyzer module.	2014. 11 ~ 2015. 06	About 100 million Won
Hazardous gas removing structure	Study on structure mechanism related to blocking and elimination of harmful gas emission and development of filter raw material.	2014. 10 ~ 2015. 04	About 60 million Won
Hydrogen-containing water mfg device	Manufactured product with hydrogen-containing water electrolytic bath.	2015. 02 ~ 2016.12	About 500 million Won
Portable hydrogen electrolyzer unit	A source technology, that is, realizing optimized structure of a small electrolyzer module and extracting 100% pure hydrogen-water and letting it be contained in water.	2016. 08 ~ 2016. 12	About 100 million Won
Hydrogen collecting device	Technology for collecting hydrogen generated in hydrogen electrolyzer and supplying gasified hydrogen through an induction tube.	2016. 07 ~ 2016. 10	About 40 million Won



■ Specification

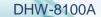
Category	Standard	비고
Working Voltage(V)	DC 3.7V/1A	ADC Adaptor
Power Consumption(W)	13.5W	
Tumbler_Size(H x Ø)	233 x 70	
Wireless Charger_Size(H x Ø)	17x89	
USB Cable(L)	1M	B TYPE
Weight(g)	400	
Dissolved Hydrogen(ppb)	Over 1,000	
ORP(mV)	Over -200mV	
Maximum Capacity(ml)	350ml	
Working Temp.(°C)	3~40°C	
Manufacturing Country and Manufacturer	Republic Korea / Dagaga Co., Ltd.	

■ Hydrogen Quality

- Unlike previous products, our product will only produce pure hydrogen and dissolve them in water. It also removes harmful gas through a separate filter structure to make it harmless for the human body.
- The 9100A product can produce pure hydrogen through ion exchange and it dissolves hydrogen in a drinking water contained in a cup by 1000ppb and maintain the dissolved hydrogen for 8 hours or more.
- In addition, it is designed to keep the internal pressure caused by hydrogen generation to be kept at a certain level.

- The 9100A has a water capacity of 350ml.
- The 9100A provides enough hydrogen to the body with the amount of dissolved hydrogen in the water being more than 1,000ppb
- · The functions are
- Power on/off, (The power will automatically turn off after a certain time when it is on)
- The operating time is 3minutes.
- Hydrogen generation and cleaning Function can be selected. (It can be easily noticed with the color of the lamp changing to blue or red.)
- The built-in gas removal filter stops the harmful gas from generating outside the product.
- It can be used more than 10 times with 1 charge.
- Various safety features are applied for safe usage.
- The U.S. FDA, RoHS, and MSPs requirements are met as the materials used are harmless to the human body.
- The product includes sterilized water function.
- The product has both domestic and foreign patents









■ Specification

Category	Standard	Remark
Working Voltage(V)	DC 3.7V/1A	ADC Adaptor
Power Consumption(W)	13.5W	
Pot_Size(L x H x W)	188x271x141	
Controller_SizeL x H x W)	210x22x150	
Weight(kg)	1.7	
Dissolved Hydrogen(ppb)	Over 1,000	
ORP(mV)	Over -200mV	
Maximum Capacity(L)	1.5	
Working Temp.(°C)	3~40°C	
Manufacturing Country and Manufacturer	Republic Korea / Dagaga Co., Ltd.	

Hydrogen Quality

- Unlike previous products, our product will only produce pure hydrogen and dissolve them in water. It also removes harmful gas through a separate filter structure to make it harmless for the human body.
- The 8100A product can produce pure hydrogen through ion exchange and it dissolves hydrogen in a drinking water contained in a cup by 1000ppb and maintain the dissolved hydrogen for 8 hours or more.
- In addition, it is designed to keep the internal pressure caused by hydrogen generation to be kept at a certain level.

