

# Biotope terrariums for reptiles and amphibians



- Setup according to nature
- For terrestrial and aquatic animals



Keeping reptiles and amphibians is something special. The appearance and behavior of the animals are fascinating. A terrarium allows creating a desert landscape, an abundant rainforest or a terrapin biotope close to nature.

Watching the animals will soon distract you from daily routine. Some of the animals overcome their natural timidity towards humans, others display their exciting behavioral repertoire also when kept in a terrarium, e.g. hunting or breeding behavior.

No matter which animal you decide upon – be it a small Lawson’s Dragon or color changing chameleons – a reptile or an amphibian will enrich your life.

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It is impressive that reptiles already inhabited the Earth 300 million years ago. And they were the undisputed rulers of the Earth for a period of more than 200 million years, long before we humans appeared.

This guide gives you a first overview about the different keeping conditions and the most popular reptile species. A selection of specialized literature about the specific animal groups and species is available from the specialized trade.



# sera Biotope terrariums

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Reptiles, amphibians and arthropods are usually very well adapted to their natural living environments. It is important to fulfill these requirements in the best possible way as to make sure the animals feel well when kept in the terrarium. Responsible care provided, the animals will stay healthy and enjoy their keeper with their full behavioral repertoire.

The most common terrarium biotopes and some suitable inhabitants are presented in the following. This will give you a small overview about the wonderful world of terrarium care.

## Terrariums for terrestrial reptiles

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### Desert terrarium

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The special characteristics of a desert mainly include enormous dryness, along with strong temperature variations during the day and night rhythm. You should ideally use pure sand or, in case of digging reptiles, a mixture of sand and clay as a substrate.

Lighting consists of a daylight lamp such as the **sera reptil daylight compact**, and an additional lamp providing plenty of UV-A and UV-B, such as the **sera reptil desert compact** 10%. By doing so, you will cover the intense light requirements of desert inhab-

itants. The animals will stay permanently healthy and display their entire natural behavior.

Install a heating cable (**sera reptil heat cable**) or a heating mat (**sera reptil thermo comfort mat**) underneath the substrate as to simulate the diurnal warming of the substrate. If required, they may remain switched on also at night. You can, for instance, use a halogen spotlight lamp (**sera reptil sun spot**) for creating local heat spots. The average temperature in desert terrariums is



30°C (86°F), and it can be up to 45 – 55°C (113 – 131°F) underneath a heat spot lamp. The temperature should be lowered to 15 – 20°C (59 – 68°F) at night.

Rock and root constructions allow creating caves and sunny places. Make sure the animals cannot dig underneath them. Possibly connect the constructions with silicone as to prevent the animals getting trapped. Slightly spray the bottom ground in the morning. This simulates dew forming. However, the moisture should dry off relatively quickly. Even desert animals always need a small drinking bowl. Agaves or cactuses without dangerous spines are suitable for planting. Alternatively, you can also use artificial plants.



## Brief facts: Desert inhabitants



### LAWSON'S DRAGON (*POGONA HENRYLAWSONI*)

Due to their size and their interesting appearance, Lawson's Dragons are very popular terrarium animals. Their individual personality and their rather calm behavior make them interesting also for beginners.

Body length	up to 30 cm (12 in.)
Origin	Australia
Temperature	25 – 32°C (77 – 90°F) during daytime [locally up to 55°C (131°F)], 15°C (59°F) at night
Air humidity	30 – 40%
Nutrition	insects and plants, <b>sera reptimineral C</b> , <b>sera reptil Professional Herbivor &amp; Carnivor</b>





### EASTERN COLLARED LIZARD (*CROTAPHYTUS COLLARIS*)

Very agile, diurnal lizards that can run on their hind legs and jump very well. They hibernate for 6 – 10 weeks at a temperature between 10 and 15°C (50 and 59°F), beginning in the end of November.

