



GROUP
BARCHEMICALS®
LA FORMULA PERFETTA

**GENERAL CATALOGUE
BIOLAKES AND BIO POOLS
2018 - V2**

BIOLOGICAL
BIOLAKES AND
BIO POOLS



This catalog cancels all previous ones and will be valid until replacement, even partial, with new versions.

List prices are valid for the date of issue.

Barchemicals reserves the right to modify and update prices, depending on the variation in the prices of raw materials and the EUR / USD exchange rate.

Issue date June 2018 - V2 November 2018



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This Catalog is the result of over thirty years of experience of a Large Italian Group: **Barchemicals Group**.

Barchemicals Group represents an entirely Italian reality made up today of 3 companies that share projects, visions and values, including Safety for customers and collaborators and the protection and respect for Environmental Resources.

It operates in the primary, drinking and water treatment sector **pool**, both in Italy and abroad, ranging at 360 ° on every management problem, with particular regard to the disinfection and water treatment sector, environmental disinfection and sanitation, control and automation.

The Group - founded and directed by dr. Corrado Barani - is the owner of numerous patents; the resources dedicated to Research and Innovation make up the majority of the investments and are aimed in particular at the development of issues related to **Biosecurity** and to safeguard the health of consumers and operators

Barchemicals is the parent company; produces chemical products for the treatment and conditioning of all types of water. Thirty years of experience is condensed into 4 product lines: Swimming pool, Detergent, Ti line and the revolutionary Line de "**The Salts of Life**®". Thanks to an innovative and efficient production system, it designs and produces high quality and reliable chemical specialties internally. The products - rigorously "Made in Italy" meet strict quality criteria and are developed through a rigid path of research and safety tests

The **Biolaghi and BioPiscine Barchemicals Catalog** therefore, it is aimed at the most qualified players in the sector and represents a "sum" of the synergies put in place to fully satisfy the needs of the most qualified, demanding and oriented customers towards a correct correlation with environmental issues

Reliability, Safety and Innovation are the 3 values through which it declines its Research and Development activity, offering cutting-edge solutions and products:

- Treatment systems **BIO**
- Line treatment systems **UV-C Nanotech** double wavelength
- Disinfection systems
- BioVitrum excellent filter media
- Dosing systems - first and foremost the revolutionary diluters of the series **DDS**

This vision arises from the answer to a simple question: what does the consumer want today? Quality, service, timeliness, design, efficiency, innovation, the right quality / price ratio; all with a particular focus on safety

Barchemicals Group has the ambition to satisfy these needs and to anticipate new ones, to develop - highlighting and enhancing all the strengths developed by the Group - a new culture of the Environment in the name of Innovation and Safety.



www.barchemicalsgroup.it

Follow the Barchemicals Group on:



BARCHEMICALS GROUP

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BIO SAFETY

Barchemicals believes in Biosecurity. Barchemicals introduces the fundamental concept of Biosecurity to the swimming pool sector.

Entering the world of swimming pools, one will no longer operate in watertight compartments, but will take care of all aspects concerning safety in a holistic and 360 ° way.

We at Barchemicals will no longer dedicate ourselves only to water and the plant engineering part, but we will take care of the environment in general (air, water area, poolside, reception...). We will no longer take care only of the health of the bather, but also of that of anyone who uses the pool, whether it is a companion or an operator of the system.

Biosecurity does not only mean taking an interest in the pool at 360 °, but also worrying about the surrounding environment, for example avoiding downloading polluting products or avoiding that through the technical equipment of the pool - such as the air that comes out of the AHUs or evaporative towers - it they can spread diseases (legionella) also in the areas surrounding the swimming facilities themselves.

Biosecurity also means preventing all those phenomena which, in the short or long term, can cause direct or indirect diseases to people who have frequented or will frequent the pool. Precisely for this reason, the Barchemicals R&D department, together with universities and private or public research institutes, finances and supports the research of new less polluting and more effective materials.

In particular, Barchemicals pays considerable attention to the development of biocides, effective even at low dosages, which are less dangerous for people's health and which do not present phenomena of acquired resistance.

Barchemicals also studies the design of new filtration materials that are able to self-sterilize and reduce the toxic pollutants present in swimming pool water or in sanitary or drinking water, as well as carrying out research on how to reduce the pollutants present in the air of the swimming pool.

Barchemicals supports the research and development of new purification systems, but also promotes everything that, in the short or long term, can help mankind to live in health and happiness.

Barchemicals is aware of having a very important social role as in the first 35 years of its life it gave work and dozens and dozens of people, it helped to raise many young people who spent, for more or less long periods, in its laboratories and at its offices or production departments.

Barchemicals has contributed, through the competitive stimulus of free competition, to raise the quality of water treatment systems in swimming pools in Italy and abroad.

Barchemicals is - and will always be - at the forefront, because the development of research and the promotion of people's health and well-being are intrinsic in its DNA and in its Fundamental Values.

Biosecurity is the latest goal that Barchemicals is now trying to achieve for the good of all.

WHAT DOES THE COMMITMENT TO BIOSECURITY MEAN IN GOOD SUBSTANCE FOR BARCHEMICALS GROUP?

1. First of all, carry out the registration of the products that contain the active biocidal ingredients, present in the authorized lists at European level (BPR) and at local level, if outside Europe.
2. Carry out the registration of PMC in Italy when the ministry of health requests it.
3. Avoid using unauthorized products or products lacking technical equivalence as required by the BPR.
4. Select suppliers based on strict ethical and moral criteria and based on the quality of raw materials.
5. Carry out R&D in collaboration with Universities and Research Institutes.
6. Promote conferences and continuous training of its staff and customers.
7. Promote R&D scholarships.
8. Develop new systems for water and air treatment (biomaterials, chemical-physical systems, UV, etc.)
9. Join and organize conferences and events that promote Biosecurity.
10. Widen the fields of application of Biosecurity, help the transfer of one's skills in different sectors of the pool: drinking water for human and animal use, sanitary water, industrial water, waste water, water for food use and water for washing and food processing.
11. Promote the expansion of the concept of Biosecurity also in developing countries.

Castelnuovo Rangone, 23 April 2018

BARCHEMICALS GROUP

Barani dr. Corrado

OUR PRINCIPLES



Pure water - We work with respect for water as a source of well-being, purity and a vital principle. We are therefore committed to "treating" the water in this light.

***Pure water** - We considers water a source of wellbeing, purity and vitality, which is why we are committed to "treating" water efficiently.*

Design and Innovation

The. Is deeply rooted in our DNA concept of Design and Innovation. All of our products fit into that vision.

Design and Innovation

The concept of design and innovation is strongly rooted in our DNA. All our products are geared towards this.



Safety - We lend particular attention to safety, both of those who work professionally in the swimming pool sector, both of those who use it as a user swimming facilities and compliance with satisfactory quality requirements.

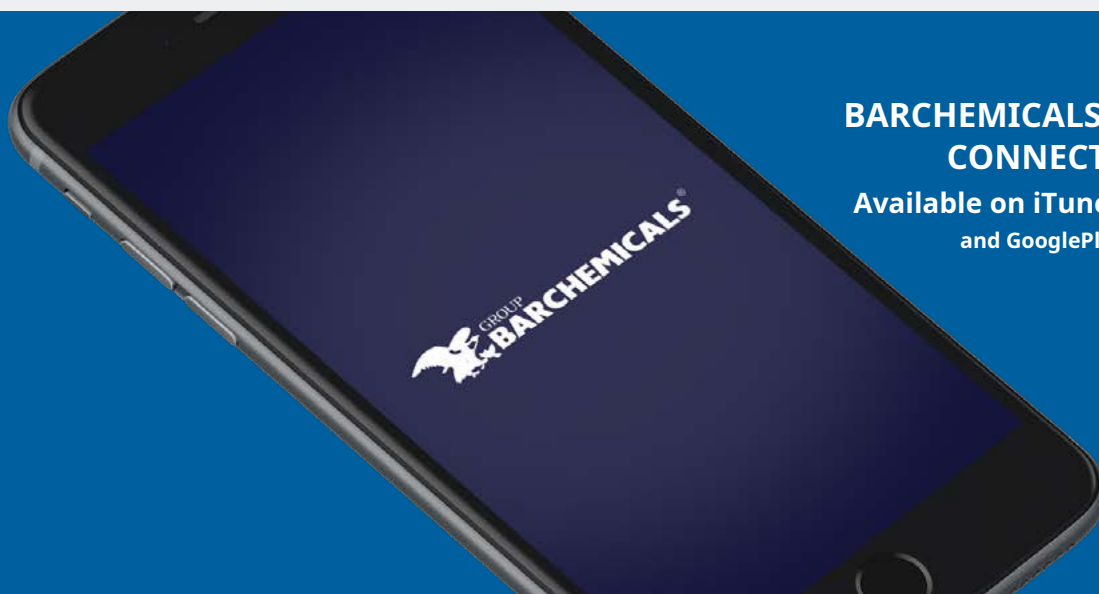
Safety - Our organization is focused on safety, both those who work professionally in the pool and users of the swimming facilities, in compliance with high quality standards.



