

***Hydrogen Water Purifier***  
***Made By ION. Co., Ltd***  
***IONPIA -H2- 9000***



*Feel Better & Live Longer*

***Hydrogen Water Ionizer***

**ion** ION.CO.,LTD  
Ion.Co.,Ltd [www.ionpia.com](http://www.ionpia.com)

## Design



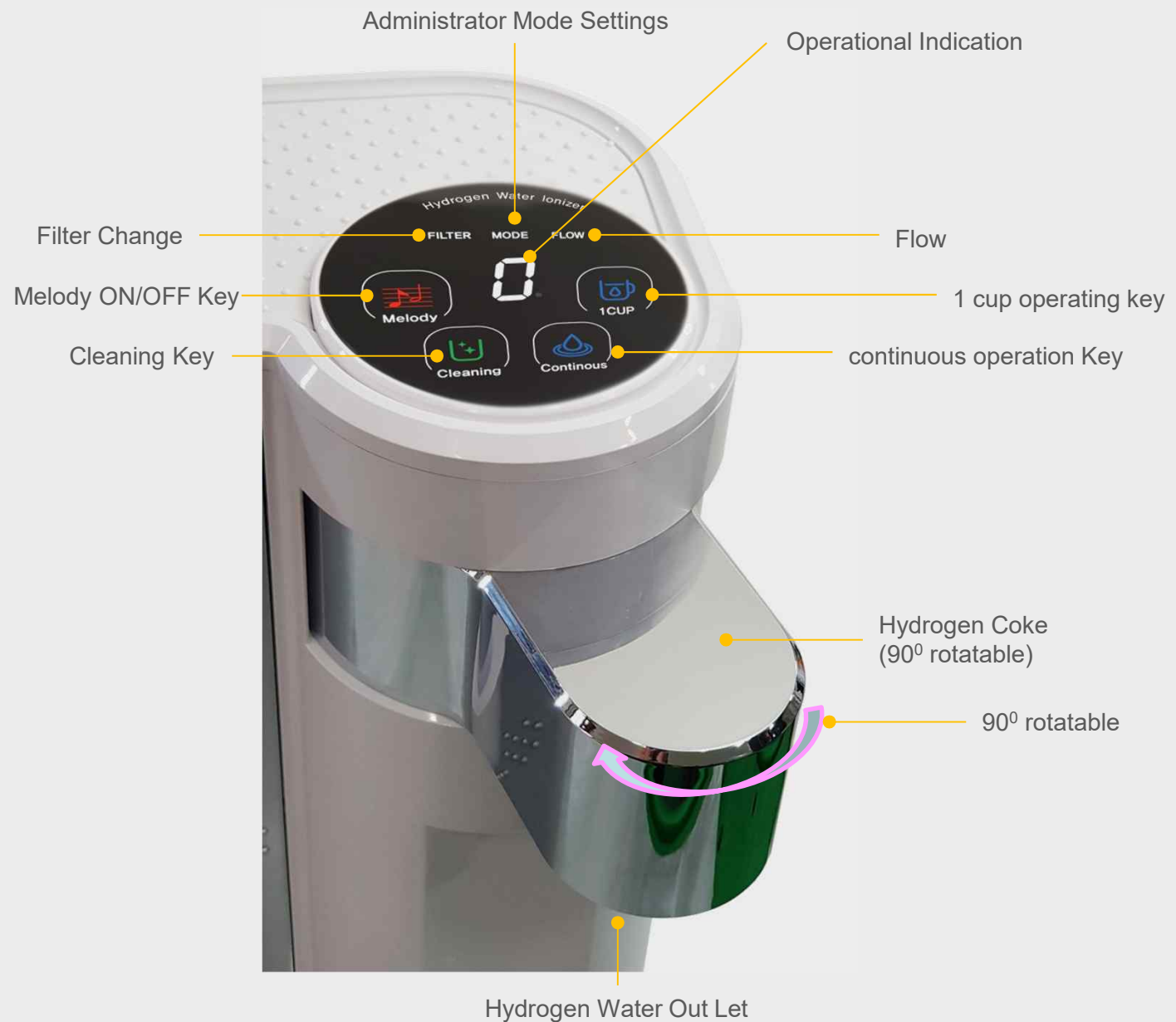
*Hydrogen  
Water Ionizer*

## *Name of Each part*



**Hydrogen  
Water Ionizer**

## Display Part



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# Spec

Product name	Hydrogen Water Ionizer	Washing method	Touch Button Cleaning	
Product Model	IONPIA H2-9000	Electrode specification	Platinum & Titanium (ion exchange membrane)	
Usage voltage	AC110~240V Free, 50~60Hz OUT PUT : DC12V, 5A	Filter exchange method	Cartridge exchange method (3 Filter Type)	
Display & Key	1 cup operating key continuous operation Key Cleaning Key Melody ON/OFF Key Operational Indication	Filter use period	Filter 1	About 4 months
			Filter 2	About 12 months
			Filter 3	About 8 months
			May change depending on water quality.	
Weight	About 2.5Kg	Filter exchange display	LED bar display & Voice Alarm (Preparing the language)	
Body size	357(H)x110(W)x 395(D)mm		LED bar display & Voice Alarm (Preparing the language)	
power supply	SMPS TYPE (Out-side Type)	Operation method	One touch panel, LED Display	
Power consumption	Max 60W	Creation quantity	Maximum 0.7~1.2ℓ/min	
Electrolysis method	Continuous electrolysis method	pH	pH 7.0~8.5 Neutral(tap Water)	
		H <sup>2</sup>	800 ~ 1,200ppb	
		ORP	-200 ~ -600mV	

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# Triple Filter System

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## Filter 1 Sediment & Carbon

