

User Guide

NRA Alkalizer Perfection



Developed and distributed by :

NRA ALKALIZERS SDN BHD (748846-H)

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Preface

Congratulations and thank you for purchasing our latest and most sophisticated Alkaline Ionic Water Ionizer - NRA Alkalizer, model **Perfection**. Alkaline ionic water processed by NRA Alkalizer, model Perfection has therapeutic effect in human body as it has valuable properties as follows:

- (1) Rich in active hydrogen ions (H_2), (H) , (H^-) ;
- (2) Super anti-oxidant loaded with negative ions;
- (3) Five times more oxygen content than normal water;
- (4) Alkaline ionic water at pH 10 to restore right pH in our body;
- (5) Ionic minerals for easy absorption by our body; and
- (6) 6 water molecules in a cluster structured in hexagonal shape.

NRA Alkalizers, model Perfection from NRA Alkalizers Sdn Bhd are manufactured in Taiwan by using the latest Japanese, Korean, Taiwanese technologies. Being a member of NRA Group of Companies, NRA Alkalizers Sdn Bhd has been focusing solely in ionizer distribution and development since its inception in 1994. It is the longest serving company in water ionization industry in Malaysia, Singapore, Brunei and Indonesia.

Providing prompt and reliable services are our primary objectives to all customers. Should any customer require an enquiry or clarification, please feel free to contact us.

Thank you.

NRA Alkalizers Sdn Bhd

1. NRA Alkalizer: Perfection and its components



NRA Alkalizer : Perfection



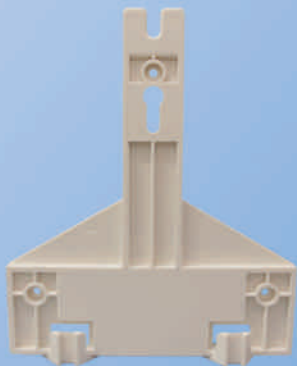
Activated Carbon Filter (ACF) inside the machine



Antibac Submicron Filter (ASF)



