

PRO SCAPE

EQUIPMENT FOR PROFESSIONAL AQUASCAPING



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Content

Instructions for aquascaping	4
JBL ProScape Tools	10
Tools	
JBL ProScape Soils	12
Substrates	
JBL ProScape Elements	14
Fertilisers and trace elements	
JBL ProScape Test Sets	16
Water tests	
JBL ProTemp b	18
Undergravel heating	
JBL ProFlora 201 u	20
CO ₂ fertilisation system	
JBL Filter	22
Water conditioner and bacteria starter	24
JBL Osmose 120	25
Cleaning	26
Accessories	27



Lyudmila Savushkina - Planted Aquarium Design Contest 2013



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The next level for aquarists

Sooner or later every aquarist reaches the point where he wants more than "just" an aquarium with fish and plants. Perhaps he wants to recreate a landscape above water, such as a mountain range with woods or some special habitat (biotope), inside his aquarium. This is the first step to becoming a proscraper!

Three scaping styles have established themselves and these are at the proscraper's disposal:

1. Plant-scaping ①

An imaginative plant arrangement with or without decoration material under water. The style of the Dutch planted aquarium falls into this category.

2. Aquascaping

Reproduction of an above water landscape inside the aquarium: this time under water. There are different styles, such as: Iwagumi ② : mountain range with meadow landscape (under the heading "alpine meadows"),

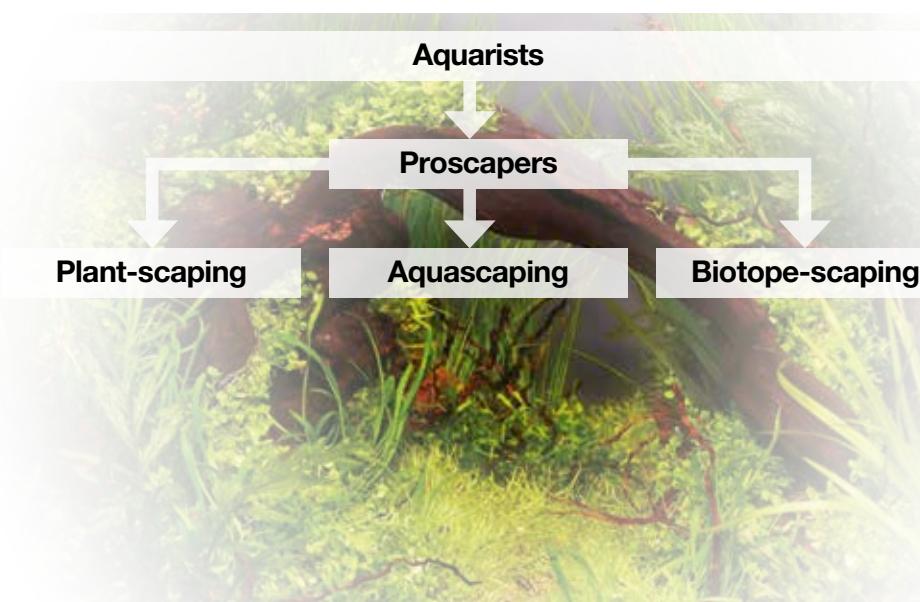
traditional ③ : above water landscape (such as a forest with paths), reproduced under water or art-scaping ④ : imaginary underwater worlds or fantasy landscapes like floating worlds (Avatar).

3. Biotope-scaping ⑤ :

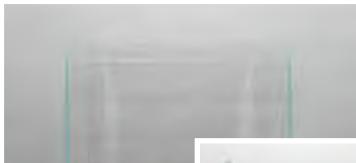
Reproduction of natural habitats. There are two options: you can follow a biotope model closely, using only the animals, plants and decorative elements found within this natural habitat. Alternatively you can create a biotope simulation of an underwater landscape. Here you don't worry too much about the exact origin of the plants, animals or decorative materials used, but concentrate on the functional processes in a biotope. Biotope-scaping is the most demanding scaping style, because even the extreme habitats have to be visually appealing as well as realistic.

Proscaping:

The next level for aquarists who want more!



Instructions for aquascaping



Please clean the aquarium with **JBL BioClean**. Never use household detergents.



