

EMCO TECH Ionizer Brand Comparisons

(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

KOTRIC
 Yanggongju-Ro, Yanggongju-Gu, Su-2, Seoul, Korea, 150-150 TEL: 02-2-2229-0100 FAX: 02-2-2229-1000

TEST REPORT (Registered Copy)

Report No. 100-01015
 Name of Product : Stone Stone Stone
 Name of Customer : Dongguk University Co., Ltd.
 Address : 47-1, Dongguk-ro, Seoul-City, South-Korea, Kangbuk-Gu, Sinan-dong
 Report Date : Aug. 20, 2002
 Sample Name : 11111111

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
TSS	mg/L	Not Detected	Not Detected	Test Method of Drinking Water The Ministry of Environment
Turbidity	NTU	Not Detected	Not Detected	Test Method of Drinking Water The Ministry of Environment
CO	mg/L	Not Detected	Not Detected	Test Method of Drinking Water The Ministry of Environment
CO ₂	mg/L	Not Detected	Not Detected	Test Method of Drinking Water The Ministry of Environment
Ca	mg/L	Not Detected	Not Detected	Test Method of Drinking Water The Ministry of Environment
Mg	mg/L	Not Detected	Not Detected	Test Method of Drinking Water The Ministry of Environment
Cl	mg/L	Not Detected	Not Detected	Test Method of Drinking Water The Ministry of Environment
SO ₄	mg/L	Not Detected	Not Detected	Test Method of Drinking Water The Ministry of Environment
Fluoride	mg/L	Not Detected	Not Detected	Test Method of Drinking Water The Ministry of Environment
Residual Chlorine	mg/L	Not	Not	Test Method of Drinking Water The Ministry of Environment

2 of 2 Total Page(s)

Filter Test Report 2/2

KOTRIC
 Yanggongju-Ro, Yanggongju-Gu, Su-2, Seoul, Korea, 150-150 TEL: 02-2-2229-0100 FAX: 02-2-2229-1000

TEST REPORT (Registered Copy)

Report No. 100-01015
 Name of Product : Stone Stone Stone
 Name of Customer : Dongguk University Co., Ltd.
 Address : 47-1, Dongguk-ro, Seoul-City, South-Korea, Kangbuk-Gu, Sinan-dong
 Report Date : Aug. 20, 2002
 Sample Name : 11111111

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Concentration of AMPS	mg/L	1.7	1.7	Test Method of Drinking Water The Ministry of Environment
Parachlorophenol	mg/L	2.3	2.3	Test Method of Drinking Water The Ministry of Environment

2 of 2 Total Page(s)

Carbon Certificate of Analysis

Chemiron Carbon
 Certificate of Analysis

Sample of: 4.00kg Activated Carbon G37 AG 30000 US
 Customer Order No. 0911P34-003
 CCL Lab. Order No. 0104505
 Batch No. SP15800

Analysis Item	1	2	3	4	5	6
Pellet Size	1.0	0.8	0.4	0.4	0.4	0.4
Moisture %	0.51	0.53	0.52	0.51	0.52	0.50
Sub Density (g/cm ³)	0.91	0.90	0.92	0.91	0.91	0.91
Silver Content (g/g)	0.43	0.42	0.42	0.42	0.42	0.43

2 of 2 Total Page(s)

Calcium Certificate of Analysis

Tomita Pharmaceutical Co., Ltd.
 MANUFACTURER OF CHEMICALS & PHARMACEUTICALS

Certificate of Analysis
 Jan. 17, 2000
 Calcium Sulfoxide Granular S18

Standard Specifications	Analysis Results
Appearance	White Granule
Identification	White Granule
Loss on Drying (105°C)	0.20 max. 0.20
Water-soluble (pH 7.0)	0.2% max. 0.20
Residue (pH 7.0)	0.10 max. 0.10
Residue (pH 12.0)	0.05 max. 0.05
Water	0.05 max. 0.05

1 of 1 Total Page(s)

Ceramic Certificate of Analysis

KIFA 한국원적외선용융가연연구원
 대한제국 한국원적외선협회

시험성적서
 품목명 : KIFA-140
 검사일 : 2002년 3월 17일
 검사장소 : 서울특별시 강남구 테헤란로 12-12 동호빌딩 3층
 연락처 : 02-2252-4110 FAX: 02-2252-3300

시험항목	명목기준 (단위)	Block투과율(%)	시료투과율(%)	합격여부
투과율	500	49.0	49.5	합
	800	49.0	49.5	합
흡수율	500	46.0	45.5	합
	800	46.0	45.5	합