Round Base Bracket or Wall Bracket



Machine Hanger



Alkaline Ionic Water Outlet Hose



Flexible Hose



Hose Pins



Screws and Clips

Machine Hook



L-shape Connector

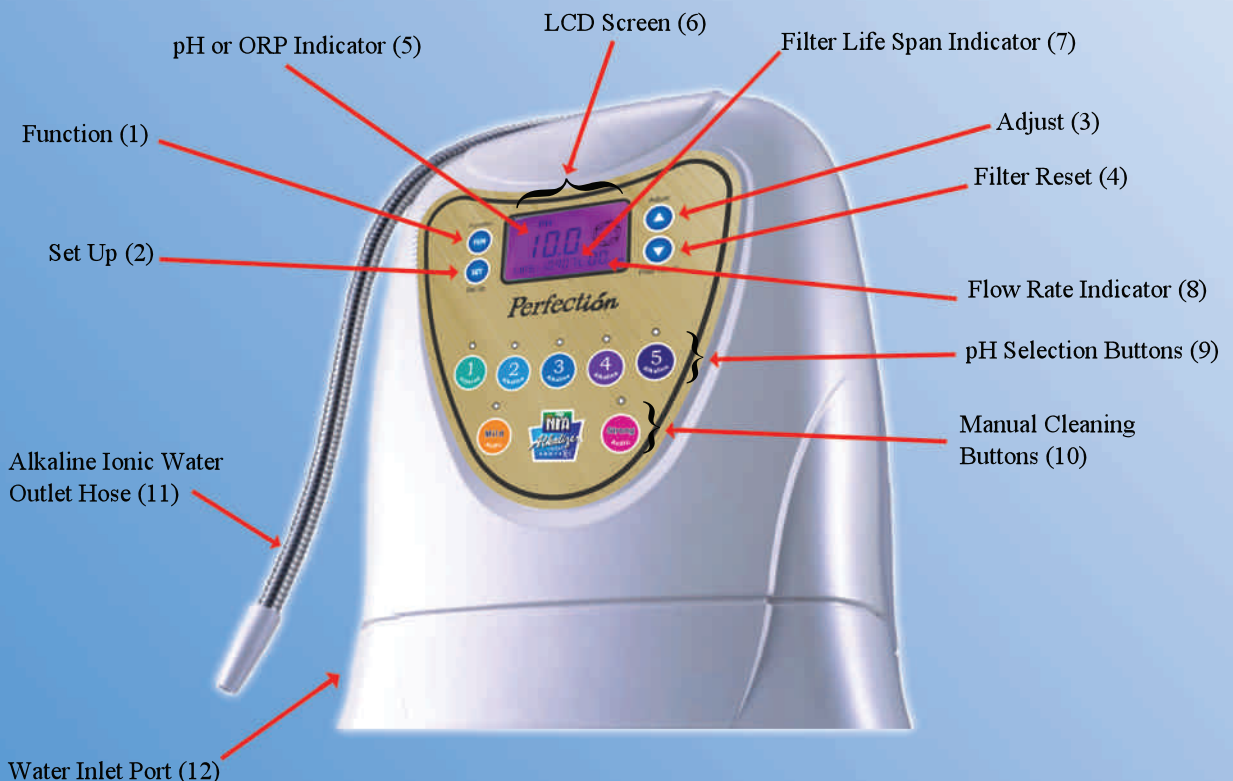


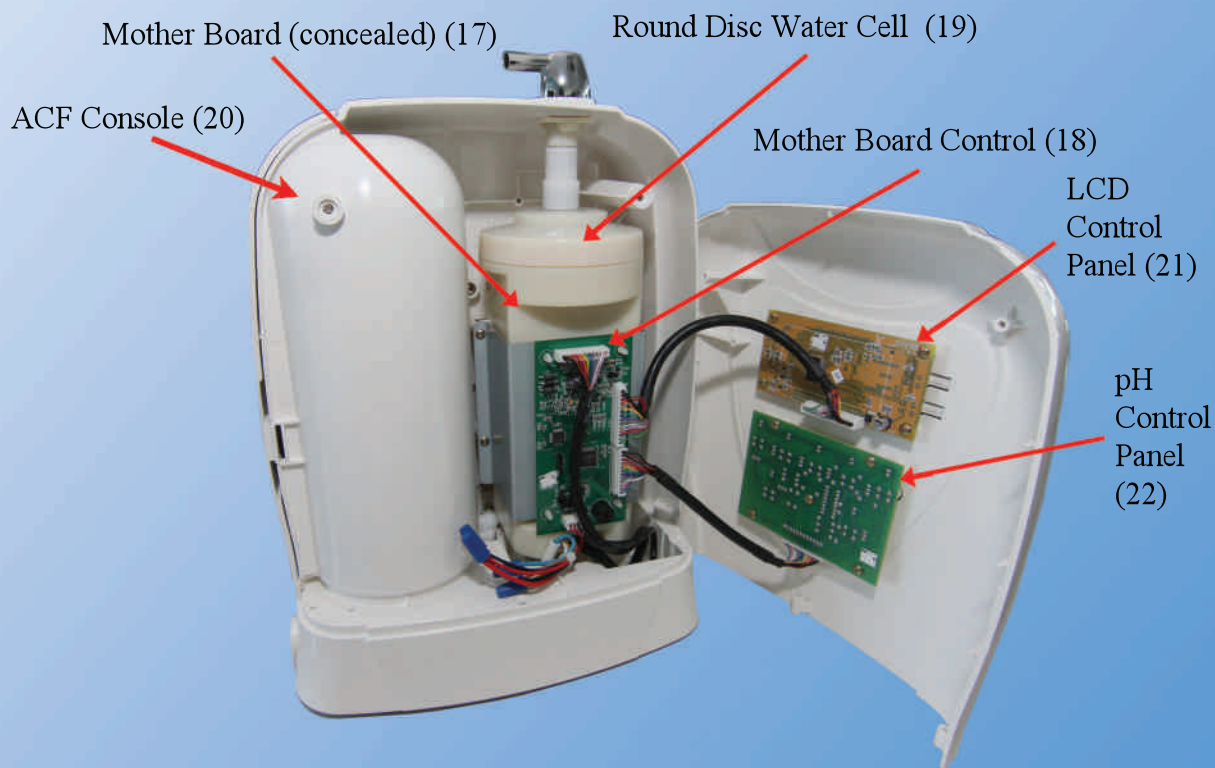
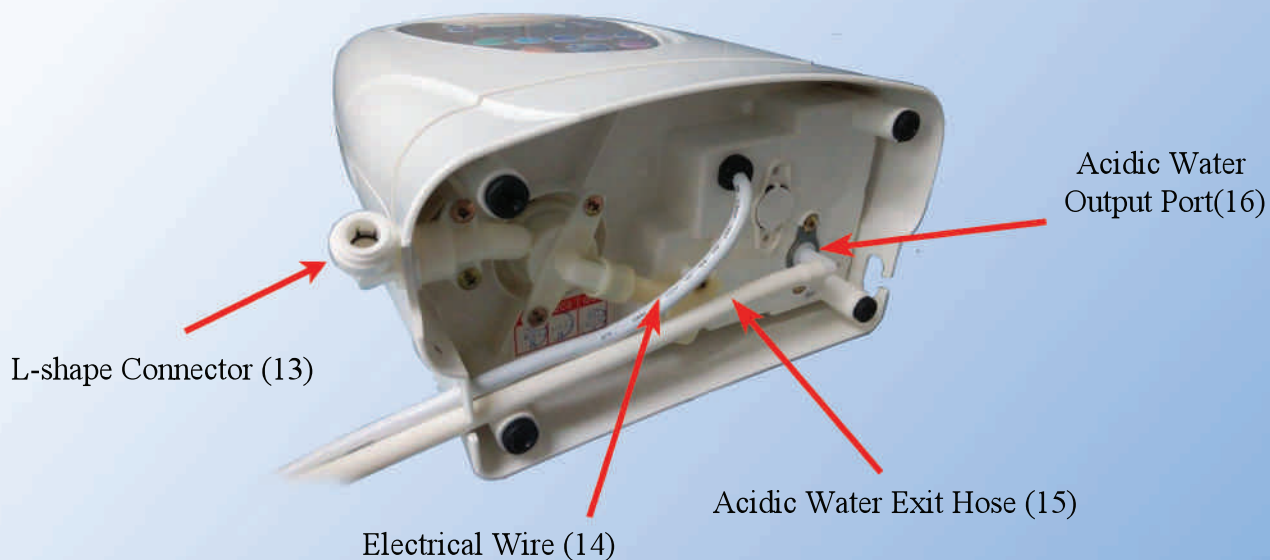
Tap Diverter