An antibacterial activated carbon filter with excellent adsorption removes chlorine, carcinogens and organic chemicals in the water as well as odor.

Change : 4 Month(about)



## Filter 2 U/F Membrane

The fine hollow fiber filter eliminates all germs and impurities that remain in the water and passes only clean water with minerals.

Change : 12 Month(about)



## Filter 3 Post Carbon Block

Prevents the propagation of germs in the water, eliminates odors and multiple organic chemicals, and provides healthy water.

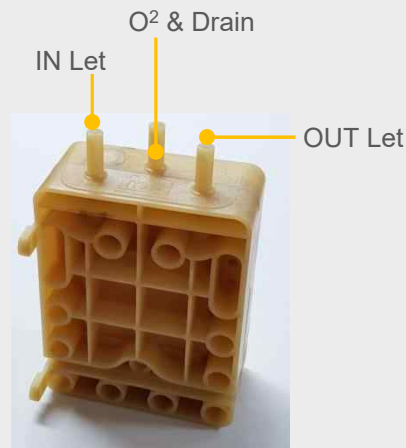
Change : 8 Month(about)

# Filter System



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# hydrogen electrolysis module



- ▶ Stable hydrogen generation and durability
  - 1) Structural design that increases the active electrode surface and reduces the contact resistance with the proton exchange membrane
  - 2) Maximize hydrogen generation and secure module durability
- ▶ High concentration hydrogen water supply from the first cup

Optimized module internal structure for instantaneous response to extract high-concentration hydrogen water immediately after operation
- ▶ Feedback flow path design for stable high concentration hydrogen water

Multi-turbulent generation structure for fine mixing of water and hydrogen molecules and part of the produced hydrogen water Feedback dissolution system to increase the concentration by returning once again.
- ▶ Dissolving Cell for Flow and Concentration Adjustment

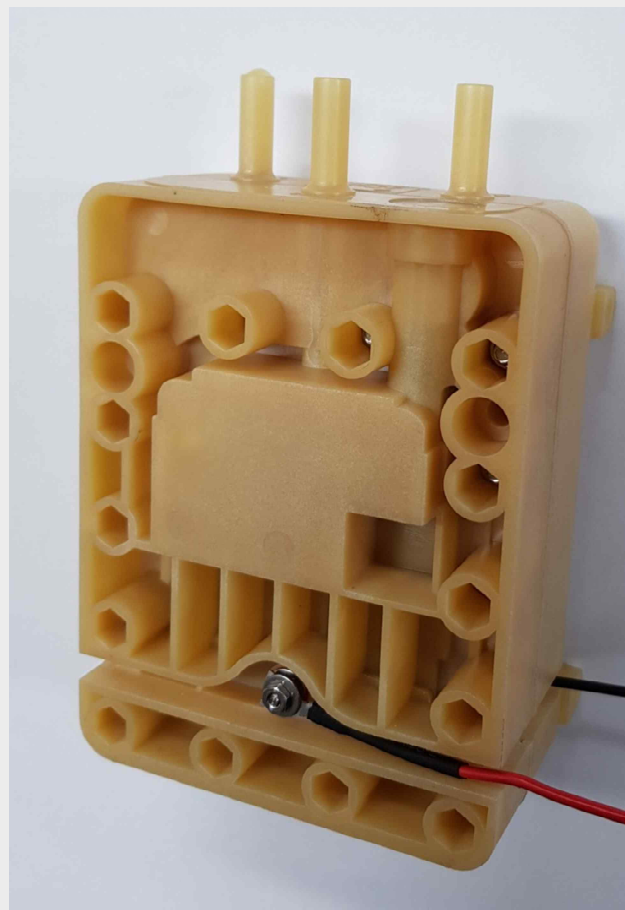
Dissolution cell equipped to optimize flow control and concentration control according to the user's hydraulic environment
- ▶ Anode water supply system that separates the hydrogen water production flow path and the electrolytic water supply flow path

