



spaBALANCER

SpaBalancer *the natural way*

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SpaBalancer

Biologically and chlorine-free active water care for jacuzzis and swim spas

SpaBalancer system care for jacuzzis - what is it?

The SpaBalancer system care for jacuzzis consists of the two main products SpaBalancer Basic and SpaBalancer UltraShock. These products avoid all problems associated with chlorine, bromine or other disinfectants that can occur.

SpaBalancer Basic is a product based on minerals and salts. It is not a biocide.

Basic encapsulates all organic dirt particles in the water via gel formation. Bacteria are not in a position to penetrate the encapsulation. The mass reproduction of bacteria and legionella is thus stopped, because bacteria only reproduce if they have enough food to feed themselves. The water remains clear, clean and without chemical waste products.

UltraShock is an oxidizing agent that is up to thirty times stronger than chlorine.

It works at any pH value and does not form any harmful chloramines. UltraShock develops a water-soluble disinfecting gas in water which contains two oxygen atoms per molecule. These oxygen atoms oxidize bacteria so strongly that they literally explode. Therefore, bacteria cannot become resistant to UltraShock. Even the smallest amounts of UltraShock are sufficient to keep the jacuzzi bacteria-free and to oxidize existing dirt.

Simple. Safe. Clean!

The waste product of these oxidation processes is carbon dioxide, water and a very small amount of salt. There are no health-endangering waste products! UltraShock and Basic are 100% skin-friendly.

Therefore even people with very sensitive skin or e.g. neurodermatitis can use UltraShock and Basic without hesitation.

The water-soluble ultraoxide gas is (as almost the only disinfectant) able to penetrate biofilms and kill the bacteria living there. 95% of all bacteria in the jacuzzi live in the biofilm. Even older biofilms can be continuously removed with UltraShock.

Basic prevents the spread of bacteria by encapsulating and filtering the dirt particles. UltraShock kills existing bacteria and destroys biofilms. Together, these products form the safest and easiest form of water purification for your spa.

The SpaBalancer system care for jacuzzis works with two completely new and innovative approaches in water care.

The water care system is easy to use, reliable, harmless to health and environmentally friendly.

To understand how the SpaBalancer system care works, you need to take a closer look at the problems that arise when using a jacuzzi and the most commonly used chlorinated water care products.

In a jacuzzi there are approx. 1200 litres of water heated to 37° degrees. If three people use the jacuzzi, this corresponds to approximately the same load as if 150 people would bathe in a 4 x 8 m swimming pool. The warmth of the water and the massage thoroughly cleanses the skin. Skin flakes, sweat, applied cosmetics, fats and oils get into the water and form a food basis for bacteria.

The water temperature of 37° C provides ideal conditions for bacteria. They double every 20 to 30 minutes. After 10 hours, 500 million bacteria can develop from one bacterium and settle on the microscopically small dirt particles floating in the water. The bacteria use these dirt particles as a source of food and form a biofilm. 95% of all bacteria in the jacuzzi live in this biofilm, which protects them from aggressive disinfectants.

In order to get this problem under control with chlorine, very high chlorine dosages would have to be carried out. In order for chlorine to work, these parameters must be measured, observed and adjusted:

- pH
- Cyanuric acid content in water
- Chloramin content in water
- Free chlorine
- Alkalinity

Most users have difficulties with these parameters. However, if these values are not correct, chlorine in water will form harmful compounds ranging from irritated skin and red eyes to cancer. And despite heavy use of chlorine, the water can be cloudy and full of bacteria.

All these problems are avoided when using the SpaBalancer water care system.





Our water care instructions refer to normal use. The quantities are designed for the four times a week use of the jacuzzi by two people.

In case of problems with the water quality, the dosage can and should be increased. Especially in the early days of new jacuzzis and with fresh water, it may be necessary to increase the quantities indicated.

Even if more often foreign people use your jacuzzi an increased amount of dirt may be deposited.

Water care is not rocket science. If you have problems, increase the amount added. If you have persistent problems, deposits in the pipes can be the cause.

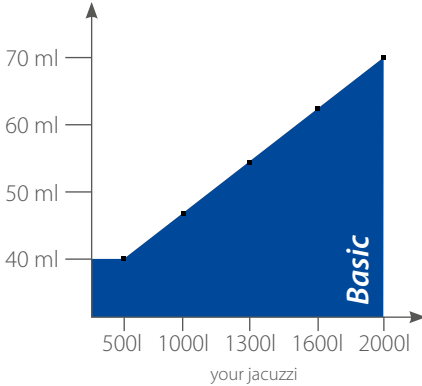
Then please contact our support at help@spabalancer.com

Dosing quantities

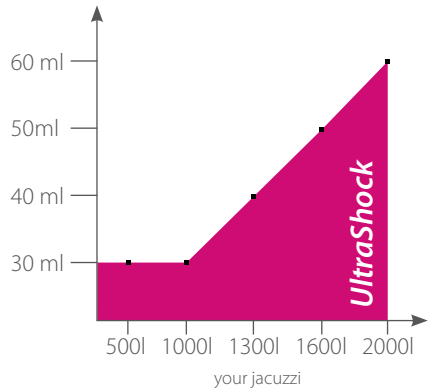
Hard shell jacuzzi

The dosing quantities vary depending on the capacity. Adjust the dosage to your jacuzzi.

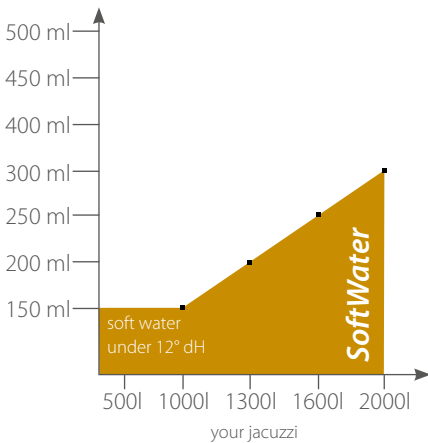
Basic quantity per week



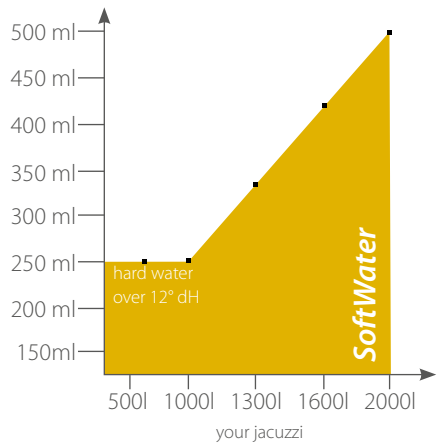
UltraShock quantity per week



SoftWater quantity (for refill only)



SoftWater quantity (for refill only)

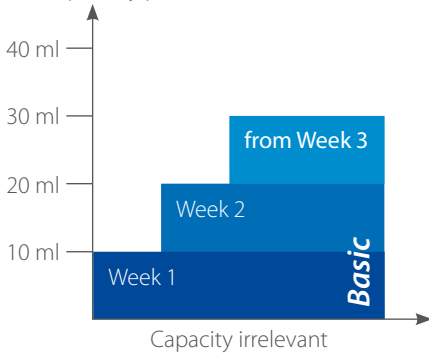


The water hardness in Germany is given in °German hardness. The conversion to °English degrees can be found on page 12.