2. Specifications Of NRA Alkalizer: Perfection

1	Voltage	AC-110 / AC 240
2	Electricity	DC-2A ~ 6A
3	Electrolysis Chamber	round-disc, non membrane
4	Water Cells Durability	< 10,000 hours
5	Source Water	treated municipal water
6	Power consumption	100 ~ 200W
7	Dimesion	315 x 275 x 140 mm (H x L x W)
8	ORP level	+500mV ~ -400mV
9	Electronic wire	1.5 meter
10	Electrical fuse	4A
11	Filtration capacity (carbon ACF)	16,000 liters
12	Chlorine removal	< 0.0001 ppm
13	Water Pressure	minimum 1.6 liters per minute
14	Water Temperature	4°C to 39°C
15	Cleaning of water cell	not required
16	Cleaning of Outlet Hose	Automatic

3. Features of NRA Alkalizer and its function





Serial	Feature	Function
1	Function	The buttons are used to reprogram the operation of the Alkalizer and are for NRA technician use only
2	Set Up	
3	Adjust	
4	Filter Reset	
5	pH or ORP Indicator	To indicate the level of pH and ORP while processing
6	LCD Screen	Display data information
7	Filter Life Span Indicator	Indicator for changing of Activated Carbon Filter (ACF)
8	Flow Rate Indicator	To detect the water pressure in the NRA Alkalizer
9	pH or ORP Selection Button	
	1	To collect clean filtered water
	2	To collect water at pH 8.5
	3	To collect water at pH 9.0
	4	To collect water at pH 9.5
	5	To collect water at pH 10.0
10	Manual Cleaning Button	To press these buttons for extra cleaning if auto-cleaning is insufficient
11	Alkaline Ionic Water Outlet Hose	Made of stainless steel where alkaline ionic water is collected
12	Water Inlet Port	Port for insertion of L-shape connector
13	L-shape Connector	Inlet port for insertion of flexible hose for channeling water into the NRA Alkalizer
14	Electrical Wire	Cable for electrical supply
15	Acidic Ionic Water Exit Hose	To collect acidic water for external use
16	Acidic Water Output Port	Where flexible hose is connected for collection of acidic water
17	Mother Board	For operation and control of NRA Alkalizer
18	Mother Board Control	
19	Round Disc Water Cell	Ionizing minerals through the process of electrolysis
20	ACF Console	For housing ACF
21	LCD Control Panel	Display data information
22	pH Control Panel	Selection of pH or ORP levels

4. Supplementary equipment and parts on purchase

Name	Product	Usages
pH Tester		To test water pH
Seal Tape		To prevent water leakage between joints
Faucet Double Locker		Connecting water faucet and tap diverter
T-joint Connector		For direct piping from water source to NRA Alkalizer
Under-Counter Tap Set		For installation of NRA Alkalizer under kitchen cabinet

5. Installation of NRA Alkalizer : Perfection

5.1.0 Connecting to source Water

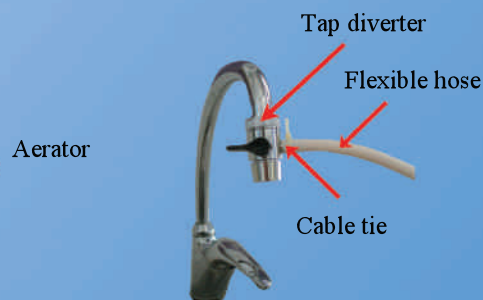
5.1.1 By using a Tap Diverter for Asian Water Tap