Separate electrolytic water supply system that maintains the potential difference between electrodes for continuous operation for a long time

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# Electrolysis device composition

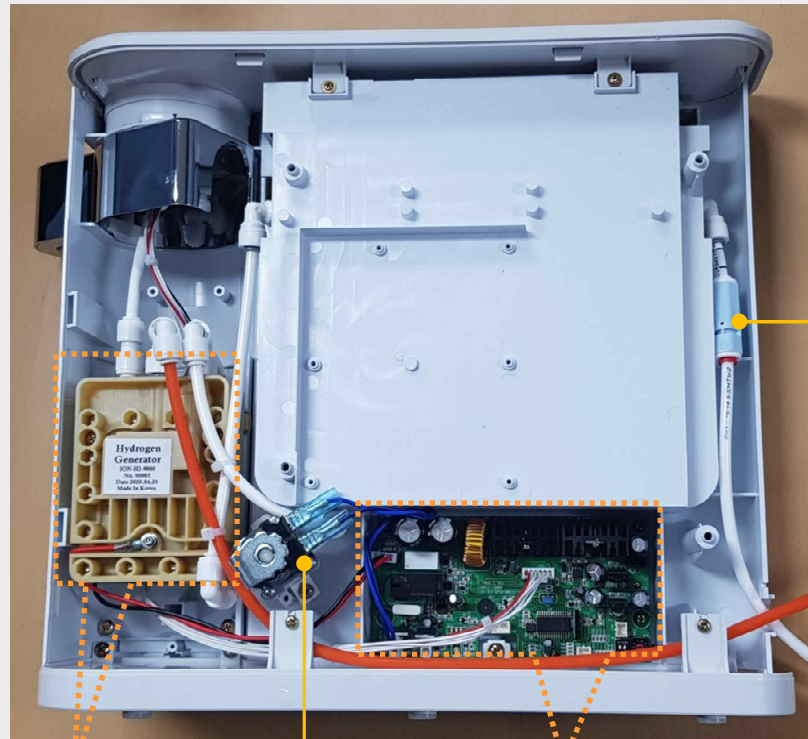


Parts	Spec	Quantity
Electrode (+,-)	Ti+Pt , Mash (50*60mm)	2
Membrane	Nafion-N117 (60*70mm)	1
Body	All Noryl	
O-Ring	All Silicon	

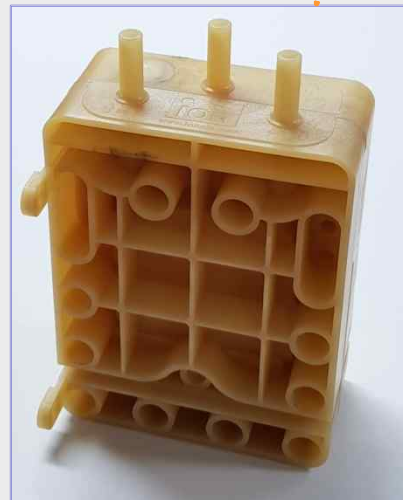


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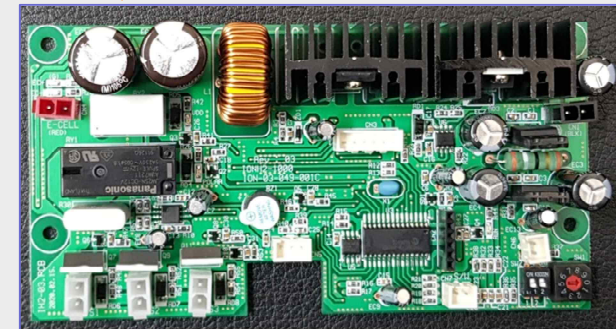
## IN Side