Energy saving
We are constantly engaged in the study and introduction of solutions that respect the environment. Our priorities are the reduction of water waste, energy saving and the use of alternative sources.

Energy Saving - We are committed to researching and developing environmentally-friendly solutions. Our priorities are wasting less water, saving energy and using alternative sources.

NEWS AND INFO



BARCHEMICALS CONNECT

Available on iTunes
and GooglePlay



BARCHEMICALS CONNECT

Connected with Barchemicals Group wherever you are. The Barchemicals Connect app allows you to have access at any time to a series of information and documents. In fact, you can easily browse the most updated versions of our catalogs, manuals and safety data sheets.

Furthermore, if you are a customer or partner, using your personalized login details you can download and view additional documents,

like:

- Commercial documents: order confirmations, invoices, etc.
- Results of your analyzes
- Communications and notices from the Barchemicals Group
- **View and use the analysis coupons**
- Manage loyalty points and rewards Barchemicals Connect also allows you to send a request for intervention or analysis at any time.

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For the care and health of your Biologoe



COMPLETE PRODUCT LINE

In recent years, the desire of people to integrate with nature has accelerated the demand for bathing water bodies where it is possible to bathe immersed in a natural ecosystem that integrates perfectly with the surrounding environment and has thus accelerated the demand for "swimming pools" no longer traditional defined **BIO POOLS**. Frequently these are confused with the **ornamental pond**home.

The difference between these two basins is remarkable, just as different is the use for which they are born, while instead common is often the ornamental aspect of both, and it is for this reason that many times the layman confuse one with the others.

BIO POOL

There **BIO POOL** it is a water body waterproofed with respect to the ground and not chemically disinfected built for bathing which exclusively involves the use of biological and / or mechanical purification for the disinfection of the same, excluding any other optional treatment system, including physical, such as the rays UV

In **BIO POOL** on the other hand, small insects and small invertebrates may be present and tolerated, often finding refuge on the shores of the phytodepuration area, fish or large aquatic animals are not tolerated.

They cannot be defined as BIO POOL all those bathing water bodies treated with chemicals, with UV rays or with any other disinfectant system that destroys biological life.

BIOLAKE - BATHING LAKE - ORNAMENTAL LAKE

In general it is a natural or artificial reservoir of water not isolated from the ground in which in addition to the presence of phyto purifying plants we often also have the presence of large aquatic fauna such as fish and waterfowl but with their faeces and urine they tend to pollute, eutrophicate, and dirty the water, often making it cloudy and full of algae.

To these two terms are often added other definitions, such as natural pool, bathing lake, nature pool, etc. wanting to indicate with these names structures that by construction type or type of treatment are absolutely not in the field of bio pools nor in the field of bathing bio-lakes, but are often simple ornamental structures, further confusing the "waters" for the layman.

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► Here we do not want to enter the open controversy between purists of **BIO POOL**, which provide for a rigorous use of mechanical and biological purification only to keep the water of the reservoir in safe and bathing conditions and those who instead broaden the definition allowing, where necessary, the use of other disinfection systems to guarantee the hygienic conditions of the 'water.

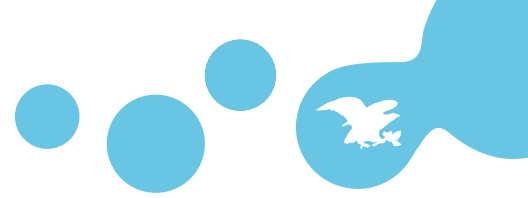
But it is necessary to keep your feet firmly planted on the ground and remember that while in the Nordic countries, the average summer temperatures hardly exceed 25 ° C and therefore it is relatively easy to keep the biological balance of the bio-pool or bio-lake under control, in Mediterranean countries the temperatures averages sometimes exceed 30 ° C for several days and in such conditions it becomes extremely difficult to keep these biological balances under control without resorting to the use of products and technologies that help nature to keep the water parameters within values that ensure not just a beautiful water, clear and pleasant to the eye, but above all that they avoid that pathogenic bacterial forms find in these environments and in these conditions the ideal conditions to proliferate beyond measure until they become dangerous for the people who swim in the reservoir itself.

It is starting from these considerations that the laboratories **BARCHEMICALS** have developed a series of products "**CHEMICALLY NATURAL** " and a range of purification technologies that while remaining respectful of the **NATURE** make it easy even for non-experts to keep the water of the **BIO POOL** or of **BANEABLE BIOLAKE** in conditions that do not compromise the health of the bathers who frequent them and at the same time guaranteeing water **CLEAR**, **CRYSTALLINE** And **HEALTHY** in full respect of nature and aquatic plants and fauna.



PARAMETERS CHEMICAL, PHYSICAL AND BACTERIOLOGICAL IMPORTANT TO KEEP UNDER CONTROL FOR BIO POOLS AND BATHING BIO LAKES

- pH
- CONDUCTIVITY
- OXYGEN
- CLEARNESS: immersing the "Sechi disk" in the waters of the pond until it is no longer visible
- TOTAL PHOSPHORUS
- BACTERIA (bacterial typing, in particular the presence of the following species is determined: Enterococci, Total Coliforms and Escherichia coli, Pseudomonas aeruginosa).



ITALIAN REGULATION:

OFFICIAL BULLETIN OF THE LIGURIA REGION

TABLE C - REQUIREMENTS OF THE WATER CONTAINED IN THE TANK OF ORGANIC OR BIO POOLS - GUIDING VALUES

MICROBIOLOGICAL REQUIREMENTS	
Escherinchia coli	<100 ufc / 100ml
Enterococci	<50 ufc / 100ml
Pseudomonas aeruginosa	<50 ufc / 100ml
CHEMICAL-PHYSICAL REQUIREMENTS	
Oxygen saturation	Between 60 - 120%
pH	6 - 9
Transparency	At least 2 m or, at shallower depths, visibility of the bottom at the deepest point
Total phosphorus	<0.015 mg / l
Nitrates	<30 mg / l
Water temperature	<24 ° C at a depth of thirty cm

To ensure the maintenance of the microbiological parameters of reference, bathing establishments with biological water treatment must not have the presence of aquatic animals and must exclude the possibility that other types of animals access them (dogs, ducks, geese, fish).

RECOMMENDED AQUATIC FLORA

nymphaea, lotus flower, water hibiscus, iris pseudoacorus, iris ensata, zantedeschia, pontederia cordata, hottuinia, ipporus vulgaris, Lytrum salicaria, butomus umbellatum, caltha palustris, scirpus, salvinia, etc ..
 submerged as myriophyllum, eleocharis, callitriche, etc ..
 perennial herbaceous such as: lobelia cardinalis, verbena bonariensis, bergenia, myscantus, cortaderia, etc ...

Barchemicals has formulated products capable of improving water conditions while fully respecting nature:

- **ECO-pH** - prompt remedy against too high pH values for bio-lakes and bio-pools
- **ECO LIFE** - ready remedy in case of hypoxia for bio-lakes and bio-pools
- **PHOSPHOREMOVER** - prevention against algae through phosphate sequestration for bio lakes and bio-pools
- **ECO ALG** - bio-conditioning for the control of algae growth for bio lakes and bio-pools
- **ECO ALG PLUS** - bio-conditioning for the control of algae growth for bio-pools
- **ALGO STOP** - solid bio-conditioning to control the growth of filamentous algae for bio lakes and bio pools
- **BIO ALG** - liquid bio-conditioning for the control of algae growth for bio lakes
- **BLUE LAKE** - Concentrated bio-conditioning for algae growth control for plant and fish-free water resources.
- **BIO LAKE** - saturated solution with balanced formula for bio-pools and bio-lakes.

ECO - pH

The solution against too high pH values for bio-lakes and bio-pools

Recommendations for use

ECO-pH is used both to lower pH values that are too high (above 9), and as a prompt intervention in case of ammonia poisoning and CO deficiency.

Ideal for

Bio-lakes and bio-pools.

Value added

ECO-pH acts quickly by counteracting the effects of an excess of ammonia and brings CO₂ to the plants favoring a more luxuriant growth. ECO-pH leaves no residue of any kind in the water.

Code	Description	Conf.	Pieces/ Cart	Qty Pallet
160410030	ECO-pH	FU 5 lt	-	-

ECO - LIFE

The solution in case of hypoxia for bio lakes and bio pools.

Recommendations for use

ECO-LIFE is used to treat acute oxygen deficiencies that can lead to the death of fish in bio-lakes and regulates the oxygen content in bio-pools. ECO-LIFE avoids the formation of harmful gases (ammonia, hydrogen sulphide) due to the decomposition of sediments on the bottom of the lake.

