



THE NEW **SM-2F9** 7" TFT LCD

- DARC SYSTEM : Automatic change of flow path (6 Overseas Patents)
- 7inch TFT Display 800*480 Pixels with LCD backlight and Touch Panel
- 350W SMPS Power Control System
- RFID Genuine filter chip



9P Platinum-Titanium Plates



7" TFT Display



350W SMPS

IONIA

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Key Features



✓ High Quality of Ionized Water

The core part that determines the performance of the ionizer is an electrode. 9 Electrode Plates are applied to SM-2F9 to provide High Quality of Ionized Water.

✓ Enhanced Cleaning Technology

Double Automatic Reverse Cleaning(DARC) is applied for delicate maintenance. Patented Technology cleans chamber and electrodes both to remove sediments.

✓ One-Touch Colorful Display

Touch Panel Display maximizes User's Convenience. Just push GUI button to source Alkaline Water.

✓ Faucet Compatible

IO-600U Faucet can be joined to support 'Under-Sink'. Only Faucet is exposed, and Ionizer is placed under the sink to maximize space.

✓ Genuine Filter Authentication (Optional)

RFID Authentication System prevents foul or invalid filter from its operation. It promotes your filter sales in regular basis after selling products.

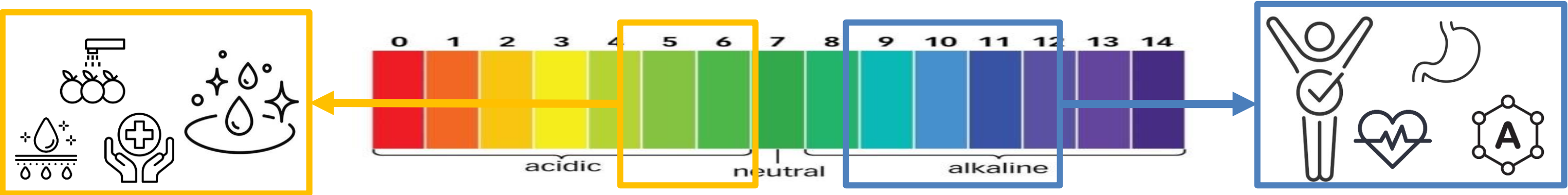


What is about Ionized Water?



1. pH

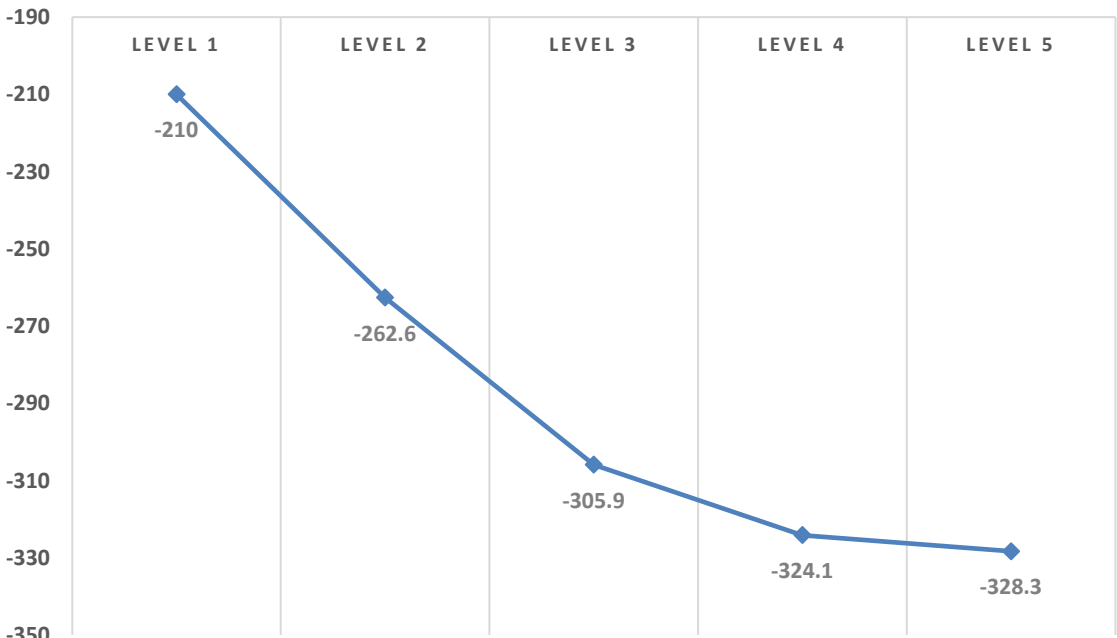
pH determines the property of water, how much Alkaline or Acidic Water is.



Acidic Water : Non-Drinkable Water for Specific Purpose
Washing, Skin Care, Medical Hygiene

Alkaline Water : Drinkable Water for Human Health
Indigestion, High Blood Pressure, Antioxygen

ORP



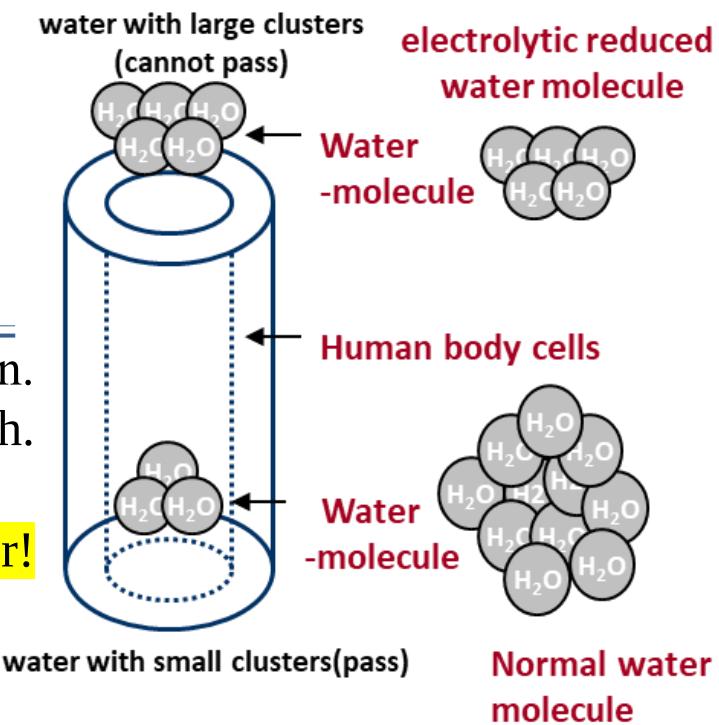
2. ORP

ORP is the tendency to lose or gain electron.
Alkaline ORP value of -150 to 300mV, to be **Anti-Oxidant**.