Body length	up to 35 cm (14 in.)
Origin	southern USA, northeastern Mexico
Temperature	25 – 30°C (77 – 86°F) during daytime [locally up to 45°C (113°F)], 20°C (68°F) at night
Air humidity	40 – 60%
Nutrition	insects, occasionally fruit and lettuce, <b>sera reptimineral C &amp; H</b>



### LEOPARD GECKO (*EUBLEPHARIS MACULARIUS*)

These popular nocturnal eye-lash geckos are inhabitants of dry to semi-dry savanna landscapes. According to their origin, they should rest at lower temperatures [12 – 15°C (54 – 59°F)] during the winter. The terrarium must provide both climbing possibilities as well as caves.

Head and body length	11 – 15 cm (4.3 – 6 in.)
Origin	northern India, Pakistan, Afghanistan, Iran, Iraq
Temperature	25 – 30°C (77 – 86°F) during daytime [locally up to 40°C (104°F)], 20°C (68°F) at night
Air humidity	40 – 60%
Nutrition	crickets, locusts, cockroaches, <b>sera reptimineral C</b>

## Rainforest terrarium

Temperatures are often almost constant [approx. 24 – 26°C (75 – 79°F)] with high air humidity (80%) in tropical rainforests. Rainforest inhabiting animals are usually climbing, tree dwelling species. This should be considered when setting up the terrarium. Suitable bottom materials are mold resistant and free of supporting additives and fertiliz-

ers. Terrarium humus such as **sera reptil coco soil**, which can be stored in a space saving way due to its briquette shape. When adding water, this bottom ground increases its volume enormously.



### ! sera Tip

It is advisable to build in a drainage as to avoid excess water makes the bottom ground become marshy. Cover the bottom with a thin **sera siporax** layer to do so, cover it with **sera filter wool** and then put the bottom ground on top.



Preferably install heating mats in rainforest terrariums on the back wall as to prevent the bottom ground from becoming dry. This is no problem when using the self-adhesive heating mats **sera reptil thermo comfort mat S** and **M**. Moisture proof wood pieces that look decorative are the most important decoration elements. Almost all non-toxic indoor plants offered in the trade are suited for planting, e.g. orchids, bromelias, tillandsias, tropical ferns, moss as well as the various Ficus species. Make sure you get unfertilized plants. In case of unclear origin, shower the plants several times and possibly water them thoroughly before planting them into the terrarium.



**!** **sera Tip**

Animals with adhesive lamellae require smooth surface for climbing. Bamboo tubes are ideal for decoration in this case.

## Brief facts: Rainforest inhabitants



**GREEN AND BLACK POISON DART FROG (*DENDROBATES AURATUS*)**

Poison Dart Frog with fascinating color patterns. The poison, however, is produced only by animals that live in the wild. Bred animals kept in terrariums therefore have no traceable poison level.

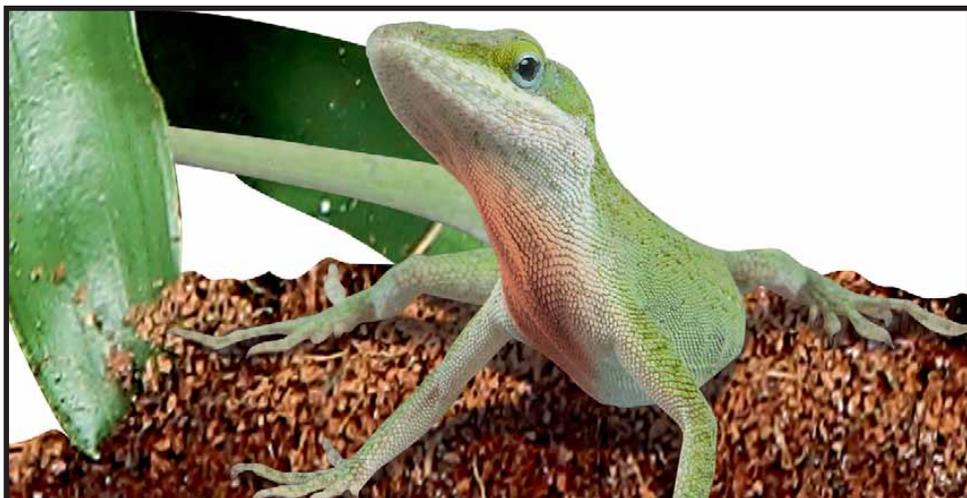
Body length	2.5 – 5 cm (1 – 2 in.)
Origin	Nicaragua, Costa Rica, Panama, Colombia, Tobago
Temperature	24 – 28°C (75 – 82°F) during daytime, 23°C (73°F) at night
Air humidity	80 – 100%
Nutrition	fruit flies, small crickets, collembolans, tropical isopods, growth food: <b>sera micron</b>



