





TECHNOLOGIES



MODIFICATIONS





APPLICATION



ADVANTAGES





























High molecular compounds with cation – and anion-exchange properties.



SGS – POLYMERS





g/mol Molar mass

> Melting point



Boiling point



ARAGON

The composite polymeric material structured as a single block combined with silver as a bacteriostatic agent.

Invention Patent: № 2286354 № 2287356 Nº 2297270 Nº 2299087



The resorcin-based polymer shows the best results in removing contaminants from water.





ARAGON'S STRUCTURE IS FORMED BY MICROGLOBULES

The active ion exchange centers are located on the surface of globules, which makes filtering by Aragon much faster than by standard ion exchange materials.

μm

MCROGLOBULE









ION EXCHANGE MATERIAL







Microglobules form a regular highly-permeable and strong porous structure.

Pore size distribution















There are active ion-exchange groups on the globules' surface.





MICROGLOBULES

long polymer chains, when connected together, form a mechanically strong structure with a large internal surface area







ARAGON



ION EXCHANGE IN ARAGON

occurs on the globules' surface, which is much faster than in regular ion-exchange materials, because there is no diffusion through the grains' protective cover.

SPEED OF ION EXCHANGE IN ARAGON

grows with the speed of the source water flow, because due to the fast replenishment of solution in micropores the ion exhcange process becomes more efficient.



ION-EXCHANGE RESIN







ION-EXCHANGE RESIN

MICROGLOBULE (ARAGON)





ARAGON 2

The resin's particles are held by mechanical and electrokinetic bonds.





QUASI-SOFTENING









NO SCALE BUILD-UP and even removes the old limescale.







The experience of long -term use of filters

with

for filtering hard water in different Russian regions showed that even when the ion-exchange capacity of the filter is used up, the filtered water causes

NO SCALE BUILD-UP and even removes the old limescale.







QUASI-SOFTENING

Invention Patent: Nº 2261843 Nº 2286953

As clusters move in channels between microglobules, the pressure increases and causes a shift of chemical balance resulting in dissolution of carbon dioxide contained in water. This is how conditions for clusters recrystallization from CALCITE to ARAGONITE are created. The hardness salts exist in water as metastable structures (clusters). At the moment of leaving filter material the pressure grows and then drops rapidly. Carbon dioxide gets released, pH increases, and the chemical balance shifts towards formation of calcium carbonate in the form of aragonite.







CHANGE OF COMPOSITION **OF CARBONATES** 0.8 0.6 **SUIVE** 0.4 **(X-RAY SPECTRAL** 0.2 **ANALYSIS RESULTS** 24.0 32.0 48.0 56.0 64.0 40.0



Ordinary hard water:

500 ARAGONITE UDUCALCITE





Filtered water:

40% ARAGONITE GUVO CALCITE





HARD WATER



Kirov Military Medical Academy

ARAGON FOR PREVENTION OF KIDNEY STONE DISEASE

According to the results of the researches conducted at the Saint Petersburg Military Medical Academy, drinking of hard water filtered with ARAGON leads to reduction of crystals causing stone formation in size and quantity (2). Moreover, the aragonite form of hardness salts contributes to the better calcium absorption, thus facilitating kidneys' work.



WATER FILTERED WITH ARAGON CARTRIDGE



12*





FILTRATION METHODS







MECHANI CAL FILTRATION









SUSPENDED SOLIDS REMOVAL EFFICIENCY



IFTS (International Filter Testing Services), France



Size of removed particles, µm

Effective removal of suspended solids of the target particles' size.