Key Point : ORP may show **different value even in same pH!**
► Metric Factor to **evaluate Performance of Water Ionizer**

3. Water Cluster

Water molecules' clusters are spilt in smaller group through electrolysis reaction.
User can drink more soft-taste water and feel better in his stomach.



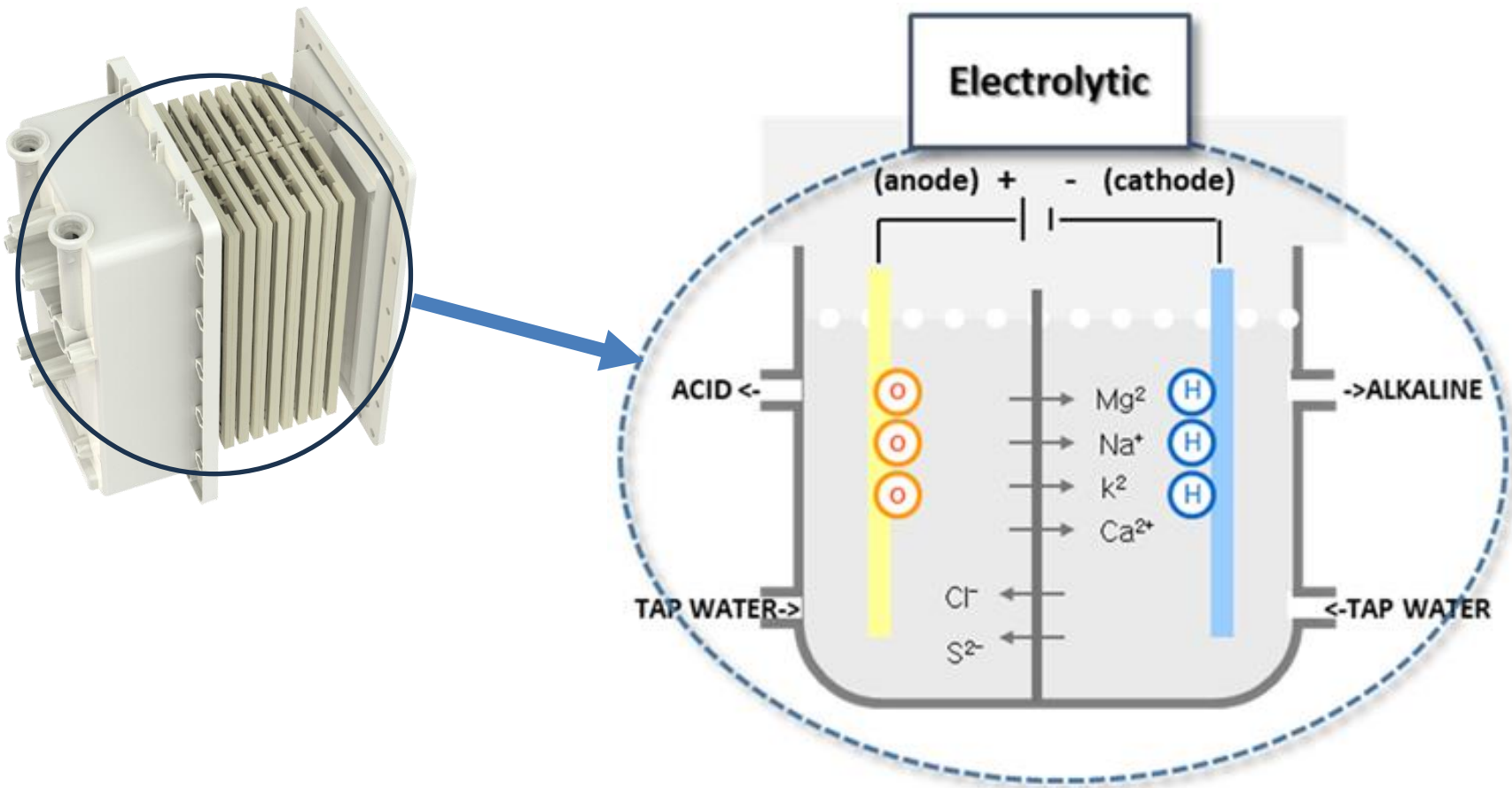
***Intuitive Experience- *Just Touch & Drink Actual Alkaline Water!**

High Quality of Ionized Water



To Generate Ionized Water...

- To generate Ionized water, Electrolysis Chamber does:
- (1) Separates carbonate from Alkaline Minerals.
 - (2) Alkaline and Acidic elements will take apart.
 - (3) Required ionized water is gained.

