

# Olympus+ Water Filter

## Stainless Steel

USA TECHNOLOGY - 4 CLEANING STAGES - CHANGEABLE CERAMIC FILTER



### U.S.A Technology

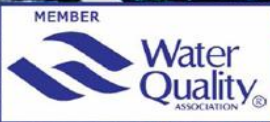


**STAINLESS  
STEEL**

**HEALTHY  
CRYSTALLINE  
OLYMPIAN WATER**

**NSF**<sup>®</sup>

The activated carbon used in the cartridge is certified by NSF - USA



**CODE 01-001**

**APROVALS AND TESTINGS  
BY CERTIFIED LABORATORIES & UNIVERSITIES:**



**AG. EN. T.**  
Laboratories

AGricultural &  
ENvironmental  
Testing & Research  
Laboratories S.A.



Food Quality  
Services Laboratory

**ERGANAL**

European  
Certified Labs



ISO9001:2000

**OLYMPUS+ WATER FILTER**

**THE ONLY ONE TESTED BY:**

- \* 3 accredited European Chemistry Labs
- \* the Agricultural University of Athens (Microbiology Department)
- \* NSF USA at the materials of activated carbon block of the cartridge

**IT IS UNIQUE BECAUSE:**

1. It is the water filter, that is manufactured exclusively for CENTER PLUS SA and it mixes the European knowledge with the most advanced American technology on the ceramic water filters with micro-pores.
2. The ceramic filter (0,5 micron) that is contained in the device holds 100% the pathogenic micro-organisms of water such us: E. Colli, typhus, cholera, salmonela, faecal coliforms, staphylococcus, enterococcus, cryptosporidium\*, etc. (see tables on page 3), because the pores of the ceramic filter, are 10 times smaller than the size of microbes of water.
3. In the same way, they hyper-solid ceramic filter holds the billions of germs of water that chlorine kills and we unsuspected drink them daily by the tap water. Also, the same ceramic filter holds the sediments, mud, rust, etc.
4. The antibacterial action of Coloidal Silver, which is contained in the micropores of the ceramic filter and of the Brass that the base of the unit is made of, execute the germs that the ceramic filter of the device holds, while they decontaminate the device.
5. The activated carbon block (certified by NSF USA), contained in the inner part of the ceramic filter, holds in big percentage: Chlorine, pesticides, phenols, toxic substances, amiantus fibers, hexavalent chromium, arsenic, lead, cadmium and other heavy metals (see the most important of them on tables of page 3), while it leaves untouched all of the useful elements of water as: Mineral salts, micronutrients, etc.
6. The housing of the unit is made of stainless steel, while the base is made of a special solid mixture of brass so, there is no case to alter the taste and smell of the water that remains within the device, such as this often happens with water filters made of plastic materials.
7. It is made under 100% European specifications, takes up minimal space on the countertop (Dimensions: 7cm width x 31cm height and weight 2kg approximately), while it can be connected within 1 minute to almost any kind of kitchen faucet or to some other kinds of faucet.

# Olympus<sup>+</sup> Ceramic Water Filter U.S.A Technology

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**USA TECHNOLOGY - 4 CLEANING STAGES - CHANGEABLE CERAMIC FILTER**

## Olympus<sup>+</sup> Water Filter Under-sink

Olympus<sup>+</sup> water filter (code 01-002) is also made of stainless steel.

It is the water filter that can easily be placed under the sink and it functions using its own, beautiful, faucet, also made of stainless steel, which ends up on your sink.

It is very easy to use and very practical because the faucet of the filter has the ability to turn left-right, in order to make things easier for the housewife.