ION EXCHANGE















METALS (INCL. RADIOACTIVE) Removal efficiency



V.G. Khlopin Radium Institute, Russia



Solution volume, L

CONCENTRATION OF ELEMENTS IN TEST SOLUTION, MG/L

•			$\mathbf{\diamondsuit}$	$\mathbf{\diamond}$	$\mathbf{\diamond}$	$\mathbf{\diamond}$			\blacklozenge	\diamond	
Са	Cd	Ni	Mg	V	Fe	Cu	Мо	AI	Pb	Cr	Zn
4.7	0.2	0.6	3.3	0.5	2.7	0.2	2.8	1.4	0.9	0.1	0.3
-	-	10 MAC	3 MAC	10 MAC	30 MAC	10 MAC	6 MAC	MAC	200 MAC	MAC	MAC



EFFICIENCY OF TREATMENT OF WATER OF WATER CONTAMINATED WITH RADIOACTIVE ELEMENTS



V.G. Khlopin Radium Institute, Russia



lsotope









IRON REMOVAL EFFICIENCY





Water flow volume, L





LEAD REMOVAL EFFICIENCY









MANGANESE REMOVAL EFFICIENCY





Water flow volume, L





COPPER REMOVAL EFFICIENCY





Water flow volume, L





SORPTION **SORPTION PROPERTIES OF ARAGON**













FREE CHLORINE REMOVAL



Filtered water volume, L



PESTICIDES **REMOVAL EFFICIENCY**



Filtered water volume, L

FILTERE D WATER Volume, L	UPSTREAM Concentration, MG/L	DOWNSTREAM Concentration, MG/L	REMOVAL EFFICIENCY, %
50	1.1	0.01	97.62
400	1.0	0.015	98.50
800	1.2	0.02	98.33
1200	1.0	0.02	98.00



DISINFECTION **REMOVAL OF VIRUSES AND BACTERIA**















There are only two companies in the world that can produce cartridges which completely remove all viruses and bacteria from water. These are Geyser GC (Russia) and AHLSTROM (USA).

Based on polymer Aragon





Based on nano alumina fiber





INVENTION НА ИЗОБРЕТ № 2506232 ™ СПОСОБ ИНАКТИВАЩИИ ВИРУСОВ В ВОДНЫХ СРЕДАХ № ч Патентообладатель(ли): ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕНИОСТИ ГОЛИТИСКИ С ОГРАНИЧЕННОЙ Автор(ы): Фридкин Александр Михайлович (RU), Гребенщиков Николай Романович (RU), Сафин Валерий Мансурович (RU) Зарегнстрировано в Государственном реестре изобретений Российской Федерации 10 февраля 2014 г. (не Срок действия патента истекает 23 апреля 2032 г. Руководитель Федеральной службы по интеллектуальной собственности Б.П. Симонов









VIRUSES CLASSIFICATION

VIRUS CLASS

SIZE (NM)

Hepatitis A	27 – 32	3	Hepatitis
Norovirus	27 - 40	82	Intestinal influ and acute enteric
Rotavirus	60 - 70	5	Rotavirus infe
Entero- and astroviruses	27 - 30	5	Poliomyelitis
Adenoviruses	70 - 90	5	Catarrh of the respiratory tract, co atypical pneumo



Aragon passed laboratory testing in Russian and international testing institutions.



DISEASES

PERCENTAGE (%)









MECHANISM OF VIRUSES REMOVAL BY ARAGON

Capsid

RNA

A virus is not able to replicate independently. It is searching for a life form inside which it would start replicating.

Most viruses have a protein coat (capsid) which protects RNA. To neutralize a virus it is enough to destroy the capsid or to damage its RNA.











ARAGON 'S PORES HAVE A STRONG SURFACE charge which is opposite to the charge of viruses.

Therefore, when water with viruses passes through the filtration material, an electric interaction occurs between the material and viruses similar to an electric force between two opposite charges.







IMAGES OF ARAGON PRODUCED BY ELECTRON MICROSCOPE














ELECTRIC FIELD OF A GLOBULE

A globule's surface is negatively charged and creates a strong electric field covering the entire pore.



ELECTRIC FIELD INSIDE PORE

Overlapping of individual globules' fields forms a highly gradient electric field of high intensity inside a pore

> Area of maximum field intensity









And without its protection the virus dies soon.



ELECTROKINETIC **IMPACT ON VIRUSES**

Electric field causes destruction of the viruse's protection cover.



FILTRATION MATERIALS - POTL. **MFASURFMFNT RFSUITS**



 ζ -potential decreases with increasing pore size (from 0,5 to 2 μ m). Hence, by varying the globules' position and size we can enable the polymer to be effective in removing bacteria and viruses.