Ideal for

Bio-lakes and bio-pools.

Value added

ECO-LIFE immediately brings vital oxygen to the ecosystem of the lake. ECO-LIFE regulates the oxygen content in the water by promoting correct decomposition of the sludge and contributes to increasing the transparency of the water.

Code	Description	Conf.	Pieces/ Cart	Qty Pallet
160410040	ECO-LIFE	IF 5 kg	-	-

PHOSPHOREMOVER

Prevention against algae through phosphate sequestration for bio lakes and bio pools.

Recommendations for use

PHOSPHOREMOVER is used to decrease the phosphate content in water, the main substrate for the growth of algae.

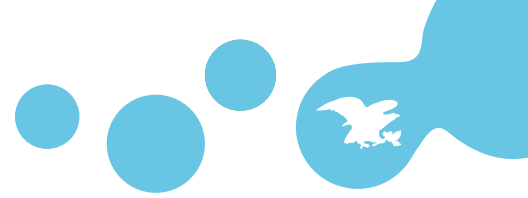
Ideal for

Bio-lakes and bio-pools.

Value added

PHOSPHOREMOVER sequester phosphates transforming them into an inert and insoluble mineral, apatite. PHOSPHOREMOVER reduces the phosphate content in the water, keeping it below 0.035 ppm (a determining value for excessive algae growth).

Code	Description	Conf.	Pieces/ Cart	Qty Pallet
056052	PHOSPHOREMOVER	FU 5 lt	-	-



ECHO ALG

Bio-conditioning for the control of algae growth for bio lakes and bio-pools.

Recommendations for use

Product used to counteract the proliferation of single-celled green algae that make the water take on a green color, blue algae and filamentous algae.

Ideal for

Bio-lakes and bio-pools.

Value added

ECO ALG is a copper-free algaecide, biodegradable and can also be used in the presence of fish.

Code	Description	Conf.	Pieces/ Cart	Qty Pallet
160410050	ECO ALG	FU 5 lt	-	-

ECOALGPLUS

Bio-conditioning for the control of algae growth for bio-pools.

Recommendations for use

Product used to counteract the proliferation of single-celled green algae, blue algae and filamentous algae. The increase in algae is due to a too high content of nutrients (phosphates and nitrates) or to dysfunctions of the biological balance due to the presence of decomposing organic material.

Ideal for

Bio-pools.

Value added

ECO ALG PLUS is able to block and contrast the growth of algae, prolonging its action throughout the season.

Code	Description	Conf.	Pieces/ Cart	Qty Pallet
160410060	ECO ALG PLUS	FU 5 lt	-	-

ALGO STOP

Solid bio-conditioning for the control of algae growth

filamentous for bio lakes and bio pools.

Recommendations for use

ALGO STOP acts through the release of active oxygen in the water, counteracting the proliferation of filamentous algae and destroying the mucilage fungi that live in symbiosis with them.

Ideal for

Bio-lakes and bio-pools.

Value added

ALGO STOP improves the decomposition of sludge on the bottom by providing vital oxygen for microorganisms, it is a completely biodegradable product and does not accumulate in aquatic organisms.

Code	Description	Conf.	Pieces/ Cart	Qty Pallet
160410070	ALGO STOP	IF 5 kg	-	-

BIOALG

Liquid bio-conditioning for the control of algae growth for bio lakes.

Recommendations for use

Product used to counteract the proliferation of single-celled green algae that make the water take on a green color, blue algae and filamentous algae.

Ideal for

Bio-lakes.

Value added

BIOALG reduces the growth of algae by subtracting the visible radiation essential for their proliferation, it is copper-free and compatible with aquatic organisms.

Code	Description	Conf.	Pieces/ Cart	Qty Pallet
220656004	BIOALG	FU 5 lt	-	-

BLUE LAKE

Concentrated bio-conditioning for algae growth control for plant and fish-free water resources.

Recommendations for use

Product developed to counteract the mass growth of unicellular green algae and blue algae in water resources devoid of plants and fish.

NB Do not use in the presence of plants and fish.

Ideal for

Surface fountains, water basins, water features.

Value added

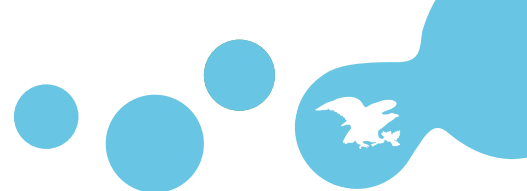
BLU LAKE blocks the photosynthesis of algae and prolongs its action during a season by effectively preventing the growth of algae.

Code	Description	Conf.	Pieces/ Cart	Qty Pallet
160410080	BLUE LAKE	FU 5 lt	-	-

BIO LAKE

The line is aimed at lovers and owners of bio pools and bio lakes who want to exploit the natural properties of I Sali della Vita. The product is biocompatible and does not alter the balance of the microflora and aquatic fauna. Saturated solution with balanced formula for bio-pools and bio-lakes.

Code	Description	Conf.	Pieces/ Cart	Qty Pallet
220650008	BIO LAKE	FU 10 lt	-	600 lt



PORTABLE CONDUCTIVE

Instrument for measurement and analysis

IP67 waterproof portable conductivity meter.
With microprocessor and long lasting interchangeable sensor.
Large, easy-to-read display.
Automatic 2-point calibration. Auto-off and
freeze-reading. Automatic temperature
compensation. Double ladder.

Code	Description
440402752	PORTABLE CONDUCTOR EC TESTER LOW / HIG DOUBLE SCALE CONDUCTOMETER

Code	Description
05040216	KIT pH BOILERS 1-11 BARCHEMICALS
05040215	BARCHEMICALS NITRATES KIT
05040213	PHOSPHATES KIT 1-20 P. BARCHEMICALS

LINEAUV - CNANOTECH

UV lamp travers s teriator

NEW!



SEA WATER OZONE



SEA WATER OZONE PLUS

The main feature of the NANOTECH UV-C Line is to work directly on two wavelengths:

Wavelength 185 nanometers, capable of destroying organic substances and complex and dangerous aloderivatives for health such as: Chloroamines and THMs (trihalomethanes) and other complex derivatives of suspected toxicity for human health.

Wavelength of 253.7 nanometers capable of killing bacteria and viruses thereby disinfecting the water.

The UV-C NANOTECH OZONE version combines these characteristics with the simultaneous production of Ozone

The nanotechnological titanium technology applied inside the container amplifies the effect of ultraviolet light, increasing its effectiveness by over 80%.

The NANOTECH line of UV-C systems provides as standard the presence of a patented system for the continuous chemical cleaning of the quartz tubes, thus always guaranteeing the maximum efficiency of the system itself.

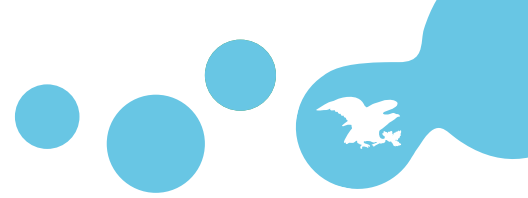
The use of low pressure and amalgam UV lamps

guarantees a lifespan and efficiency of the same over 16,000 working hours

The tube body in high density polyethylene and the head in passivated aluminum guarantee maximum durability against any type of corrosion and pressure seal up to 10 atmospheres.

The electronic lamp management system allows for maximum performance and minimum energy consumption for the same installed power. Continuous monitoring of the efficiency of the lamps warns us when the system presents performance reduction. The use of flow control avoids unnecessary overheating

The combination between the NANOTECH UV-C system and the TELEPOOL SAVE ENERGY system for monitoring and remote control of the main parameters of the treated water, allows to coordinate and maximize the results when the water treatment involves the simultaneous use of UV radiation. and other chemical treatments: it optimizes consumption, increases the effectiveness of the system by keeping it under continuous monitoring (with multi-parameter recording), with the possibility of remote remote control and real-time alarms (SMS or WEBSERVER).