Pile up lava granulate (**JBL ProScape Volcano Mineral**), to create a stable foundation where stones or pieces of wood are to be placed. The lava granulate prevents the stones from subsiding with the later use of the less stable substrate (soil).

Spread lava granulate powder (**JBL ProScape Volcano Powder**) over the whole bottom surface to provide the plants with a long-term mineral-based nutrient substrate with trace elements.



Now spread the substrate (**JBL ProScape PlantSoil BROWN or BEIGE**).



Shape or use a spatula (**JBL ProScape Tool SP**) to smooth the soil into your desired look for the bottom surface.

Now put in stones and wood to scape your landscape. Please place heavy stones on a substructure of **JBL ProScape Volcano Mineral** only and push them through the soil down to the substructure.





Now prepare the plants: using strong scissors, cut off the rock wool around the plant roots (shown is *Hemianthus calithrichoides cuba*).



Use the scissors to cut into the root area from below in a cross-cross shape. You can now "unhook" the plant from the rock wool using the tips of the scissors or pincers.



Use slender pincers (**JBL ProScape Tool P slimline**) to pull the rock wool remains from the cryptocorynes roots.



Rinse out any remaining traces of the rock wool thoroughly. It is important to remove the rock wool completely because it is saturated in fertiliser, which could lead to algae problems.



With IN-VITRO plants, such as this *Eleocharis sp. Mini* (kept wet in containers with culture growth medium), please remove the transparent culture medium as thoroughly as possible.



Please also squeeze and rinse these roots after the mechanical removal with the pincers.



Pull apart the single plants.



Using the slender pincers (**JBL ProScape Tool P slimline**), push the foreground plants into the soil.

Don't forget to spray them with water! This will prevent the plants from drying out.



Hygrophila corymbosa siamensis is particularly well-suited for the sides behind the stones.

For plants with longer roots it is helpful to push them deeper into the soil and to pull them out again to the right height (base of the leaf).





Be radical and cut off all the leaves from many plants, such as the cryptocorynes!



Every last leaf! The leaves often die after planting anyway and start to pollute the water. It is thus better to remove them beforehand.

Using curved pincers (**JBL ProScape Tool P curved**) add plants which have strong and vertical roots, such as cryptocorynes.



You can use curved spring scissors (**JBL ProScape Tool S spring**) not only for cutting mosses but also for the targeted removal of individual plant leaves (shown is *Cryptocoryne beckettii petchii*). It is better to cut off a few extra leaves than to have leaves dying in the aquarium after the plant has been moved.

With stem plants, such as Cabomba, use spring scissors (**JBL ProScape Tool S spring**) to cut off several centimetres of the lower leaves. This enables you to slide the stem deep enough into the soil, so that the plant won't float up.



Don't push more than 2 stems at once into the soil with the slender pincers (**JBL ProScape P slimline**). The first leaves have to be above the ground.



Lay down kitchen paper and carefully start to pour water over it.



When you have reached a water level of a few centimetres you can remove the kitchen paper and continue filling with low water pressure. Please make sure you maintain a medium temperature of 20 - 25°C.



This is the first time you see your scape with water. You can now assess the visual effect of the stem plants.

If needed, trim both carpeting and stem plants with the spring scissors under water and then remove the floating plant remains.



A newly laid scape never looks the same as the end result. Please be patient and give the plants time to grow.

Some technical items are still missing: Next install the filter, CO₂ fertilisation system and lighting.



*The maintenance measures, especially in the first days, include a partial water change, fertilisation with NPK (**JBL Macroelements NPK**) and water tests to determine the fertilisation requirement.*

Over the coming days you will see the plants growing and your scape becoming more and more beautiful.



JBL ProScape Tools

Every ProScaper needs the right tools to design and maintain his scapes.

Designed to fit perfectly the requirements of professional aquascaping. Made of high-quality steel, made in Japan, (with an extremely smooth surface) for scissors with the best quality and the highest cutting precision. The pincers have crosswise flu-

ted tips to reach the plants in an optimum manner and to prevent crushing them. All tools are weight-optimized for fatigue-free working. They make working in the aquarium more fun!



JBL Proscape aquarium glove

Cleaning glove for aquarium glass

- Cleans aquarium glass easily.
- Reaches into all nooks and corners of the aquarium.
- Removes algae from leaves of plants and decorative material.
- Cleans technical equipment and pump parts.