Asian Water Tap

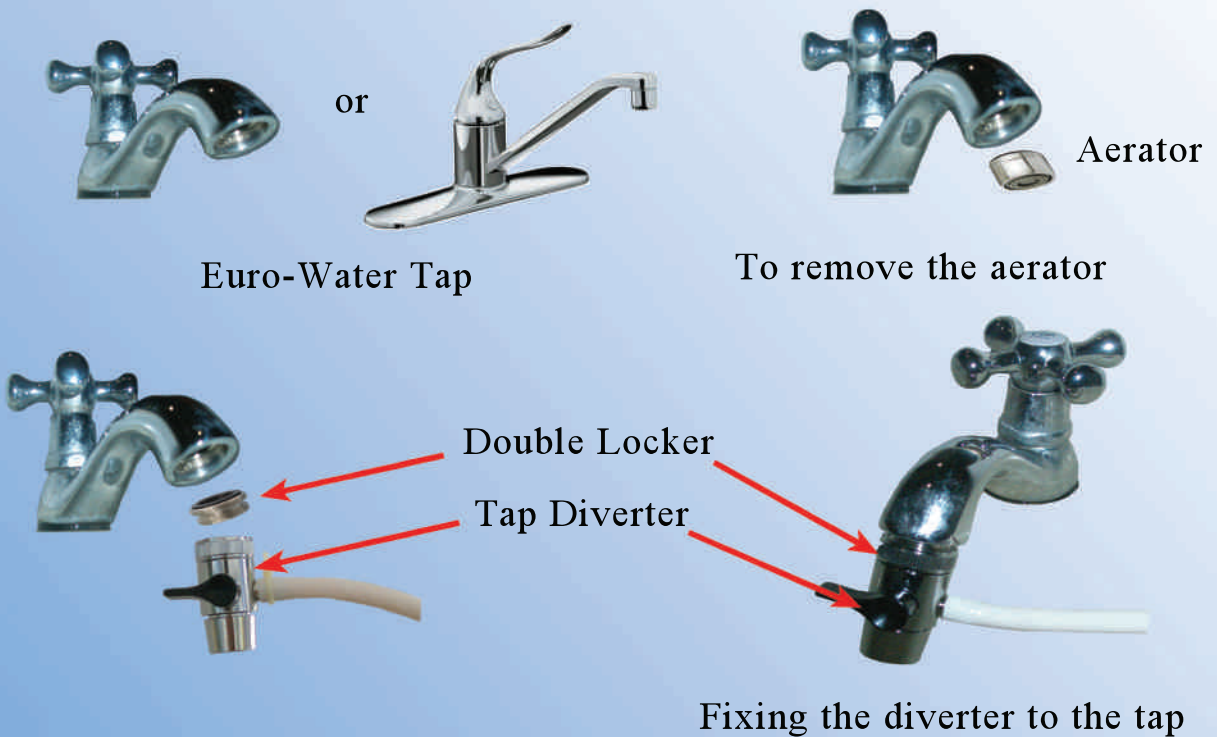


To remove the aerator

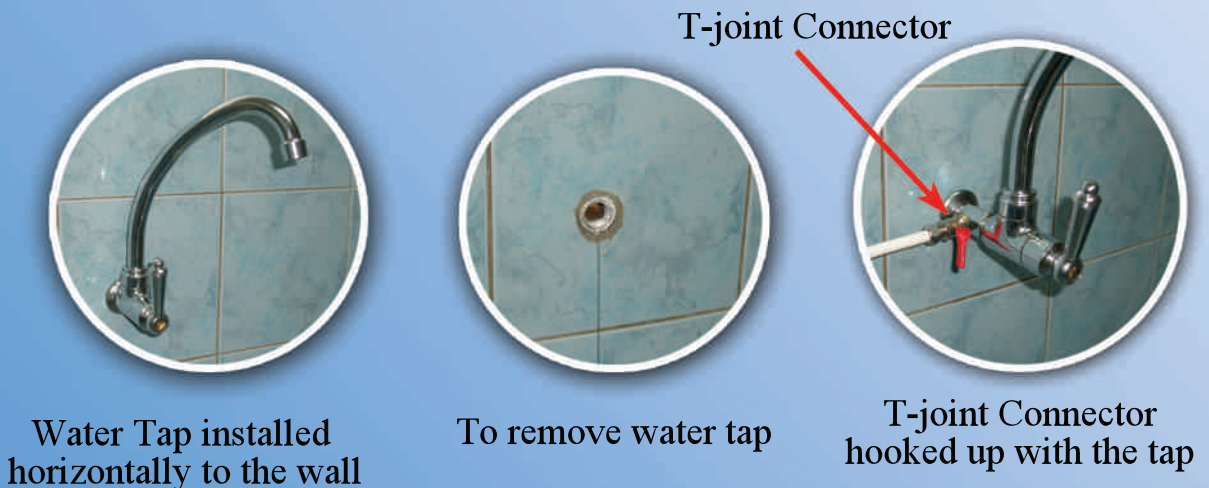


Fixing the diverter to the tap

5.1.2 By using a Tap Diverter and a Double Locker for Euro-Water Tap

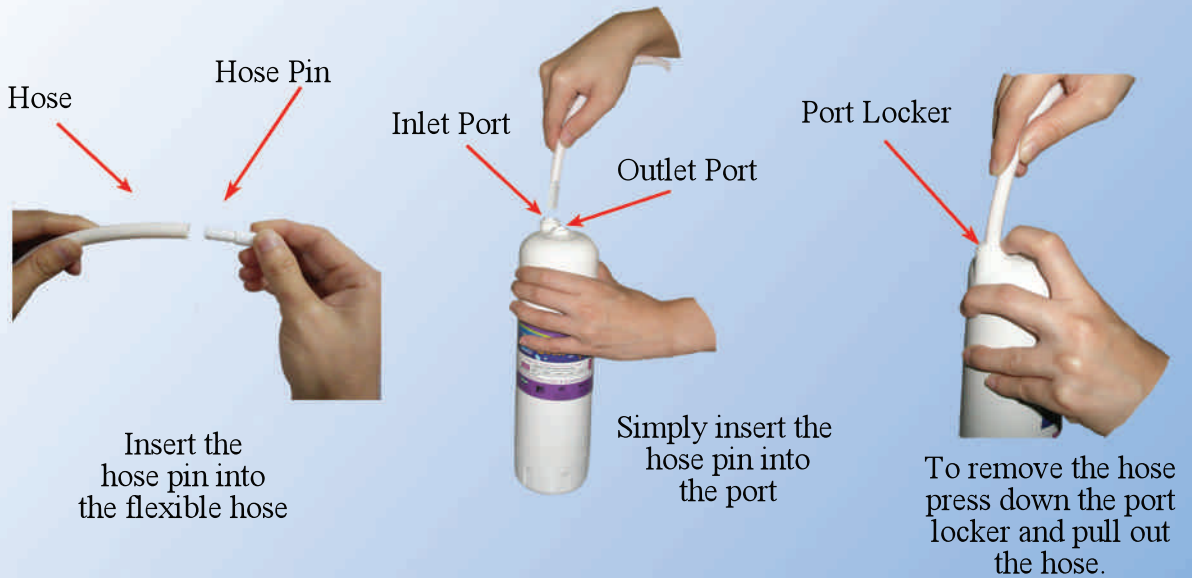