FIELDS OF USE OF NANOTECH UV-C LAMPS

The use of UV-C rays finds application in the most varied fields and in particular, to name the main ones:

Drinking water treatment: disinfection and elimination of complex molecules

Sanitary water treatment: disinfection and elimination of legionella

Pool water treatment: disinfection and elimination of Combined Chlorine and THM

Process water treatment: disinfection and elimination of complex molecules

Thermal water treatment: disinfection and elimination of complex molecules

Marine water treatment: disinfection and elimination of complex molecules

Wastewater Treatment: disinfection and elimination of unpleasant odors

Air treatment: disinfection and elimination of complex molecules and odors

Code	Description
0123068044	2- 80 W UV-C TUBE - SEA WATER OZONE
0123068046	3- 360 W UV-C HOSE - SEA WATER OZONE
0123068050	5-600 W UV-C TUBE - SEA WATER OZONE

Code	Description
0123068036	3 - 360 W UV-C HOSE - SEA WATER OZONE PLUS
0123068040	UV-C HOSE 5- 600 W - SEA WATER OZONE PLUS

UV-C NANOTECH AND COMBINED SYSTEMS

The use of UV-C radiation for water and air treatment lends itself to combined systems where the synergistic action of UV-C radiation and other disinfectants allows to obtain exceptional and environmentally friendly results, for example: The water treated with UV-C rays and disinfection with the daily addition of small quantities of products that prolong the effect of UV rays (UV + OXYGEN) ensures healthy, clear and crystalline water, without attacking the skin, hair, mucous membranes and eyes; this combined action makes bathing extremely pleasant.

The great advantages in using UV-C rays can be summarized in the following points:

- Great respect for the environment with the use of type C ultraviolet rays, with physical and persistent action, no toxic residues for nature and humans.
- No allergy risk.
- No corrosion
- Compatible with the materials
- Simple installation
- Reliability.
- Economics of between



80W UV-C 2 TUBE

ie

BARSONIC

The service of the environment



BarSonic is an effective and chemical free solution for:

- Sanitize the water itself, which thus undergoes a bathing without the use of chemical products.
- Prevent and remove biofilm in pipes and systems.
- Avoid and keep under control the proliferation of algae in bio lakes and greenhouses.
- Prevent the formation of large limestone deposits.

BarSonic Lines are application based effect cavitation (lowering of

pressure until the vapor pressure of the liquid is reached (phase change to gas) in water, a physical phenomenon known for some years and whose efficiency and safety in applications, in the biomedical and industrial fields, is demonstrated by numerous university studies and research. Alpha Aqua has brought this technology to the water treatment field as well in particular in the swimming pool sector, process water, drinking water and zootechnical-environmental water.



Code	Description
0123070002	BARSONIC POOL
0123070004	BARSONIC PLUS
0123070006	BARSONIC ULTRA 30
0123070008	BARSONIC ULTRA 100
0123070012	BARSONIC FARM

BARSONIC POOL

Developed to sanitize the water of swimming pools and bio-pools. It prevents and keeps algal formation under control, allowing to drastically reduce the use of chemical product where required. Device installation: by means of a special float or built-in.

BARSONIC ULTRA 30

It prevents and keeps algae formation under control inside bio-pools, bio-lakes and fountains without damaging the flora and ichthyio-fauna. Ideal for basins up to 10 meters in diameter.

BARSONIC ULTRA 100

Prevents and keeps under control the formation of all types of algae, inside the bio lakes, without damaging the flora and

the ichthyio-fauna.

It is also suitable for cleaning storage tanks and water basins for the collection and storage of waste and process water.

It is also used in the management of processing water in floriculture e in agriculture.

Ideal for basins with a diameter up to 150 meters or for pipe-lines in irrigation systems.

BARSONIC PLUS

Barsonic Plus is placed on the pipes of closed or open circuits. Prevents and removes biofilm and limestone deposits from hydraulic circuits, keeping the development of bacteria and legionella in hot sanitary water circuits, spas, towers under control.

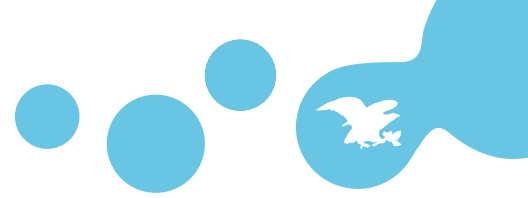
cooling and in general in systems where there is nebulised water.

Barsonic Plus strengthens the effect of "Barsonic Ultra 30", "100" and "Farm" in closed and open circuits, used in animal husbandry, greenhouses, fountains and ponds.

BARSONIC FARM

Barsonic Farm, installed in tanks and water deposits in animal farms, prevents and keeps under control the formation of biofilm, an ideal condition for the growth of microorganisms and limestone deposits, thus drastically reducing the incidence of diseases. Combined installation with Barsonic Plus is recommended to maximize the effect of the device.

	Farms	Tanks Storage	Swimming pools	Bio Pools	Lakes	Fountains
Barsonic Pool			OR	OR		
BarSonic Plus				OR	OR	OR
BarSonic Ultra 30		OR			OR	
BarSonic Ultra 100					OR	
BarSonic Farm	OR					



BIOVITRUM

M ediafiltrante

NEW!

BIOVITRUM is a filter media designed by the Barchemicals Group, which arises from research in the laboratory, from experience in the field and thanks to the collaboration with universities.

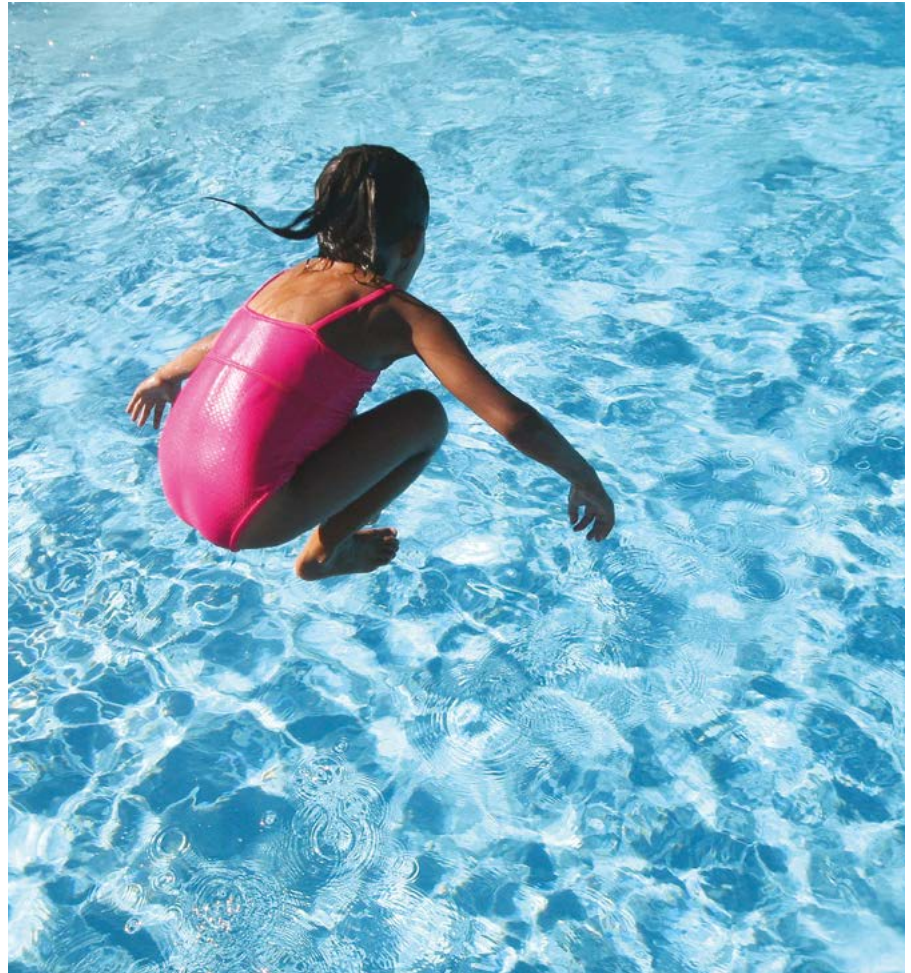
The use of ground glass instead of quartzite first of all reduces the risk of limestone and agglomerate formation by making the backwashing of the filtering masses more fluid.

The production of **BIOVITRUM** starts first of all from a selection of the raw material, from the washing and sterilization of the same and from the activation of the active sites through a thermal process.

This treatment makes these materials capable of amplifying all the filtration and self-flocculation processes of both organic and colloidal substances and inorganic substances depending on the use.

BIOVITRUM Ag +® a molecular layer of nanotechnological silver is deposited on the surface capable of carrying out its bacteriostatic and bactericidal action by simple contact. These features make it **BIOVITRUM Ag +**® particularly suitable for the treatment of drinking and swimming pool water or in any case where it is necessary to prevent the formation of particularly resistant biofilms.

BIOVITRUM You® with titanium nanotechnology makes this filter medium particularly suitable for both drinking water, process water, swimming pool water and also for waste water. The silver coating present on the biovitrum surface comes



obtained through a patented process **BIOVITRUM Ag +** And car detail, where the metallic silver atoms disinfectant. are permanently fixed to the glass.

The particular covering prevents the packing of the vehicle

This process makes the filter surface due to the accumulation of unassailable over time, even inorganic material on the surface from the concentrated chemical agents of the grains. which are placed in the pool water.

Silver is known to be one of the most potent disinfectants found in nature and therefore the surface

BIOVITRUM

Mediafiltrante

Ag +®

NEW!