**PEACOCK DAY GECKO (*PHELSUMA QUADRIOCELLATA QUADRIOCELLATA*)**

This gecko species has a very beautiful color pattern. They originate from a region with plenty of rain, which must be considered when keeping them. Beginning in November, 2 – 3 cool months [max. 23°C (73°F)] should be simulated.

Body length	12 – 13 cm (4.7 – 5.1 in.)
Origin	eastern Madagascar
Temperature	28 – 30°C (82 – 86°F) during daytime [locally 35°C (95°F)], 20°C (68°F) at night
Air humidity	75 – 100% by spraying daily
Nutrition	small insects (crickets, houseflies), fruit pulp, <b>sera reptimineral C</b>



### CAROLINA ANOLE (*ANOLIS CAROLINENSIS CAROLINENSIS*)

A small, popular bush or tree dwelling diurnal iguana species with adhesive lamellae on their feet. Depending on their mood, these agile animals can change their color. They are ideally kept in pairs, since they are very territorial. They hibernate at 18°C (64°F) for 4 – 6 weeks during the winter.

Body length	up to 20 cm (8 in.)
Origin	southeastern USA, Bahamas
Temperature	24 –27°C (75 – 81°F) during daytime [locally up to 34°C (93°F)], 22°C (72°F) at night
Air humidity	80%
Nutrition	insects, <b>sera reptimineral C</b>





**PANTHER CHAMELEON (*FURCIFER PARDALIS*)**

This colorful chameleon belongs to the species that are somewhat easier to keep. Chameleons, however, are generally not very easy pets. In spite of the opinion that chameleons could change their color for camouflage, the color change is actually triggered by the mood of the animal (fear, stress, hunger, temperature, disease, mating).

Body length	males 55 cm (22 in.), females 35 cm (14 in.)
Origin	Madagascar and neighbor islands
Temperature	22 – 28°C (72 – 82°F) during daytime [locally up to 35°C (95°F)], 16 – 22°C (61 – 72°F) at night
Air humidity	70 – 100%
Nutrition	insects

**! sera Tip**

*Trap for food animals*  
It can occasionally happen that live food escapes. Escaped food animals can quickly be caught again with the **sera snail collect** trap and a bit of food.



# sera Aquaterrariums

The aquaterrarium is for keeping reptiles and amphibians that both live in water and – at least temporarily – on the land. Depending on the species kept, a terrarium may be suitable for making an aquaterrarium if you separate a part of the terrarium as a swimming zone (e.g. for frogs or newts); or you can use a special aquaterrarium such as the **sera reptil aqua biotop** (e.g. for terrapins).

Ideally, both land and water sections are heated and have approximately the same temperature as to prevent colds. A heater thermostat for aquariums is particularly well suited for heating the water. It is installed under water, and you can adjust the desired temperature. When keeping terrapins, make sure the glass tube of the heater is protected so it cannot be destroyed by the animals. The **sera aquarium heater thermostats** with safety protector ensure highest safety. There are special radiant heaters for warming up the land part, e.g. the **sera reptil thermo ceramic** radiant heater (page 26).



