

IMMERSE YOURSELF IN NATURE

SWIMMING IN NATURAL WATER.
COMPLETELY FREE OF CHEMICALS.

ORIGINAL BIOTOP

LIVING
POOL

LIVING POOL

The Pool for a Clear Conscience.

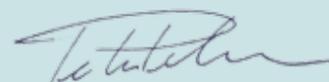
Picture a mountain lake. The water is clean and crystal clear. You might dip your toes in or cool off your face after a hard climb up from the valley. The reason the water is so clear is because it is low in nutrients. Algae have no basic sustenance as the earth in the mountains is very arid and there are almost no impurities. Unfortunately, the water is too cold for swimming.

The Living Pool basically works like a mountain lake. The Living Pool is a swimming pool with natural water. In your own garden the temperature is perfect for swimming. The Living Pool offers the same clean and crystal clear conditions as in the mountains. This is achieved with a special filter that removes nutrients from the water, so that the algae are deprived of their sustenance – just like in a mountain lake.

We have created a Living Pool converter system for owners of a conventional swimming pool. This enables an economically viable conversion to a pool free of chemicals. The trial pool that BIOTOP launched in 2007 has developed into a market-ready product. Over 500 pools have now been built in our clients' gardens in many different countries.

Perhaps the next Living Pool will belong to you.

*I hope you enjoy exploring the world
of Living Pools on the following pages.*



Peter Petrich

Peter Petrich
Geschäftsführer



CONTENTS

- 02 Introduction
- 04 Philosophy
- 06 The Living Pool
- 12 Consultation and Planning
- 14 Pool Combinations
- 16 Living Pool Converter System
- 18 Equipment



The PHILOSOPHY

The development of the Living Pool marks the end of the swimming pool with chemically treated water. Because we feel responsible for future generations.

Visually just like a classic swimming pool and organic nevertheless. The new phosphorus filter "PhosTec Ultra" makes it possible. It is integrated into the water cycle and with its new filter material binds the phosphorus in the water. The BIOTOP Living Pool requires absolutely no chlorine or other toxic chemicals and nevertheless offers the ultimate in swimming enjoyment in crystal clear water.

The innovation is the intelligent combination of tried and tested components from the BIOTOP Natural Pool System. The curved sieve skimmer and the submerged pump house constitute the first water cycle, which runs approximately four hours per day during the season. The short operating time of this pump minimizes power consumption. In a second cycle the water flows from the pool through a biological filter, then through the PhosTec Ultra filter, and finally back to the pool. This pump runs constantly on very low power and is also housed in the submerged pump house. The pool robot runs permanently and its operating time can be regulated as required.