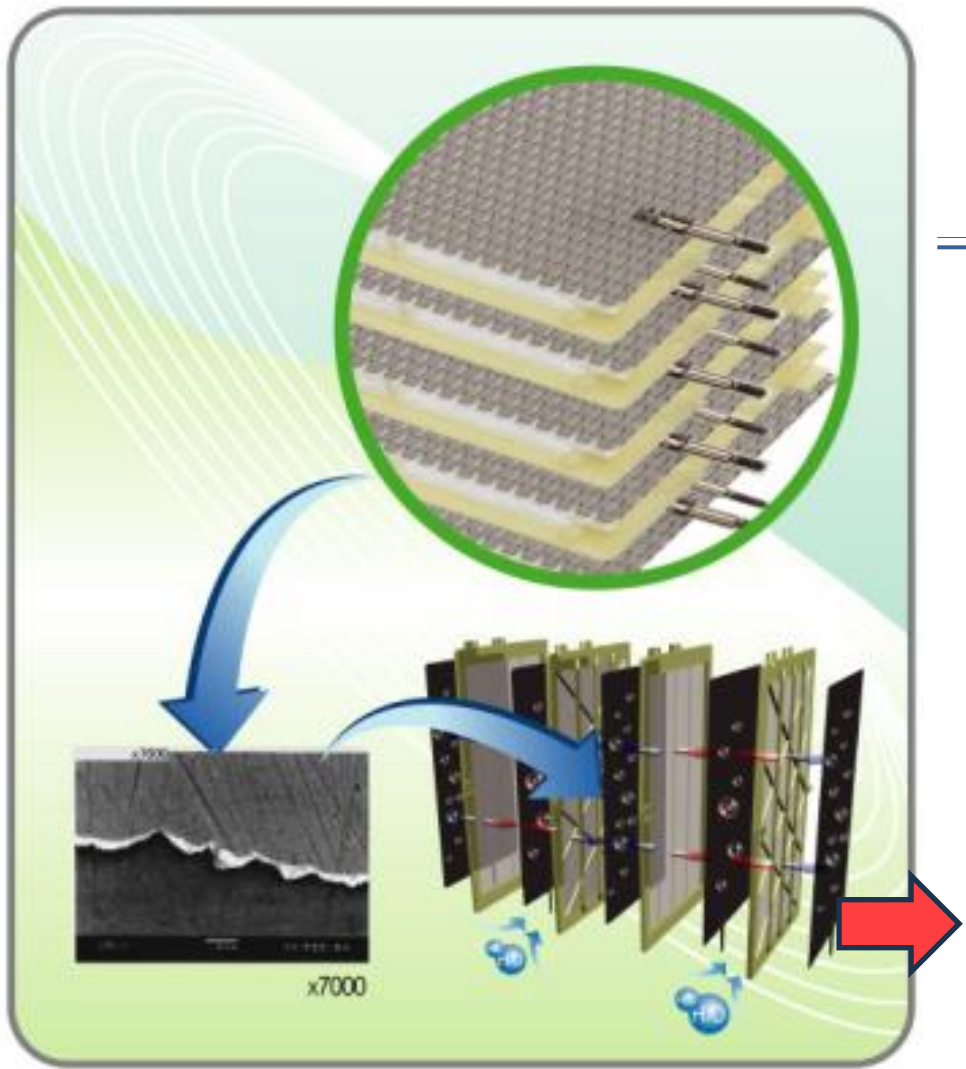


9 Plates Electrolysis Performance

SM-2F9 is accommodated with **total 9 Plates Electrolysis Chamber**. It provides **High Quality of Alkaline Water** than mere Alkaline Water.

LEVEL	POWER CONSUMPTION	pH		Dissolved Hydrogen (ppb)	
		5P	9P	5P	9P
LEVEL 1	39	9.12	9.4	159	297
LEVEL 2	44	9.38	9.5	241	332
LEVEL 3	60	9.88	9.8	345	400
LEVEL 4	87	10.23	10.2	434	465

Power Consumption & pH is same, but **Dissolved Hydrogen is different**. Other factors as **ORP, Water Clusters** also varies by **the Number of Plates**.



Joined Electrode Plate

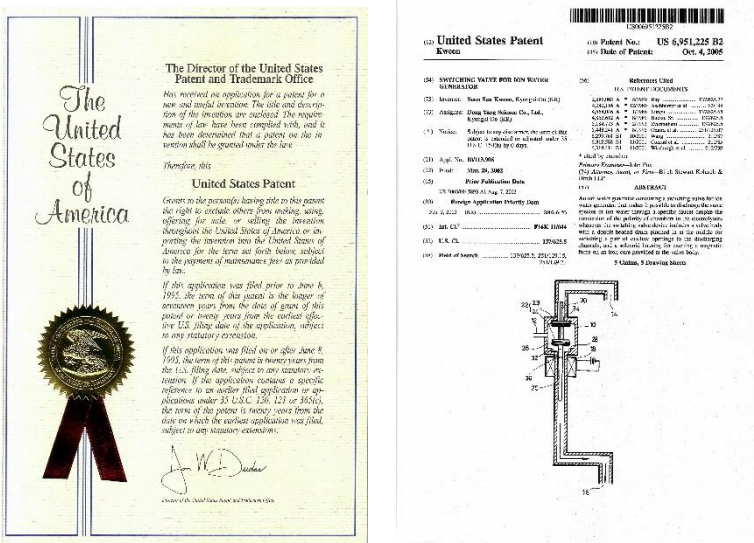
Enhanced Cleaning Technology



Double Automatic Reverse Cleaning (DARC)

Patented Technology allows to switch polarity of electrodes simultaneously at the same time,
Each node share both Alkaline and Acidic Water therefore to maximize lifespan of electrode.

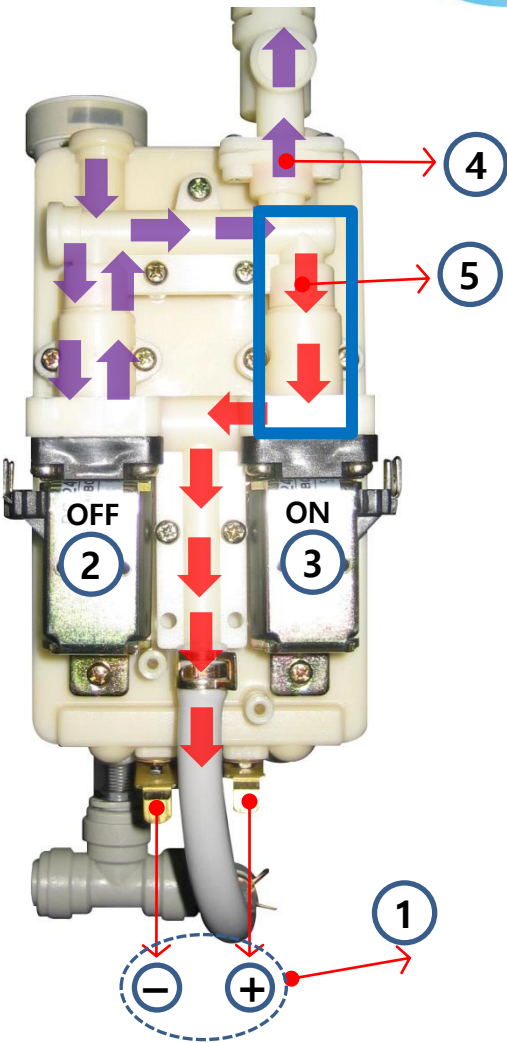
In addition to automatic cleaning procedure, DARC enables to maintain product in daily routine.



International Patents & Abstract

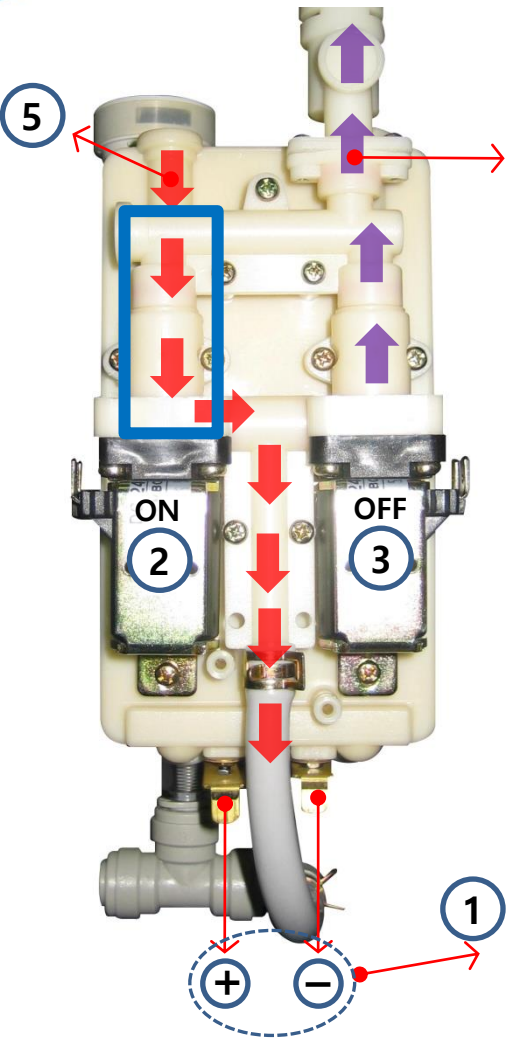
Phase A

- (1) Induce current to Plus & Minus terminal.
- (2) Left SOL is **closed to flow water.**
- (3) Right SOL is **open to drain water.**
- (4) Alkaline Water comes out.
- (5) Acidic Water drains off through other pipe.