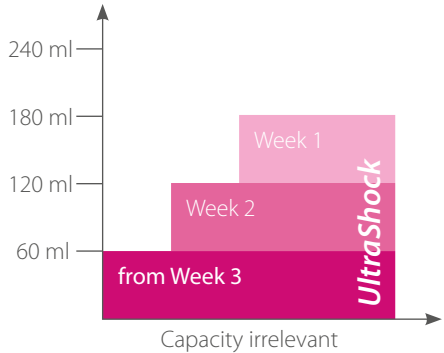
Inflatable spas | Softubs

The dosing quantities vary depending on the capacity.
Adjust the dosage to your jacuzzi..

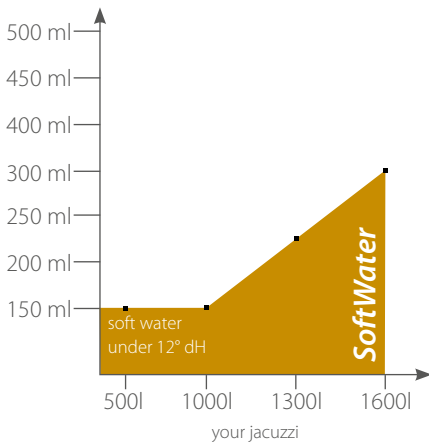
Basic quantity per week



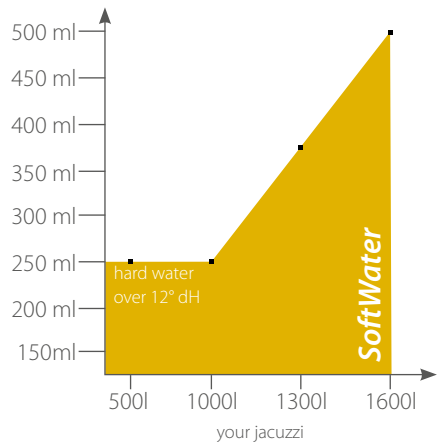
UltraShock quantity per week



SoftWater quantity (for refill only)



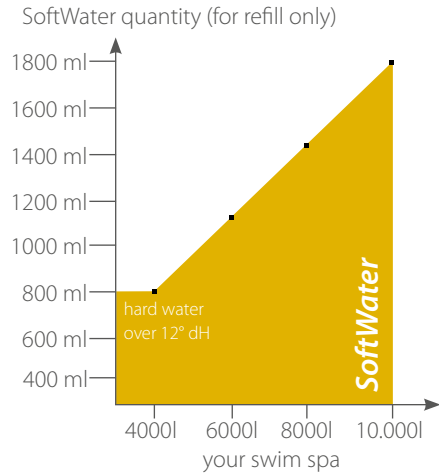
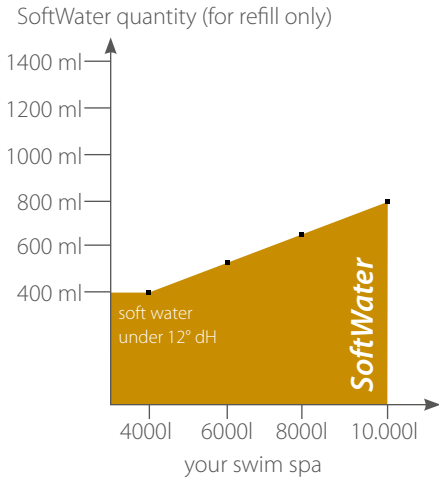
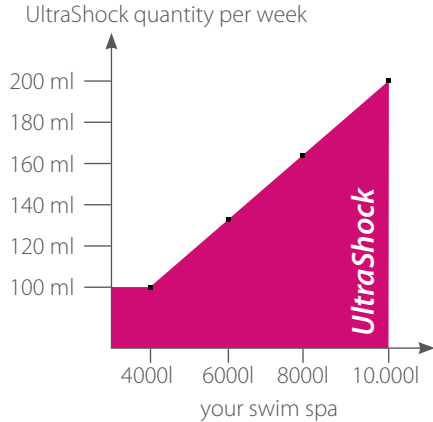
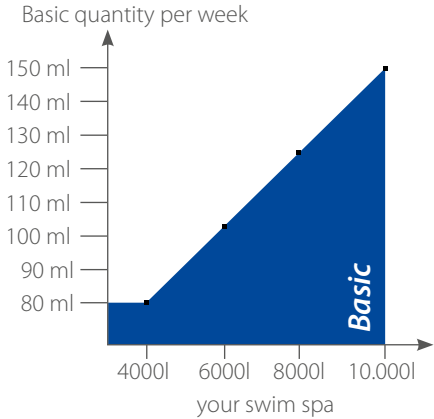
SoftWater quantity (for refill only)



The water hardness in Germany is given in °German hardness. The conversion to °English degrees can be found on page 12.

Swim spas

The dosing quantities vary depending on the capacity. Adjust the dosage to your swimming spa..



The water hardness in Germany is given in °German hardness. The conversion to °English degrees can be found on page 12.

Instructions

Refilling

DAY 1

1. Fill the pool with water
2. Add SoftWater and UltraShock

There should always be 0.3 mg/l UltraShock in the water during the first two weeks. Measured the day after the addition.

3. Check pH-value, if above 8 → regulate

DAY 2

1. If the water is clear and odourless, you can bathe from now on
2. Add Basic in the evening
3. Check pH-value, if above 8 → regulate

DAY 3-6

1. Check pH-value, if above 8 → regulate
2. After bathing add UltraShock to water, 5ml per person, but at least 10ml per bath

DAY 7

1. Check pH value and clean filter

Regular use

Month 1-5

1. Once a week:
 - Check pH value
 - Clean the filter
 - Add Basic and UltraShock

NOTE: There should always be at least 3 hours between the addition of UltraShock and Basic.

2. Add UltraShock to water after each bath, 5ml per person, minimum 10ml per bath
3. Dose SoftWater monthly: 50ml/1000l and proportionally if you refill with water

Every 6 months, at the latest every 12 months

1. Basic Cleaning with SystemFlush
2. Change water → refill

For an optimal water care of your jacuzzi we explain the most important steps here.

1. Do you know the hardness of your water?

Depending on the region, the degree of hardness of the tap water can vary. For a smooth maintenance of your jacuzzi it is therefore important to know how hard your water is. Your regional water companies can give you the best information - just give them a call.

We indicate the water hardness in dH° (degree of German hardness). In England the unit of measurement e° (English degrees) or $^\circ\text{Clark}$ (degrees Clarke) is usual. Please convert with this formula: **$1 \text{ dh}^\circ = 1.25 \text{ e}^\circ$**

In general, the following applies in Germany:

Soft water: under 8°dH

medium water: $8^\circ\text{-}14^\circ \text{dH}$

hard water: over 14°dH

2. The importance of the pH value

The pH value is one of the most important factors for optimal water care. If the pH value is too low - i.e. acidic - it can lead to corrosion of the jacuzzi, skin intolerances and irritation of the body. If the pH value is too high - i.e. alkaline - skin intolerances and irritations can also occur.