THE PROPERTY OF ARAGON BIO TO CAPTURE VIRUSES AND BACTERIA WAS **TESTED AND PROVEN**



Pasteur Institute of Epidemiology and Microbiology, 2007 - 2010



Influenza Research Institute, 2011



Kirov Military Medical Academy, 2008



Università di Ferrara, 2012





A.N. Sysin research institute of human ecology and environment hygiene, 2011



Institut Pasteur de Lille, 2014



		и ФЕДЕРАЛЬН «НАУЧНО-ИСС И ГИГИ
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Г) В ОН СС Эф 1. 2. 3.	игиеническ комплексн фужающей етербургск ответствия фективноя На осноя Испытая воды от норовиру В ресурс отношен л, 200 л, Оценка з проведен исходной обеспечи	ая оценка эфф ых исследован й среды им ий НИИ Эп и с требования ти и методы е зании проведен ные ионообми вирусного загр усов и генатит ии ротавирусо 1000 л, 2000 л эффективности ное на водо й концентраци вают 100%
Г) В ОН СС Эф 1. 2. 3. 4.	комплексн фужающей стербургск ответствии офективной На осной Испытал воды от норовиру В ресурс отношен л, 200 л, Оценка з проведен исходной обеспечи требован Оценка металлой АРАГОН	ая оценка эфф ых исследован й среды им ий НИИ Эп и с требования ти и методы е вании проведен ные ионообми вирусного загр усов и генатита ии ротавирусо 1000 л, 2000 л эффективности ное на водо й концентраци вают 100% иям, предъявл эффективности о при их нача 1-БИО обеспеч-

других учреждениях.

д.м.н., профессор



еской оценки эффективности очистки воды от химических и микробных менными картриджами АРАГОН-БИО производства ООО «Акватория»

рективности работы ионообменных фильтров АРАГОН-БИО выполнена ниях, проведенных на базе ФГБУ НИИ Экологии человека и гигиены А.Н.Сысина Минздравсоцразвития России и ФГУН «Санктидемиологии и микробиологии им. Пастера» Роспотребнадзора в

ями ГОСТА Р 51871 «Устройства водоочистные. Общие требования к ее определения».

нных исследований были сделаны следующие выводы:

МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ

енные картриджи АРАГОН-БИО показали 100% эффективность очистки рязенения, проведенного на модельных водах с исходной концентрацией га А до 1x10° ТЦД/мл и ротавирусов - до 1x1010 ТЦД/мл.

иях картриджей АРАГОН-БИО получен 100% вирулицидный эффект в ов при их концентрации 1x10° ТЦД/мл на протяжении всего ресурса (50 ги 5000 л).

и очистки воды в аварийных ситуациях от бактериального загрязнения, проводной воде, контаминированной канализационными стоками с ией E.coli 2,2x105 КОЕ/мл показало, что картрилжи АРАГОН-БИО эффективность задержки E.coli и соответствие очищенной воды яемым к питьевой воде.

ги очистки воды от различных химических загрязнений, в частности, альной концентрации 2ПДК показало, что ионообменные картриджи чивают эффективную очистку от свинца (75%), алюминия (96%), железа

физико-химических и микробиологических исследований фильтры с риджами АРАГОН-БИО рекомендованы для дообеззараживания (E.Coli, сы, норовирусы) и доочистки водопроводной воды от химических алюминий, железо, медь) и улучшения органолептических показателей. картриджем АРАГОН-БИО могут быть рекомендованы для использования в дошкольных и школьных учреждениях, учреждениях социального профиля, лечебных и





TESTING REPORT OF A.N. SYSIN RESEARCH INSTITUTE OF HUMAN ECOLOGY AND ENVIRONMENT HYGIENE (RUSSIA)

"The testing of ARAGON cartridges showed 100% efficiency in purifying water from viral contamination, conducted on test water samples with initial concentration of noroviruses and Hepatitis A up to 1x10⁹ TCID/ml and rotaviruses up to 1×10^{10} TCID/ml."