Art. no. 61379



Product	Length	Art. no.
1 JBL ProScape Tool S straight straight trimming scissors for aquascaping	S 20: 20 cm S 30: 30 cm	61540 61541
2 JBL ProScape Tool S curved angled trimming scissors for plant maintenance	S 20: 20 cm S 30: 30 cm	61543 61544
3 JBL ProScape Tool S wave Wave shaped scissors for plant maintenance	20 cm	61546
4 JBL ProScape Tool S spring curved spring scissors for mosses and lawn plants	16 cm	61547
5 JBL ProScape Tool P straight straight pincers for the decoration and insertion of plants	30 cm	61548
6 JBL ProScape Tool P slim line slender and straight pincers for the decoration and insertion of plants	30 cm	61549
7 JBL ProScape Tool P curved angled pincers for the aquarium decoration	30 cm	61550
8 JBL ProScape Tool SP straight Double trowel for aquarium design	30 cm	61551



JBL ProScape Plantis

12 plant pegs to securely anchor plants in the gravel

- Unbreakable plastic.
- Anchors all plants to the substrate without damaging growth, until roots have taken firm hold.

Art. no. 61368



JBL ProScape Soils



Ideal substrates for the professional care of plants and shrimps.

Proscapers often use special substrates (soils), which have been especially adapted to their requirements. Unlike „normal“ substrates (sand, gravel), soils are not water-neutral, but have a softening effect. They make the water softer and aci-

dify the aquarium just enough to slide the pH value slightly into the acidic range. The JBL plant soils are rich in nutrients and supply the plants with both nutrients and minerals, whereas the shrimp soils are free of nutrients.



JBL ProScape PlantSoil BEIGE

Brown substrate (soil) with nutrients for plant aquariums

- With its softening effect the substrate is ideal for the care and cultivation of most aquatic plants.
- No pre-washing necessary.

Content: 3 l Art. no. 67073

Content: 9 l Art. no. 67074



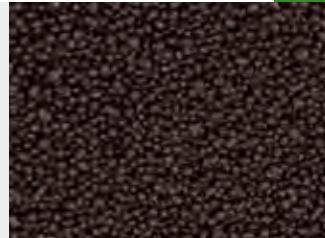
JBL ProScape PlantSoil BROWN

Brown substrate (soil) with nutrients for plant aquariums

- With its softening effect the substrate is ideal for the care and cultivation of most aquatic plants.
- No pre-washing necessary.

Content: 3 l Art. no. 67080

Content: 9 l Art. no. 67081



JBL ProScape ShrimpSoil BEIGE

Substrate (beige) for shrimp aquariums

- Creates optimal water values for shrimp aquariums.
- With its softening effect the substrate is ideal for the keeping of shrimps.

Content: 3 l Art. no. 67075

Content: 9 l Art. no. 67076



JBL ProScape ShrimpSoil BROWN

Substrate (brown) for shrimp aquariums

- Creates optimal water values for shrimp aquariums.
- With its softening effect the substrate is ideal for the keeping of shrimps.

Content: 3 l Art. no. 67084

Content: 9 l Art. no. 67085



JBL ProScape Volcano Mineral

Highly porous volcanic rock

- Ideally suited as the basis for every natural aquarium.
- The porous volcanic rock ensures the water circulation at the bottom.
- Promotes the settlement of microorganisms. With its open-pored structure JBL ProScape Volcano ensures an optimal oxygen supply to the bottom.
- Rich in valuable minerals and trace elements.

Content: 3 l Art. no. 67077

Content: 9 l Art. no. 67078



JBL ProScape Elements

Fertilisers and trace elements

As soon as an aquarist becomes a proscape, the stock of his aquarium changes. His proscape aquarium no longer contains many fish and invertebrates (if any) and this

effects the nutrient supply to the plants. Nitrogen, phosphorus and other minerals become rare and have to be actively replenished.



JBL ProScape Fe +Microelements

Basic fertiliser with iron, potassium, magnesium and the complete trace elements required by the plants

- Contains a complete maintenance set for all aquatic plants without nitrogen and phosphorus, (where they have to be added separately). Especially developed for heavily planted aquascaping aquariums. Potassium is already included, but it can also be additionally dosed, as many plant species have high potassium consumption (JBL ProScape K Macroelements).