BIOVITRUM Ag + is an innovative filter material for water filtration, consisting of glass particles with a nanotechnological silver coating. The presence of nanotech silver makes it

the biovitrum bactericidal and bacteriostatic, greatly facilitating disinfection processes. The biofilm development of dangerous bacterial pockets and the creation of biofilm inside the filter.

BioVitrum Ag+



There quality from filtration of produces secondary reactions that **BIOVITRUM Ag +** it lasts over time, since the covering is in silver **permanently fixed on the surface** of the filter media by means of patented and disinfection technology, many chemicals resistant to the less disinfection by-products present in the water are produced. The composition of **BIOVITRUM Ag +** allows its use for filtration of swimming pool water, process water and waste water.

BACTERICIDE AND BACTERIOSTATIC

Sand is a good filter element, but it is also an ideal breeding ground for bacteria. Within a few days, every grain of sand is colonized by bacteria. They

they immediately tend to form biofilms to protect themselves from the disinfectant product.

BIOVITRUM Ag + makes its surface unassailable by bacteria, preventing the formation of biofilms e the quality of traditional filtration and thus preventing the often leads to the formation of lumps of filtering material, creating preferential paths inside the filtering mass and considerably limiting the filtration efficiency.

BIOVITRUM Ag + prevents the development of biofilms and accumulations of organic substances in the filter. Consequently, **less Chlorine** during the disinfection process as, in the filters contaminated by biofilm, a part of the chlorine is consumed for the disinfection of the organic substances and bacteria present on the filter.

NO CHLORINE SMELLChlorine is certainly an excellent disinfectant but the reaction with organic and inorganic substances

lead to the formation of chlorocombined compounds such as chloroamines, chlorophenols and trihalomethanes. Using less Chlorine for the processes which often have an unpleasant odor and are harmful to the health of bathers. Furthermore, the bacteria present in the biofilm convert the urea into ammonia which then reacts with the chlorine giving rise to chlorine amines. However, if the biofilm and consequently the bacteria are not present, this process is prevented, the urea remains in the water and reacts with the chlorine but is harmless. No biofilm, no chloroamines, no chlorine smell.

THE ADVANTAGES OF BIOVITRUM Ag +:

Less time needed for the backwash - high water saving;

No chlorine smell - no bacteria on the filter no generation of chloramines on the filter;

Ecological - no biofilm - saving of chlorine and chemicals;

Higher life time; no biofilm formation - filtration efficiency that lasts over time

Crystal clear water - no preferential path - high filtration efficiency.

Applications:

Filter media for:

- Water for swimming pools
- Waste water
- Process waters

With strong bacteriostatic power thanks to the presence of silver particles. In some cases **BIOVITRUM Ag +** can be used as it is or in combination with other filter media: quartzite, anthracite, activated carbon, etc.

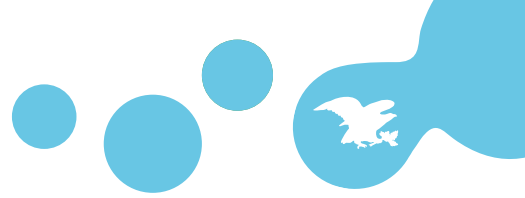
Operational criteria:

Recommended filtration speed:
35 - 50 m / h

Air wash:
60 - 100 m / h

Washing with water:
MAX 50 m / h

Expansion of the filter element:
10 to 30%

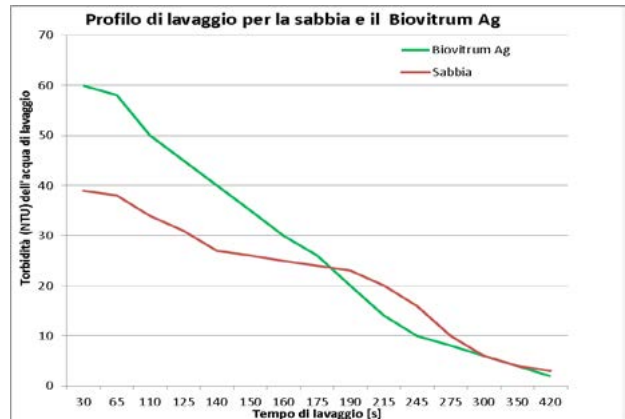


LONG LIFE OF THE FILTER BED

The backwashing process is the process by which the filter is backwashed and most of the organic substances present on it are removed.

During this process, however, most of the biofilm is not removed, i.e. the mixed organic / inorganic structure that is generated by the bacteria. Often the accumulation of biofilm is the main cause of the decrease in filter performance.

The performance of **BIOVITRUM Ag +**, thanks to the special coating that does not allow the accumulation of biofilm, they remain unaltered and elevated for many years. In addition, all backwashing processes, since there is no biofilm, are optimized and facilitated, guaranteeing significant water savings.



The curve shows the comparison of the backwash water of a sand filter and Biovitrum Ag +.

The filter with Biovitrum Ag + expels up to 35% more impurities.

The activation process of BIOVITRUM Ag +

The silver coating on the surface of **BIOVITRUM Ag +** di is obtained through a particular patented process, where the metallic silver atoms are permanently fixed to the glass.

This process makes the surface unassailable over time, too from concentrated chemicals

Silver is known to be one of the 35 - 50 m / h guarantees a most powerful filtration disinfectants present nominal less than 5 microns obtained in nature and therefore the surface without flocculation. Consequentially Andcar **BIOVITRUM Ag +** has a degree of

The special coating prevents the filtering medium from packing due to the accumulation of nominal material less than 0.1 microns. inorganic on the surface of the grains.

DEGREE OF FILTRATION

which are placed in the water of the filter element of the filters with swimming **BIOVITRUM Ag +** is very fine, so fine that at the filtration rate of

filtration of at least 25% more than sand or normal glass. By using flocculants, filtration can be achieved easily The water in your pool will be clear and with zero turbidity.

Chemical composition	
Ye ₂ O	71.36%
Fe ₂ Q ₃	0.10%
CaO	9.00%
K ₂ O	1.21%
At the O ₃	0.95%
MgO	3.80%
SO ₃	0.30%
Na ₂ O	13.80%
Ag Nanotech	0.04%

Material	
100% crushed and heat-activated glass at over 600 ° C	
Specific weight	1.42 -1.45 gr / cm ₃

CURIOSITY

Silver ions appear to destroy microorganisms instantly, blocking the respiratory enzymatic system (i.e. energy production) and altering the microbial DNA and cell wall, while having no toxic effects on human cells in vivo.

BACTERICIDE AND BACTERIOSTATIC EFFECTIVENESS OF BIOVITRUM Ag +

The following test was performed with the aim of defining the effective bactericidal efficacy of the **BIOVITRUM Ag +**. The tests were performed on the most common bacterial strains present in swimming pool waters, namely: staphylococcus aureus, pseudomonas aeruginosa, coliforms and enterococci.

The initial characteristics of the water that has been placed in contact with the glass at "time zero" are the following (cfu / 100 ml, colony forming units per 100 ml of water sample):

- **Enterococci** = 18 cfu / 100 ml
- **Total coliforms** = 9 cfu / 100 ml
- **Pseudomonas aeruginosa** = 16 cfu / 100 ml
- **Staphylococcus aureus** = 53 cfu / 100 ml

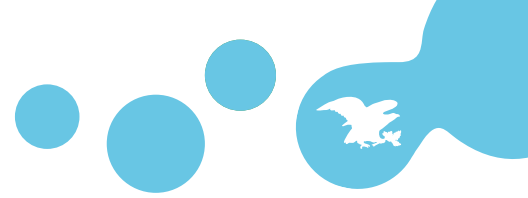
After initially defining the species that contaminate the water, we put this water in contact with two samples of ground glass: the first is standard ground glass, the second **BIOVITRUM Ag +**, that is special glass treated with silver nanoparticles. After 15 minutes of contact, 30 minutes, 3 hours and 5 hours, the content of bacterial colonies is as follows:

CAMPIONE	Tempo 15' (dopo 15 minuti di contatto)				Tempo 30' (dopo 30 minuti di contatto)			
	Enteroc.	Coliformi	Pseudo.	Stafil.	Enteroc.	Coliformi	Pseud.	Stafil.
Acqua (Tempo 0)	18	9	16	53	18	9	17	53
Vetro Standard	19	9	17	53	19	9	18	54
BIOVITRUM Ag+	3	0	1	14	0	0	0	1

CAMPIONE	Tempo 180' (dopo 3 ore di contatto)				Tempo 300' (dopo 5 ore di contatto)			
	Enteroc.	Coliformi	Pseudo.	Stafil.	Enteroc.	Coliformi	Pseud.	Stafil.
Acqua (Tempo 0)	19	9	17	54	20	10	17	54
Vetro Standard	22	10	19	56	24	12	21	56
BIOVITRUM Ag+	0	0	0	0	0	0	0	0

As can be seen, the **BIOVITRUM Ag +**, special glass treated with silver nanoparticles, has a strong bactericidal and bacteriostatic activity and thus avoids the formation of the biofilm and at the same time helps the other biocides to disinfect the water.