Water with a high pH tends to precipitate lime. These lead to deposits in the pipes and on the tub and are an ideal basis for biofilm.

Various factors influence the pH value, for example it rises due to:

- Addition of fresh water
- Increase in water temperature
- Enrichment of air in the water by the massage nozzles

Regular monitoring is therefore important. Check the pH value at least once a week. For SpaBalancer products, a pH value between 6.8 and 7.4 is optimal.

under 6.5

6.8-7.4

over 8

If your pH value is above 8, use SpaBalancer pH-Minus. It removes excess water hardness and unwanted metal compounds in the water. You can use pH test stripes for measuring. Our recommendation: Use an electronic pH meter, it is more accurate than test stripes.

3. How do filters work?

Modern cartridge filters consist of a special fleece with millions of smallest passages. The dirt gets trapped in these passages and is thus retained. Contaminated filters not only cause poor water quality, but also higher consumption of water care products.

In addition, dirty filters cause a higher power consumption of the filter pump and shorten its lifetime. Clean the filters once a week and use a second set of filters during the cleaning time. Replace your filters every two years. The filter fleece loses its filter effect over time. Even good-looking filters can only perform poorly.

4. Basic cleaning of the jacuzzi

In every jacuzzi there are many meters of piping. Each nozzle has a water pipe and an air pipe. In a jacuzzi with 50 nozzles, this results in between 140 m² and 160 m² of piping surface. Due to different flow behaviour, dirt deposits and biofilm can settle in the pipes.

It is therefore advisable to clean the pipes thoroughly once a year. SystemFlush was developed for this intensive cleaning of the jacuzzi pipes: It removes biofilm very quickly and aggressively, as well as calcium deposits, fats and oils.

With problematic or old jacuzzis it can be that the cleaning with SystemFlush is not sufficient. We have developed the SpaBalancer Intensive Basic Cleaning Set for this purpose.

In our experience most jacuzzis have deposits and biofilms in the pipes and an intensive basic cleaning should be carried out every two to three years.

Cleaning the jacuzzi filters

Proper cleaning of the filters is an important part of good water care. You can find out how to clean the filters optimally here. We use FilterClean Natural for our example.



Required products: Filter cleaner, filter shower/ garden hose, container (e.g. bucket), optional UltraShock



1. Fill the bucket with hot water (approx. 55°C) and then add half a measuring cup (50ml) of FilterClean Natural. (If you use a different filter cleaner, please add the amount according to the package insert).



2. Place the filter in the bucket.
The container must be large enough so that the filter is completely under water.
Leave the filter in the cleaning solution for at least 12 hours.



3. Rinse the filter with a filter spray. First you should hold the shower vertically and rinse the filter once all around. Then hold the shower horizontally and repeat this procedure until only clean and clear water comes out of the filter..



4. For even more intensive cleaning, place the filter in a bucket with 10 litres of water and 20 ml UltraShock for one night.
This will make the filter even whiter and remove any remaining biofilm with bacteria.



Questions & Answers

The use of SpaBalancer can also cause problems with water quality.

What can happen?

1) A chalky / hard coating can form on the surface of the tub.

Cause:

Lime precipitation - You probably have hard water.

Solution:

- Reduce the pH value of the water to 5.0 for one to two days. The low pH value dissolves the lime again.

Precautionary measures:

- Never let the pH value rise above 7.4. Always lower it with pH-Minus Liquid.
- Add more SpaBalancer SoftWater to the water.
- Use partially softened water for filling (water hardness 7° German hardness* is ideal)
- If you have hard water (over 14° German hardness* - you can request the water hardness from your water supplier) you should lower the pH value for 2 days to 5.0 every 4 to 8 weeks and then increase it again to 7.0. This will dissolve any limescale deposits in the pipes.
Use SpaBalancer pH-Minus Liquid as it contains special limescale solvents. You can use any commercially available pH-lifter to increase the pH.

2) The water is turbid.

This can have several causes. We explain this step by step below.

1. Cause:

The pH value is too high.

Solution:

- See measures for lime precipitation (point 1)

*The water hardness in Germany is given in °German hardness. The conversion to °English degrees can be found on page 12.

2. Cause:

No optimal filters in use.

Solution:

- Cartridge filters of the brands Pleatco, Magnum or Darryl should always be used. Chinese no-name filters that do not use Reemay high-tech fleece clog too quickly.
- Do not use sponge filters (filters with a hard pore material).

3. Cause:

The filter running time is too short.

Solution:

- The jacuzzi should filter for at least 6 hours a day. Even better would be 8 to 12 hours.
- If the water becomes cloudy, the filter running time should be set to at least 12 hours.
- During clouding, the filters should be cleaned daily.

4. Cause:

The filters were not cleaned.

Solution:

- The filters should be cleaned more frequently, especially in the initial period after refilling.
- If the water is not clear, it may be advisable to clean the filters daily or every two days.
- Otherwise, the filters should be cleaned weekly or after a maximum of two weeks.

5. Cause

The filters were not cleaned properly.

Solution:

- The filters must be placed in a cleaning solution (optimal: SpaBalancer FilterClean Natural) for one night.
- The next day, rinse the filter blades with a hard water jet - preferably a special filter spray.
- Until the water which runs out of the filters during rinsing is clear and foam-free.
- It is optimal if you place the filter one more night in an UltraShock solution. (20 to 40 ml UltraShock to 10 litres of water)

NOTE: Rinsing under a tap is not a filter cleaning!

If the water remains cloudy despite proper filtration, increase the addition of UltraShock by 20 ml daily.

Start with 50 ml per 1000 litres. Increase the amount to 70 ml / 1000 litres the next day, 90 ml / 1000 litres the following day etc.

If you should not have clear water after one week, you must carry out an intensive cleaning of the jacuzzi.

You can also increase the amount of Basic added. We recommend adding 20 ml daily. However, you should only do this if you clean the filters daily. Otherwise, we recommend that you do without it.

3) The water is green.

Cause:

Here you have to distinguish whether

the water is dark green matt or light green glittering.

If it is light green glittering:

- This is the natural colour of the water.
- If you want the water to shimmer blue, lower the pH to 7.0 and add a small amount of chlorine. (Chlorine colours water blue)

Solution:

If the water is dark green-matt:

This is a sign of deposits in the pipes and / or insufficient disinfection.

- Set the pH value of the water to 7.0.
- Increase the addition of UltraShock by 20 ml daily. Start with 50 ml per 1000 litres. Increase the amount to 70 ml / 1000 litres the next day, 90 ml / 1000 litres the following day etc. If you do not have clear water after one week, you must carry out an intensive cleaning of the jacuzzi.

4) There is a slimy coating on the side walls.

Cause:

This coating indicates that the water treatment is not optimal.