- The 8100A has a water capacity of 1,500ml.
- The 8100A provides enough hydrogen to the body with the amount of dissolved hydrogen in the water being more than 1,000ppb
- The functions are
- Power on/off
- The operating time is 5, 10, 20, 30minutes.
- Hydrogen generation and cleaning Function can be selected. (It can be easily noticed with the color of the lamp changing to blue or red.)
- The built-in gas removal filter stops the harmful gas from generating outside the product.
- Various safety features are applied for safe usage.
- The U.S. FDA, RoHS, and MSPs requirements are met as the materials used are harmless to the human body.
- The product includes sterilized water function.
- The product has both domestic and foreign patents



DHW-5100A





■ Specification

Category	Standard	Remark
Working Voltage(V)	DC12V/1A	ADC Adaptor
Power Consumption(W)	144W	
Spa_Size(L x H x W)	51x180	
Controller_SizeL x H x W)	22x226	
Weight(kg)	1.7	
Dissolved Hydrogen(ppb)	Over 1,500	
ORP(mV)	Over -200mV	
Working Temp.(°C)	3~50°C	
Manufacturing Country and Manufacturer	Republic Korea / Dagaga Co., Ltd.	

■ Hydrogen Quality

- Unlike previous products, our product will only produce pure hydrogen and dissolve them in water. It also removes harmful gas through a separate filter structure to make it harmless for the human body.
- The 8100A product can produce pure hydrogen through ion exchange and it dissolves hydrogen in a drinking water contained in a cup by 1000ppb and maintain the dissolved hydrogen for 8 hours or more.
- In addition, it is designed to keep the internal pressure caused by hydrogen generation to be kept at a certain level.

- •The 5100A provides enough hydrogen to the body with the amount of dissolved hydrogen in the water being more than 1,500ppb
- •The functions are
- Power on/off
- The operating time is 20minutes.
- Hydrogen generation and cleaning Function can be selected. (It can be easily noticed with the color of the lamp changing to orange or red.)
- The built-in gas removal filter stops the harmful gas from generating outside the product.
- •Various safety features are applied for safe usage.
- •The U.S. FDA, RoHS, and MSPs requirements are met as the materials used are harmless to the human body.
- •The product includes sterilized water function.
- •The product has both domestic and foreign patents



■ Specification

Category	Standard	Remark
Working Voltage(V)	AC 220V/1.5A	Cold Water
Power Consumption(W)	330W/2500W	Cold/Hot water
Size(L x H x W)	524x496x289	
Weight(kg)	12.5	
Dissolved Hydrogen(ppb)	Over 3,000	
ORP(mV)	Over -400mV	
Maximum Capacity(L)	1L/min	
Working Temp.(°C)	3~40°C	
Treatment type	Direct Water	
Available filtering capacity	1.5L	
Manufacturing Country and Manufacturer	Republic Korea / Dagaga Co., Ltd.	

- The functions are
- Power on/off
- Operating time is the time it takes to produce water.
- Hydrogen generation and cleaning Function can be selected. (It can be easily noticed with the color of the lamp changing to blue or red.)
- The built-in gas removal filter stops the harmful gas from generating outside the product.
- There are four types of filters, SEDI Filter, CARBON BLOCK Filter, UF Filter, and POST CABON Filter.
- The produced water can be set to water, hot water, and cold water.
- The Faucet on the side of the product makes it comfortable to use.
- Various safety features are applied for safe usage.
- The U.S. FDA, RoHS, and MSPs requirements are met as the materials used are harmless to the human body.
- The product has both domestic and foreign patents

■ Hydrogen Quality

- Unlike previous products, our product will only produce pure hydrogen with the purified water from the in-built filter and dissolve them in water. It also removes harmful gas through a separate filter structure to make it harmless for the human body.
- The 7100A product can produce pure hydrogen through ion exchange and it dissolves hydrogen in a drinking water contained in a cup by 3000ppb and maintain the dissolved hydrogen for 6 hours or more.
- In addition, it is designed to keep the internal pressure caused by hydrogen generation to be kept at a certain level.

- The 7100A has a water discharge capacity of 1,000ml and the available filtering capacity is 1,500ml.
- The 7100A provides enough hydrogen to the body with the amount of dissolved hydrogen in the water being more than 3,000ppb