Winner of the
»EnergyGlobe Award«

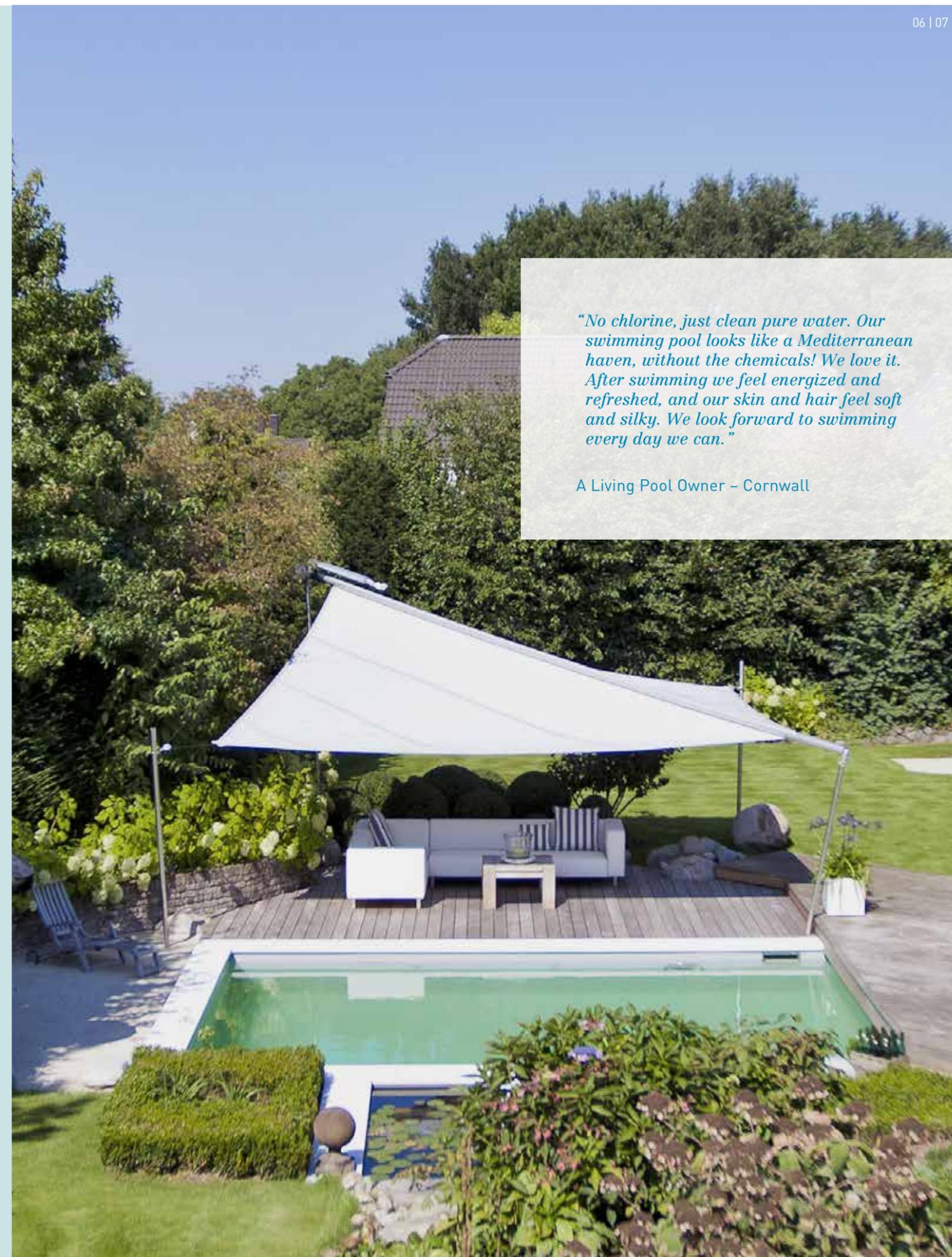


The LIVING POOL

The *perfect symbiosis* of biology and technology offers swimming enjoyment in *crystal clear* water.

"No chlorine, just clean pure water. Our swimming pool looks like a Mediterranean haven, without the chemicals! We love it. After swimming we feel energized and refreshed, and our skin and hair feel soft and silky. We look forward to swimming every day we can."