5.1.3 By using a T-joint Connector



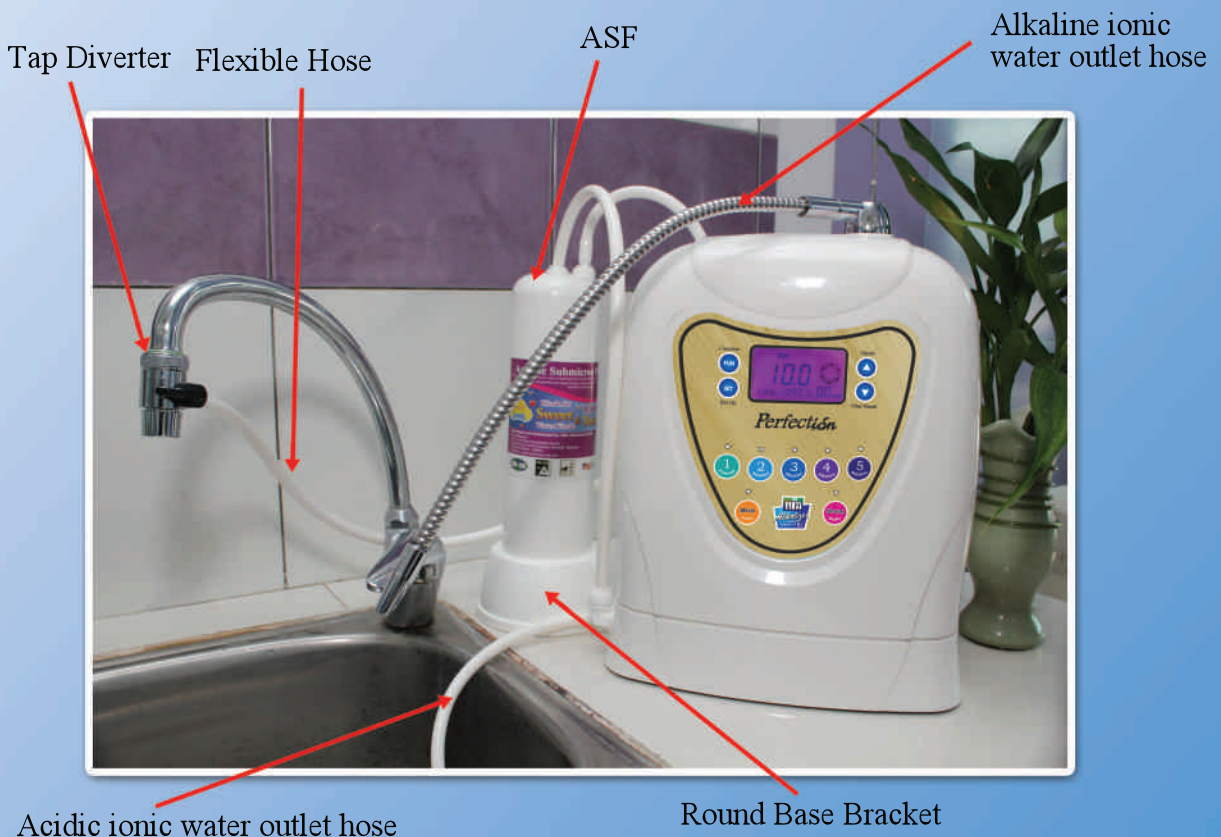
T-joint connector can only be used if the original water tap is installed horizontally to the wall. For installation, take out the water tap and hook it up with the T-joint connector and then reinstall it back.