Lighting depends on the kind of terrarium. The **sera reptil LED energy light** is universally suitable. It is already included in the **sera reptil aqua biotop kit** (page 22). Additionally or according to the requirements of the species kept, you can also use the **sera reptil daylight compact lamp** (page 24). Terrapins also prefer a heat spot [approx. 40°C (104°F)], e.g. the halogen spot lamp **sera reptil sun spot** (page 26).

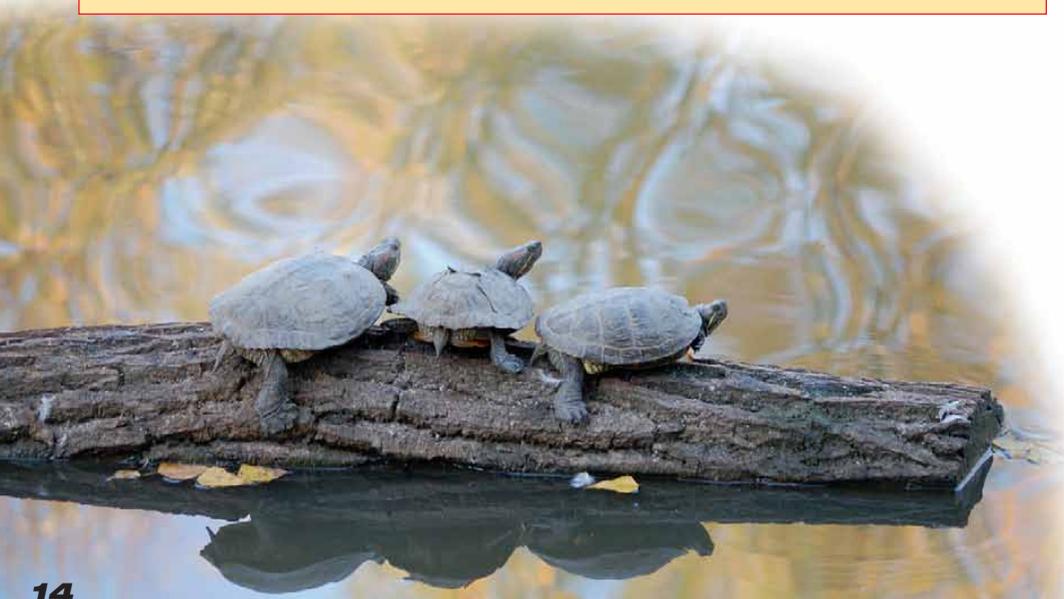
It is recommended to filter the water. An internal filter such as the **sera fil 120** is suitable in case of small animals. In case of larger species such as terrapins, you should install an external filter such as the **sera fil bioactive 250 + UV**. The additionally contained UV technology prevents diseases and algae.



### ! Tip for conditioning water

Reptiles and amphibians may react very sensitive to water pollution by chemical remainders. Tap water should therefore never be filled directly into an aquaterrarium. Condition the water before doing so. **sera reptil**

**aquatran** was specially developed for this purpose. Toxic heavy metals are bound. The water gets a natural tint, which supports natural behavior and also makes keeping sensitive species easier.



## Brief facts: Aquaterrarium inhabitants

Basically, all sufficiently small terrapin species are suited for keeping in an aquaterrarium. However, this may have to be very large, depending on the terrapin species. We

will now present you two terrapin species that remain rather small, and which are easy to keep.



### COMMON MUSK TURTLE (*STERNOTHERUS ODORATUS*)

Anyone looking for something special will certainly like the archaic looking Common Musk Turtle. Due to their intraspecific aggression they are very well suited for keeping them as singles. This species can also be kept in a pond during summer. The animals should be allowed to hibernate.