Phase B

- (1) Induce current to Plus & Minus terminal.
- (2) Left SOL is **open to drain water.**
- (3) Right SOL is **closed to flow water.**
- (4) Alkaline Water comes out.
- (5) Acidic Water drains off through pipe.



Through Right Pipe and its Electrodes, Acidic water melts Calcium Build-Up, Scales and flushes out.  Through Left Pipe and its Electrodes, Acidic water melts Calcium Build-Up, Scales and flushes out.

One-Touch Colorful Display



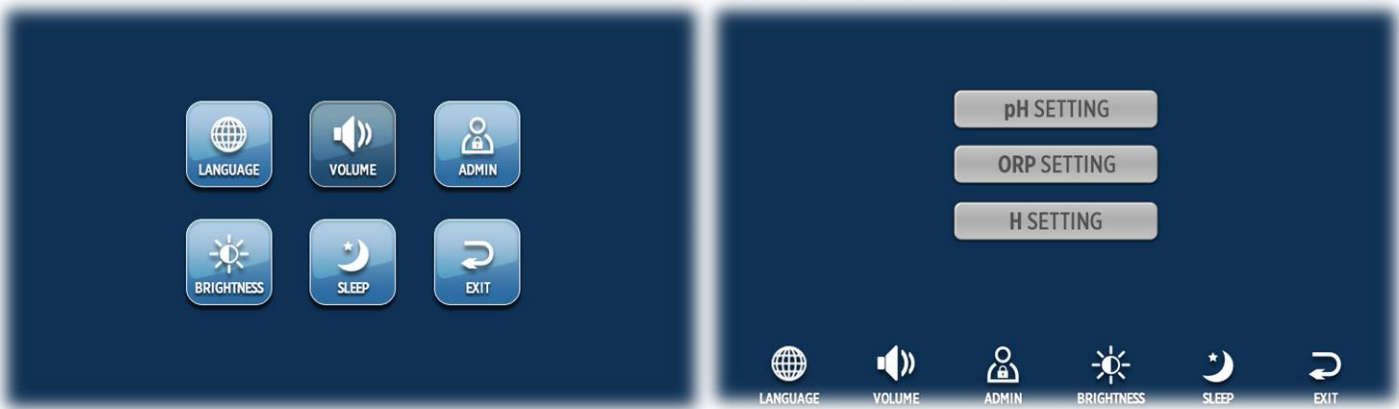
7 inch TFT LCD Touch Screen

TFT LCD Touch Screen allows more colorful and intuitive GUI icon. User can source required water in one-touch, needless to say an extra maneuver.



Handy & Intuitive Interface

Thanks to configuration in software level, User can have every detail in a single display. Intuitive graphic icon will allow user to operate, without manual reading in intensive.



S/W Customization

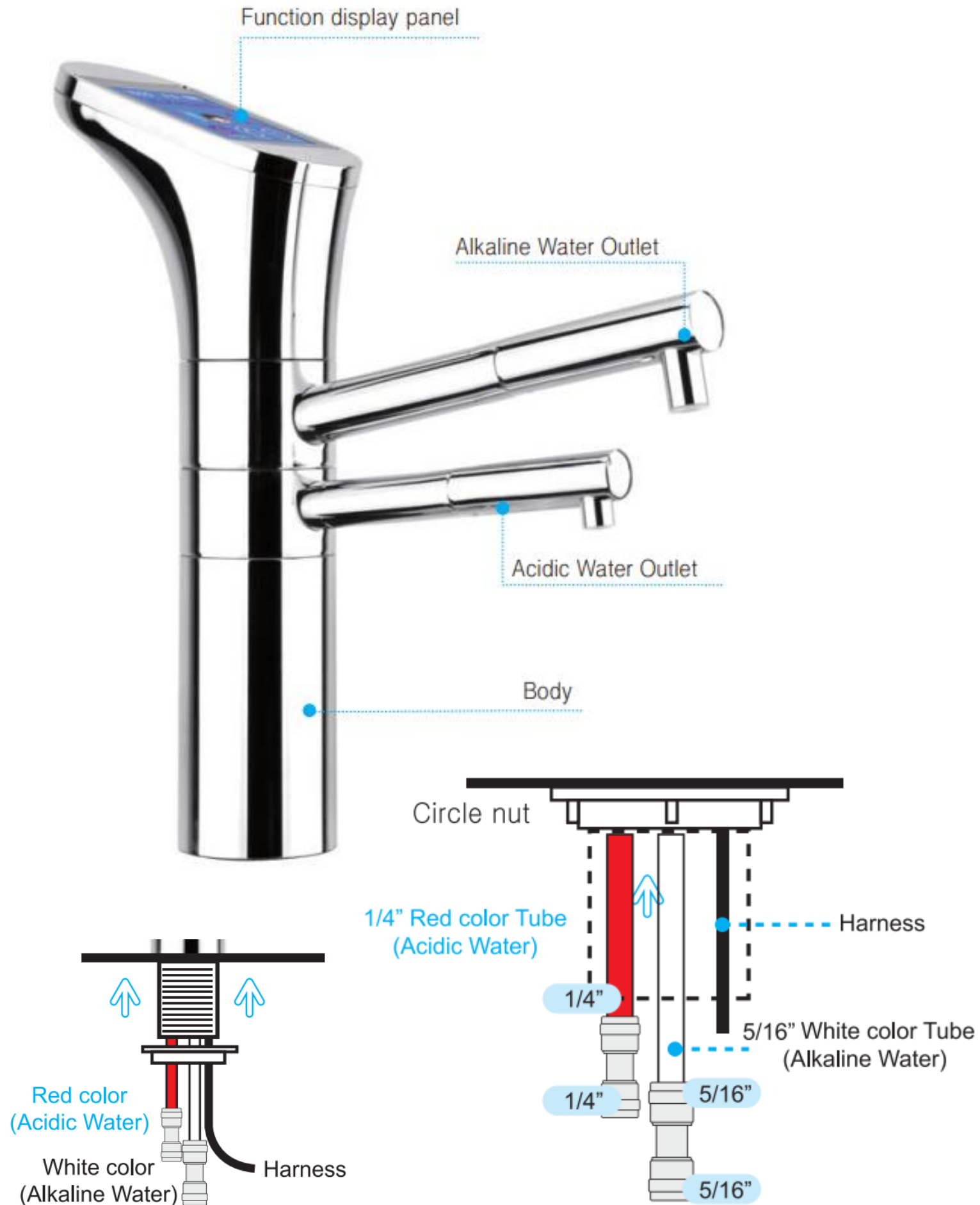
Customize information shown in software in your business detail. Company brand, service contact and other information can be added.