A Living Pool Owner – Cornwall





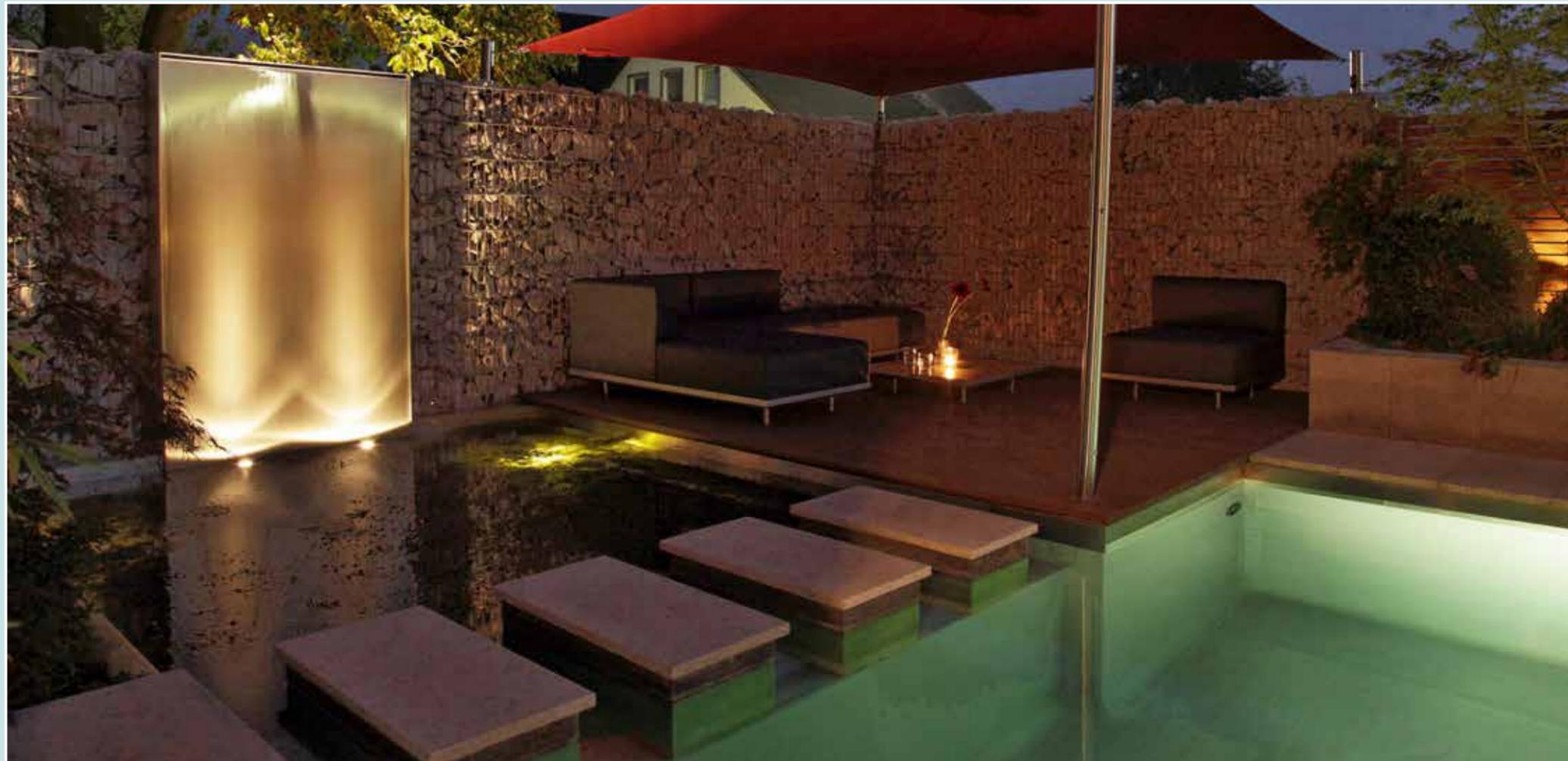
The Living Pool is the Organic Version of the Swimming Pool

Visually just like a classical swimming pool and organic nevertheless – the Living Pool requires absolutely no chlorine or other toxic chemicals and still offers the ultimate in swimming enjoyment in crystal clear water. Instead of the regeneration zone required in natural pools with its live flora and fauna, an underground biological filter and a specially developed phosphorus filter provide biological and physiological purification of the water, continuously keeping it clear and alive.



The Advantages of the Living Pool:

- the water is processed biologically without the use of chlorine
- and is crystal clear and "alive" at all times
- only a small amount of space is required as all the technical equipment is concealed under the sun deck
- it can be combined with other elements of the natural pool system



»Best New Product at the Chelsea Flower Show 2011« [Financial Times](#), May 21, 2011

»EnergyGlobe 2011« for the Living Pool www.energyglobe.com

24 years ago BIOTOP Landschaftsgestaltung GmbH was awarded the "Austrian Environmental Conservation Prize" for the invention of the natural pool. A further important environmental award followed in October 2011: the "Living Pool, the organic swimming pool" was awarded the prestigious "Energy Globe". CEO Peter Petrich: "This is a milestone in our company's history. It confirms that we are on the right track with our development of sustainable and environmentally friendly swimming pools."



