(Specifications for Emco Tech Ionizers)

Filter Material

(0.1 Micro Activated Carbon Filter and 0.01 micron Ultra fine filter)

Coconut tree wood baked at a high temperature produces activated carbon which blocks double the contaminants and since it is coated in silver bacteria can't grow in it.

Also, when 11 microns of tourmaline is added to ceramic, it creates a weak 11 milliamps electrical current from the absorption / repulsion and formation of positive ions which has a positive effect in activating tap water.

Uses a worry free filter fiber composition that doesn't encourage the growth of bacteria.

which is a great help to the auto cleaning system.

Also, when a small amount of calcium is added to the water, bad flavors and smells are removed and water flavor is greatly improved.

Thanks to the heavy duty construction of the 0.01~0.001 micron filter pores, bacteria, viruses, and corpuscles are completely removed.





Regular Filter

Ultra Fine Filter

Filter Test Report 1/2

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Filter Test Report 2/2

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Carbon Certificate of Analysis

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Calcium Certificate of Analysis



Ceramic Certificate of Analysis

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Fiber Filter Certificate of Analysis



(Specifications for Emco Tech Ionizers)

Filter Life

If 20 liters of water go through every day, the filter life can be up to $6 \sim 9$ months. (depending on the frequency of use, the filter can last longer) a 4 person family can use the filter for about one year

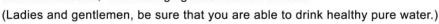
Filter Replacement

Customers can easily change the filter using no tools.



Filter Life Indicator Function

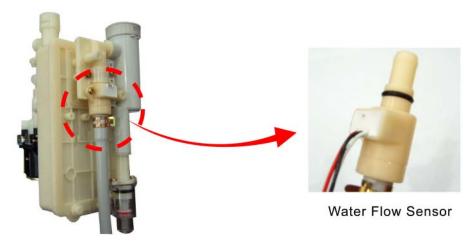
Since filter life can be seen from the outside of the machine with the filter life indicator, filter changing time can't be missed.





Interior Flow Meter

The internal electrolysis flow meter ensures that the water purification filter can still be used. When storage capacity is reached an alarm will sound.



Water cell

(Specifications for Emco Tech Ionizers)

Internal Temperature Gauge

With the internal temperature gauge, if hot water comes in the machine, it turns off to protect the machine and an external indicator shows that this has happened.



Temperature Gauge

Micro Computer Circuit Board Artificial Intelligence!!

The Wontochi micro computer control system self diagnoses every function within the machine and can detect the water pH and quality of any water source, even if the water source is heavy with minerals, which will keep the machine from over heating.



Micro Computer Circuit Board

Automatic Flow Reverse Cleaning System

When it is time to clean the machine, the electrode switches back and forth between positive and negative and changes the direction of the water flow so that alkaline and acidic water will come out of their respective spigots even if the machine is in the middle of a cleaning cycle.

The weak poing of existing water ionizers is that when the machine is in the middle of a cleaning cycle, they can't be used.

And among Korean water ionizers this is the world's very first simultaneous water cooler and water heater ionizer.

Alkaline water can be produced without having to use an acidic water cleaning cycle.

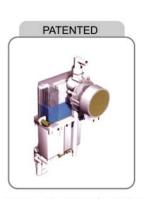
(Domestic patent No. 0308448 / USA Patent No. 6,846,394)

Double Automatic Reverse Cleaning System (DARC system)

When lime scale that can ionizer is completely removed the life of the ionizer is increased.

The water ionizer's employment of the electrode protecting DARC system keeps the vulnerable plated electrode in perfect condition.

(Domestic Patent No. 0370510)



Automatic Flow Reverse Cleaning System

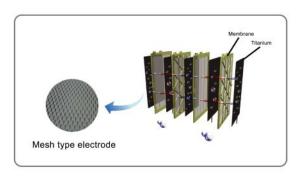


(DARC system)

(Specifications for Emco Tech Ionizers)

Use of Mesh Titanium

Something else to consider is that compared to other basic electrode plates the net like electrode is much better at producing positive ions. Since the surface area is so much wider, the electrode is more effective and reliable. The electrode plate manufacturing method is state of the art. And the ORP (oxidation reduction potential) of the water is very high.



Solenoid Valve Electrode Water Cell

The automatic flow changing electrode water cell system is a step up from the existing solenoid valve electrode water cell systems.



Solenoid Valve Electrode Water Cell

Automatic Flow Controller

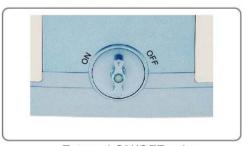
Existing products use inconvenient water flow control valves to adjust to each country and geographic area's water pressure. But the Automatic Flow Controller maintains water flow at an even pressure automatically.



Automatic Flow Controller

External ON/OFF valve

The ionizer has an internal on and off valve which it controls itself, so there is no need for an external on and off valve.



External ON/OFF valve