Solution:

- Optimize filtration as in 2.2 to 2.5.
- If the water remains cloudy despite proper filtration, increase the addition of UltraShock by 20 ml daily. Start with 50 ml per 1000 litres. Increase the amount to 70 ml / 1000 litres the next day, 90 ml / 1000 litres the following day etc.

If you do not have clear water after one week, you must carry out an intensive cleaning of the jacuzzi.

5) The water smells musty.

Solution:

- Carry out the same measures as in point 4.

6) Foam in the water

Cause:

For foam in water, you must distinguish between air foam and foam caused by dirt.

You can recognise air foam by these characteristics :

- Fine small air bubbles
- The foam does not build up
- As soon as you switch off the pumps, this foam disappears completely within 30 to 60 seconds.
- The water becomes clear again immediately after switching off the pumps.

Foam caused by soiling has the following properties:

- Large bubbles that may shimmer oily
- The foam builds up higher and higher
- After switching off the pumps, the foam does not decompose immediately and the water only becomes clear again after a few minutes.

It can also happen that foam forms when Basic and/or UltraShock is added. Then it is definitely foam from dirt.



Solution:

UltraShock - Intensive treatment with AnorganicShock:

- Remove the cushions.

NOTE: Caution with soft-shell jacuzzis or inflatable jacuzzis. The high chlorination could lead to bleaching.

- Add 200 ml UltraShock per 1000 litres of water to the water. Add 200 ml of AnorganicShock per 1000 litres of water to the water.
- Lower the pH to 5 to 6.

Wait 2 days

- Add 100 ml UltraShock per 1000 litres of water content to the water. Add 100 ml of AnorganicShock per 1000 litres of water to the water.
- Lower the pH to 5 to 6.

Wait 2 days

- Add 100 ml UltraShock per 1000 litres of water content to the water. Add 100 ml of AnorganicShock per 1000 litres of water to the water.
- Lower the pH to 5 to 6.

Wait 2 days

- If foam and dirt can still be seen in the water, you can continue this shock treatment.

Otherwise:

- Change the water. Rinse the pipes thoroughly when emptying.

If foam should appear again after this shock treatment, you must carry out our intensive cleaning.

Causes of the foam and prevention:

- Remains of the filter cleaner in the filter:

rinse out the filters more thoroughly.

- Residues of detergents in the swimwear: do not wash in the washing machine with detergents.
- Fragrances. All fragrances contain e.g. oils, emulsifiers/surfactants, preservatives. These contents can lead to foam and deposits in the pipes.
- Cosmetics, body lotions, creams: It is essential to shower before bathing.
- Do not use replenishing soaps or shampoos when showering.
- If you use a lot of body lotion, increase the amount of UltraShock in regular use.
- You can add 3 to 4 times the amount of UltraShock to the water regularly without any problems. UltraShock is not dangerous to health and does not damage the skin.

7) Brown water, brown discoloured filters**Cause:**

Mostly too much iron in the water. Usually occurs when well water is used.

Solution:

- Never use well water to fill the jacuzzi.
- If you only have well water available, you must use SpaBalancer pH-Minus Liquid. It contains a formulation that binds metals.
- You should also use much more UltraShock because UltraShock oxidizes metals and minerals. Increase the UltraShock addition by 20 ml per day until the filters no longer discolour and the water remains clear. Then you can use the usual UltraShock dosage again.



SpaBalancer Basic is the innovation that lets you keep the water in your spa clear, clean, and odorless - it is entirely organic and chlorine free.

SpaBalancer Basic is part of the system water care and should always be combined with UltraShock. UltraShock can be measured with the SpaBalancer TestStripes.

With Basic, your spa water will become very soft and your skin will no longer be irritated. Skin irritation becomes a thing of the past. Your skin will keep its natural hydrolipidic film and will not dry out. Even people with sensitive skin or neurodermatitis can once again enjoy their spa.

Basic alters the existing lime in the water, thus protecting the technology of your spa. The life of your spa will be considerably extended and you will save on costs for repairing calcified pumps and corroded heaters. The cushions and cover will also have a much longer life, as they are no longer exposed to the aggressive vapors of disinfectants.

Instead of replacing the spa water every two to four months, by using Basic, you can use the same water much longer, namely 6 - 12 months. You'll be protecting the environment and saving both energy and money.

SpaBalancer Basic



Article-No: SB1001

SpaBalancer Basic – chlorine-free water care on a natural, biological basis for jacuzzis and swimming spas.

SpaBalancer Basic is a system water care and should be used together with our product SpaBalancer UltraShock. The dosage instructions are included in the package.

The advantages of SpaBalancer Basic:

- Extremely simple water care: one measuring cup per week.
- Basic maintains the natural pH value of the water and works at any pH value.
- Works at any water hardness.
- The jacuzzi water is odourless.
- No more lime and dirt deposits above the waterline.
- Never apply cream again: the water is pleasantly soft and skin-friendly.
- No skin problems: no scratching, no itching, no tension. You can also enjoy your jacuzzi with neurodermatitis.
- No more red or inflamed eyes.
- No breathing problems.
- No more having to shower to remove the chlorine smell after using the spa.
- Cushions, cover, and the plastic shell will no longer be damaged.
- Frequent water changes are no longer necessary: replace water only every 6 to 12 months.
- The water will remain crystal clear for 4 weeks when not in use (e.g. when on vacation) without having to add Basic during that time.

SpaBalancer StarterSet



Article-No: SB1035

You have just bought a whirlpool or want to change the water care? With this starter set you are completely provided for and do not need any further products.

Water disinfection

Lotus Clean Basic + Lotus Clean Shock + Test Stripes

With these products you keep your water crystal clear. Free from bacteria, fungi, viruses and algae. 100% skin-friendly - suitable for children (dermatologically tested)

Lime & pH value

pH-Minus liquid + SoftWater + electronic pH tester

With these products you can adjust the pH-value and prevent lime precipitation. In this way you avoid deposits in the pipelines.

Filter cleaning

FilterClean Natural

Cleans the filters thoroughly and removes all deposits and biofilms from the filter fleece. FilterClean Natural is biodegradable.

Content StarterSet

- 1 bottle Basic 1,0 l
- 1 bottle UltraShock 1,0 l
- 1 FilterClean Natural jar 0,95 kg
- 1 box of Test strips (content 50 strips)
- 1 bottle SoftWater 0,5 l
- 1 bottle pH-Minus liquid 1,0 l
- electronic pH tester incl.
2 x calibration liquid



What is SpaBalancer UltraShock?

UltraShock is part of the system water care and should always be combined with Basic.

UltraShock can be measured with the SpaBalancer TestStripes.

SpaBalancer UltraShock is a cleaner based on Cl_2Oxid . It is five times stronger than chlorine. UltraShock reliably eliminates germs, bacteria and legionella.

Treating the water with conventional disinfectants such as chlorine or bromine initially makes the bacteria harmless. After a certain time, however, a large amount of legionella and other bacteria becomes apparent once again. The cause of this is the so-called biofilm.