Consultation and Planning

Living Pool from A to Z

from your enquiry to your complete satisfaction



Consulting and Planning Phase

You invite one of our Living Pool planners to a non-binding talk and show her/him the place where you want to build your pool. Express all your ideas at this initial talk and our planner will explore with you how to turn your ideas into reality. We take a lot of time for this meeting to assure that we have all the necessary data for a first draft and cost estimate.

After a short planning phase we will give you a first draft drawn up by one of our garden planners, together with a cost estimate. Now you can take time to study the plans and make the changes you desire with our Living Pool planner, as well as to discuss the cost estimate in detail. We will make every effort to provide you with individual planning and an attractive price.

Individual *planning* and high-quality *implementation* are our *strengths*.



Construction Phase

The excavation work and construction of the pool will be conducted by our highly skilled staff according to an exact time schedule. This includes all of the steps needed to install the technical equipment. Immediately after completing construction the pool is filled and the equipment put into operation. To allow you to enjoy your Living Pool as soon as possible the area around the pool is put back into its original condition or newly designed.

Swimming Phase

This is what the Living Pool looks like upon completion. Following the initial phase of just a few weeks in which the biological filter takes up its work, the pool is at your disposal with no limitations. After your planner gives you complete instructions you will receive a manual describing how to operate your pool. Your Living Pool specialists will always be there for any questions you might have.