Code	Description
010602080	BIOVITRUM AG + - 0.4 / 1.0 MM - SA 25 KG
010602081	BIOVITRUM AG + - 1.0 / 3.0 MM - SA 25 KG



BIOVITRUM

M ediafiltrante

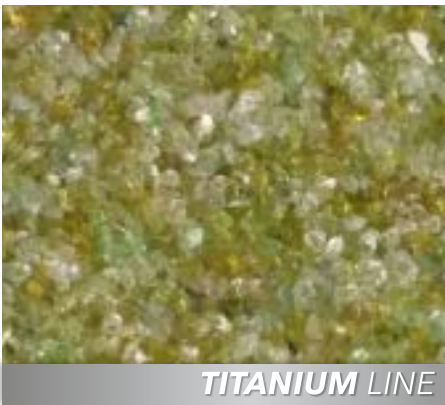
You ®

NEW!

BIOVITRUM Ti® is a material They immediately tend to innovative filter media for filtration form biofilm to protect themselves from the water made up of disinfectant particles. In this glass with technological coating

titanium. The presence of titanium, exploiting a catalytic reaction, yields **BIOVITRUM Ti** self-cleaning, preventing the adhesion of dirt, grease and the formation of biofilm inside the filter.

BioVitrumTi



biofilms live entire communities of bacteria and pathogens, including legionella. The special covering of **BIOVITRUM Ti** makes its surface catalytic, significantly increasing the disinfection work of normal disinfectants, thus preventing the adhesion of dirt, grease and the formation of biofilm, improving the quality of filtration itself. The biofilm very often leads to the formation of lumps of filter material, creating preferential paths inside the filtering mass and considerably limiting the filtration efficiency.

No biofilm - no preferential paths - high filtration efficiency.

LOWER CONSUMPTION OF CHLORINE AND CHEMICAL PRODUCTS

BIOVITRUM Ti counteracts the adhesion of dirt, grease and the formation of

There quality from filtration from biofilm, preventing accumulation **BIOVITRUM Ti** it is persistent in the organic substances in the filter. time, being the coating in Consequently titanium is consumed permanently fixed less chlorine during the process on the surface of the filter media

and resistant to chemical agents contaminated by biofilm, a part present in the water. The special chlorine is consumed for the coating ensures less disinfection of organic substances frequency of backwashing and a consequent reduced maintenance of the filter.

The composition of biovitrum ti Chlorine is certainly an excellent one and allows its use for filtration of: pool water, process water and waste water.

CATALYTIC EFFECT PROMOTER OF THE DISINFECTION

Sand is a good filter element, but it is also an ideal breeding ground for bacteria. In within a few days each disinfection grain by sand agents is colonized by bacteria. oxidants making them faster e

disinfection as, in the filters contaminated by biofilm, a part of chlorine is consumed for the coating ensures less disinfection of organic substances frequency of backwashing and bacteria present on the filter.

NO CHLORINE SMELL

Chlorine is certainly an excellent one and disinfectant, but the reaction with organic and inorganic substances produces other reactions that lead to the formation of combined chlorine such as chloroamines, chlorophenols and trihalomethanes. This mainly occurs when the disinfection process is not complete. The special covering of **BIOVITRUM Ti** catalyzes the normal processes of

efficient and consequently there is less formation of disinfection by-products which are often harmful and unpleasant for the health of bathers.

THE ADVANTAGES OF BIOVITRUM Ti:

Less time needed for backwashing - high water saving;

No chlorine smell - no bacteria on the filter and no generation of chloramines on the filter;

Ecological - catalyzes biofilm destruction - saving of chlorine and chemicals;

Higher life time; no biofilm formation - filtration efficiency that lasts over time

Furthermore, the bacteria present in the biofilm convert the urea into ammonia which then reacts with the chlorine giving rise to chlorine amines. However, if the biofilm and consequently the bacteria are not present, this process is prevented, the urea remains in the water and reacts with the chlorine but is harmless. No biofilm - no chloroamines - no chlorine smell.

Applications:

Filter media for:

- Drinking water
- Pool water
- Industrial waters

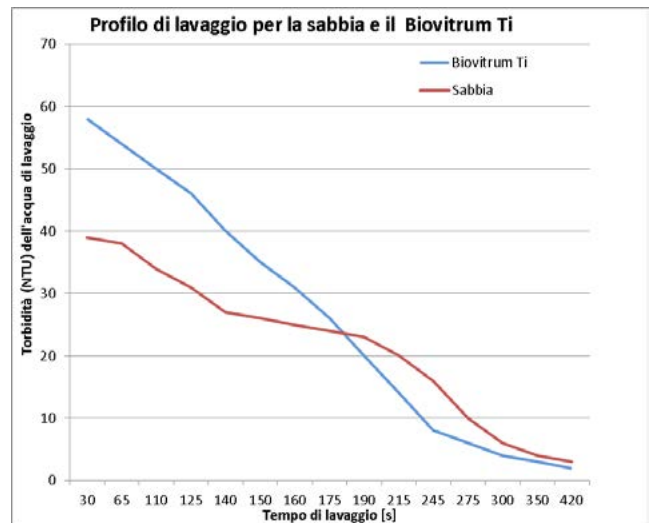
With the addition of titanium monoparticles, it favors and exerts a catalytic action on organic substances.

LONG LIFE OF THE FILTER BED:

The backwash process is the process by which the filter is washed in countercurrent and most of the organic substances present on it are removed, organic substances that accumulate thanks to normal filtration.

During this process, however, most of the biofilm is not removed, i.e. the mixed organic / inorganic structure that is generated by the bacteria. Often the accumulation of biofilm is the main cause of the decrease in filter performance.

The performance of **BIOVITRUM Ti**, thanks to the special coating that increases the action of disinfectants, helps to counteract the accumulation of biofilm, they remain unaltered and elevated for many years. Furthermore, all backwashing processes, since there is no biofilm, are optimized and facilitated, guaranteeing significant water savings.



The curve shows the comparison of the backwash water of a sand filter and Biovitrum Ti. The filter with Biovitrum Ti expels up to 35% more impurities.

THE BIOVITRUM ACTIVATION PROCESS Ti

The titanium coating present on the surface of **BIOVITRUM Ti** is obtained through a particular patented process, where the atoms metallic titanium are fixed due to the accumulation of glass material. By using this process makes the surface unassailable over time, even from concentrated chemical agents that are introduced into the pool water by the filter element of the filters. Titanium is known to be one of the

most potent naturally occurring catalysts and therefore the surface of **BIOVITRUM Ti** increases the disinfectant action.

The special coating prevents the filtering medium from packing

DEGREE OF FILTRATION

introduced into the pool water by the **BIOVITRUM Ti** is very fine, so fine that at the filtration rate of

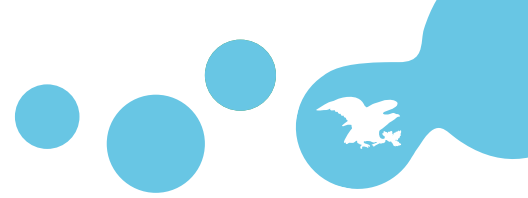
35 - 50 m / h guarantees nominal filtration of less than 5 microns obtained without flocculation. Consequentially **BIOVITRUM Ti** it has a filtration degree of at least 25% higher than sand or normal flocculants you can to the glass easily achieve nominal filtration below 0.1 micron. The water in your pool will be clear and with zero turbidity.

Chemical composition	
Yes ₂ O	70.50%
Fe ₂ O ₃	0.30%
CaO	9.50%
K ₂ O	1.20%
Al ₂ O ₃	2.30%
MgO	2.15%
B ₂ O ₃	0.15%
Na ₂ O	13.30%
TiO ₂ nanotech	0.06%

Material	
100% crushed glass and heat activated at over 600 ° C	
Specific weight	1.35 - 1.45 gr / cm ³

Operational criteria:
 Recommended filtration speed: 35 - 50 m / h
 Washing with air: 60 - 100 m / h
 Washing with water: MAX 50 m / h Expansion of the filter element: from 10 to 30%

Code	Description
010602082	BIOVITRUM TI 0.4 - 0.9 MM - SA 25 KG
010602083	BIOVITRUM TI 1,5 - 2,5 MM - SA 25 KG



BIOVITRUM

Perglasses for individual filtering devices

Filter material for water filtration, consisting of microspheres of **sodium potassium silicate glass**. BioVitrum Sfere, allows to obtain maximum efficiency during the backwash phases, also reducing the consumption of water and electricity by over 50%, thanks to the particular shape of the beads and the chemical-physical characteristics of the surface that distributes the charges. partial electrical circuits evenly on the same.