Content: 250 ml Art. no. 21111

Content: 500 ml Art. no. 21112



JBL ProScape NPK Macroelements

Nitrogen- phosphate- potassium plant fertiliser

- For all aquariums with low fish population, such as nano aquariums and aquascaping aquariums.
- Contains nitrogen (as nitrate), phosphorus (as phosphate) and potassium as well as magnesium for a targeted increase of these values.

Content: 250 ml Art. no. 21114

Content: 500 ml Art. no. 21115



JBL ProScape N Macroelements

Nitrogen fertiliser for aquatic plants

- For the fertilising of plants in aquariums with few or no fish population, such as nano aquariums and aquascaping aquariums.
- Contains additional potassium, calcium and magnesium.
- The dosage can be checked with the JBL nitrate test.

Content: 250 ml Art. no. 21117



JBL ProScape P Macroelements

Phosphate fertiliser for aquatic plants

- For the fertilising of plants in aquariums with low or no fish population, such as nano aquariums and aquascaping aquariums.
- The dosage can be checked with the JBL phosphate test.
- Contains additional plant-available potassium.

Content: 250 ml Art. no. 21118



JBL ProScape K Macroelements

Pure potassium fertiliser for aquatic plants

- For the fertilising of plants in aquariums with few or no fish population, such as nano aquariums and aquascaping aquariums.
- Recommended level: 10 – 20 mg/l.
- The dosage can be checked with the JBL calcium test.

Content: 250 ml Art. no. 21120



JBL ProScape Mg Macroelements

Magnesium fertiliser for aquatic plants

- Magnesium is important for the development of the green leaf pigment of the plants.
- Standard dosage in aquariums with CO₂ fertilisation and a lot of light: 5 ml/100 l.
- Recommended level: 5 – 10 mg/l.
- The dosage can be checked with the JBL magnesium test for freshwater.

Content: 250 ml Art. no. 21122



JBL ProScape Volcano Powder

Trace elements & minerals for substrates in plant aquariums

- Primary rock powder (volcanic soil material) with very high natural content of minerals and trace elements.
- Depot effect: enriched with macro nutrients for a long and optimal growth of the aquatic plants.
- Ideal as supplement for JBL ProScape Volcano Mineral, JBL Manado or other substrates.

Content: 250 g Art. no. 67088

JBL Test-Sets

The most important water parameters for plant aquariums with new, highly sensitive test sets

Proscapers always know exactly what's going on in their aquarium. For this they need a complete water analysis! These tests enable every proscaper to analyse the most

important water parameters in their tank, to measure the exact dosage of the individual fertiliser components, and so on.



JBL K Potassium Test Set

Test to identify the plant nutrient, potassium

- Potassium is an essential plant nutrient that is quickly exhausted.
Lack of potassium leads to stagnating plant growth and perforated leaves.
- Measuring range: 2.0 to 15 mg/l.
- Recommended levels: 5 – 10 mg/l.
- For approx. 25 measurements.

Content for 25 tests Art. no. 25411

Reagent Art. no. 25412



JBL Mg Magnesium Test Set Freshwater

Test for the determination of the plant nutrient magnesium

- Indicates 0 to 10 as well as > 10 mg/l exactly
(recommended value: 5-10 mg/l).
- Very accurate test with 3 reagents.
- The comparator system takes the existing intrinsic colour of the water into account.
- With 2 glass tubes, syringe for the accurate measurement of 5 ml, reagents and laminated colour cards.

Content for 60 tests Art. no. 25414

Reagent Art. no. 25415



JBL CO₂ Direct Test Set

Quick test immediately determines the CO₂ content of the water

- CO₂ (carbon dioxide) is the main nutrient for the aquatic plants. Contains 2 reagents with colour comparison field.
- Easy test to perform, where the droplet number is counted until the colour stays stable.
- Determines the exact CO₂ content, even if the pH value is reduced by adding acid.