 Company Logo
Service Contact
Company Website ., etc



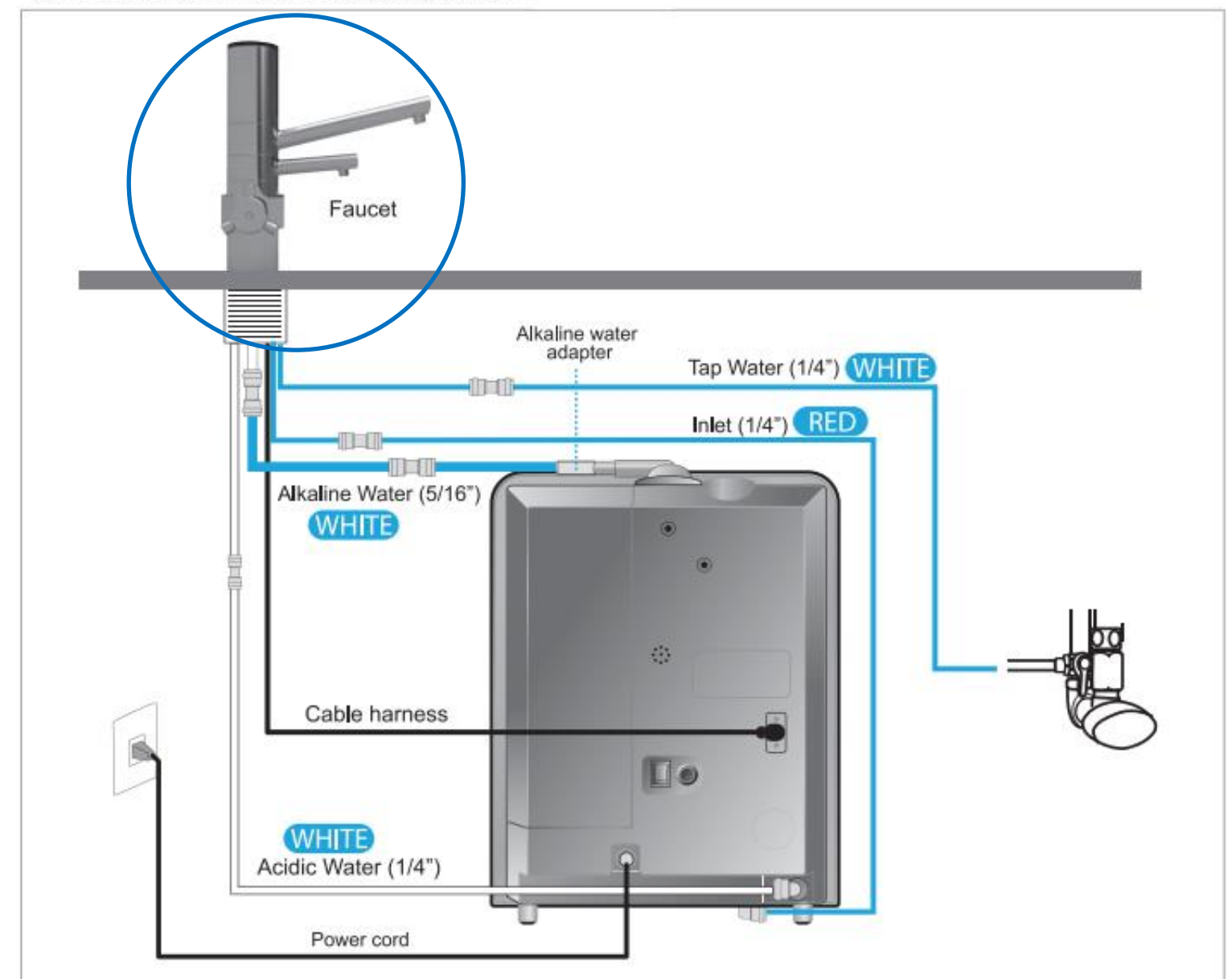
Faucet Compatible



Undersink - Faucet Joint

It supports Ionizer in Undersink Mode **where only faucet is exposed.** User can save kitchen space and utilize 180° rotatable faucet. You may consider extra sales via accessory, more than mere Ionizers.