Федеральное государственное бюджетное учреждение Научно-исследовательский институт ГРИППА Министерства здравоохранения и социального развития Российской Федерации

По результатам проведенных исследований по оценке барьерной функции картриджей «АРАГОН-БИО» в отношении ротавирусов и норовирусов при очистке водопроводной воды

На базе Федерального государственного бюджетного учреждения «Научноисследовательский институт гриппа» Министерства здравоохранения и социального развития Российской Федерации (ФГБУ «НИИ гриппа» Минздравсоцразвития России) было проведено исследование барьерной функции материала «АРАГОН-БИО» в отношении ротавирусов и норовирусов, являющихся наиболее распространенными возбудителями острых кишечных инфекций, передающихся через воду. На основании проведенных испытаний были сделаны следующие выводы:

воде.

Таким образом, на основании результатов проведенных вирусологических исследований фильтр «Гейзер БИО» для воды с картриджем «АРАГОН-БИО» можно рекомендовать как простое и эффективное средство дообеззараживания водопроводной воды. Фильтры «Гейзер БИО» могут быть рекомендованы для постоянного использования в дошкольных и школьных учреждениях, учреждениях социального профиля, лечебных и других учреждениях.

197376 г. Санкт-Петербург ул. .Проф. Попова, 15/17

Заключение

1. Фильтр «Гейзер БИО» с картриджем «АРАГОН-БИО» удаляет из воды 99,99% опасных для человека патогенов - ротавирусов и поровирусов.

2. Максимальная концентрация вирусов в воде, полностью задерживаемая картриджем «АРАГОН-БИО», составила 1,0х10⁸ частиц/л для ротавирусов и 0,5x107 частиц/л для норовирусов, что более чем в 1000 раз превышает максимально возможную концентрацию патогенных вирусов в водопроводной

> Директор ФГБУ «НИИ гриппа» Минздравсопразвития России Академик РАМН

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Тел.: +7 (812) 234-6200 Тел./факс: +7 (812) 234-5973



TESTING REPORT INFLUENZA RESEARCH INSTITUTE

"ARAGON BIO filter removes from water 99.99% of human pathogens - rotaviruses and noroviruses. The maximum concentration of viruses in water, completely captured by the filter, was 1.0x10⁸ U/L for rotaviruses and 0.5×10^7 U/L for noroviruses, which exceeds the maximum permissible concentration of pathogenic viruses in tap water by nearly 1000 times".







UNIVERSITA DEGLI STUDI DI FERRARA / UNIVERSITY OF FERRARA DIPARTIMENTO DI MEDICINA SPERIMENTALE E DIAGNOSTICA : DPT. EXP. & DIAGNOSTIC MEDICINI RIOLOGIA / SECTION OF MICRORIOLOGY, Via LUIGI BORSARI 46 - 44106 FERRARA - UTAL

REPORT EFFICACIA VIRUCIDA/ EVALUATION OF VIRUCIDAL ACTIVITY

CONCLUSIONI / CONCLUSIONS:

Sulla base dei risultati ottenuti, rispettati i criteri di validità del saggio, il filtro "Geyser filter for water treatment" è risultato VIRUCIDA, in condizioni di pulito (0,3 gr/l albumina) e in condizioni di sporco (3 gr/l albumina + 3 ml/l di eritrociti), nei confronti di Polyovirus tipo 1, ceppo LSc-2ab e di Herpex simplex virus Tipo 1, ceppo KOS, dopo il tempo di filtrazione, dimostrando una riduzione della vitalità corrispondente a una riduzione > 99,999 %, secondo quanto previsto dal metodo di prova e dai requisiti della norma UNI EN 14476:2007 - Fase 2 / Stadio L

According to EN 14476: 2007 - Phase 2 / Step 1 standard., the product "filtro "GEYSER FILTER FOR WATER TREATMENT" possesses VIRUCIDAL ACTIVITY, under clean condition (0,3 gr/l bovine albumin) and dirty condition (3 gr/l bovine albumin+ 3 ml/l erythrocytes), was obtained viral reduction equal at least 99,999%, for referenced strains Polyovirus type 1, LSc-2ab and Herpex simplex virus type 1, KOS.