Test Set Art. no. 25416

Reagent Art. no. 25417



JBL Testlab ProScape

Professional test laboratory for the water analysis of planted aquaria

- 9 different tests for a comprehensive water analysis: pH 6.0-7.6; CO₂ direct; iron Fe; magnesium (Mg) freshwater, potassium (K), phosphate (PO₄), nitrate (NO₃), silicate, (SiO₂) and KH.
- Waterproof plastic case with glass tubes, 2 syringes, dosage spoons, thermometer, ballpoint pen and result sheets.
- The comparative system takes the intrinsic colour of the water into account and enables a more precise colour comparison.

Testlab Art. no. 25511



JBL Pro Temp b

The new undergravel heating cables for optimal care and cultivation of aquarium plants

Proscapers use the heat circulation of an undergravel heating for plant growth! The heat of the undergravel heating cable causes the heated water to rise and be replaced with a subsequent cold water flow.

This leads to a water circulation inside the substrate. Thus the plant roots are rinsed in nutrients and the plant growth is better than ever before.



JBL ProTemp b10

Undergravel heating cable for 60 - 80 cm aquariums

- Safety is assured due to the 12V low-voltage technology.
- Includes electric high-quality transformer and 20 suction cups for attaching the cable.
- Heating element 3.6 m in length (heated cable) + 2 x 1.8 m PTC thermistor (unheated cable).

Performance 10 W Art. no. 60415



JBL ProTemp b20

Undergravel heating cable for 80 - 100 cm aquariums

- Safety is assured due to the 12V low-voltage technology.
- Includes electric high-quality transformer and 30 suction cups for attaching the cable.
- Heating element 4.9 m in length (heated cable) + 2 x 2.0 m PTC thermistor (unheated cable).

Performance 20 W Art. no. 60416



JBL ProTemp b40

Undergravel heating cable for 100 - 150 cm aquariums

- Safety is assured due to the 12V low-voltage technology.
- Includes electric high-quality transformer and 30 suction cups for attaching the cable.
- Heating element 7 m in length (heated cable) + 2 x 2.2 m PTC thermistor (unheated cable).

Performance 40 W Art.-Nr. 60417



JBL ProTemp b60

Undergravel heating cable for aquariums > 150 cm

- Safety is assured due to the 12V low-voltage technology.
- Includes electric high-quality transformer and 30 suction cups for attaching the cable.
- Heating element 9 m in length (heated cable) + 2 x 2.5 m PTC thermistor (unheated cable).

Performance 60 W Art no. 60418



JBL ProFlora u201

Easy CO₂ fertilisation system with 95 g disposable cartridge for 10 - 200 l

- New mini CO₂ fertilisation system with modern styling.
- Complete system with: 95 g CO₂ one-way cartridge and elegant stand, 2 m hose with clever anti-kink protection, mini pressure regulator, modern mini CO₂ ceramic diffusor, bubble counter with integrated non-return valve and CO₂ permanent test.
- Pressure regulator with pre-set working pressure and a manometer which displays the remaining pressure of the bottle.

JBL ProFlora u201

Easy CO₂ fertilisation system with 95 g disposable cartridge for 10 - 200 l

Art. no. 63029





JBL ProFlora u95

CO₂ disposable cartridge with 95 g CO₂

- Pressurised bottle with 95 g CO₂ (carbon dioxide).
- Suitable for instance for JBL ProFlora u201 fertilizer system.
- 17.5 cm in height, 4 cm diameter.
- Maximal safety since it is tested at 275 bar.
- The screw thread does NOT fit normal one-way pressure regulators (JBL ProFlora u001).

Art. no. 63050



JBL ProFlora u95 (3x)

3 x CO₂ cartridge refills at 95 g

- Three cartridge refills with 95 g carbon dioxide (CO₂) each for the JBL ProFlora u201 fertilizer system.
- 17.5 cm in height, 4 cm diameter.
- Maximal safety since it is tested at 275 bar.
- The screw thread does NOT fit normal one-way pressure regulators (JBL ProFlora u001).

Art. no. 63051



JBL CristalProfi m

THE internal filter for small aquariums



JBL CristalProfi m

Flat internal filter for small aquariums

- Only 13 cm long with a depth of 13 to 65 mm, at a height of 18 cm.
- Includes a pump (200 l/h) and a wide jet water return pipe.
- Large suction surface with a sponge top prevents small fish and shrimps from being sucked in.
- With fastening clip for thermometer (included).
- Expandable with a further filter module (+12 cm height).