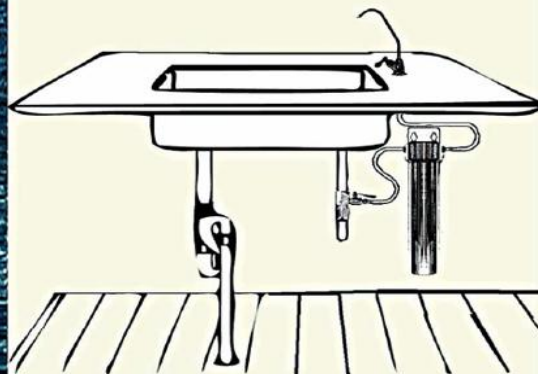
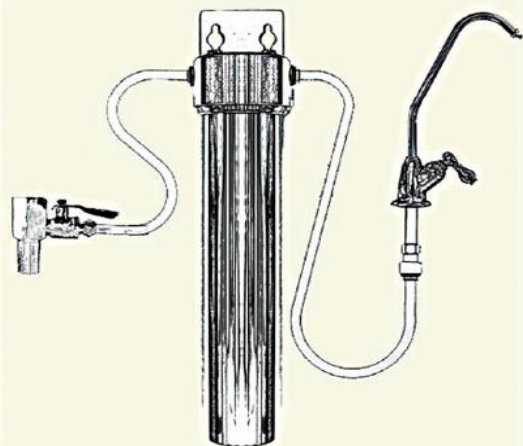
**HEALTHY  
CRYSTALLINE  
OLYMPIAN WATER**

**STAINLESS  
STEEL**

**CODE 01-002**

**NSF**<sup>®</sup>

The activated carbon  
used in the cartridge  
is certified by  
NSF - USA





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**REPLACEMENT CERAMIC CARTRIDGE LASTS FOR 1 YEAR**

**CARTRIDGE CODE 02-002**

It filters 3600 Lt of drinking water

**MULTISTAGE FILTRATION IN JUST ONE FILTER CARTRIDGE**



**CERAMIC OUTER SHELL**  
0.5 micron:  
Holds micro-organisms and elements

**COLLOIDAL SILVER:**  
with anti-bacterial properties within the ceramic matrix that kills pathogens

**ACTIVATED CARBON:**  
Removes chlorine and other Chemicals from the water

**COLLOIDAL SILVER:**  
Included in the pores of the Solid Activated Carbon and its Anti-Bacterial action kills pathogens

**MIXTURE OF OTHER MEDIA:**  
Is mixed with the activated carbon and removes Lead and other heavy metals

**IMPOUNDMENT OF PATHOGENIC MICRO-ORGANISMS**

	percentage
Salmonella enterica serovar Typhimurium Salmonella: Causes foodborne infections and typhoid	99,99%
Staphylococcus aureus Staphylococcus: Causes foodborne poisoning	99,99%
Escherichia coli Diphtheria intestinal origin: Causes gastroenteritic	99,99%
Listeria monocytogenes Pathogenic bacterium: Causes serious foodborne infections	99,99%
Giardia Pathogenic bacterium: Causes serious foodborne infections	99,99%
Bacillus cereus & Clostridium perfringens Sporogenic bacterium: Causes foodborne poisoning	99,99%
Enterococcus faecalis Enterovirus strain: Causes foodborne poisoning	99,99%
Cryptosporidium* Protozoan parasite: Causes foodborne poisoning	99,99%

\* Cryptosporidium is a dangerous and very resistant parasitic bacterium. It is surrounded by a hard shell, this is the reason that the action of chlorine to the drinking water, is not able of killing it.

**IMPOUNDMENT OF CHLORINE - HEAVY METALS etc.**

	percentage		percentage
Chlorine (CL <sub>2</sub> )	99.5%	Trivalent chromium (Cr <sup>+3</sup> )	min 95.7%
Lead (Pb)	min 97.8%	Hexavalent chromium (Cr <sup>+6</sup> )	95.4%
Copper (Cu)	85.5%	Mercury (Hg)	min 96%
Ferrum (Fe)	96.9%	Antimony (Sb)	50.5%
Cadmium (Cd)	93%	Selenium (Se)	91.2%
Zinc (Zn)	90.8%	Nickel (Ni)	89.3%
Aluminium (Al)	91.4%	Manganese (Mn)	91.7%
Arsenic (As)	min 90%		

The values on table are result of artificial superinfection of deionized water

The microbiological as well as the chemical analyses that are included in the above tables, concern so the Countertop OLUMPUS+ unit (code.01-001) as the Undersink OLUMPUS+ unit (code.01-002)



**AGRICULTURAL UNIVERSITY OF ATHENS**  
DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY  
LABORATORY OF FOOD QUALITY CONTROL AND HYGIENE

75, IERA ODOS, ROAD, VOTANIKOS, 118 55 ATHENS  
TEL: 210 5294713, FAX: 210 529 4683, e-mail: ehd@aua.gr