Ferrara: 25/01/2012 Ferrara: January 25th 2012

> (Firma / Seguence Prof. Pier Giorgio Balboni) UNIVERSITÀ DI FERRAR DIP.TO MEDICINA SPERIMANTALE E DIAGNOSTICA – SEZIONE DI MICROBIOLOGIA DPT. EXP. & DIAGNOSTIC MEDICINE - SECTION OF MICROBIOLOGY UNIVERSITY OF FERRARA



Pour ppi peceni





TESTING REPORT OF UNIVERSITÀ DI FERRARA,

"According to the results of the laboratory testing under procedure UNI EN 14476:2007 - phase 2, step 1, the filter

"Geyser" has an antiviral effect and clears water of herpes virus LSc-2a type 1 and circulating poliovirus. The laboratory tests have the virus reduction by 99,999%, which conforms to the stated standards and requirements of UNI EN 14476:2007 – phase 2, step 1

The filter's efficiency was proven in the course of laboratory testing with use of albumin (0.3 g/l)and albumin (3 g/l) + erythrocytes (3 ml/l)."



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REPORT EFFICACIA VIRUCIDA/ EVALUATION OF VIRUCIDAL ACTIVITY

CONCLUSIONI / CONCLUSIONS:

Sulla base dei risultati ottenuti, rispettati i criteri di validità del saggio, il filtro "GEYSER FILTER FOR WATER TREATMENT" ha dimostrato l'attività VIRUCIDA NEI CONFRONTI DEI BATTERIOFAGI, dopo il tempo di filtrazione, in presenza di sostanze interferenti dimostrando una riduzione della vitalità corrispondente a una riduzione >99,99 % del batteriofago MS2, secondo quanto previsto dal metodo di prova e dai requisiti della norma UNI EN 13610:2004 - Fase 2 / Stadio 1.

According to EN 13610: 2004 - Phase 2 / Step 1 standard., the product "GEYSER FILTER FOR WATER TREATMENT" possesses VIRUCIDAL ACTIVITY AGAINST BACTERIOPAHGES, after filtration with interfering substances was obtained viral reduction > 99.99%, for referenced strains Bacteriophage MS2.

Ferrara: 20/06/2012 Ferrara: June 20 th 2012



(Firma / Segnature Prof. Pier Giorgio Balboni) UNIVERSITÀ DI FERRARA DIP.TO MEDICINA SPERIMANTALE E DIAGNOSTICA - SEZIONE DI MICROBIOLOGIA DPT. EXP. & DIAGNOSTIC MEDICINE - SECTION OF MICROBIOLOGY / UNIVERSITY OF FERRARA





TESTING REPORT OF UNIVERSITÀ DI FERRARA,

"According to the results of laboratory tests, the "Geyser" filter has antiviral effect and removes bacteriophages from water. The laboratory tests confirmed reduction of MS₂ bacteriophage by 99.99%, which conforms to the stated standards and requirements of EN 13610:2004."









Institut Pasteur de Lille **INSTITUT PASTEUR DE LILLE**

(FRANCF)

of the Institute (Lille). and Physiology.





The institute is named after the famous French microbiologist Louis Pasteur, its founder and the first director. For his prominent services to France Louis Pasteur was buried in Notre-Dame de Paris Cathedral, but later reburied on the territory

The important discoveries made in Pasteur Institute have contributed to the success of the fight against such virulent diseases as diphtheria, tetanus, tuberculosis, poliomyelitis, influenza, yellow fever and plague. The human immunodeficiency virus was discovered here in 1983. Since 1908 ten scientists of this institute have received Noble Prizes in Medical Science







Test strains of bacteria and viruses typical for water supply networks were selected for testing.

- Salmonella

- Hepatitis A
- Rotavirus



BACTERIA AND VIRUSES REMOVAL

- Legionella pneumophila - Polioviru strain Sabin type 1







BACTERIA AND VIRUSES REMOVAL Salmonella

Salmonella is a mouse typhoid causative agent. Non-spore-forming rod-shaped bacteria. Length 1-7 µm; width about 0.3-0.7 µm. Salmonella bacteria are gram-negative mobile facultative anaerobic bacilli.