Undersink Installation



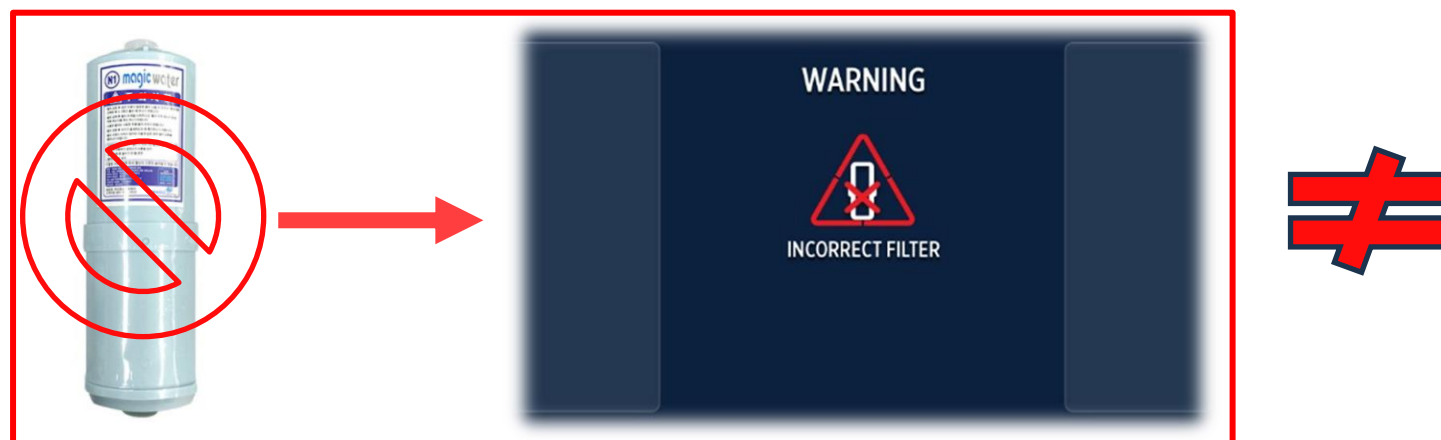
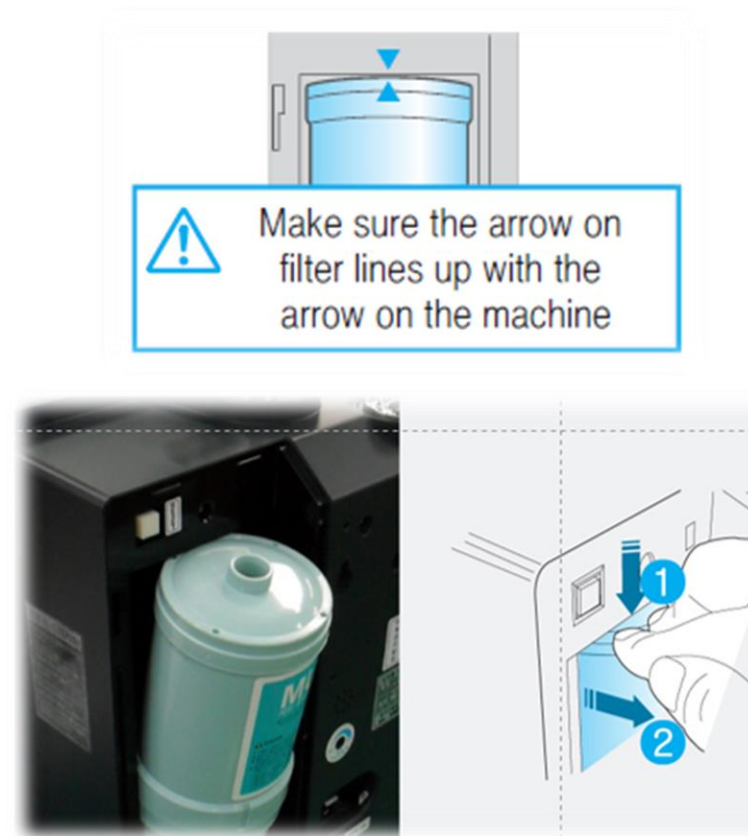
Genuine Filter Authentication (Optional)



RFID Authentication System

To protect customers from foul & invalid filter, RFID Authentication System can be built. Internal RFID Reader will scan for its unique ID, **calling off invalid filter for his use.** Strongly recommendable for user's safety and **after-sales on regular basis.**

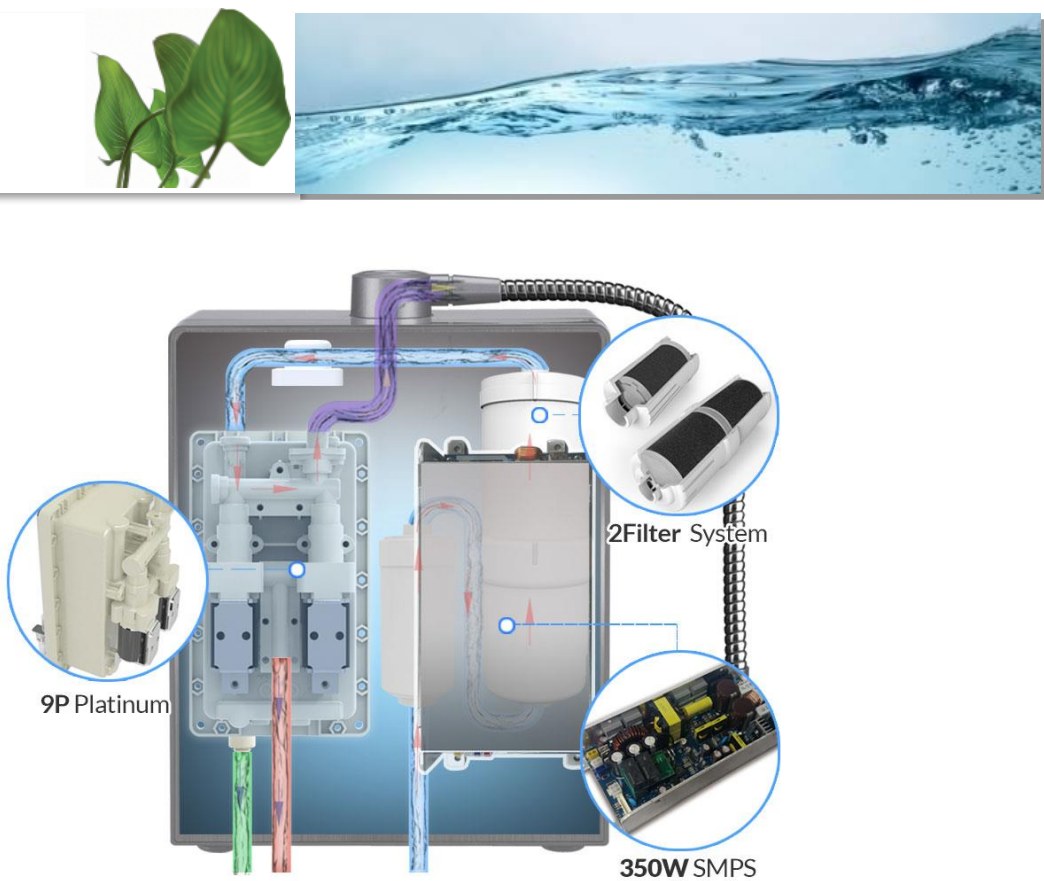
*Note: This function is optional, can be modified as per your choice.