Athens 29-01-2010

To  
CENTER ESAGOGIKI S.A.  
Mr. I. Giotis  
87 Karamanli Ave., Acharnes  
Athens, Greece

**CONTROL OF EFFECTIVENESS OF APPARATUS**

**«OLYMPUS Ceramic Water Filter of CENTER ESAGOGIKI SA COMPANY» FOR FILTRATION OF CONTAMINATED WATER BY MICROORGANISMS**

**Control Procedure**

The effectiveness of the apparatus was tested with the following pathogenic microorganisms:

- *Salmonella enterica* serovar *Typhimurium* (salmonellae causes food borne infections and food-borne enteric fevers).
- *Listeria monocytogenes* (pathogenic bacterium causing severe food borne disease).
- *Escherichia coli* (bacterium causing gastroenteritis).
- *Staphylococcus aureus* (microorganism causing food poisoning).
- *Bacillus cereus* xxi *Clostridium perfringens* (spore-forming bacteria causing food poisoning).
- *Enterococcus faecalis* (strains of enterococci causes food poisoning).

For the selection of the above microorganisms Council Directive 98/83/EC of 3 November 1998 on the quality of water intended for human consumption (L330/5-12-1998) was considered.

For this purpose inoculated water with a mixture of the above microorganisms to a population 100.000 cfu/100 ml - 1.000.000 cfu/100 ml were analyzed before and after its filtration. The apparatus effectiveness was tested also after 3 d with filtration of sterile water. Enumeration of microorganisms was performed with standard methods. The test conducted in triplicate.

**Test Results**

1. Microorganisms were not detected in the filtrate.
2. The filter **OLYMPUS Ceramic Water Filter** according to the above mentioned tests has the capacity to remove the micro-organisms *Salmonella enterica* serovar *Typhimurium*, *Listeria monocytogenes*, *Escherichia coli*, *Staphylococcus aureus*, *Bacillus cereus*, *Clostridium perfringens* and *Enterococcus faecalis*.

Yours sincerely

E.H. Drosinos  
Assoc. Professor

**AG.EN.T. Laboratories**

AGricultural & ENvironmental Testing & Research Laboratories ABEE

46 Alexandroupoleos, Ampelokipi, 115 27 Athens, HELLAS, Tel: (30-210) 7473 971, Fax: 7473 970

**CERTIFICATE OF ANALYSIS**

Certificate number : 42 836 B  
Client code number : 1213  
Client's Name : CENTER ESAGOGIKI S.A.  
Address : 87<sup>th</sup> Karamanlis Avenue, 13671, Acharnes, Hellas  
Item tested : **OLYMPUS Ceramic Water Filter**  
Number of samples : 1  
Sampling by : client  
Condition upon receipt : normal  
Date of sample(s) receipt : 01/07/10  
Date of analysis : 08 - 29/07/10

**EFFICIENCY TEST OF CERAMIC WATER FILTER**

The ability of Ceramic Water Filter to retend the elements below was examined, by measuring their concentration before (C1) and after (C2) the passage through the filter of fortified deionized water.

Parameter	Method of Analysis	Limit	C1	C2	Retention %
Zinc (Zn), mg / L	Flame AAS	-	2.06	0.19	90.8
Copper (Cu), mg / L	Flame AAS	max 2	5.70	0.83	85.5
Iron (Fe), mg / L	Flame AAS	max 0.2	5.65	0.18	96.9
Manganese (Mn), mg / L	Flame AAS	max 0.05	2.02	0.17	91.7
Trivalent chromium (Cr <sup>3+</sup> ), mg / L	Flame AAS	max 0.05	0.46	< 0.02	min 95.7
Hexavalent chromium (Cr <sup>6+</sup> ), mg / L	Flame AAS	-	0.49	0.023	95.4
Aluminium (Al), mg / L	Flame AAS	max 0.2	2.87	0.25	91.4
Nickel (Ni), mg / L	Flame AAS	max 0.02	0.55	0.06	89.3
Cadmium (Cd), µg / L	Flame AAS	max 5	0.48	0.034	93.0
Lead (Pb), µg / L	Flame AAS	max 25	0.47	< 0.05	min 97.8
Mercury (Hg), µg / L	AAS / VGA cold	max 1	9.14	< 0.4	min 96
Arsenic (As), µg / L	AAS / VGA flame	max 10	19.7	< 2.0	min 90
Selenium (Se), µg / L	AAS / VGA flame	max 10	20.5	< 2.0	91.2
Antimony (Sb), µg / L	AAS / VGA flame	max 5	10.4	5.12	50.5
Total chlorine (Cl), mg / L	APHA 114 G	-	0.67	< 0.03	min 96

**CONCLUSIONS**

The OLYMPUS Ceramic Water Filter effectively retends from deionized water Chlorine, as well as most of the examined metals.