Growth and counting medium: Trypticase soy agar.







BACTERIA AND VIRUSES REMOVAL

Retention percentage



Number of iterations







Legionellosis (Legionnaires' disease) has been known since 1976 when it appeared as ARVI outbreak with severe pneumonia and high lethality among participants of the "American Legion" Veteran Organization's congress in Philadelphia. 182 persons of 4400 congress participants became ill, 29 of them died. This is when the disease was called the "Legionnaires' disease". In most cases the causative agent of the disease is Legionella pneumophilla. The habitats of legionella are fresh water bodies and soil, water supply and air conditioning systems in buildings, boilers and shower facilities, fountains, etc.



STRAINS AND MEDIA BACTERIA LEGIONELLA PNEUMOPHILA

Legionella pneumophila – pathogenic gram-negative bacteria. Diameter: 0.2 to 0.7 μ m, length: 2 to 20 μ m.











REMOVAL OF LEGIONELLA



Number of iterations



Retention percentage









STRAINS AND MEDIA VIRUSES POLIOVIRUS

Poliovirus is a human enterovirus and member of the family of Picornaviridae. Virus size: 27-30 nm.







REMOVAL OF HEPATITIS A



Number of iterations



Retention percentage







BACTERIA **AND VIRUSES REMOVAL EFFICIENCY**



Removal efficiency







REMOVAL OF MICROORGANISMS FROM WATER BY GEYSER FILTERS

According to a test protocol based on filtration of artificially contaminated ultrapure water, GEYSER filters ARAGON BIO were able to remove bacterial and viral contamination with the following values (obtained in separate experiments):



Institut Pasteur de Lille Unité de Sécurité Microbiologique – Microbiological Safety Unit 1 rue du Professeur Calmette - BP 245 - 59019 Lille Cedex - France

Legionella pneumophila serogroup 1 (CIP 103854), mean removal 99.99987% (5.9 log)

Salmonella Typhimurium (ATCC 14028), mean removal 99.998% (4.8 log)

Poliovirus strain Sabin type 1, mean removal 99.84% (2.8 log)

Rotavirus strain simiens SA114F1, mean removal 99.99% (4.0 log)

- Hepatitis A virus strain HM175/18f (ATCC VR-1402), mean removal 96% (1.4 log)

Lille, September 3rd, 2014

1, rue du professeur Calmette BP 245 - 59019 Lille cedex

Dr. Michèle Vialette Head of the Microbiological Safety Unit Institut Pasteur de Lille

Geyser filters were able to remove the tested bacte-ria from water, with log removal ranging from 5,3 to 7,3. Virus removal efficiency was lower - with average log removal of 2.8 for poliovirus, 4,0 for ratavirus and 1,4 for Hepatitis A.





TESTING REPORT OF INSTITUT PASTEUR DE LILLE, FRANCE

ONCLUSION:













FILTERELEMENT ARAGON

COMPOSITION WATER TYPE

Iron-rich water

Ion-exchange polymer material Aragon in H+ modificatio













ARAGON

COMPOSITION

Iron-rich water

WATER TYPE

Ion-exchange polymer material Aragon in H+ modification













ARAGON H

COMPOSITION WATER TYPE

Hard water

Ion-exchange polymer material Aragon in Na+ modification













ARAGON M

WATER TYPE

COMPOSITION

Soft water

Ion-exchange polymer material Aragon in Ca+ modification













ARAGON EN

COMPOSITION WATER TYPE

Soft water

lon-exchange polymer material Aragon in Ca+ modification













ARAGON EH

COMPOSITION WATER TYPE

Hard water

Ion-exchange polymer material Aragon in Na+ modification













ARAGON 2

COMPOSITION WATER TYPE

Hard water

Aragon H and cation-exchange resin combined cartridge













ARAGON BIO

WATER TYPE COMPOSITION

Soft/ hard water

Modification of cartridge Aragon with a high surface charge (ζ-potential)