Body length  
Origin

8 – 14 cm ( 3.1 – 5.5 in.)  
southeast of the USA up to southeastern Canada

Water temperature  
Nutrition

seasonally 10 – 27°C (50 – 81°F)  
Gammarus, small fish, snails, mosquito larvae, **sera reptimineral C, sera raffy P & I, sera reptil Professional Herbivor & Carnivor, sera raffy Baby-Gran**





© Psychotic Nature - Fotolia.com

**FALSE MAP TURTLE**  
**(GRAPTEMYS PSEUDOGEOGRAPHICA PSEUDOGEOGRAPHICA)**

These very beautifully patterned animals are among the most frequently kept terrapins. They require plenty of swimming space and only a small land spot. According to their origin, the water temperatures and the lighting duration should resemble seasonal variations.

Body length	females 20 – 25 cm (8 – 10 in.), males 15 cm (6 in.)
Origin	southern USA
Water temperature	seasonally 12 – 27°C (54 – 81°F) [up to 40°C (104°F) on the land]
Nutrition	omnivorous (Daphnia, small fish, mussel meat), vegetables, fruit, <b>sera reptimineral C, sera raffy P, sera raffy Baby-Gran</b>



**CHINESE FIRE BELLY NEWT (CYNOPS ORIENTALIS)**

These newts mainly live in the water, i.e. the water zone should be bigger than the land zone. The upper side of the animals is not very striking. However, they will display their full beauty when watching them from underneath.

Body length	5 – 12 cm (2 – 4.7 in.)
Origin	eastern China
Temperature	20 – 22°C (68 – 72°F) during summer [12 – 14°C (54 – 57°F) during winter]
Nutrition	earthworms, insects, slugs, <b>sera FD Bloodworms, sera FD Daphnia</b>



## sera Tip

Natural removal of odors:

The special micro organisms included in **sera reptibioclear** break down organic matter such as food, and thus prevent the formation of unpleasant odors in a natural way. The water is demonstrably less polluted.