The biofilm serves as a "refuge and sanctuary" and protects the bacteria from the disinfectant. SpaBalancer UltraShock is the only disinfecting product that penetrates the biofilm and destroys the polysaccharides (complex sugars) contained therein.

A shock treatment is necessary:

- After the first filling of the jacuzzi.
- If the water is not crystal clear.
- If the water smells unpleasant.
- If you have greasy deposits on the jacuzzi surface.
- If the water is very dirty due to a „jacuzzi party“.
- Regularly, if you use disinfectants such as chlorine, bromine, active oxygen, etc.

It is also possible to disinfect the jacuzzi with SpaBalancer UltraShock only. to perform. This is recommended, for example, for wooden hot tubs without a filter system.

SpaBalancer UltraShock

How to perform a shock treatment?

Add 50 ml SpaBalancer UltraShock per 1000 litres of water content to the water. When adding UltraShock, let the pumps run for better mixing. It is important that UltraShock can work for at least 8 hours. (If it works for less than 8 hours, there may still be bacteria and dirt in the jacuzzi).

You can control the concentration of UltraShock with the SpaBalancer TestStripes. After 8 hours the TestStripes should still show at least 0.3 - 0.5 ppm concentration. If there is no more UltraShock in the water before the 8 hours have elapsed, repeat the shock treatment.

Important: These values refer to 37 degrees Celsius warm water. With colder water, UltraShock degrades more slowly.

If UltraShock still degrades too quickly after the second use, this may indicate heavy soiling with a lot of biofilm in the pipes.

Carry out an UltraShock Intensive cleaning. The instructions can be found on our website. If this also does not help, you will have to carry out Intensive (pipe) Cleaning. You can also find all information on this on our website.

How do you measure UltraShock?

You can measure the level of SpaBalancer UltraShock with the SpaBalancer TestStripes.

Are you allowed to go into the jacuzzi when SpaBalancer UltraShock is in the water?

The concentration of SpaBalancer UltraShock should not exceed 5 ppm. Skin irritations are possible at higher concentrations.

SpaBalancer UltraShock as additional cleaning agent with "problematic" Jacuzzis

Problematic jacuzzis are spas with insufficient filtration, e.g. inflatable jacuzzis or wooden jacuzzis (hot tubs). When using Basic, sufficient filtration (at least 6 hours a day) and clean filters are crucial factors for success. For some spas, the filter runtime cannot be adjusted - this can lead to greasy deposits and turbidity. In these cases, shock treatment can be performed regularly as needed.

After the successful shock treatment, wait until there is no longer any SpaBalancer UltraShock in the water. Then add the usual amount of Basic to the water (40 ml to 60 ml). You can also add 20 ml to 40 ml SpaBalancer

UltraShock to the water after each bath. The amount depends on the number of people who have been in the spa. In addition, add approx. 20 to 60 ml Basic once a week.

With this method you use the advantages of both systems: SpaBalanCER UltraShock is a fast-acting oxidizing agent that decomposes after a short time, SpaBalanCER Basic is a slow and continuous, skin-friendly water care and cleaning agent.

SpaBalanCER UltraShock as sole disinfectant

SpaBalanCER UltraShock can also be used as the sole disinfectant without SpaBalanCER Basic, e.g. for jacuzzis without a filter system such as wooden hot tubs.

After using the spa, add 20 ml UltraShock per person to the water. Since UltraShock has no depot effect, when the spa is not in use you should add 15 ml SpaBalanCER UltraShock to the water at least every three days. Make sure that the dosage of SpaBalanCER UltraShock does not fall below 0.3 ppm.

SpaBalanCER UltraShock as shock agent for other types of disinfection

Since most types of disinfection (chlorine, bromine, active oxygen) allow the growth of biofilm, it is recommended to carry out shock treatment with SpaBalanCER UltraShock on a regular basis. This not only removes the biofilm, but also many residues of previous disinfections and thus improves the water quality considerably.

UltraShock as deodorizer

SpaBalanCER UltraShock has the ability to destroy aroma molecules. With this unique ability, you can even refresh bad smelling water by adding 10 to 20 ml of UltraShock for every 1000 liters of water.

Durability

SpaBalanCER UltraShock loses out monthly approx. 8% effectiveness and can be kept for a maximum of 1 year. The indicated amounts should then be increased to compensate for the decreasing effectiveness. On the bottom of each bottle there is a label with the date of expiration. Store in a cool, dark and upright place.



Article-No: SB1002



SpaBalancer TestStripes

SpaBalancer TestStripes - For measuring UltraShock and pH values.

You can also use the UltraShock value to measure chlorine content.

The UltraShock content can be accurately measured in the following steps
0.0, 0.3, 0.5, 1.0, 1.5 and 2.0.

There are 50 test strips in the box. The test strips are shrink-wrapped in 5 aluminium packs so that they display accurate results over a longer period of time and retain their high quality.

For the measurement of the pH value we recommend the use of our electronic pH tester. The measurement results of the electronic pH tester are more accurate because it can be calibrated.



Article-No: SB1006

SpaBalancer TestStripes

SpaBalancer FilterClean Natural

Use:

Place the filter in a container and give it a half measuring cup (50 ml) SpaBalancer FilterClean Natural and fill it with hot water until the filter is covered. For larger containers or heavy soiling, increase the amount to be added.

Leave the filter in the cleaning solution for at least 12 hours. Then remove the filter and rinse it thoroughly with a strong jet of water.

For even more intensive cleaning, place the filter in a bucket with 10 litres of water and 20 ml UltraShock for one night. This will make the filter even whiter and remove any remaining biofilm with bacteria. Replace your filters every two years.

FilterClean Natural is included in the SpaBalancer StarterSet



Article-No: SB1036

Special cleaner - Developed especially for jacuzzi filters

- Dissolves dirt, fats, oils and cosmetics
- Dissolves lime deposits
- Cleans the filter fleece
- Dissolves biofilms and eliminates bacteria
- Very economical. With one can you can clean 16 filters.
- Environmentally friendly
- Removes unpleasant odours

Modern cartridge filters consist of a special fleece with millions of very small passages. The dirt gets caught in these diffusers and is thus retained. In the event of improper cleaning, bacteria accumulate in the fleece and form a biofilm that protects it. Additional fats, oils and skin flakes form the nutritional basis for the bacteria. Then the filter becomes a water polluter. Contaminated filters also cause a higher power consumption of the filter pump and shorten the service life of the filter pump.

For these reasons it is important to clean the filters regularly and thoroughly: SpaBalancer FilterClean Natural dissolves organic soiling, grease and oils from the filter fleece.

Clean the filters every two to three weeks (in the initial period with SpaBalancer Basic a weekly cleaning may also be necessary) and use a second set of filters during the cleaning time.

The filter fleece loses its filter effect over time. Even good-looking filters can then only produce poor filter performance.

SpaBalancer FilterClean^{Natural}



Article-No: SB1007

SpaBalancer Filter Flosser

With our SpaBalancer filter flosser, you no longer waste time, energy or water cleaning the filters. You also extend the life of your filters.