Pressure reducing valve



Hydrogen electrolysis module



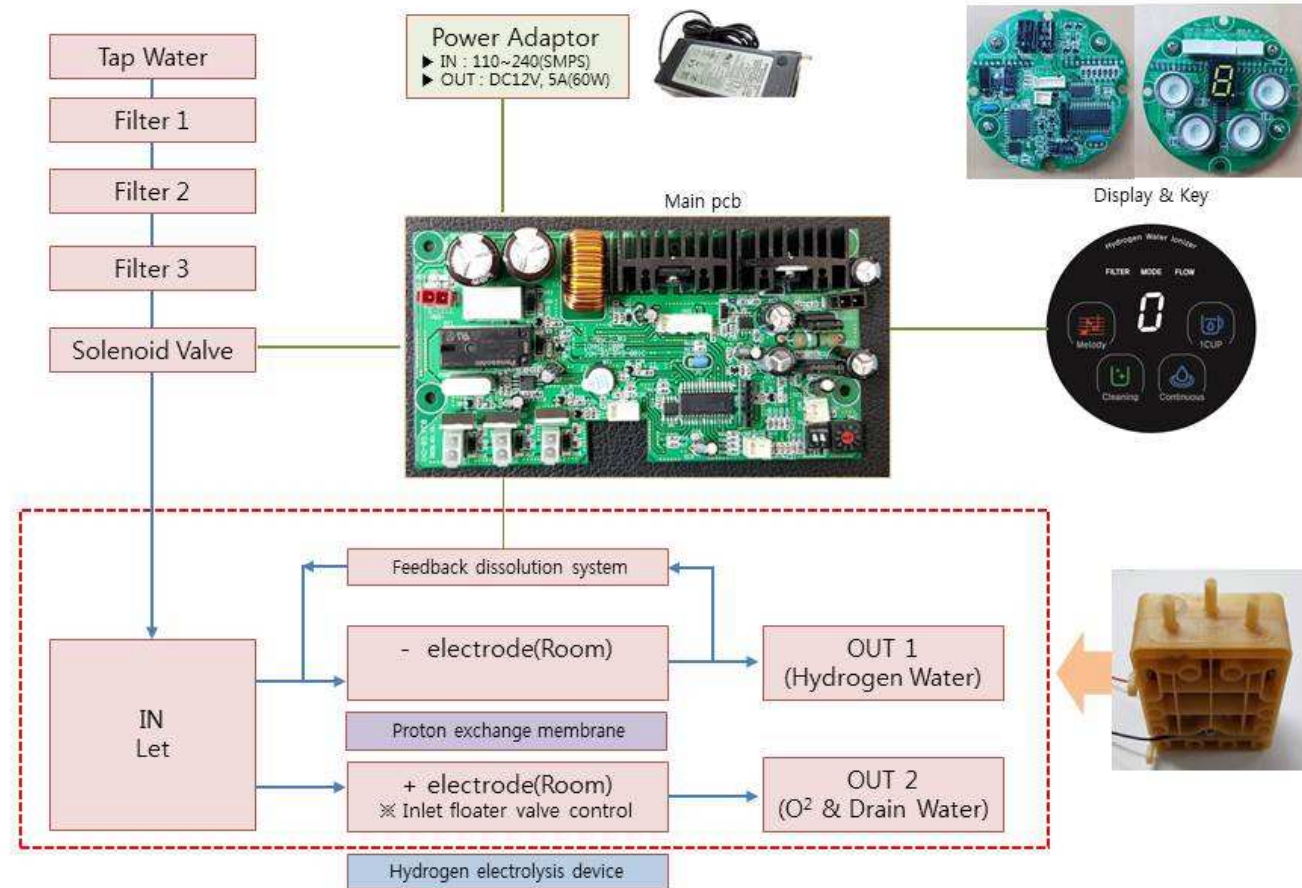
Main Control PCB

Solenoid valve

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# Flow System

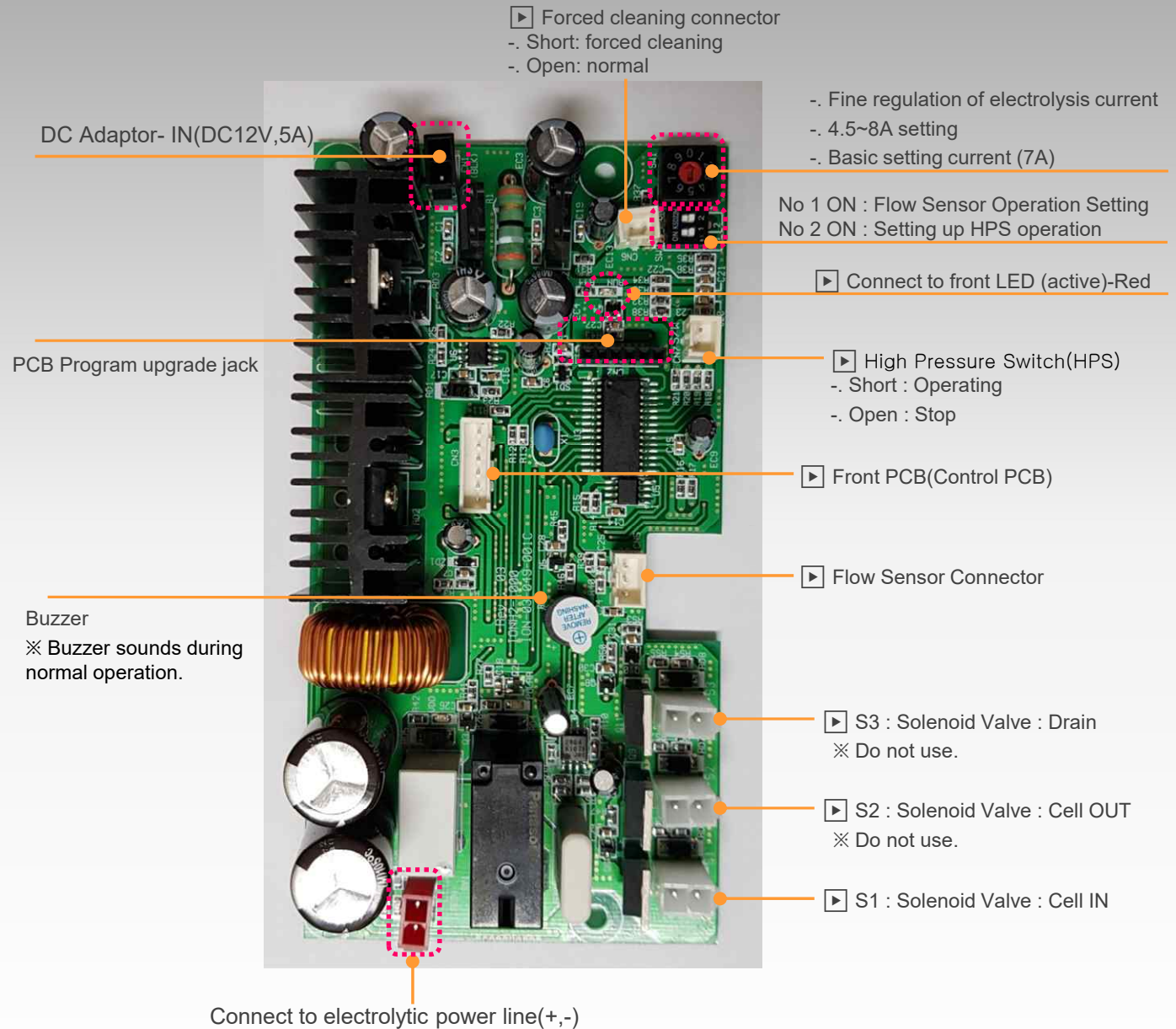
## ■ Hydrogen electrolytic cell configuration



※ For detailed control, please refer to the separate administrator manual.

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# Main PCB Wire Connection Guide