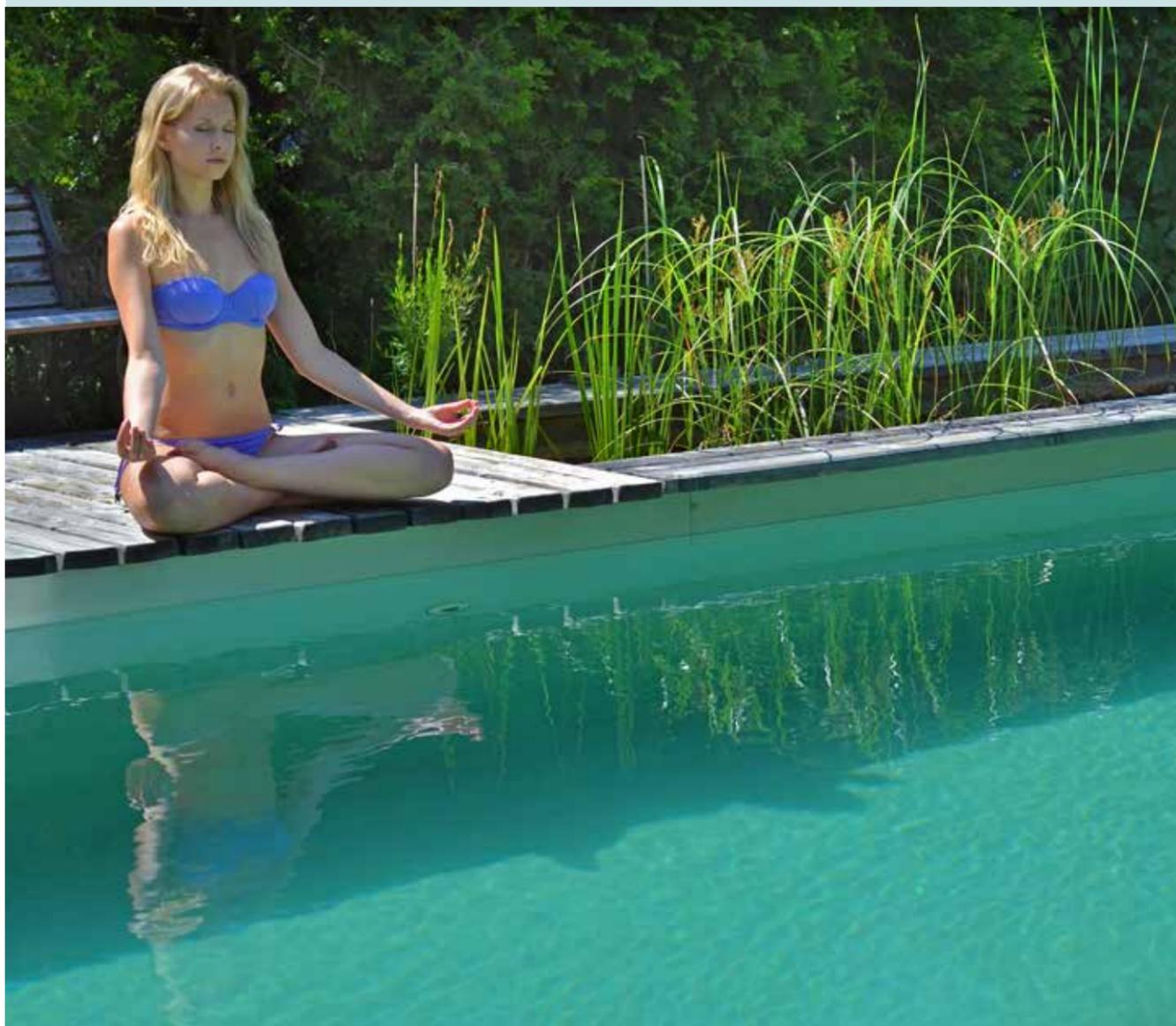


First Draft Living Pool – Version IV
Philipp Family November 2010

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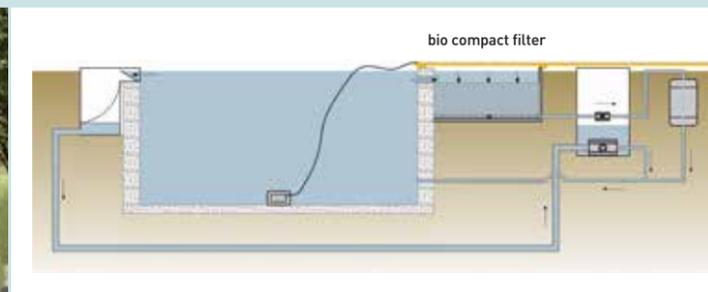
Pool COMBINATIONS

Choose the *equipment* that corresponds to your *personal* needs.



BIOTOP Living Pool Classic

The Living Pool offers an innovative alternative to the conventional chlorinated swimming pool. By binding the nutrients in the water the algae are deprived of their sustenance. The bio compact filter takes over part of this task. It can be covered with wooden decking or with stone slabs. Or it is left open and designed with a variety of water plants, forming a green oasis and eye-catcher in your garden. The water is fed into the PhosTec Ultra filter from the biological filter by a small and low-energy pump, where it flows through special filter material and is almost completely freed of phosphorus. Finally the water is pumped back into the Living Pool. The operating time of the pool robot, which runs independently and is specially manufactured for the Living Pool, can be regulated individually as required.

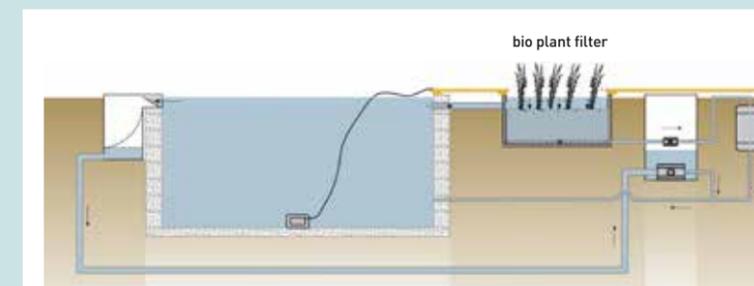


The Characteristics

- Very clean swimming area
- No animals or plants in the water
- Only small space required
- Requires regular robot cleaning

BIOTOP Living Pool Green

The biological filter can also be designed as a planted filter. This is an attractive option, in which the plants are clearly separated from the swimming area.