Position

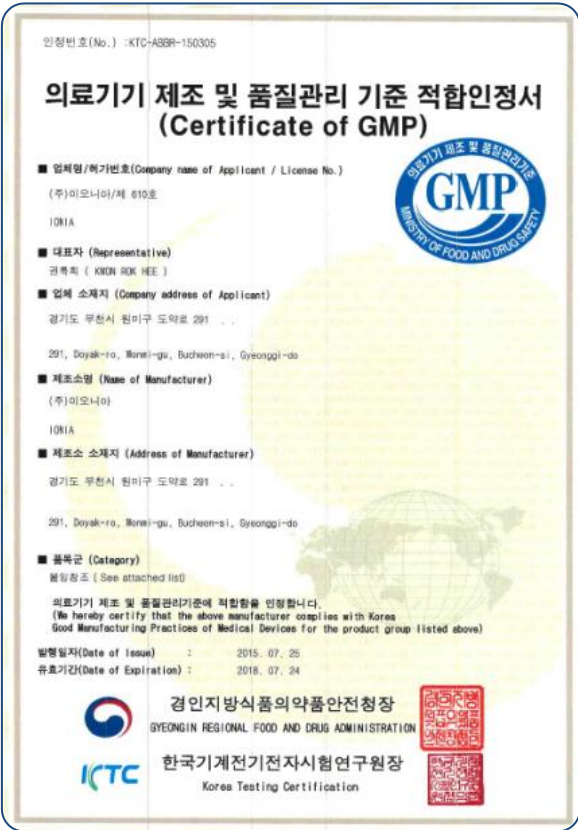
SM-2F9 is designed to be **Premium Brand, for customers in high-purchasing power.** It focuses various properties as Design, Performance, User convenience and Reliability.

You may consider extra sales with accessories, and continuous filters sales via RFID. Formed market retail price, which is strongly recommended, is 2,500 – 3,000\$.

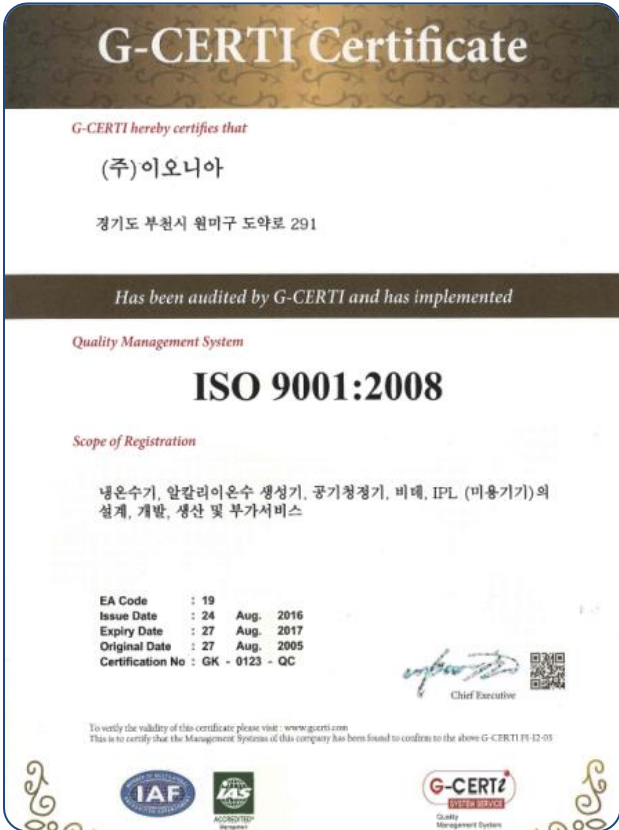


CATEGORY	CONTENTS
POWER	SMPS
POWER CONSUMPTION	MAX 350W
DIMENSION	265X380X175 (WXHXD) MM
WEIGHT	APPX. 7KG
ELECTORDE	9 PLATES
MODE	ALKALINE 5 / ACIDIC 4 / FILTERD 1
CLEANING	DARC
PH VALUE	APPROX. 4.0-11
DISPLAY	TFT LCD 7 INCH
FILTER	1 MAIN + 1 SUB
FILTER INDICATOR	LCD GRAPHIC DISPLAY

