

About

# Kum Yang Materials & Products



# Filters & Water Purifier

## Anti-Oxidant Alkaline Hydrogen Reducing (AHR ORP) Filter

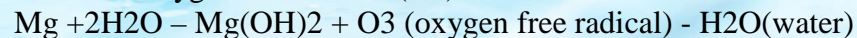


Anti-Oxidant AHR filter makes ORP (oxidation reducing potential) water between -100mv \_ -350mv depending on source water condition and makes Alkaline drinking water (PH 8-9.5).

Removes bad smell, taste, bacterial, fungi, organic pollution in water. Contains inorganic minerals for goal healthy body (Ca, K, Na, Mg). Increase water of natural healing ability & immunity.

- \* Filter content materials: natural tourmaline ceramic ball, high fineness activated carbon, ORP magnesium coated mineral ball, antibacterial silver ball.
- \* Effective purification capacity: 7,000 - 8,000 liter
- \* Replacement cycle: 12-13 months.
- \* Type: 8", 11", 14", others

- Lowering of oxidation reduction potential(ORP)
- Rising of hydrogen ion concentration(PH)
- Increase of oxidation resistance
- Make ionization water for quite healthy body
- Removes oxygen free radical (O3) which is a harmful factor to health.



The generating reasons of the "Oxygen free radical": stress, cigarette, liquor, smoke, ultra violet rays radiation, exhaust gas, virus, medicine, blood circulation obstacle, oxygen breathing.

\* Utilization of antioxidant alkaline hydrogen reducing water:

For drinking 1-2 liter daily

When cooking food, tea

For original taste and flavor

For skin beauty, flowers, pets

For increasing immunity and medical treatment

# Filters & Water Purifier

## Mineral Alkaline Antibacterial Filter



Natural mineral filter supplies activated water of small molecules structure for abundant porous porosity of average 0.4um. Improve oxygen level in our body.

Mineralized water has perfectly proper proportion of minerals necessary for development of our healthy body.

Mineral filter has features:

- To eliminate germ like bacterial, virus and effect antibacterial against a broad range of bacterial for contain antibacterial silver ball.
- Remove bad smell and make good taste water.
- Make alkaline good drinking minerals (Ca, Na, K, Mg, Si..) water for contain calcium ball.
- Supply clean and fresh water always.
- Removal of the residual chlorine and heavy metals.

\*Utilization of Mineral Filter:

For drinking water 1-2 liter daily

For food and drink industry, agricultural water, dairy farming, pig and chicken and fish keeping.

\* Filter content materials: mineral ceramic ball, alkaline calcium ball, antibacterial silver ball, zeolite ball, activated carbon.

\* Effective purification capacity: 7,000 - 8,000 liter

\* Replacement cycle: 12-13 months.

\* Type: 8", 11", 14", others

# Filters & Water Purifier

## Sediment Filter



The 5 micron filter removes effectively dust rusted remnant particles of comparatively large size. Preventing various impurities (dirt, grit, sand, rust) in water from entering other filters, the filter plays a role of extending the performance and life of the water purifier filters. Adsorbing chlorine, undesirable taste and odor in water

- \* Filter housing and content materials: polyethylene (Korea)
- \* Effective purification capacity: 3,300- 3,600 liter
- \* Replacement cycle: 3-6 months depending on amount used and water quality
- \* Filter weight: 202g +(8"), 318g +(11"), 348g +(14")

## Pre-Carbon Filter



This pre-carbon filter made of high quality activated carbon. Removes residual chlorine to prevent hydrolysis of membrane and absorbs harmful organic chemicals such as dissolved trihalomethane in water.

- \* Filter content materials: activated carbon (Japan)
- \* Effective purification capacity: 3,300 - 4,000 liter
- \* Replacement cycle: 6-8 months depending on amount used and water quality
- \* Filter weight: 308g +(8"), 440g +(11"), 525g +(14")

# Filters & Water Purifier

## Post-Carbon Filter



This post-carbon filter made of high quality activated carbon. Removes the undesirable bad taste, odor, color and absorbs some of harmful organic chemicals that may be still present. Make good taste water.

- \* Filter content material: activated carbon or silver activated carbon (Japan)
- \* Effective purification capacity: 6,000 - 7,000 liter
- \* Replacement cycle: 9-12months depending on amount used and water quality
- \* Filter weight: 300g +(8"), 426g +(11"), 518g +(14")

## UF Membrane Filter



Hollow filter membrane filter of a micro-scale pore size 0.01 um has a selective function filtering unwanted harmful microorganisms (bacterial, fungi) and chemicals while allowing the beneficial minerals (calcium, magnesium) to go through spun with highly integrated techniques, it shows excellent water permeability.