The chemical composition of **BioVitrum Spheres** allows its use for the filtration of any type of water: Pool, drinking, process and waste water; it also prevents the formation of superficial phenomena of limestone and siliceous encrustations avoiding the consequent "packing" of the filtering mass, with the creation of preferential escape routes and reduction of the filtering efficiency of the medium. The high sphericity of BioVitrum Sfere reduces the space for the passage of water between the glass spheres of just a few microns, making filtration effective even at high speeds (**50 m³/ m²/ h**). In multi-layer heterogeneous mass filters the filtration speed can reach up to **50 m³/ m²/ h** in accordance with the Italian legislation **UNI 10637: 2015**. Also available in version **BioVitrum Spheres Ag +**. In this variant the surface of the spheres is covered with cationic and metallic silver, thereby reducing up to **99%** the formation of biofilms.

Applications:

- Filtration of **swimming pool waters** (BioVitrum Sfere complies with both regulations **UNI 10637 and DIN 19643**)

BALLS

- Water filtration ad **use drinking** (BioVitrum Sfere does not release heavy metals into filtered water)
- Filtration of **marine waters and waters for bio-pools and ponds** decorative and for fish farming.
- Filtration of eu waste water (the product is used according to the grain size for the roughing or finishing of eu waste water before final discharge)
- Filtration of **process water** (depending on the case, BioVitrum Sfere can be used as it is or in combination with other filter media: quartzite, anthracite, activated carbon, etc.)
- Water filtration for **agricultural use**(the low tendency of BioVitrum Sfere to packing allows the pre-treatment of surface waters used in agriculture before being introduced into irrigation lines, thus avoiding clogging of the nozzles)
- Filtration from **waters for animal feed**.

BioVitrum Sfere



THE ADVANTAGES OF BIOVITRUM SFERE:

It produces hygienically pure and crystalline water.

Less time needed for backwashing - high water and energy savings;

No chlorine smell - none presence of bacteria on the filter none generation of chloramines on the filter;

Ecological - no bio-film - saving of chlorine and chemicals;

Crystal clear water - no preferential path - high filtration efficiency.

It has a practically unlimited duration

The frequency of maintenance interventions decreases

Chemical composition	
Yes ₂ O	71.20%
Fe ₂ O ₃	0.07%
CaO	7.51%
K ₂ O	1.27%
At the g ₂	2.40%
MgO	1.28%
Na ₂ O	15.42%

Material	
100% sodium and potassium glass	
Specific weight	1.42 - 1.50 g / cm ³
Sphericity	Minimum 80%

Code	Description
010602059	BIOVITRUM SMALL BALLS 0,6-0,8 MM - SA 25 KG
010602062	BIOVITRUM BALLS BIG 1,2-2,5 MM - SA 25 KG
010602086	BIOVITRUM SPHERES AG + 0,6-0,8 mm- SA 25 KG

TECH

Filtr laminate

STANDARD

for swimming pools

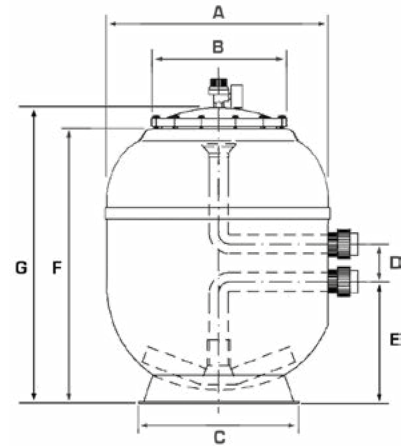
Laminated filter made of glass fiber reinforced polyester complete with selector control valve.

- Top cover \varnothing 410mm complete with pressure gauge and manual vent.
- 1 "1/2 bottom drain plug for water and sand. Union outlets.
- Internal distribution with glow plugs.

- 6-way selector valve for operations control.
- Use for private use.



TO	B.	C.	D.	AND	F.	G.
500	410	440	100	330	630	760
610	410	440	100	330	735	865
765	410	600	160	250	805	935
920	410	600	160	250	930	1060



Code	Diam. mm	Flow rate mc / h	Go out	Kg Sand
8021402002	500	10	1 "1/2	100
8021402004	610	14	1 "1/2	150
8021402006	765	22	2"	200
8021402008	920	33	2"	350

GENERAL CONDITIONS OF SALE

Pursuant to Article 1469 bis of the Italian Civil Code, the parties, after extensive discussion and negotiation, declare to regulate the current relationship, as well as any past relationship that has occurred, according to the following methods and conditions, which will equally apply to each supply and / or in any case the commercial relationship that will exist between the parties in the future.

1. ORDERS - BUYER INSOLVENCY - 1.1.) The buyer's order is valid as an irrevocable purchase proposal and is not binding for the seller who reserves the right to accept it in writing by its own or legal representative. The sales contract will be considered concluded only upon receipt by the buyer of the order confirmation from the seller's legal representative. 1.2.) With the acceptance of the order by the seller, the contract must be considered concluded and, in the event of failure to collect the goods, the buyer is considered to be in default and, therefore, will have to pay the 50% of the invoice, subject to greater damage. The contract must be considered concluded even in case of partial acceptance of the order, therefore failure to collect will entitle the seller to the penalty referred to in the previous paragraph to be calculated on the lower amount of the invoice. 1.3.) Any particular agreement relating to the supply covered by this order and the delivery terms, even if intervened with agents or appointed by the seller, does not bind the latter except in the case in which it is expressly accepted in writing by its legal representative. 1.4.) The total and / or partial execution of the order by the seller implies acceptance of the same. 1.5.) The purchaser's right to unilaterally withdraw from the order and the contract is expressly excluded. 1.6.) If, after the order has been confirmed, the seller becomes aware of protests, seizures, foreclosures and in general prejudicial acts against the buyer, or it becomes known that the buyer is in financial difficulty, the seller may, at his choice, suspend the contract and demand particular guarantees, or terminate the contract due to breach of the buyer, pursuant to art. 1456 cc, by means of a communication to be sent by registered letter with return receipt, or telegram, the exercise of this right does not give the buyer any right to compensation for damages or other. 1.7.) The minimum order accepted is € 250.00 + VAT. or telegram, the exercise of this right does not give the buyer any right to compensation for damages or other. 1.7.) The minimum order accepted is € 250.00 + VAT.

2. PRICES AND PAYMENTS - 2.1.) The sale price, where not specified, is that of the seller's price list in force on the date of the conclusion of the contract. 2.2.) If the products are not received by the buyer at the time of their preparation and delivery, or the preparation or actual delivery was not possible for reasons beyond the control of the seller, the prices, if not already provided for in the order, will be subject to changes in the seller's price list and in any case to changes in the costs of materials and labor occurring from the time of preparation of the products up to the collection of the same by the customer or acceptance of the delivery. 2.3.) Taxes, duties, expenses relating to the issuance of bank bills or the eventual regularization of the contract are the responsibility of the buyer. 2.4.) Payments must always be made in the manner and within the terms agreed, in euros, in cash and at the seller's domicile. The latter has the right to also accept bills and bank checks, or authorize drafts or issue bank receipts. However, this does not in any case produce either novation of the original credit, or any prejudice to any pact of reserved ownership, or territorial change in the event of a judgment. 2.5.) Payments made to the seller's agents will not be released by the buyer unless previously authorized in writing by the seller. 2.6.) Late payments will accrue interest on arrears at the rate set out in art. 5 of Legislative Decree 231/2002 with effect pursuant to art. 4 of the same Legislative Decree 2.7.

3. DELIVERY - 3.1.) The delivery term is indicative and starts from the moment in which all the elements of the contract have been irrevocably provided and defined, provided that the buyer has promptly paid the overdue installments. 3.2.) If there are outstanding payments, even in relation to previous supplies, the seller has the right to suspend the execution of the contract until the payments have been made and suitable guarantees have been provided for the due installments. 3.3.) The delivery term is calculated in working days, and is adequately extended due to events not attributable to the seller such as strikes, trade union unrest, lockouts, fires, floods, waste of materials or processing, delayed deliveries by sub-providers, lack of motive power and other causes of force majeure. However, the delays that must occur with respect to the delivery deadline will never give rise to damage actions. 3.4.) The seller has the right to make partial deliveries. 3.5.) The delivery is in any case considered carried out, for all purposes, ex factory of the seller, at the expiry of the twentieth day from receipt of the registered letter with return receipt by which the seller herself has notified the buyer that the products have been prepared. From that moment all the risks of the goods are transferred to the buyer and the costs of storage, custody, maintenance and insurance are also at his expense. After twenty calendar days from the date of receipt of the aforementioned registered letter, without the customer having collected or having the products collected, or without the seller having been able to provide for the delivery, the same can arrange for the sale to the detriment of the buyer pursuant to art. 1515 cc.