5.2.0 Connecting flexible hose to Antibac Submicron Filter

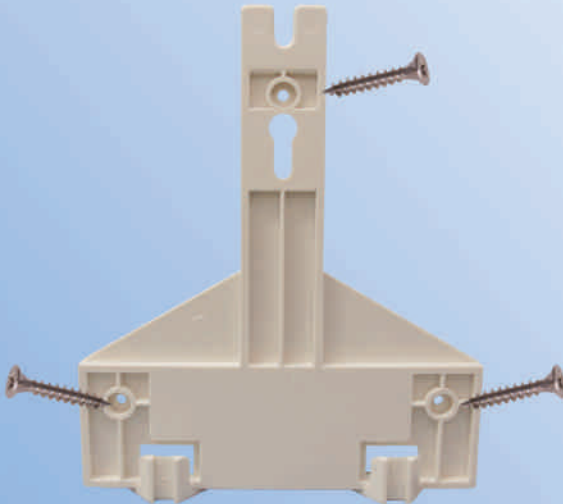


5.3.0 Channeling Water into NRA Alkalizer and ASF

5.3.1 By placing on the top of kitchen cabinet



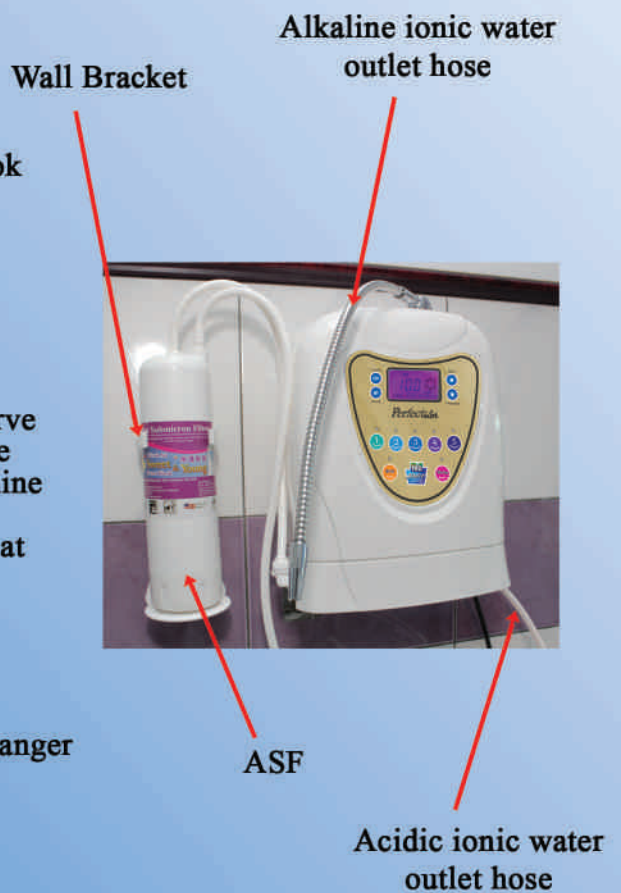
5.3.2 By hanging onto the kitchen wall



Screw the machine hanger and the wall bracket onto the wall



Rear elevation of
NRA Alkalizer



5.3.3 By installing under the kitchen cupboard



Acidic ionic water outlet

Water outlet

Water inlet

Alkaline ionic water outlet

Under Counter Tap

Alkaline ionic
water hose

Acidic ionic water hose

ASF

Round Base Bracket



Alkaline ionic water

Acidic ionic water



6. Cleaning the System before use

Once the NRA Alkalizer, model Perfection and its filtration system is successfully installed, it is advisable to let the water running through the system for about 3-5 minute for cleaning purpose before collecting the first cup of water for drinking. For most effective ionization of drinking water, keep the water flow rate at between 2 to 3 liters per minute.

7. Always drink at pH10

Global scientific and medical studies suggest drinking alkaline ionic water at pH 10 from the beginning to enjoy optimal health effect in human body. Few customers might experience some healing effects. These reactions should diminish within a few days. If these reactions have become too strong to bear, you may choose to start a gradual conditioning by drinking pH 8.5(button # 2)water for a week, going to pH9.0 (button # 3) for another week, then pH 9.5(button # 4)for a week, then graduate to pH10.0 (button # 5) for the entire household's drinking & cooking needs.

8. Testing of water quality

pH tester is used to determine the alkalinity of the water. Dip a drop of pH tester to different types of water. Different colours indicate different pH levels.



pH Tester



Filtered water
green colour



Acidic water
pink or yellow colour



Alkaline ionic water
purple colour

pH COLOUR CHART

(Use 0.2ml. of indicator in 10ml. of solution)



9. Bubbles in container

Effective ionization of water produces plenty of tiny water bubbles, which can be observed visibly by holding the transparent container against light, immediately upon collection of alkaline ionic water from the NRA Alkalizer, model Perfection. These tiny water bubbles will vanish shortly, turning the slightly milky water into crystal clear, refreshing health water.