Using polysulfone as a membrane forming material, it has excellent chemical and heat resistance.

- \* Filter content material: PS (polysulfone)
- \* Effective purification capacity: 7,000 liter
- \* Replacement cycle: 12-15months depending on amount used and water quality
- \* Filter weight: 340g +(11"), 395g +(14")

# Filters & Water Purifier

## NANO Membrane Filter



Third step Nano membrane filter removes contaminants such as heavy metals, viruses, bacteria and chemical materials with 0.01  $\mu\text{m}$  pore.

Because of its large surface area(1m x 5m x twofold=10m/10000mm), the life is long and the water purification capacity is high. There is no waste water and it is featured that minerals exist as they are. The film-type nano membrane composed of membranes with ultra fine pores has strong internal pressure while its antifungal and sterilizing power has been strengthened. In addition to, it can supply clean living water as it is featured in preserving minerals ingredients.

- \* Filter content material: Polysulfone (separately displayed)
- \* Effective purification capacity :7,000-8,000 liter
- \* Replacement cycle: 12-18months depending on amount used and water quality.
- \* Filter weight : 370g +(11"), 425g +(14")

# Filters & Water Purifier

## CF MEMBRANE Filter:

CF(ceramic filter) membrane has the physical adsorption and absorption function and the chemical ion substitution at the same time in addition to the simple filtration function of the existing membrane like R/O, UF, NANO filters.

CF membrane brings an increase of purification and filtration function by micro gap(0.1-0.06  $\mu\text{m}$ ) of the fine ceramic ball(0.5-0.7 mm size) and that has decomposition and ion exchange functions by pores of angstrom(A) unit inside a ceramic ball.

The fine porous structure of one-tenth of a nanometer in size has the sophisticated filtration function to catch even harmful gases and the required minerals have a synergy effect.

\* Ceramic ball which are natural ore materials, by the change into the dense water molecular structure(cluster)as they bring about self-purification with the generation of electric charges by emission of strong far infrared rays energy.

Make the freshness of water good by increasing the hexagonal rate, block up the multiplication of viruses and increases sterilizing power, make it easy to preserve purified water by restoration of reducing power.

# Filters & Water Purifier

## RO (Reverse Osmosis) Membrane Filter

A thin membrane composed of fine stoma (pore size 0.001  $\mu\text{m}$ ), this RO membrane perfectly filter off microorganism, virus, heavy metals, inorganic, materials, nitrogen compound and radioactive pollutants but lets only pure water, dissolved oxygen, and small amounts to pass through.

- \* Filter content material: polyamide
- \* Effective purification capacity: 7,000-8,000 liter
- \* Replacement cycle: 12-16months depending on amount used and water quality.
- \* Water with high amount of lime may be blocked quickly.
- \* Filter weight: 550g +(11"), 670g +(14")
- \* R/O Membrane filter daily production: 50GPD(180L), 80GPD(300L), 100GPD(375L), 150GPD(400L)
- \* For 50-100GPD filters, press motor must be used.
- \* Water pressure: 1.3kg f/cm<sup>2</sup> -5kg f/ cm<sup>2</sup>



# Filters & Water Purifier

## Energy Water Purifier System

### ONE TOUCH



**Model Name:** KY-P101 (under sink)  
**Size(mm):** 260(W) x 80(D) x 290(H)  
**Weight:** 2kg

#### Filter System & Life Time :

1. Sediment (3-4months)
2. Block carbon or granules carbon (5-6months)
3. CF membrane (10-12months)
4. Alkaline ORP Block or Ball (10-12months)

#### Features:

- Alkaline reduced water ionizer for replace filters with a simple method like the replacement of batteries.
- Make small water cluster and minerals and hydrogen rich energy water.

### POWER WATER H



**Model Name:** KY-P301 (under sink or top)  
**Size(mm):** 305(W) x 100(D) x 395(H)  
**Weight:** 3.7kg

#### Filter System & Life Time:

1. Sediment(3-6months)
  2. Pre-carbon or CF block carbon(6-8months)
  3. UF membrane or Nano membrane (12-18months)
  4. Post-carbon (6-8months) or Alkaline hydrogen reducing(12-13months) or Mineral alkaline antibacterial (12-13months)
- \*( all filters system is adjustable

#### Features:

- Alkaline reduced water ionizer for medical effects.
- Not an electrolytic ion water producing apparatus but a natural generate anti-oxidant alkaline hydrogen reducing water.

