

INTERNATIONAL H2O INC Code: RD.BM05.03 Issue No: 01

Test Date: 06/06/2017 Effective: 01/01/2017 Page **1** of **4**

Request: IH2O Alkaline & Carbon Block Filter

Requester: Monique ParkSample: 1Purpose: Alkaline, ORP, TDS, pH testTester: Joseph Thuy

Test Conditions

Filter is put after tank. System is filled and maintained for 2h, then flushed and measure Hydrogen, ORP, TDS, pH
Refill and maintain for another overnight, flush and measure Hydrogen, ORP, TDS, pH. Flow velocity: 1.1 1pm
Temperature: 22 -25 C
Initial water: RO water

1. PRODUCT OVERVIEW

INTRODUCING OUR COMBINATION ALKALINE & BLOCK CARBON FINALE STAGE SOLUTION.

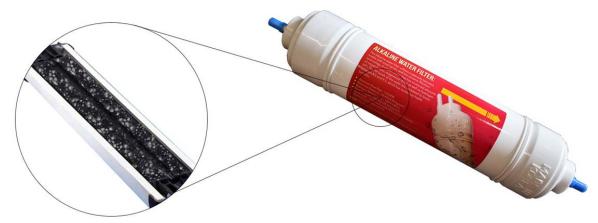
The first solution of its kind in North America, our new filter technology combines two cutting edge filtration processes st the forefront of the water filtration industry. By custom forming our Coconut Shell Activated Carbon with pre-imbedded Alkaline Beads, this final post filter delivers amazing quality water with an efficient flow capacity and competitive filter life.

ALKALINE FILTRATION

By adding calcium and other beneficial minerals normally filtered out or not present in tap water, We're able to produce alkaline and negative ORP water as healthy as the best mineral spring waters. The human body requires an optimal pH level, and works hard to maintain to balance acid and alkaline. There are many studies linking a pH of 9+ to improved organ functions and resistance to disease.

POST CARBON / BLOCK CARBON

Carbon is a very powerful absorbent; one pound (half a kilogram) of carbon contains a surface area of 125 acres (0.5 square kilometers). Carbon Block Activated Carbon is a material that has a positive charge, which helps attracting even more impurities. Generally, Carbon Block Filters have higher contaminant removal capability.



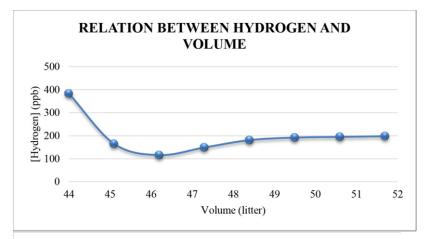
2. TEST RESULTS

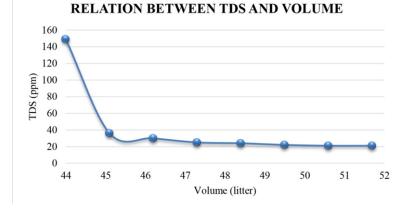
a) Test Results Conducted 2 Hours after Filtration Process						
Flow (liter) vs Water	Hydrogen (ppb)	ORP (mV)	TDS	pH		
Initial Water	0	79	6	7.46		
44	383	-271	149	9.48		
45	165	-140	36	9.71		
46	116	-123	30	9.69		
47	149	-133	25	9.58		
48	181	-126	24	9.51		
50	192	-143	22	9.38		
51	195	-144	21	9.37		
52	198	-145	21	9.25		

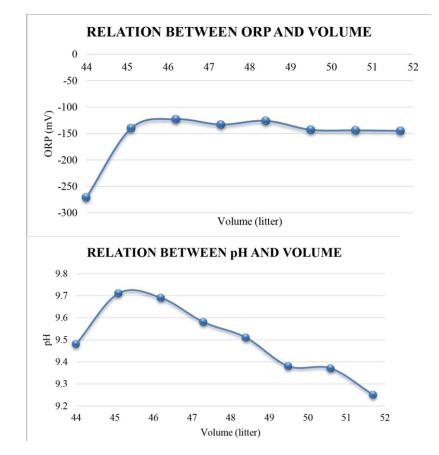


INTERNATIONAL H2O INC Code: RD.BM05.03 Issue No: 01 Test Date: 06/06/2017 Effective: 01/01/2017 Page **2** of **4**

Relative schematics between volume and ORP, TDS and pH







Comments:

- Hydrogen concentration is 110 -380 ppb - ORP < -50 mV

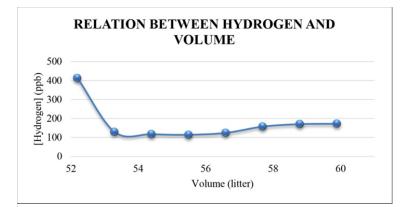
- TDS is 20 - 150 ppm. Stable TDS < 50 ppm, respect TDS standard drinking water - pH is 9.25 - 9.7

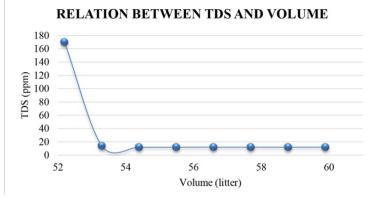


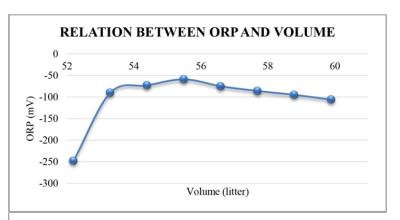
Test Date: 06/06/2017 Effective: 01/01/2017 Page **3** of **4**

b) Test Results Conducted 24 Hours after Filtration Process						
Flow (liter) vs Water	Hydrogen (ppb)	ORP (mV)	TDS	pH		
Initial Water	0	79	6	7.46		
52	413	-248	170	8.62		
53	129	-90	14	7.72		
54	117	-73	12	7.62		
55	114	-59	12	7.52		
56	124	-75	12	7.36		
57	157	-86	12	7.34		
58	170	-95	12	7.35		
59	172	-106	12	7.31		

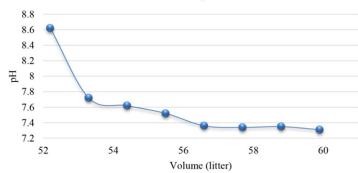
Relative schematics between volume and ORP, TDS and pH







RELATION BETWEEN pH AND VOLUME





INTERNATIONAL H2O INC Code: RD.BM05.03 Issue No: 01 Test Date: 06/06/2017 Effective: 01/01/2017 Page **4** of **4**

Comments:

- Hydrogen concentration is 110 - 410 ppb after 1-night remaining. - ORP< -50 mV - TDS is 12 - 170 ppm. Stable TDS is less than 50 ppm, respect TDS standard drinking water. - pH is 7.3 – 8.6.



If hydrogen filters of APS after step RO filter, we can get hydrogen water for healthy body.

R&D Manager	Quality Control Manager	
Sean Min	Mina Kim	
06/21/17	06/21/17	