10. Electrical current connection

NRA Alkalizer requires direct electrical current of 6 to 12 volts for its operation. NRA Alkalizer can be left plug-in to the electrical power supply for the whole day. It consumes very little power. In the event of going for a few days vacation, it is recommended to switch off the power supply for safety purpose.

11. Minerals deposit in the water container



The inner surfaces, specially the base of water container may be coated with a thin layer of sandy-like-substance after the container has been used to contain alkaline ionic water for a few weeks. This whitish or slightly brownish substance may roughen the surfaces of the container. This sandy-like-substance is actually minerals deposit resulting from reaction of carbon dioxide in the air and the ionic minerals present in water. These ionic minerals in the alkaline ionic water are **TOTALLY SAFE** to be consumed.

For maintenance, simply pour some food-grade vinegar into the said container. Let the vinegar come into contact with the mineral deposit for few hours, until the deposit is dissolved. Rinse the container with clean water. Repeat when necessary.

12. Maintenance of NRA Alkalizer: Perfection

Alkaline Ionic Water
Outlet Hose



12.1 Automatic cleaning

As NRA Alkalizer, model Perfection uses round disc for ionizing the water, there will be no minerals deposited in the round disc water cell. Hence, cleaning of water cell is not necessary. However, automatic cleaning is programmed to remove some mineral deposit in the alkaline ionic water outlet hose. The automatic cleaning is performed by signalling “beep...beep...” sound for about 40 seconds.



Round Disc
Non - Membrane
Water Cell



Before use
No minerals deposit



After use
Forever no
minerals deposit

12.2 Do not drink water from cleaning

While the NRA Alkalizer is cleaning, **do not collect the water for drinking.** However, the water flow out from both Acidic Hose and Alkaline Hose are clean filtered waters and can be collected for external use like washing.

13. Changing of filters



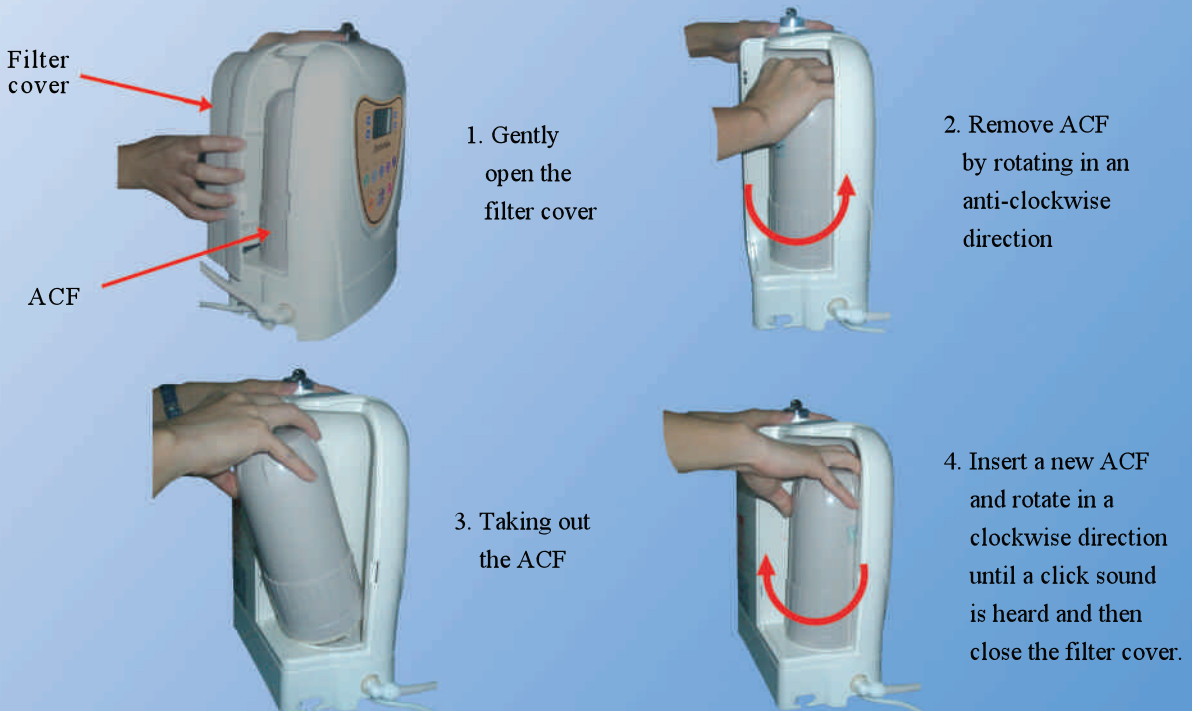
13.1 Changing of Antibac Submicron Filter (ASF)

When the flow rate indicator on LCD screen shows less than 1.6 liters per minute, the ASF is clogged up with sediment and it should be replaced with a new ASF. Alternately, it is also strongly advised to replace the ASF when it has been in use for 2 years as the filtered content may be undesirable to health.