The high pressure of our filter flosser penetrates to the deepest folds of the filter fleece and reliably loosens stuck dirt. This dirt shortens the lifetime of your filter and forces you to work with higher disinfectant concentrations if you do not remove it.

SpaBalancer FilterClean Classic dissolves organic dirt, fats and oils from the filter fleece.

The higher the concentration of the SpaBalancer FilterClean, the better the cleaning effect. The amount of SpaBalancer FilterClean depends on the contamination. Leave the filters in the container with SpaBalancer FilterClean for 12 hours. Then remove the filters and rinse them thoroughly with a water hose. The SpaBalancer filter flosser is recommended for this purpose. Replace your filters every two years. The filter fleece loses its filter effect over time. Even good-looking filters can only produce poor filter performance.

FilterClean Classic is available in 1l bottles und 0,5l bottles.



Article-No: SB1022

Article-No: SB1003

SpaBalancer FilterClean^{classic}

SpaBalancer SoftWater

Summary:

SoftWater does not soften the water but it prevents deposits from forming and the water from becoming discoloured or turbid.

Use:

Shake thoroughly before use. After filling the jacuzzi, add 150 ml Soft Water to 1000 litres of water. With hard water you can increase the amount up to 250 ml / 1000 litres of water.

The product must be stored in a cool and dark place. Improper storage (frequent changes between warm and cold) may render the product ineffective. A sign of this are flakes in the product.

SoftWater is available in 1l bottles und 0,5l bottles.



Article-No: SB1022

Article-No: SB1003

Why put SoftWater in the water? What does it do?

Each water contains different dissolved substances in different concentrations.

These are calcium and magnesium as well as sulphates. These substances are responsible for the hardness of the water. In addition, the water also contains metals such as iron, copper and manganese. All these substances are present in the water in ionized form. These substances can settle due to the heating and turbulence of the water.

Solid, rough, calcium- and magnesium-containing lime deposits can form in the pipes and on the tub shell and adhere there. Fats and oils from skin or cosmetics stick to these rough surfaces and serve bacteria as a source of food. These bacteria then form biofilms to protect against disinfectants.

When SoftWater is used, calcium and magnesium molecules are complexed. This means that when they transition from the ionized form to the solid form, they form a different molecular structure. This means they can no longer stick to the pipe walls and deposits are effectively prevented. The limestone is simply filtered out.

Metals in the water can lead to discoloration and turbidity. Complexing with SoftWater prevents this and the metals can also be filtered out.

SpaBalancer SoftWater

SpaBalancer SoftWater Pad

With the SoftWater Pads the water in the whirlpool can be softened. The calcium ions are removed from the water.

How many Soft Water Pads do I need?

This depends on the water hardness* and the water content.

Use this table as a guide. The information relates to 1,000 liters.

starting hardness	15	20	25	30	35	40	45	50	55
target hardness									
5	1,1 kg	1,7 kg	2,3 kg	2,9 kg	3,4 kg	4,0 kg	4,6 kg	5,1 kg	5,7 kg
7	0,9 kg	1,5 kg	2,1 kg	2,6 kg	3,2 kg	3,8 kg	4,4 kg	4,9 kg	5,5 kg
10	0,6 kg	1,1 kg	1,7 kg	2,3 kg	2,8 kg	3,4 kg	4,0 kg	4,6 kg	5,1 kg
12	0,3 kg	0,9 kg	1,5 kg	2,1 kg	2,6 kg	3,2 kg	3,8 kg	4,3 kg	4,9 kg
15	0,0 kg	0,6 kg	1,1 kg	1,7 kg	2,3 kg	2,9 kg	3,4 kg	4,0 kg	4,6 kg

A Soft Water Pad has a weight of 0.8 kg.

Example*:

You have a water hardness of 30 and want to reduce the water hardness to 12. Your jacuzzi has a water volume of 1200 litres.

You then take 2.1 kg and multiply it by 1.2 (1200 litres). Result:

2.52 kg. You divide the 2.52 kg by 0.8 kg (weight of the Soft

Water Pad) The result is 3.15. In this case you need 3 Soft Water Pads as one pad contains 0.8 kg softener mineral.

You can also take 2 Soft Water Pads and soak the Soft Water Pads (when the water hardness no longer decreases) for a few days in distilled water with 30% salt content. This removes the calcium ions from the softener mineral and replaces them with sodium ions. The Pads can then be reused.

* The water hardness in Germany is given in °German hardness. The conversion to °English degrees can be found on page 12.

Why should the water be softened?

- Hard water is prone to lime precipitation. Lime deposits in the pipes lead to deposits and biofilms.
- Lime deposits can reduce the service life of the heating.
- Hard water leads to strongly increasing pH values which can only be lowered with a lot of pH minus. The constant lowering of the pH-value costs a lot of time and is expensive.
- Hard water with a high pH value can lead to clouding of the water.
- Hard water reduces the effectiveness of water care products.

How do Soft Water Pads work?

The Soft Water Pads contain a special mineral which is charged with sodium ions. These minerals release sodium ions in the water and absorb calcium ions. This makes the water softer.

How do I determine the hardness of the water?

Ask your water supplier about the hardness of your water. Let them give you the total hardness in degrees of english hardness.

Or:

You can determine the water hardness yourself with our Water Hardness Test Set.

What is the ideal water hardness in a hot tub?

The ideal water hardness is between 7 and 10 degrees of German hardness*.

*The water hardness in Germany is given in °German hardness. The conversion to °English degrees can be found on page 12.



Article-No: SB1050

Where should the Soft Water Pads be placed?

A good flow is important for a fast and effective softening of the water with the Soft Water Pads. It is best to place them in the filter chamber. For jacuzzis without a filter chamber, the Soft Water Pads should be placed directly on the filter. It may be useful to increase the filter running time during the softening period.

How long does it take to soften the water?

This depends on the water hardness, the number of Soft Water Pads used and the flow rate. It can be from one or two days to two or three weeks.

Can I use the Soft Water Pads more than once?

This is possible. After use, the bags must be placed in distilled water with at least 30% salt content. This regenerates the Soft Water Pads.

I have a water softener in my house. Do I still need the Soft Water Pads?

Yes, a domestic water softener can only soften a certain amount of water at once. But never as much as fits in a jacuzzi. Once the target water quantity has been reached, the exchanger granulate in the water softener would have to be regenerated. However, since much more water is allowed to run continuously through the water softener, unsoftened water also ends up in the jacuzzi after the target water quantity has been reached.

Water Hardness Test Set

Use

Step 1

As long as the water is red, add the liquid drop by drop into the measuring cup. Count each drop and shake the measuring cup after each drop.



Step 2

As soon as the water turns slightly yellow, gently add another drop or 2.



Step 3

As soon as the liquid has turned green, you have determined the hardness of the water using the amount of drops added.



How do I measure the water hardness?

Fill the measuring cup with 5 ml water from the jacuzzi. Now add the measuring liquid drop by drop. Shake the liquid after each drop so that the water and the measuring liquid mix. The water turns red. Count the drops you add. As soon as the water turns green, you have determined the degree of hardness. Each drop corresponds to 1 degree of German hardness. If the water in the measuring cup changes colour from red to green with 10 drops, you have a water hardness of 10 degrees German hardness.