4. MODIFICATIONS TO PRODUCTS - 4.1.) All data and characteristics contained in the seller's catalogs, price lists, illustrations, drawings, offers and advertising material in general are purely indicative and not binding for the latter. All the photographs shown in this catalog are purely indicative, therefore no compensation will be recognized if the material delivered is different from the images. 4.2.) The seller reserves the right to make any changes it deems necessary to its products, without any obligation to notify the purchaser, as long as the functionality of the product is not altered. 4.3.) The seller is not required to make any changes applied after the order to the goods already produced, or in the course of production, intended for the buyer.

5. PROHIBITION OF ACTION - 5.1.) For no reason or reason, the buyer may take legal action against the seller if he has not previously fulfilled the payments contemplated in the contract. 5.2.) The buyer declares in any case to renounce as of now to request damages or expenses deriving from the improper use of the goods, or occurring during the time necessary for the replacement, possibly authorized, of the same, or for the replacement itself.

6. SHIPPING AND TRANSPORT - 6.1.) The goods travel at the buyer's risk. 6.2.) The goods are always understood to be sold ex works of the seller and delivered by means of transport of the customer or his representative. Any interest of the seller in the search for the means of transport must be understood as explained on behalf and in the interest of the customer without any responsibility and / or cost borne by the seller. The possible incorporation of the transport price in the sale price or the "ex works" agreement does not constitute an exception to this clause. Therefore, the customer is responsible for any losses, breakdowns, alterations to the goods and packaging for any reason or fact attributable to the customer and this even in the event that at the request of the carrier the seller has had to issue warranty declarations. 6.3.

the goods on arrival. 6.4.) When the buyer does not promptly specify the shipping method, it will be chosen by the sender, without any responsibility on the part of the seller. 6.5.) Any shipment made by the purchaser for disputed goods, to be replaced for exchange after authorization, must be carried out carriage paid - the seller's factory, otherwise remaining in the faculty of the seller to refuse receipt, with exemption from any liability.

7. TESTING - PRODUCT DEFECTS - WARRANTY - 7.1.) The buyer will be responsible for any accidents or damage caused to the seller's testers or to third parties, on the occasion or depending on the test, unless it is carried out at the seller's factory. 7.2.) The test will be carried out at the time of delivery; if it should be deferred due to the buyer's fault and fault, it will not take place, unless after payment, in advance, of the travel, labor and travel expenses. Upon completion of the test, the buyer is required to issue the seller with a written declaration of the results obtained. In the absence of the release of this declaration, the purchased good is unconditionally accepted without reservations. 7.3.) If the purchased good must not be subject to testing, at the time of delivery, the buyer will be required to diligently verify that it is free from defects. 7.4.) Any defects must be reported to the seller by registered letter with return receipt within eight days, which will start: a) from the test; b) if the test is not to be carried out, from the date of delivery; c) in the case of defects not likely to be detected following testing, or the aforementioned verification, from their discovery. Failure to comply with the aforementioned terms will result in the forfeiture of the guarantee action. 7.5.) All the seller's products are guaranteed for manufacturing defects according to the European and national regulations in force, or according to the additional guarantees recognized by the manufacturer. The warranty of the seller's products includes solely and exclusively the repair or replacement of defective parts at the seller's factory, not facing claims for compensation or other expenses; the warranty becomes invalid if the defects found result from incorrect treatment of the goods, or when the seller's products have been handled, repaired or modified outside the seller's workshops, or installed with materials or procedures that do not comply with the STANDARDS. 7.6.) The party that alleges the existence of a manufacturing defect must provide proof of the proper use of the product and, in this case, of the correct installation of the same. 7.7.) The costs of returning and returning the defective materials will be borne by the buyer. 7.8.

8. CONFIDENTIAL TITLE AGREEMENT - 8.1.) In the case of sale by installments, until the buyer has made full payment of the price, the goods supplied will remain the property of the seller and can be claimed by the same wherever they are, even if combined or incorporated into goods owned by the buyer or third parties, pursuant to art. 1523 and following of the cc. 8.2.) During the aforementioned period the buyer will assume the obligations and responsibilities of custodian of the things supplied and will not be able to alienate, give in use or pledge, move, let seize or foreclose such products without declaring ownership of the seller and without giving them immediate notice to the same by registered letter with return receipt.

9. DEFAULT OF THE BUYER - TERMINATION OF THE CONTRACT - 9.1.) Failure to pay two installments, even if not consecutive, of the agreed price by the established deadlines, will result in the buyer forfeiting the benefit from the term and the seller may suspend deliveries not yet executed and / or take action to obtain the entire price difference still due, or for the termination of the contract and / or any other sales contract in force between the parties, pursuant to art. 1456 cc, to be communicated by registered letter with return receipt. 9.2.) In this second case, the buyer must return the goods immediately, and must pay a penalty of Euro 50.00 per day for each day of delay in such return. 9.3.) Compensation for greater damage remains unaffected and the seller may also withhold the installments already collected as compensation, except for greater damage suffered.

10. ASSIGNMENT OF CREDIT - 10.1.) The buyer declares to accept as of now, pursuant to and by effect of art. 1264 cc, the possible assignment of the credit claimed by the seller from it to the factoring company or equivalent, expressly exempting it from any other notification burden, except for the confirmation of the transfer by registered letter with return receipt.

11. COMPLAINTS - COMMUNICATIONS - 11.1.) Complaints and disputes of any kind must be submitted to the seller's office. For the purposes of this order and the subsequent contract, the purchaser elects domicile in the place indicated in the title page of the order itself and all communications may be sent to that address, or to a different registered office, at the choice of the seller. 11.2.) In any case, the buyer must notify the selling party of any changes to their contact details and addresses within 15 days of the change.

12. APPLICABLE LAW AND COMPETENT JUDICIAL COURT - 12.1.) Whatever the nationality and residence of the purchaser, this contract is subject to the jurisdiction of the Italian judge. 12.2.) For any dispute, the exclusive competence of the Justice of the Peace or the Court of Modena is recognized, depending on the value. 12.3.) However, the seller will have the faculty to elect one of the other competent Courts according to the law.

13. TREATMENT OF PERSONAL DATA - 13.1.) Pursuant to Art. 10 of the law n. 675 of 31/12/1996, your personal data may be processed, meaning their collection, registration, organization, storage, processing, modification, selection, extraction, comparison, use, interconnection, blocking, communication, dissemination, cancellation and destruction, or the combination of two or more operations. 13.2.) These personal data will be processed for the following purposes: Management, accounting, tax, statistical, commercial, marketing, protection / management / credit transfer, as well as to meet the obligations of current legislation and for the purposes of financial evaluation in relation to the exact fulfillment of the obligations set out in the contract. 13.3.) The processing of personal data will take place using suitable tools to guarantee their security and confidentiality and can be carried out both on paper and through IT tools. We also inform you that in relation to the aforementioned treatments, you may exercise the rights referred to in Art. 13 of Law no. 675/96 below. 13.4.) The data may be communicated and disseminated to: § Commercial agents, suppliers, customers, couriers and forwarding agents, collaborators, companies and entities with commercial and marketing purposes; § Credit institutions, financing institutions, leasing companies, credit collection and protection companies, factoring companies, insurance companies, brokerage companies; § Professional firms (legal and commercial), data processing companies, consulting companies, statistical company; § Our subsidiaries, associates or in any case associated companies. 13.5.) The data of the interested party may also be communicated and transferred abroad in compliance with the provisions of the law. 13.6.) The company declares to have read the information contained in this communication and Art. 13 of the law n. 675/96 and gives consent to the processing of personal data in relation to the purposes indicated therein. 13.7.) He also declares to express his consent to the communication and dissemination of data for the purposes referred to in this information, including promotional and advertising initiatives aimed at indeterminate subjects.) The data of the interested party may also be communicated and transferred abroad in compliance with the provisions of the law. 13.6.) The company declares to have read the information contained in this communication and Art. 13 of the law n. 675/96 and gives consent to the processing of personal data in relation to the purposes indicated therein. 13.7.) He also declares to express his consent to the communication and dissemination of data for the purposes referred to in this information, including promotional and advertising initiatives aimed at indeterminate subjects. 675/96 and gives consent to the processing of personal data in relation to the purposes indicated therein. 13.7.) He also declares to express his consent to the communication and dissemination of data for the purposes referred to in this information, including promotional and advertising initiatives aimed at indeterminate subjects. 675/96 and gives consent to the processing of personal data in relation to the purposes indicated therein. 13.7.) He also declares to express his consent to the communication and dissemination of data for the purposes referred to in this information, including promotional and advertising initiatives aimed at indeterminate subjects.

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