Art. no. 60960



JBL CristalProfi m Modul

Filter module for expansion of the JBL CristalProfi m internal filter

- 12 cm high. Same shape as the CP m internal filter.
- Simply clip from outside into the extension module of the JBL CristalProfi m.
- Cover panel for sponges and the drain valve can be lifted out for cleaning so that no dirty water flows back into the aquarium.

Art. no. 60966

JBL CristalProfi m FilterPad

Spare sponge for the JBL CristalProfi m internal filter

- Pore width of the black foam: 35 ppm.
- Simply press into the JBL CristalProfi m internal filter from the outside.
- Reusable, washable.
- Fine enough to prevent small fish and shrimps from being sucked in.
- Inert and aquarium safe materials.

Art. no. 60967

JBL CristalProfi m Modul FilterPad

Spare sponge for the JBL CristalProfi m module

- Pore width of the black foam: 35 ppm.
- Simply press into the JBL CristalProfi m module from the outside.
- Reusable, washable.
- Fine enough to prevent small fish and shrimps from being sucked in.
- Inert and aquarium safe materials.

Art. no. 60968

JBL CristalProfi e401 greenline

Energy-saving external filter for aquariums
with 40-120 litres (40-80 cm)



JBL CristalProfi e401 greenline

- Only 4 W energy consumption means enormous energy savings.
- 450 l/h pump performance and an extremely quiet run.
- 4.6 l filter volume for a high biological filter performance and little cleaning requirements.
- 4 years guarantee. Dimensions: 180 x 210 x 284 mm.
- Ready for connection incl. 12/16 hoses, tubes, suction cage, brackets plus suction holders and filter pulp.

Art. no. 60200

Filter material

Crystal clear water from the beginning



JBL Carbomec activ

High performance active carbon for the freshwater aquarium

- Special pre-treatment for use in fresh water up to a pH of 7.5. pH-neutral and neutral conductivity.
- No phosphates encouraging algae growth are released into the water. Filters out discolourations and residues of medications fast.
- Ready for immediate use with a net bag and clip.

Content 400 g Range 200 l Art. no. 62345



JBL SymecMicro

Microfibre filter floss prevents any water cloudiness

- Filters finest types of clouding from water.
- Filters floating algae from water.
- Filters out all particles larger than 1/1000 mm (like diatom filters), such as swarm spores of the white spot disease. Non-polluting, suitable for freshwater and saltwater.

Size 25 x 75 cm Art. no 62387

Water conditioner and bacteria starter



JBL Biopol

Water conditioner

- Conditions tap water quickly to convert it into biotope aquarium water.
- Noticeably protects the mucous membranes, gills, skin and fins.
- For every water change and all new tanks.
- Neutralizes toxic heavy metals (e.g. copper) and chlorine.
- Vitamin B complex has been proven to reduce stress in fish.
- Aloe vera plant extract protects the mucous membranes of the fish.

Content 100 ml

Range 400 l

Art. no. 23001

Content 250 ml

Range 1000 l

Art. no. 23002

Content 500 ml

Range 2000 l

Art. no. 23003



JBL Denitrol

Bacteria starter

- Biological nitrite removal. Detoxifies water with a fast starting formula using highly active cleansing bacteria and enzymes. For the prevention of fish loss. 8 complementary bacterial cultures for the breakdown of proteins (heterotrophic bacteria), ammonium and nitrite. The first fish can be added to the newly established aquarium 48 hours after the application of JBL Denitrol.

Content 100 ml

Range 3000 l

Art. no. 23061

Content 250 ml

Range 7500 l

Art. no. 23062



JBL Filterstart

Bacteria starter for all filters

- Concentrate of 15 million bacteria which break down pollutants, in particular proteins, ammonium/ ammonia and nitrite.
- Specially recommended after bactericidal medications such as JBL Ektol fluid and after any addition of salt!
- Activates all filters up to 3 litres in volume.

Content 10 ml

Range 3 l

Art. no. 25182



JBL Aquadur

Minerals to stabilise the pH

- Species-appropriate increase in KH and balancing of pH (incl. measuring spoon).
- Helps prevent mineral deficiency in fish (hole-in-head disease) and plants.
- Adds minerals to every soft water (soft tap water, source water and osmosis water) the same as they are found in the habitat of the tank inhabitants.
- Increases approx. 3000 l by 1 °KH and 1.6 °GH.