13.2 Changing of Activated Carbon Filter (ACF)

The filter life span indicator is shown in the LCD screen. The ACF needs to be replaced when it has filtered 16,000 liters of water (countdown to 0 from 16,000) or completed 2 years from the date of last change, whichever comes first.

STEP of changing ACF as follows:-



13.3 Reset the Filter Life Span Indicator

When a new ACF is installed, the life span indicator needs to be reset by first switching on the electrical power supply (do not turn on the water tap). Then press the “FUN” button until the word “CLn” appears on the LCD screen; press the ‘Set up’ button once, and the word ‘CLn’ will blink, finally press the ‘Filter Reset’ button once, and the filter life span will appear back to 16,000 litres.

For every change of filter, it is recommended to let the water run through the system for about 3-5 minutes for cleaning purpose before collecting the first cup of water for drinking.

14. How NRA Alkalizer: Perfection works

NRA Alkalizer: Perfection consists of a Antibac Submicron Filter, ASF, with pore size of 0.2 micron and an ionizer with a built-in Activated Carbon Filter, ACF. Tap water treated by the Public Water Board is first channeled into the ASF where impurities like bacteria, soil, mud and organic matters are removed. The water then passes through the ACF which removes chlorine and other undesirable impurities. Finally the purified water is channeled into the round disc water cell where minerals in the water are ionized through the process of electrolysis to produce alkaline ionic water and acidic ionic water simultaneously.



10 & 10 Rule

To benefit from the therapeutic effect of alkaline ionic water quickly, you are advised to drink the water at pH 10 (ORP - 400mV) in an amount equivalent to 10% of your body weight daily.

15. Benefit of Alkaline Ionic Water

No	Usage	Benefits
1	Drinking for all aged group	1. Removing free radicals in human body. 2. Delivering 5 times more oxygen than normal drinking water. 3. Removing acidic waste in our body. 4. Supplying ionic minerals to our body;and 5. Helping nutrients to be absorbed more efficiently into our body.
2	Cooking and cakes making	Food tasted better and lasts longer.
3	Soaking fruits and vegetables	Removing pesticides, herbicides or preservatives.
4	Feeding animals	Faster and healthier growth
5	Watering plants	Bushier and healthier growth

16. Benefit of Acidic Water

No	Usage	Benefits
1	As an anti-septic	Killing bacteria and viruses on contact
2	Washing cuts or wounds	Stopping bleeding and faster healing
3	Bathing and washing hair	Astringent to the skin and conditioner to hair
4	Mouth rinsing and gargling	Relief mouth ulcers and sore throat
5	Watering cut flowers	Prolonging the life of cut flowers

17. Trouble Shooting

No	Problems	Why	Action
1	Tap water pressure is strong but the water from NRA Alkalizer is weak.	a. ASF is clogged up; or b. Flexible hose twisted	a. Replace a new ASF b. Straighten the flexible hose
2	Foul, bitter, fishy or other unusual smell or taste	a. ACF Filter expired due to excessive chlorine in water; or b. Higher concentration of minerals	a. Replace a new ACF Filter; or b. Use lower pH
3	Whitish (or other colors) substance stick to the cups or kettles	Precipitation of harmless alkaline minerals like calcium, magnesium, iron and potassium	Removing by soaking and washing with vinegar

18. Limited Warranty

NRA Alkalizer, Model *Perfection* from NRA Alkalizers Sdn Bhd are manufactured with most stringent and highest standard in quality control. Upon the date of purchase, NRA Alkalizer is warranted for a limited two (2) years period subjecting to the terms and conditions appearing here in below:

Term and conditions

- (1) NRA Alkalizer, Model Perfection is being used for domestic purposes and according to the operation procedures of this User Guide;
- (2) Under normal usage and within the warranty period, any manufacturing defect of the NRA Alkalizer, Model Perfection will be repaired without charges;
- (3) Any part to be replaced must be returned to the Company;
- (4) A copy of the warranty card has to be returned to the company within 14 days upon installation to validate the warranty; and
- (5) This two-years warranty does not cover the following:
 - (a) Replacement or damage of all the filters;
 - (b) Damage caused by accident, misuse, negligence, mishandling, hot water, wetting electrical components of the NRA Alkalizer, Model Perfection;
 - (c) Damage caused by wrong usage, improper installation, lighting and fluctuation or interruption in electrical power supply;
 - (d) Damage caused by insect infection, tampering, altering and modifying the NRA Alkalizer, Model Perfection and its system; and
 - (e) NRA Alkalizer, Model Perfection is used for commercial or industrial purposes.



**Logo of
NRA Alkalizer**



**Logo of
NRA Group of Companies**

**Alkaline ionic water is the
healthiest drinking water**