Water hardness converter

fH°: degrees of French hardness

e°: Englisch degrees

dH°	5	10	15	20	25	30	35	40	45	50
fH°	9	18	27	36	45	53	62	71	80	89
e°	6	13	19	26	31	38	44	50	56	63

rounded information

Exact conversion from dH° to fH°

$$fH^{\circ} = dH^{\circ} * 1,78$$

Exact conversion from dH° to e°

$$e^{\circ} = dH^{\circ} * 1,25$$



Article-No: SB1051

SpaBalancer pH-Minus

Use:

First measure the pH value of the water. Then add approx. 50 ml of pH reducer per 1000 litres of water content to the jacuzzi. Let the pumps run until everything is well mixed. Measure the pH value again after 20 minutes. From the measured difference you can estimate how much pH minus you still have to add to the water. The pH value should be between 6.8 and 7.4. The pH value will rise again and again in the first days / weeks because carbonic acid escapes from the water. Therefore measure and lower the pH-value regularly.



Article-No: SB1032

SpaBalancer pH-Minus is a special quadruple-action pH reducer developed for spas

- Reduces the pH of your water. It's use as a liquid makes dosing very easy.
- Dissolves existing limestone deposits in the pipes and on the heating elements. The risk of biofilm formation is greatly reduced. Lime on the heating elements increases electricity consumption and shortens the service life of the heating system.
- Converts calcium and magnesium contained in water into water-soluble salts. The danger of limestone formation is reduced.
- Changes the metals contained in the water, such as iron and copper. They are converted into filterable substances and the risk of turbidity or discoloration of the water is reduced.

The lowering of the pH value depends on the hardness of the water. With a high water hardness, it is difficult to lower the pH value and more pH reducers are required. Therefore, it is not possible to specify dosing quantities.

Depending on the region, the degree of hardness of the tap water can vary. For a trouble-free maintenance of your jacuzzi, it is therefore important to know how hard their water is. Your regional water companies can give you the best information - just give them a call.

The water hardness is indicated in degrees of German hardness*. Generally applies in Germany:

under 8° soft

8°-14° middle

over 14° hard

*The water hardness in Germany is given in °German hardness. The conversion to °English degrees can be found on page 12.

SpaBalancer pH-Minusliquid

SpaBalancer pH-Tester

Application:

- Remove the cover cap.
- Switch on the device at the upper switch.
- Calibrate the device (absolutely during commissioning. Then every 4 weeks).
- To measure, dip the measuring diode of the pH tester into the water and stir slightly. Leave it immersed until the values in the display do not change.
- After measuring, clean the measuring diode in distilled water and close the lid over the wet measuring diode. The measuring diode should not dry out.
- Switch off the device.

Article-No: SB1031



Article-No: SB1030

SpaBalancer electronic pH tester for precise measurement of the pH value for your jacuzzi

The measuring instrument has a probe that can be calibrated exactly. In addition, we supply you with 2x ready-to-use calibration liquid and a handy screwdriver.

Before you measure the pH value, the pH tester must be calibrated.

Calibration

- Switch on the pH tester.
- Dip the measuring diode into our calibration solution that should not be warmer than 25° Celsius.
- Turn the rear calibration screw with the supplied screwdriver until the display shows 7.0.

Calibrate the pH tester every 4 weeks.

SpaBalancer pH-Tester

SpaBalancer SystemFlush

Application:

- Leave the filters in the hot tub.
- Start all pumps and pour the bottle of SpaBalancer System-Flush into the water.
- Close the air valves and add AntiFoam to the water if there is too much foam.
- Allow System Flush to work overnight.
- Switch the pumps on and off at short intervals. The more often, the better the cleaning effect.
- Drain the hot tub.
- Rinse the pipes thoroughly through the nozzles with a garden hose.
- Fill the whirlpool with fresh water.

Attention: Turn off the air volume regulator so that it foams less.

Note: If you have cleaned the spa with SystemFlush, you cannot dispose of the old water in the garden.



Article-No: SB1004

SpaBalancer SystemFlush is a highly effective pipe cleaner for the recommended annual cleaning of your pipes.

Each jacuzzi contains many metres of piping. Each nozzle has a water pipe and an air pipe. With a jacuzzi with 50 nozzles this results in between 140 m² and 160 m².

Due to different flow behaviour, dirt deposits and biofilm can settle in the pipes. It is therefore advisable to clean the pipes thoroughly once a year.

SpaBalancer SystemFlush was developed for this intensive cleaning of the jacuzzi pipes:

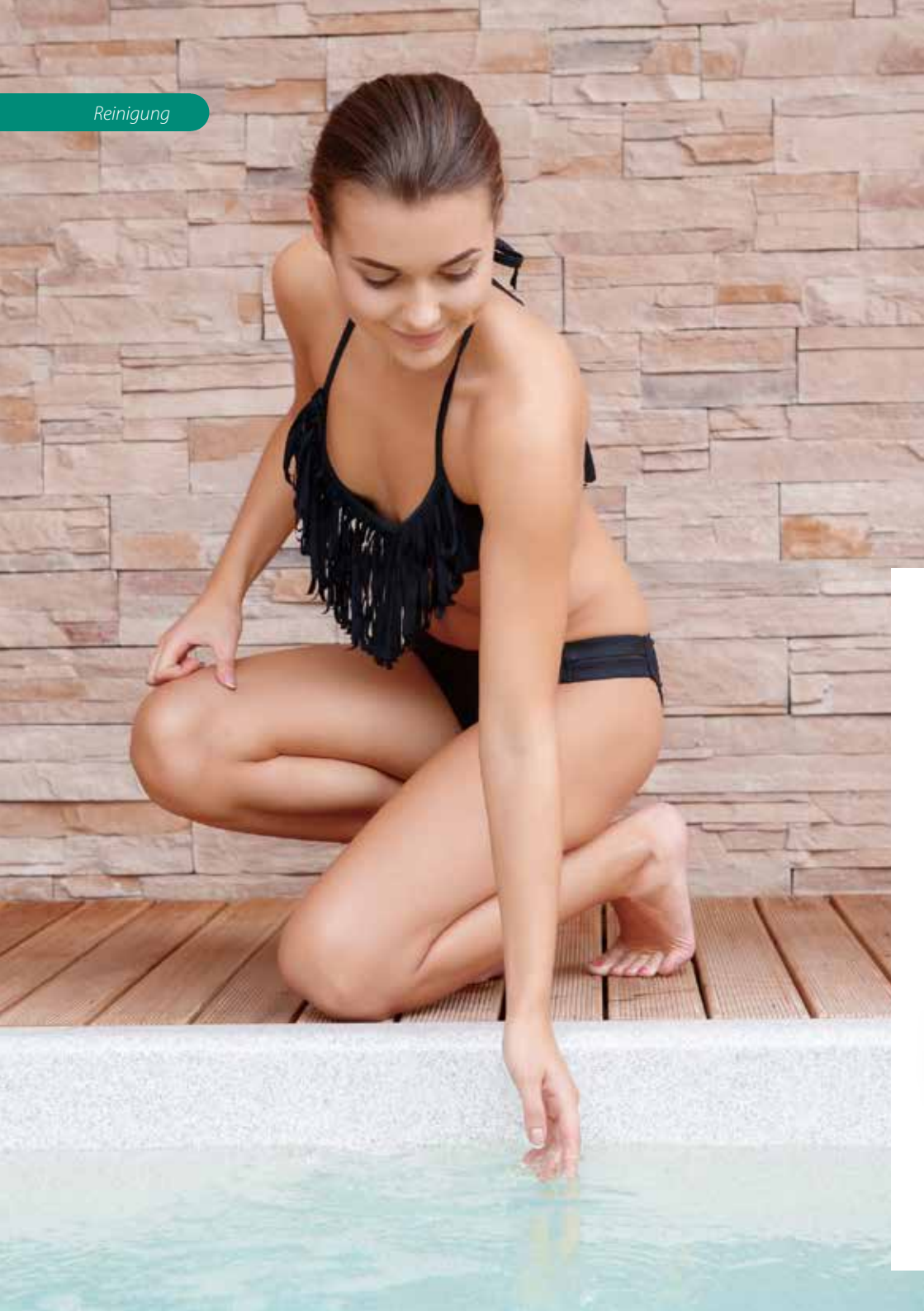
- It removes biofilm very quickly and aggressively.
- It removes calcium deposits.
- It removes greases and oils.