# Filters & Water Purifier

## UNI KUL



**Model Name:** KY-J 1101 ( Top . Cold )

**Size(mm):** 310(W) x 390(D) x 460(H)

**Weight:** 9kg

**Filter System & Life Time :**

1. Sediment (3-6months)
2. Pre-carbon (6-8months)
3. UFmembrane (12-16months)
4. Post-carbon or Mineral alkaline antibacterial (12-13months)\*(filter system is adjustable)

**Features:**

- Alkaline reduced water ionizer for medical effects.
- Not an electrolytic ion water producing apparatus but a natural generate anti-oxidant alkaline hydrogen reducing water.

## UNI KUL H



**Model Name :** KY-J 2011( Top . Hot-Cold)

**Size(mm) :** 380(W) x 490(D) x 530(H)

**Weight :** 20kg

**Filter System & Life Time:** 1. Sediment(3-6months) 2.Pre-carbon (6-8months) 3.UF membrane (12-16months) 4.Post-carbon or Mineral alkaline antibacterial or Alkaline hydrogen reducing filter (12-13months)

**Power consumption :** 125w / 300w

**Capacity:** 2.3 L(cooling water) / 1.8 L(hot water)

**Features:**

- Excellent high grade color point design.
- Prevent full out water for float level controller and bolt top.
- Adapted function prevent over cooling and over heating.
- Guard against child for use safety coke.

# Filters & Water Purifier

## Energy Ion Antioxidant Purifier Pitcher(Jug)



Turtle® "A turtle enjoy longevity..."

### ION PURIFIER PITCHER



#### How to use

- Pour the enclosed "citric acid" into the Pitcher, delute citric acid with water. And shake the Pitcher for 1~2 minutes.(You can regenerate the filter and stick effectively by this methods)
- Wash the Pitcher(filter, stick) in flowing water. (2 or 3 times)
- It is recommendable to drink Alkaline Hydrogen Reducing water after about 20 minutes.

#### Features

- Our Ion Purifier Pitcher has 2 step water purifier filter system.(1 step Ion filter the same Water Purifier and 2 step Ion stick the same generate good taste minerals water)
- When water pass through Ion Filter, remove pollutants and change PH, ORP, water cluster.
- Adding to body plastic (As resin) Antibacterial powder, so very safety for drinking.

#### Why is Anti-oxidant Alkaline Hydrogen Reducing water - good for our health?

This water has detoxification action, natural healing power of immunity, remove active-oxygen power, antioxidant power, prevents fatty oxidantion, antiaging effect, prevents abnormal bacterial or germs on the skin, keeps beautiful skin for protect of moisture, and the influence of obesity, constipation, osteoporosis, climacteric symptoms, atopy, etc.

#### Cooking with Antioxidant Alkaline Water ;

- cook rice(good tasty rice). cook meat, vegetable, soup, fish(enhance the flavor of the foods).
- boil tea, coffee(remove bad taste and makes soften sweet taste).
- rinsing fruits, fish, vegetables (prevents harmful chemicals and keeps refresh long time).

"Healthy Ionized Water that's better for your body, better for your life"

" Alkaline Hydrogen Reducing Anti-oxidant Ion Water, the solution to having a life of health and well-being"

\* **Name:** Turtle Ion Purifier Pitcher (Jug)

\* **Size:** 250(H) x 160(W) x 94(D)

\* **Weight:** 750g

\* **Capacity:** 2.7 liters

\* **Filter lifetime:** 7,000-8,000L (when use 1bottle daily, 8-9 months)

\* **Stick lifetime:** 24-30months (recommend cleaning per month)

\* **Filter composition:** antioxidant ORP Mg ball, activated carbon, antibacterial ball, tourmaline ball, remove chlorine vitamin ball, mineral ball, antioxidant Pi ball.

\* Use materials certified registered by NSF, EPA, FDA.

**Easy cleaning and filter change**

**"Excellent 2 step filter process"**

# Filters & Water Purifier

## Alkaline Reducing Ion Stick



Enjoy antioxidant alkaline reducing water anytime, anywhere

### **ORP ION Water - The healthiest drink possible**

- . Make antioxidant alkaline hydrogen reduced water.
- . Produces natural alkaline calcium water with a PH of 8.0\_ 9.8 which helps increasing body metabolism.
- . Supply useful minerals in water (Na, K, Ca, Mg, Ge, etc....)
- . Changed small cluster molecules of water(54Hz), more easily absorbed by the body.
- . Emission far infrared rays and generate antifungal power in water.
- . Effect to removes oxygen free radical(O3) which is a harmful to health.