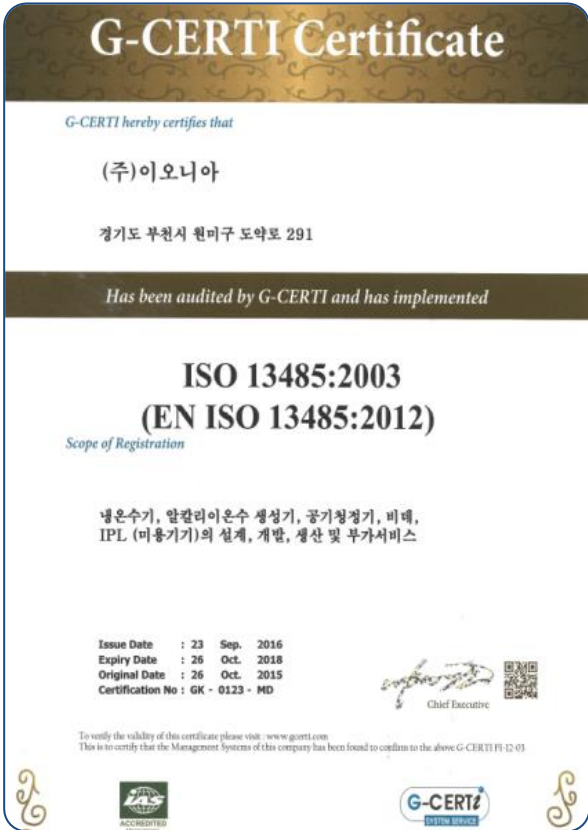
Certificate



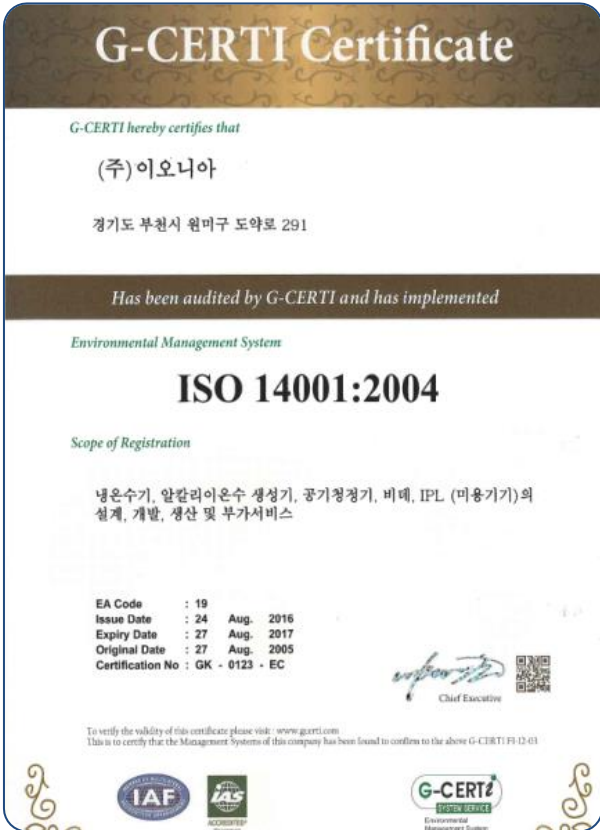
KGMP



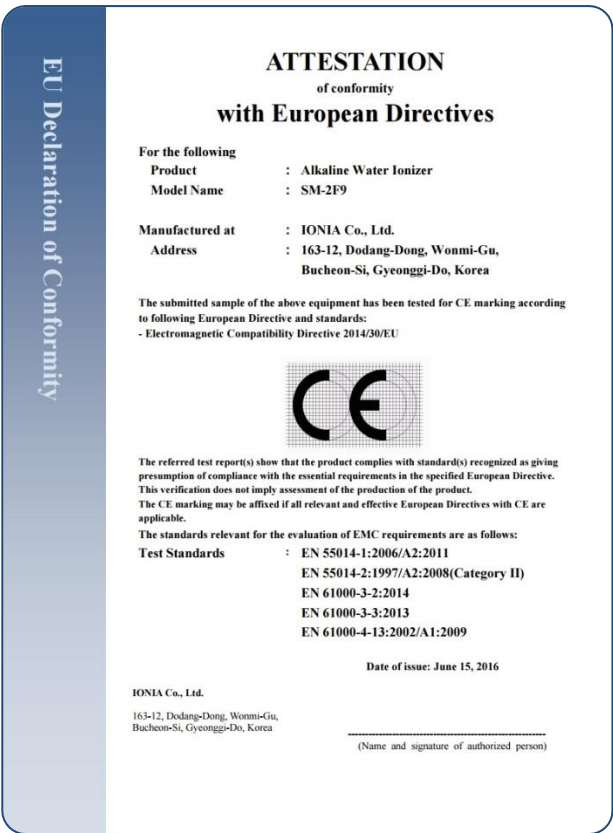
ISO9001



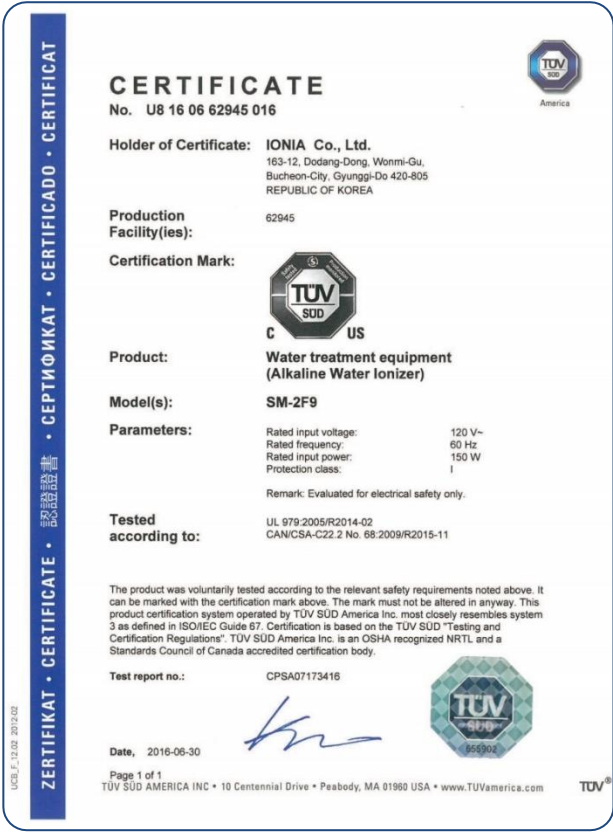
ISO14001



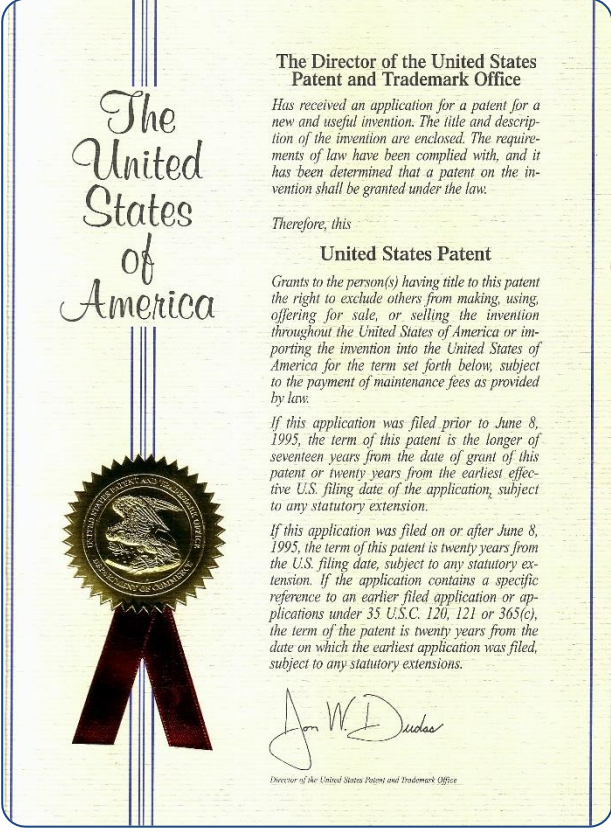
ISO14001



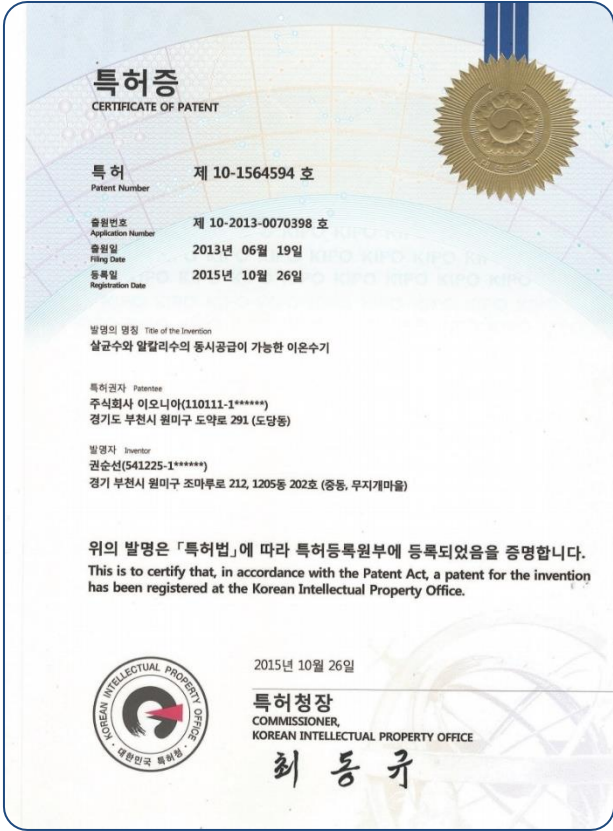
SM-2F9 CE



SM-2F9 NRTL



DARC PATENT



WATER IONIZER PATENT