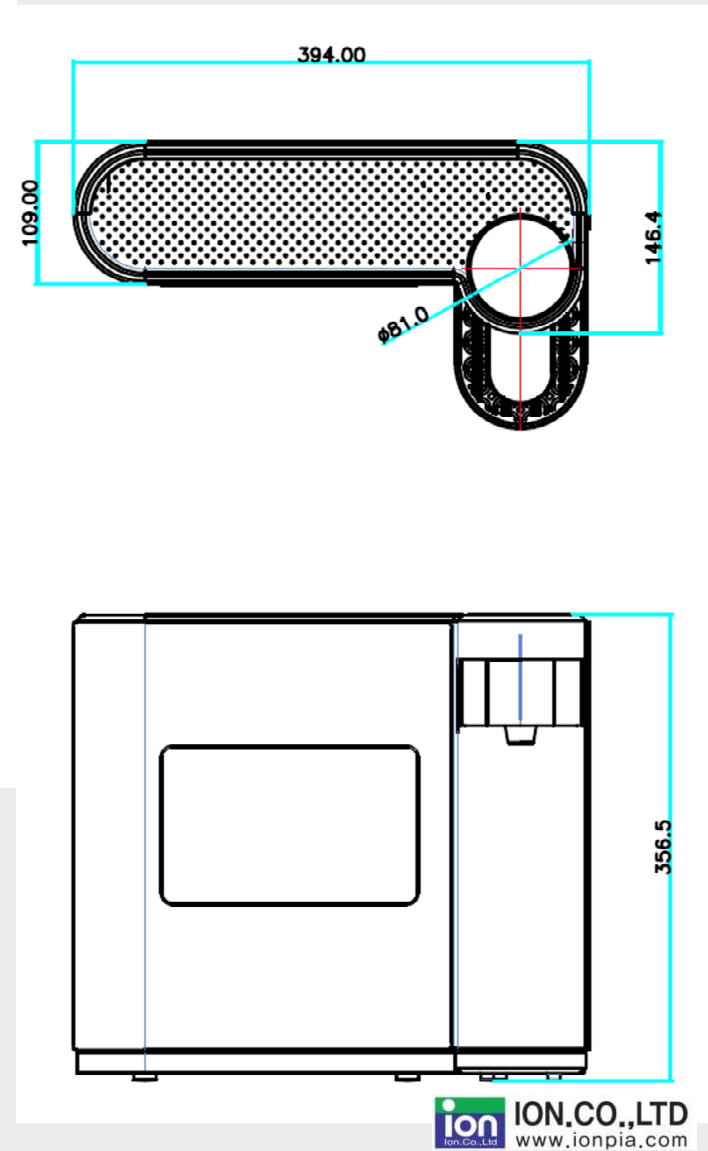
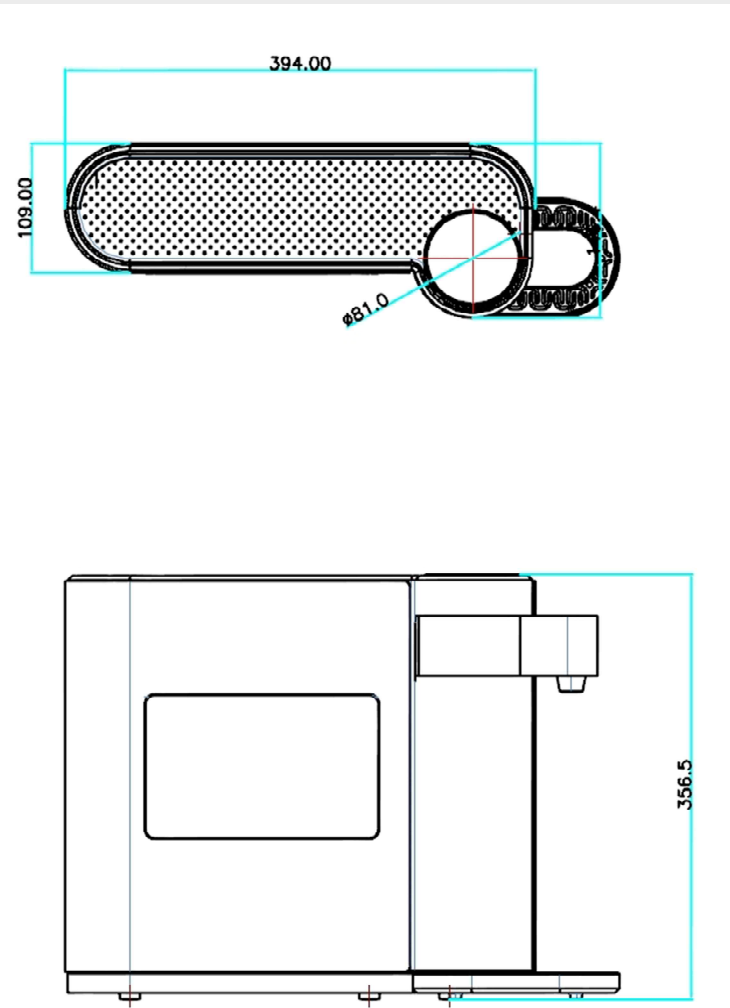


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All new hydrogen module System



## Size



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