The Characteristics

- Very clear swimming area
- Wildlife or plants in their own pool
- Only small space required
- Requires regular robot cleaning



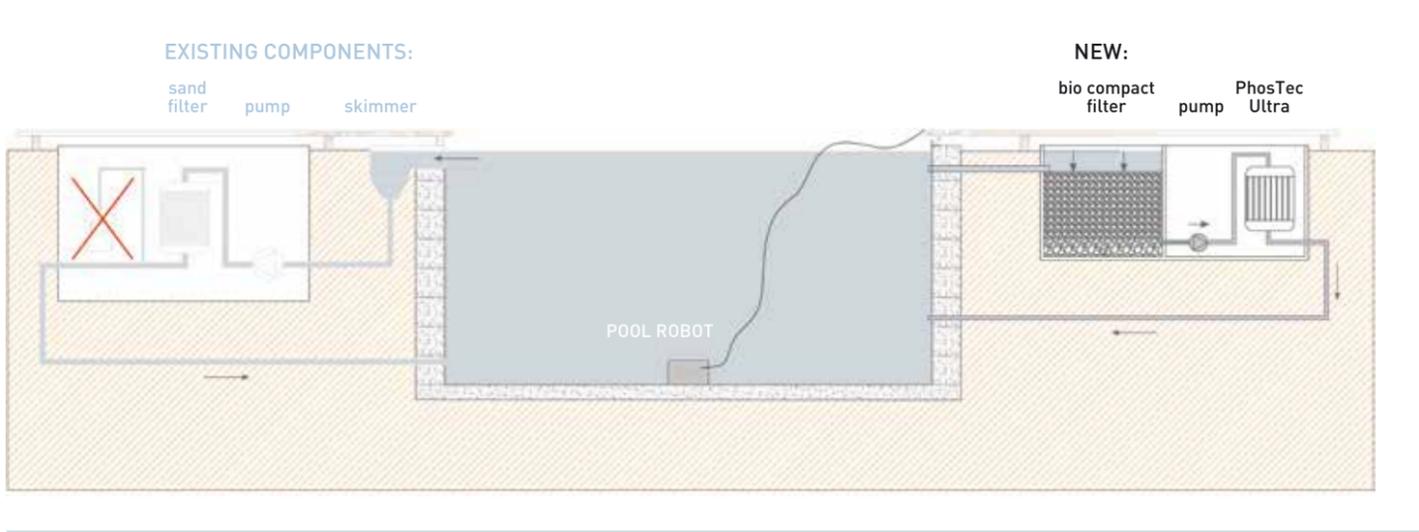
LIVING POOL CONVERTER System

Conversion of a Conventional Pool to a Living Pool

The Living Pool converter system enables the simple conversion of an existing swimming pool into a biologically operated one. The existing water cycle, comprising a skimmer, a pump and a sand filter (left side of the illustration) can still be operated, only the chlorination will no longer be used. Additionally a biological circulation system will be incorporated. This comprises a biological filter, a small pump and the PhosTec Ultra filter (right side of the illustration). All components are integrated into a single shaft. The shaft, measuring 2.0 x 1.2 x 0.8 meters, is installed in the ground next to the existing pool and connected to both an inflow and an outflow pipe of the existing pool. The pump for the bio circulation requires only a very small amount of electricity (approximately 40 W). The costs of operating the pool can be significantly reduced by this conversion.



Simple, Quick and Cost-Effective



Example of a Conversion



Before:
The pool owner is dissatisfied with the water quality and wants to ban chemicals from his garden.



First step:
After the pool is completely drained of water and a hole is dug at the head of the pool, the pre-fabricated shaft is delivered and professionally installed.

Second step:
The shaft is connected to the pool, while at the same time the chemical system is made inoperable.

After:
The shaft is furnished with an accessible cover and the existing water cycle connected to the converter system is put into operation. The garden becomes a chemical free zone.

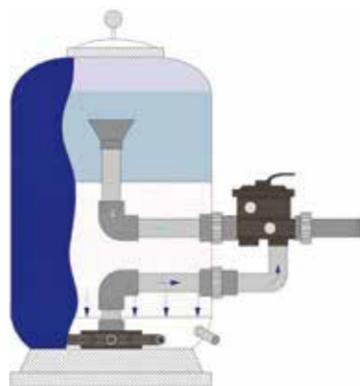


The EQUIPMENT

Custom made
to fit your personal needs.