A bottle of SpaBalancer System Flush is enough for a jacuzzi with 1500 litres of water.

In particularly difficult cases (e.g. older, used jacuzzis) you can also use twice the amount.

SpaBalancer SystemFlush

Reinigung



The magic cleaning cloth

Our SpaBalancer spa cleaning cloth cleans all greasy residues, even under water. Simply wipe and the oily residues are absorbed and removed by the high-tech cloth. It is suitable for multiple uses and can remove oils, greases, soot and fresh paint. You can use it for cleaning spas, inflatable spas, swim spas and swimming pools. Our cleaning cloth is also suitable for cleaning the acrylic surfaces, cushions, insulation covers and exterior claddings of spas. It can even be used in many ways around the home. Just dampen the cloth and wipe the surface to be cleaned. It can be combined very well with the Clean & Refresh Cleaner. Simply spray onto the cloth. It can even clean below the waterline without the cleaner entering the water.



Article-No: SB1034

SpaBalancer Magic Cleaning Cloth

Reinigung



Clean & Refresh

SpaBalancer Clean & Refresh is a mild cleaner for the cushions, the underside of the insulating cover and for the acrylic surface of the whirlpool. Clean & Refresh removes dirt and neutralises the associated odours.

SpaBalancer Clean & Refresh is a natural product with mineral-based active ingredients that guarantee thorough and gentle cleaning. This cleaner is free of harmful substances and protects our environment.

Anwendung

- Shake bottle thoroughly before use
- Spray affected areas
- Allow to soak in for a few minutes
- Wipe with a cloth if necessary
- Rinse with clean water



Article-No: SB1011

SpaBalancer Clean & Refresh

Against foam



SpaBalancer AntiFoam was specially developed for use in jacuzzis.

It removes foam very effectively. SpaBalancer AntiFoam contains no harmful substances. All components used are approved for use in food.

AntiFoam does not eliminate the cause of the foam, but only the foam itself and must therefore be used daily if necessary.

You will find the causes and suggested solutions for foam in the jacuzzi in this catalog on page 20 under item 6.

Use:

Shake thoroughly before use.

Add approx. 10 ml (3 teaspoons) of AntiFoam to the water. Repeat if necessary.



Article-No: SB1009

SpaBalancer AntiFoam

Fragrances



SpaBalancer jacuzzi fragrances

Our SpaBalancer Aroma Pad consists of pure essential oils without the addition of alcohol, emulsifiers or preservatives. The pad is made of a high-tech material which absorbs the essential oils. It releases the volatile and fragrant components into the water and retains the heavy oils. This means that your water smells pleasantly of the scents but no deposits or waste products can accumulate in the water.

Use

Remove the fragrance pad from the packaging and place it in the filter chamber. If your jacuzzi does not have a filter chamber, you can also place the pad in the water in the jacuzzi. Leave the pad in the jacuzzi until the water has the desired fragrance intensity. Put the pad back into the vacuum packaging and close it with the included clip closure.

Repeat the process if the water loses the desired fragrance intensity.

The fragrance in the pad lasts between 4 and 8 weeks, depending on the desired intensity.



Article-No: SB1040

SpaParfum Citrus

The perfect preparation for a bath in your jacuzzi or tub with the SpaParfum Citrus. Immerse yourself in a sensual fragrance experience with an exclusive composition natural essential oils from organic cultivation or wild growth. Full enjoyment without foam formation and without stressing your pool.

The pleasantly natural fragrance of the citrus-mixture was specially developed for jacuzzis. Our fragrance composition consists of wild lavandin, exotic lemon grass and aromatic lemon eucalyptus.



Article-No: SB1041

SpaParfum Eukalyptus

Relax and treat your body to a time-out. The SpaParfum Eukalyptus has a pleasantly refreshing yet subtle fragrance.

The genuine eucalyptus oil is ideal for colds and pains. It relieves breathing difficulties and relaxes the aching body. The versatile, positive properties of eucalyptus oil have been known for centuries and we make use of them for our SpaParfum. Enjoy and relax with this soothing bath.



Article-No: SB1042

SpaParfum Lavendel

The essential oils of lavender have a variety of effects on body and mind. Lavender oil has a calming and antispasmodic effect. It inhibits inflammation and stimulates cell regeneration. Lavender can help especially with redness and burns. The vapours have a calming and anxiety-relieving effect on our soul. A relaxing bath can help you to reduce stress and give you new strength for everyday life. With the help of lavender you can strengthen your nerves and lighten your mood.



Article-No: SB1043

SpaParfum Mango

Mango - exotic and tempting
Originally from Asia, the sun-yellow mango captivates with an aromatic sweet aroma. In India the mango has been cultivated for many thousands of years and is revered as the „fruit of the gods“. Let yourself be carried away by fruity, gentle and exotic scents. Dream yourself into the tropical summer with the SpaParfum Mango. A wonderful pampering gift to relax in the whirlpool bath.

You can find more fragrances in the fragrance catalogue

If you have problems with SpaBalancer...

...send an e-mail to help@spabalancer.com .

We will be happy to help you.

Describe us exactly what the problem is and what you have done so far. Also tell us which jacuzzi you have and how old it is.

Free bottle of SpaBalancer Basic?

If you are satisfied with SpaBalancer, we would be very pleased about a reference. Write us about your experience with SpaBalancer and send us a picture of you, your spa and a bottle of SpaBalancer Basic and the manufacturer of your spa.

If we publish your reference, you will receive a bottle of SpaBalancer Basic as a thank you.

The publication is always anonymous.

We wish you a lot of fun with your
jacuzzi and SpaBalancer.







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