Content 250 g

Range 3000 l

Art. no. 24902

JBL Osmose 120

Reverse osmosis unit with fine filter and carbon filter

JBL Osmose 120

- Produces soft water.
- Ready to connect with 3/4 tap connector.
- Membrane preserved using new dry method ensuring laboratory quality osmosis water.
- High capacity of max. 136 liters (36 US gal.) in 24 hours at 24° C.
60 - 100 liter (16 - 26 US gal.)/24 hours in average operating conditions.
- Precision flow regulator.

Art. no. 64102



Cleaning



JBL Clean A

Glass cleaner

- Cleans the outer side of all aquarium glass panes naturally.
- Non-hazardous for fish and plants.
- Dissolves stubborn lime-scale.
- With pump spray head.

Content 250 ml Art. no. 61385



JBL Power Clean

Cleaner for CO₂ diffuser and aquarium decoration

- 500 ml concentrate for 1000 ml cleaning solution. For thorough cleaning of CO₂ reactors, decorations and ornaments, heaters, etc.
- For complete removal of algae films and brush algae on technical equipment or decorations and ornaments.
- Not suitable for use on plants and other living organisms.

Content 500 ml Art. no. 63530

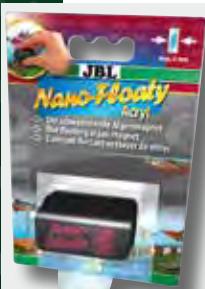


JBL Floaty Acryl

Floating glass cleaning magnet specially for acrylic panes

- Enables perfect cleaning of acrylic and glass panes.
- No need to "fish around" in the aquarium any more if the inner part detaches from the magnet on the outside of the glass.
- Extremely light material with a strong magnetic field.
- The inner part can swim.
- The original! European Patent No. 1139729 (also for plastic panes!)

Art. no. 61370



JBL Nano-Floaty

Floating algae magnet for nano aquariums

- Cleans aquarium panes easily and thoroughly.
- If the inner part accidentally detaches, it will not fall into the gravel, but floats to the surface where it can be simply "caught" using the external magnet.
- Also suitable for plastic panes (acrylic).
- Optically unobtrusive thanks to small size.

Art. no. 61419

Accessories

JBL Fish handling cup

- Specially designed cup for catching fish.
Can be placed in the unit in 2 positions.
- With a convenient handle.
- Made of (almost) unbreakable, transparent plastic.

Art. no. 95425



JBL Haru

Universal adhesive

- Bonds anything to anything (except PP and PE plastics).
- For optimal adhesion under water, does not require emptying of the tank.
For leaky aquariums, fixing of decorative materials, securing stones from falling over, fastening of corals on stones, fastening of different materials to one another (e.g., wood on glass) etc.
- Black polymer-based adhesive and sealant (odour-free and non-toxic)
which is permanently elastic and can even harden under water.

Content 80 ml Art. no. 61396



JBL Hang on Aquarium Thermometer

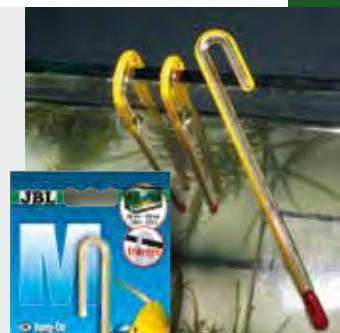
Precision thermometer for hanging

- Elegant, bent glass body enables hanging over the aquarium glass.
- Precision capillary made in Germany.
- Available in three variations: 11.5 cm length for glass strength of 6 mm, 16.5 cm length for a glass strength of 10 mm and 16.5 cm length for a glass strength of 15 mm.
- Temperature range: 0.0 to 40 °C.

For glass 6 mm Art. no. 61211

For glass 10 mm Art. no. 61212

For glass 15 mm Art. no. 61213



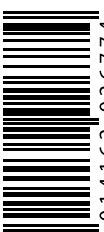
Ahead
through research



You can obtain more information on
aquarium keeping on the JBL homepage
at www.jbl.de or directly from your
specialist shop.



UK Art. no. 9623310 V00



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