The Phosphorous Filter »PhosTec Ultra«

Without the use of chemicals the phosphorous filter "PhosTec Ultra" very effectively binds the phosphorous that is dissolved in the water and which is responsible for the growth of algae – essentially "starving the algae out".



The Advantages of the PhosTec Ultra:

- phosphorous is reliably removed from the water
- small size
- easy to operate
- the filter material can be changed easily
- good durability

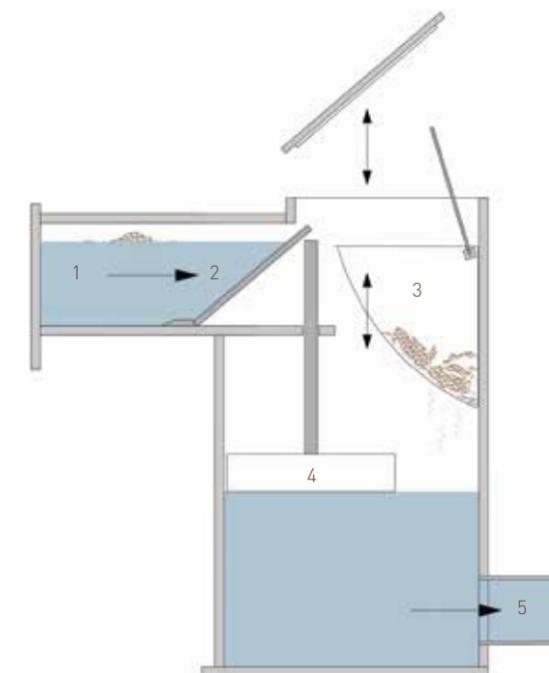
Curved Sieve Skimmer

The curved sieve skimmer is a milestone in skimmer development. The water flows over a curved sieve with a mesh size of only 0.3mm, so that even slight impurities get caught in the sieve. The impurities are removed from the system before the nutrients they contain get back into the water. The sieve is self-cleaning, as the impurities are rinsed to the bottom. Due to a cleverly-devised mechanism, the water flow is regulated via a moveable skimmer that always allows exactly the right amount of water to flow over the sieve.

The Advantages of the curved sieve skimmer:

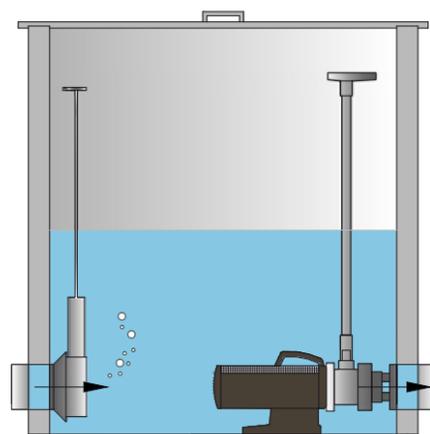
- removes even the smallest impurities
- the sieve is self-cleaning
- despite the high cleansing factor, the sieve does not clog up

- 1 skimmer inflow
- 2 skimmer flap
- 3 container for catch tray
- 4 float gauge
- 5 line to pump house



Submerged Pump House

BIOTOP offers a pump house with a completely new concept for circulating the water in the Living Pool. A submersible pump is installed in a flooded pump house. The pump does not "draw in" the water but it flows into the pump house without pressure. A submersible pump on the floor of the pump house transports the water into the natural pool through pressure lines.



The Advantages of the submerged pump house:

- submerged pumps make only minor noise
- the pump is so quiet it can be installed underneath the wooden deck
- the pump does not have to be put away in winter
- pipes do not have to be emptied in winter
- all suction and pressure lines can be regulated independently

Pool Robot

The pool robot is part of the Living Pool's standard equipment. It runs for one to two hours a day and cleans the floor and walls of the pool. Compared to conventional pool robots this appliance has the advantage of being equipped with cartridges that are user friendly and can be changed from the top of the robot. The pool robot was specially programmed to meet the requirements of the Living Pool.





Highest standard for eco-effectiveness. Unique worldwide:
Cradle to Cradle® printing products innovated by gugler*.
All of the constituent materials are optimized for the
biological cycle. Except binding. www.gugler.at

www.living-pool.eu

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