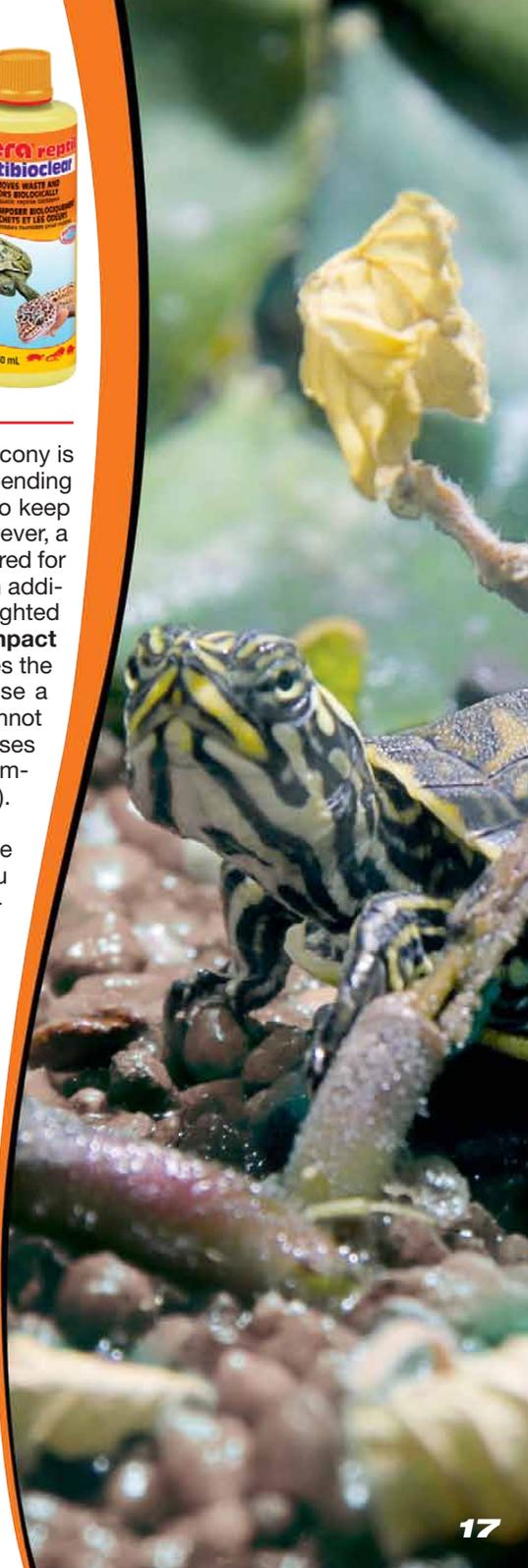
## Outdoor keeping

Outdoor keeping in the garden or on a large balcony is in particular suitable for European tortoises. Depending on the size and equipment it may be possible to keep these turtles outdoors throughout the year. However, a protecting shelter such as a hotbed is then required for the transitional periods in spring and autumn. In addition to being heated, the shelter must also be lighted sufficiently, e.g. with the **sera reptil desert compact** with 10% UV-B radiation. This lamp also ensures the necessary synthesis of vitamin D<sub>3</sub>. You can use a halogen spot lamp as a local heat spot. If you cannot set up a sufficiently sized shelter, put the tortoises into an accordingly designed terrarium when temperatures become lower (see Tortoise terrarium).

Be sure to design the outdoor enclosure escape proof. Tortoises can climb surprisingly well, you should consider this for the height of the enclosure. Protect the enclosure against predators such as martens, foxes or cats.

## Tortoise terrarium

European tortoises should preferably be kept outdoors. However, keeping them in a terrarium is advisable for keeping juveniles, ill or weakened animals as well as for the time between hibernation and outdoor keeping. In accordance with their natural habitats, the animals are kept relatively warm [approx. 25°C (77°F)] and dry during summer, and cool [approx. 5°C (41°F)] and moist during winter. Coco peat, possibly blended with sand, is a suitable bottom material.



Besides the daylight lighting, a UV-B lamp such as the **sera reptil desert compact** and a halogen spot lamp [approx. 40°C (104°F)] are used. A water bowl that also allows occasional bathing is also required. Tortoise terrariums must not be heated with a heating cable nor a heating mat from underneath as this would desiccate the shell, which may lead to shell deformations. It is recommended to attach a heating mat, such as the **sera reptil thermo comfort mat**, to the back wall.



## Brief facts: Tortoises



### EURASIAN TORTOISE (*TESTUDO GRAECA IBERA*)

Eurasian Tortoises are among the most popular tortoises. Due to their origin they must hibernate as to ensure keeping them according to their requirements.

Body length	25 – 35 cm (10 – 14 in.)
Origin	Balkans
Temperature	20 – 26°C (68 – 79°F) during daytime [locally up to 40°C (104°F)], 16 – 20°C (61 – 68°F) at night
Nutrition	herbal (e.g. dandelion, plantain, lettuce), <b>sera reptimineral H</b> , <b>sera raffy Vital</b> , <b>sera reptil Professional Herbivor</b>



**MARGINATED TORTOISE (*TESTUDO MARGINATA*)**

Marginated Tortoises are among the largest and scarcest European tortoises. Due to their size, they are less suited for terrarium care but preferably for outdoor keeping throughout the year.

- Body length 25 – 35 cm (10 – 14 in.)
- Origin southern Albania up to the southern Peloponnese
- Temperature 22 – 26°C (72 – 79°F) during daytime [locally up to 40°C (104°F)], 16 – 20°C (61 – 68°F) at night
- Nutrition herbal (e.g. dandelion, plantain, lettuce), **sera reptimineral H**, **sera raffy Vital**, **sera reptil Professional Herbivor**



# Optimal terrarium equipment

A terrarium should provide smooth surfaces so it can be cleaned easily. It should be well aerated as to prevent stagnant air, however you must avoid direct drafts. Choose a bottom area as large as possible for bottom dwelling reptiles, and a terrarium as high as possible for climbing species. Reptiles that mainly live in the water need an aquaterrarium.