2 of 2 Total Page(s)

Fiber Filter Certificate of Analysis

한국원적외선용융가연연구원
 대한제국 한국원적외선협회

시험성적서
 품목명 : KIFA-140
 검사일 : 2002년 3월 17일
 검사장소 : 서울특별시 강남구 테헤란로 12-12 동호빌딩 3층
 연락처 : 02-2252-4110 FAX: 02-2252-3300

시험항목	명목기준 (단위)	합격여부
투과율 (500nm)	99.9%	합
투과율 (800nm)	99.9%	합
흡수율 (500nm)	0.1%	합
흡수율 (800nm)	0.1%	합

2 of 2 Total Page(s)

EMCO TECH Ionizer Brand Comparisions

(Specifications for Emco Tech Ionizers)

Filter Life

If 20 liters of water go through every day, the filter life can be up to 6 ~ 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

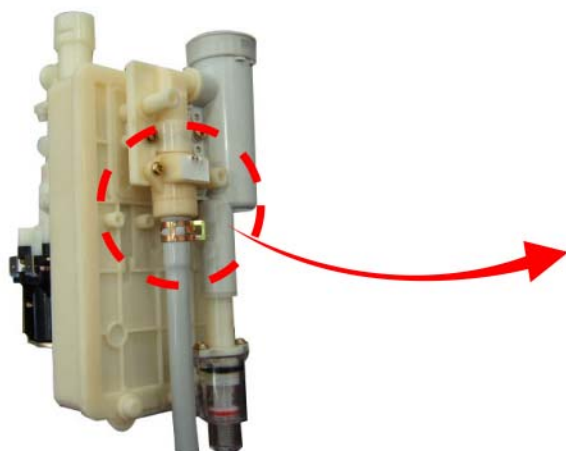
Since filter life can be seen from the outside of the machine with the filter life indicator, filter changing time can't be missed.

(Ladies and gentlemen, be sure that you are able to drink healthy pure water.)



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

Water Flow Sensor

EMCO TECH Ionizer Brand Comparisions

(Specifications for Emco Tech Ionizers)

Internal Temperature Gauge

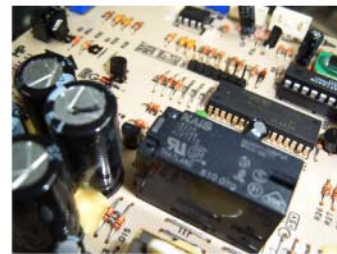
With the internal temperature gauge, if hot water comes in the machine, it turns off to protect the machine and an external indicator shows that this has happened.



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.



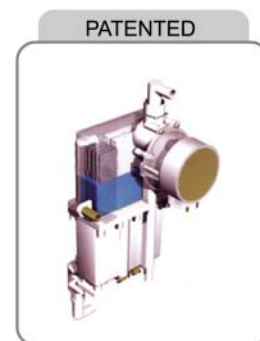
Micro Computer Circuit Board

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 point 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)



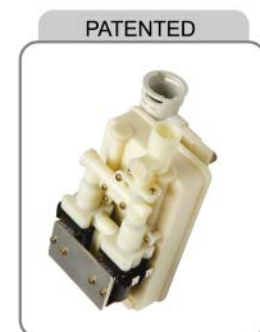
Automatic Flow Reverse Cleaning System

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)



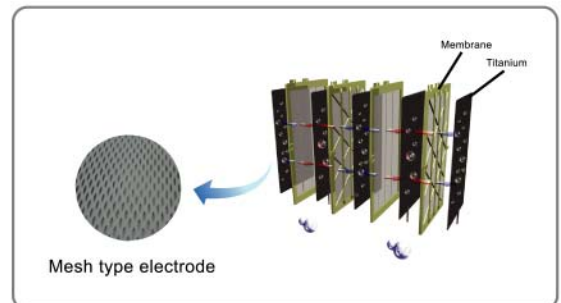
(DARC system)

EMCO TECH Ionizer Brand Comparisions

(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

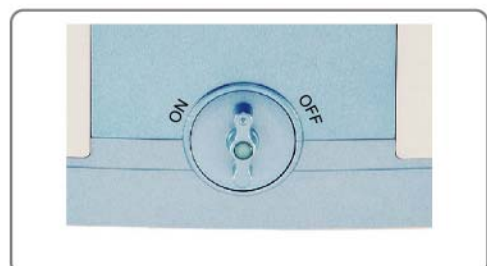
Existing products use inconvenient water flow control valves to adjust to each country and geographic area's water pressure. But the Automatic Flow Controller maintains water flow at an even pressure automatically.



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