ARAGON MAX

WATER TYPE COMPOSITION FUNCTION APPLICATION

Hard water

Aragon and special ion-exchange resins combined cartridge







Enlarged filtration area provides a high capacity and uniform softening. Filter life is up to 12 months without regeneration. Used only in combination: Aqua Soft, Aragon Max and CBC. Feed water temperature +4...+75°C





ARAGON SMART

WATER TYPE

Hard water

lon-exchange polymer material Aragon in Na+ modification













ARAGON 3 ECO

WATER TYPE

COMPOSITION

Soft, hard water

3-layer combined cartridge from polypropylene prefilter (5 µm), Aragon (0,1µm) and carbon block (10 µm)













ARAGON 3 (10"BB)

WATER TYPE COMPOSITION

Soft, hard water

3-layer combined cartridge from polypropylene prefilter (5 µm), Aragon (2 µm) and carbon block (10 µm)











Cartridge for in-line filters provides overall purification. Feed water temperature +4...+75°C



APPLICATION



ARAGON 3 (20"BB)

WATER TYPE

Soft, hard water

3-layer combined cartridge from polypropylene prefilter (5 μm), Aragon (2 μm) and carbon block (10 µm)













APPLICATIONS


























GEYSER – EURO

Inexpensive stylish compact filter for water filtration and conditioning. It is easily attached to any type of faucet and comes with all required adaptors.

FILTER LIFE

up to 3 000 L





GEYSER – BIO

Geyser BIO system has no analogues in Russia. It makes water safe to drink without boiling! The comprehensive water purification by Geyser BIO provides potable water 100% clear of all contaminants, icnluding bacteria and viruses.

FILTER LIFE

up to 7 000 L









GEYSER ECO

Geyser Eco - a modern effective compact system for a multipurpose water treatment. A food-grade stainless steel housing. Easily connected to a cold water pipeline with JG flexible hoses. Fast and simple cartridge replacement due to a clamp connection.

FILTER LIFE

up to 12 000 L







GEYSER – CLASSIC

Water treatment system with an enhanced degree of purification due to the use of cartridges Aragon and BAF. The top of the filter is made in the form of a monoblock with the double-walled cups that guarantes no leakage. The cartridge installation system makes it simple to change the water flow direction - all to make installation easy!

FILTER LIFE

up to 10 000 L













1U EURO

A countertop Geyser filter is a simple, economical and effective solution for tap water treatment. Installed near the sink.

FILTER LIFE

up to 7 000 L





GEYSER – MAX

Geyser Max system is designed for hard water treatment. The combination of unique technologies "AquaSoft", Aragon Max extends the filter's life up to 1 year with no need of replacement or regeneration of the filter elements.

FILTER LIFE

up to 10 000 L









GEYSER SMART

Geyser Smart has the so-called Qlck lock system which allows quic ment of cartridges. Replacement of cartridge has never been easier Perfect taste of pure water.

Quick cartridge replacement Qlck lock system Compact size

FILTER LIFE

up to 10 000 L











10'' SLIM LINE















 Bottom water discharge - easy and safe replacement of cartridge. Clamp connection of the cap.



CARTRIDGE



TYPHOON 10" BIG BLUE









Bottom water discharge - easy and safe replacement of cartridge.

Clamp connection of the cap.





TYPHOON 20" BIG BLUE























































All filtered out impurities are permanently captured in the labyrinth structure of the cartridge.

A drop of filtered water's pressure is a signal for replacement or regeneration of the cartridge.

Removal of different groups of contaminants by using several treatment methods simultaneously allows to purify water from all harmful impurities.

A quality of the Aragon cartridge to transform the hardness salts' structure into aragonite - a healthy well absorbed form of calcium.

ADVANTAGES

Integrated into the cartridge in an unwashable form has an absolutely safe bacteriostatic effect. It is not washed out into the filtered water and guarantees 100% protection against reproduction of filtered out microorganisms.

The cartridge creates an electric field which destroys the viruses' protection cover.









Allows comprehensive water treatment in the temperature range of +4 to +75°C.

Home-made recovery of the cartridge's filtration properties allows to use one cartridge multiple times.