## Terrariums for terrestrial reptiles

The generous construction of the **sera reptil terra biotop 60** allows you to keep bottom dwelling and also climbing amphibians, reptiles and arthropods. The doors can be opened entirely and removed if necessary. The terrarium cover can also be taken off. This allows installing the technical devices in the terrarium without any problems – and, even more important, the terrarium can be cleaned hygienically and easily. The doors are locked with a locking mechanism that can be opened easily from the outside, and which makes escaping impossible even for snakes. The combination lock included by **sera** provides additional safety.



Many functional details considering the requirements of reptiles were developed during the construction of the **sera reptil terra biotop 60**:

- ① Black polycarbonate plastic frame for stability and edge protection
- ② 4 mm glass thickness
- ③ Double wing door on the front side, can be opened separately and together. Special safety lock for escape prevention. The doors are bordered with a profile shape for closing smoothly and tightly
- ④ Combination lock
- ⑤ Protection against fogging due to an aeration bar in every door

- ⑥ Removable and easy-to-clean covers from fine mesh wire gauze for generous ventilation and good light transparency. Animals cannot get injured at the radiation source installed on or above the cover
- ⑦ Separately lockable cable ducts in the cover allow for easy installation of equipment
- ⑧ Extra high edge in the bottom region. Filling height up to 10 cm (4 in.). Can be set up as an aquaterrarium or be filled with a high bottom ground layer, also ideal for digging species
- ⑨ Elevated bottom for trouble-free installation of a bottom heater underneath the terrarium



The **sera reptil terra biotop 60** includes the following free bonus items:

- **sera reptil coco soil** terrarium humus
- **sera reptil thermometer/hygrometer**
- combination lock

Recommended accessories:

- **sera** terrarium light hood (page 24) with 2 lamp fixtures and LED nocturnal light
- **sera** lamps
- **sera** heating mats (page 25) for installation underneath the terrarium, or
- **sera** heating cable (page 25) for installation inside the terrarium



## Aquaterrariums for reptiles that mainly live in the water



The **sera reptil aqua biotop** is ideally suited for keeping small terrapins, crabs, crayfish, etc. The large water part requires entirely different technical equipment than terrariums for land dwelling animals. With its unique and extensive equipment, the **sera reptil aqua biotop** is immediately ready for use, and the filter included with the kit can be biologically activated immediately:

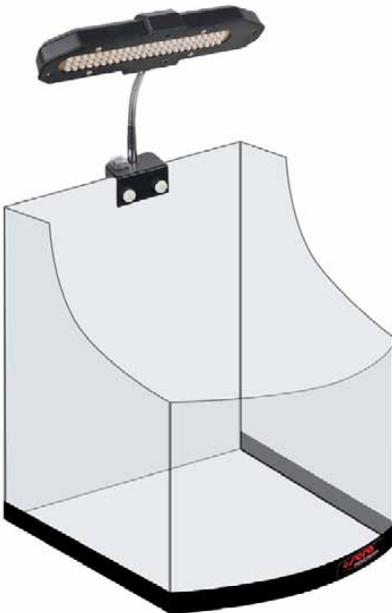
**Plug-in complete equipment, immediately ready to start:**

### sera reptil aqua biotop

- Modern design with bow front
- High quality workmanship
- Polished glass
- Suitable for high water level
- High back side for designing an escape-proof land zone

### sera reptil LED energy light

- 72 bright, extra long life LEDs
- Daylight and moonlight can be switched separately
- Moonlight for observing the animals in the dark
- Flexible goose neck for easy adjustment of the lamp head
- Extremely energy saving (8 W consumption)
- Safe low voltage technology due to upstream transformer