Date of issue : 30/07/10

Signature

Peter Paschalis, Ph.D.  
Unit Manager

\* The above results relate only to the items tested.  
\* The present Certificate shall not be reproduced, except in full, without the written approval of AG.EN.T. Laboratories.

**NSF International**

RECOGNIZES

**CALGON CARBON CORPORATION**  
PITTSBURGH, PA

AS COMPLYING WITH ANSI/NSF 61  
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE  
AUTHORIZED TO BEAR THE NSF MARK.



The marks in the present NSF International will be the registered trademark. To verify authenticity, call 1-800-541-5544 or (412) 779-8212.

November 21, 1999  
Certificate #C759007/000A

Gene P. Gorman, Director  
Drinking Water Division

Certification of NSF that the carbon used in the Olympus Ceramic Water Filter is complying with ANSI/NSF Standard 61

NSF/ANSI Standard 61 Drinking Water System Components - Health Effects is the standard that establishes minimum health effects requirements for materials, components, products, or systems that contact drinking water, drinking water treatment chemicals, or both.

**NSF International**

RECOGNIZES

**CALGON CARBON CORPORATION**  
PITTSBURGH, PA

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November 21, 1999  
Certificate #C759007/000A

Henry J. Collins, General Manager  
Drinking Water Treatment Units

Certification of NSF that the carbon used in the Olympus Ceramic Water Filter is complying with ANSI/NSF Standard 42

NSF/ANSI Standard 42: Drinking Water Treatment Units - Aesthetic Effects. This standard covers point-of-use (POU) and point-of-entry (POE) systems designed to reduce specific aesthetic or non-health-related contaminants (chlorine, taste and odor, and particulates) that may be present in public or private drinking water.

**ERGANAL**  
Q.C. LABORATORIES

**Quality Control Laboratories**

10 Nikita Str., Piraeus, 185 31, Greece, Tel.: 0030 210 4171597, Fax.: 0030 210 4171466  
19 Geraniou Str., Athens, 105 52, Greece, Tel. 0030 210 5222496, Fax.: 0030 210 5248761

Athens, Oct. 11, 2009

**REPORT OF CONTROL**  
CONCERNING THE CAPABILITY OF A WATER FILTRATION APPARATUS UNDER THE TRADE MARK "OLYMPUS" Ceramic Water Filter<sup>®</sup> PRODUCED BY "CENTER ESAGOGIKI" S.A. FOR THE DETENTION OF COLIFORM AND E. COLI BACTERIA

**PURPOSE OF THE CONTROL**

This is to be assured the capability of the above mentioned apparatus for the effective detention of coliform and E. coli bacteria in case of filtration of heavy contaminated water with these bacteria.

**PROCESS OF THE CONTROL**

An unused apparatus of the above mentioned trade mark was tested. One liter of water, infected with bacteria of the coliform group of total population 1.000.000 cfu/100ml filtered through the tested apparatus. The filtered water was tested for the presence of the above bacteria. The membrane filtration method (ISO 9308-1:2000) has been used for this test.

The above control process has been repeated twice by the used apparatus. The apparatus kepted unused between the tests for 48hrs.

**RESULTS**

The results of all the three above tests were:  
Coliforms : 0 cfu/mL  
Escherichia coli : 0 cfu/mL

**CONCLUSION**

The tested apparatus of water filtration detains the coliform and E. coli bacteria effectively.

**REMARKS**

The above mentioned results concern only the apparatus and the bacteria which have been tested.

G.A. NTKOS  
Lab Manager



**AG. EN. T. Laboratories**

AGricultural & ENvironmental & Research Laboratories S.A.



Food Quality Services Laboratory

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