**Easy to use and simple: add to any bottled water and drop and shake**

\* **Name :** Turtle Ion Stick

\* **Model name, size, material:**

KYT-117(H 117mm x D 20mm / TiO2 transfer coating/ For 1.0 liter)

KYT-80(H 80mm x D 20mm / TiO2 transfer coating / For 0.5 liter)

KYP-140(H 140mm x D18 / plastic / For 1.0 liter)

KYP- 85(H 85 mm x D18 / plastic / For 0.5 liter)

\* **Filter lifetime:** 7-10 months (when first time use, wash the stick with flowing water)

\* **Filter composition:** antioxidant ORP Mg ball, antibacterial ball, tourmaline ball, non-oxidant magnetic iron ore ball, mineral ball...

# Energy Ion Bracelets, Ion Pendants, Accessories

## Energy Ion Bracelets, Ion Pendants, Accessories



### \* Features:

- . accelerating blood circulation(relieving ache in shoulder, fatigue).
- . improving the power of concentration.
- . increase energy, enhances cellular nutrition and detoxification.
- . enhances an immune body and endocrine systems.
- . promotes positive flow of energy and helps to maintain energy balance.
- . it helps to restore energy that has become weak in the body.
- . stabilizing the autonomic nervous system.

## Others energy saving molding stone



### \* Features:

- For boiling water for tea, coffee and cooking, mattress bed, healthy machine goods, ion healthy room or sauna(effect FIR and negative ion).
- High strength for produce by mold machine press.

# Kum Yang Materials Co.,Ltd

## Company Introduction

Hello. We would like to express our deepest gratitude and welcome to our customers who have always given their unwavering interest and support for the development of KUM YANG MATERIALS CO.,LTD.

Starting from 1981 when there was no awareness of the significance of bio-ceramics and Far infra-red radiation, our company started as a joint-venture company with the world-class Japanese bio-ceramics firm, Sung Ene Co., Ltd. and has consistently focused on bio-ceramics and environment-related businesses and water treatment products ceramic ball, filters, water purifier, eco-friendly fertilizer under the company philosophy "For human healthy life by our technology".

Consequently, for 30 years, our company has acquired many technical knowledge in domestic and overseas industrial sites and provided products for effective bio-ceramics related water treatment while greatly contributing to stable operation and productivity increase through developing and offering technologies in need.

Today, KUM YANG has established itself as a dominant player in the world ceramic ball market. We take pride in the fact that our company is the No. one original ceramic ball manufacturer in Korea and strive to "provide customers with better products and services" with a new management basis through management innovation activities and accumulated technologies and various know-how.

Furthermore, we do our best to create new values for both customers and company by pursuing new projects for "cost saving at site, water and energy saving" and we hope you continue to show the same interest and support.

Thanks you very much

C.E.O / Kwang Jin, Park

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### + Profile & History:

Company Name: Kum Yang Material Co., Ltd

Foundation: May 1, 1981

CEO: Mr Kwang Jin, Park

Registration No. 615-81-32754

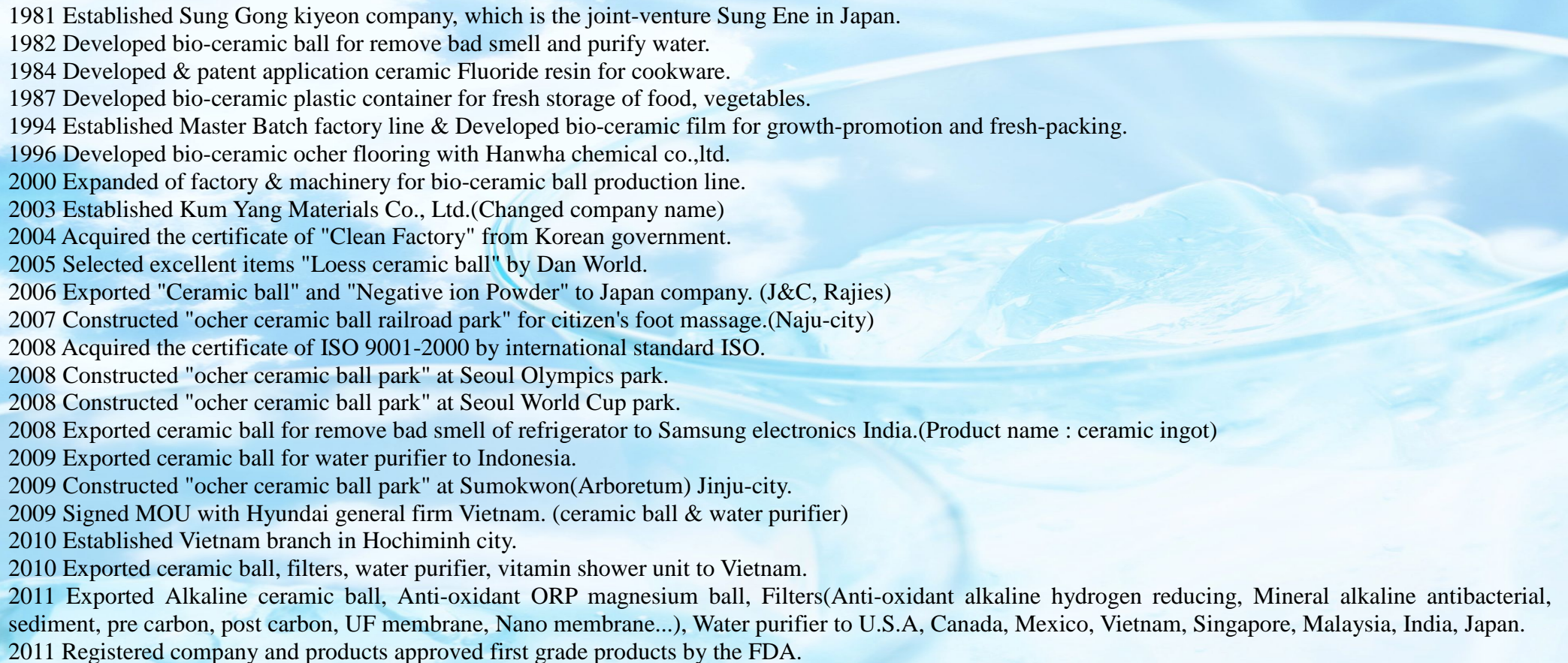
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Website: <http://www.tky.co.kr>

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- 1981 Established Sung Gong kiyeon company, which is the joint-venture Sung Ene in Japan.
- 1982 Developed bio-ceramic ball for remove bad smell and purify water.
- 1984 Developed & patent application ceramic Fluoride resin for cookware.
- 1987 Developed bio-ceramic plastic container for fresh storage of food, vegetables.
- 1994 Established Master Batch factory line & Developed bio-ceramic film for growth-promotion and fresh-packing.
- 1996 Developed bio-ceramic ocher flooring with Hanwha chemical co.,ltd.
- 2000 Expanded of factory & machinery for bio-ceramic ball production line.
- 2003 Established Kum Yang Materials Co., Ltd.(Changed company name)
- 2004 Acquired the certificate of "Clean Factory" from Korean government.
- 2005 Selected excellent items "Loess ceramic ball" by Dan World.
- 2006 Exported "Ceramic ball" and "Negative ion Powder" to Japan company. (J&C, Rajies)
- 2007 Constructed "ocher ceramic ball railroad park" for citizen's foot massage.(Naju-city)
- 2008 Acquired the certificate of ISO 9001-2000 by international standard ISO.
- 2008 Constructed "ocher ceramic ball park" at Seoul Olympics park.
- 2008 Constructed "ocher ceramic ball park" at Seoul World Cup park.
- 2008 Exported ceramic ball for remove bad smell of refrigerator to Samsung electronics India.(Product name : ceramic ingot)
- 2009 Exported ceramic ball for water purifier to Indonesia.
- 2009 Constructed "ocher ceramic ball park" at Sumokwon(Arboretum) Jinju-city.
- 2009 Signed MOU with Hyundai general firm Vietnam. (ceramic ball & water purifier)
- 2010 Established Vietnam branch in Hochiminh city.
- 2010 Exported ceramic ball, filters, water purifier, vitamin shower unit to Vietnam.
- 2011 Exported Alkaline ceramic ball, Anti-oxidant ORP magnesium ball, Filters(Anti-oxidant alkaline hydrogen reducing, Mineral alkaline antibacterial, sediment, pre carbon, post carbon, UF membrane, Nano membrane...), Water purifier to U.S.A, Canada, Mexico, Vietnam, Singapore, Malaysia, India, Japan.
- 2011 Registered company and products approved first grade products by the FDA.