### sera fil 120 internal aquarium filter

for clear, biologically healthy aquarium water

- Low in maintenance, highly efficient
  - Extensive accessory range
  - Mechanical and biological filtration
  - Separate filter chambers can be added modularly
- ① filter cartridge with **sera siporax mini** for biological filtration
  - ② filter cartridge with **sera super carbon** (active filter carbon)
  - ③ end cartridge with filter sponge for mechanical filtration



### sera aquarium heater thermostat 100 W

- With shock resistant quartz glass
- Precisely working safety switch
- Safety protector for optimal safety, especially in case of terrapins

### sera filter biostart, 50 ml

Biocultures for the immediate biological pollutant breakdown within the filter

### sera raffi P, 100 ml

Floating food sticks made of natural food animals and plants



## The correct light



Light is required by reptiles not only because of the day and night rhythm, but it also regulates metabolism, activity and digestion. Besides suitable daylight, well-being and natural behavior of most reptiles depend on correct UV-A and UV-B radiation. Energy saving full spectrum daylight lamps such as the **sera reptil daylight compact UV-B 2%** are especially suitable for this purpose. They can easily simulate the diurnal rhythm when controlled by a timer. Depending on their origin, the animals may additionally require a light source with a higher UV-B amount required for the natural vitamin synthesis, e.g. the **sera reptil**



**rainforest compact UV-B 5%** and the **sera reptil desert compact UV-B 10%**. These **sera** lamps are extremely energy saving and long lived. Furthermore, they ensure excellent natural color representation.

### sera Tip

Normal glass filters the important UV radiation of the lamps. It is therefore necessary to install the lamps within the terrarium or on the terrarium – in the latter case, however, only separated from the inside terrarium by fine mesh gauze. Depending on the kind of terrarium, the animals must be protected from the light sources by a fine mesh wire grid, as is the case with the hood of the **sera reptil terra biotop 60**.

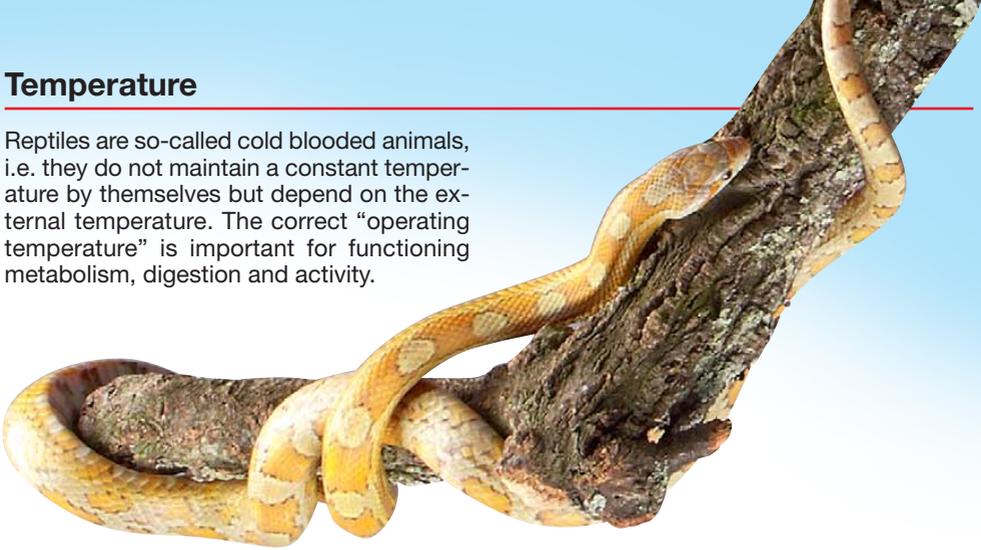
The **sera reptil terra top** is an ideal lamp. It can be equipped with 2 different lamps. Furthermore, the included moonlight LEDs allow ob-

serving the animals at night. The **sera reptil terra top** is simply put on top of the terrarium hood. The energy saving **sera reptil LED energy light** with 72 bright, extra long lived LEDs is particularly well suited for aquaterrariums. Daylight and moonlight can be switched separately (page 22).



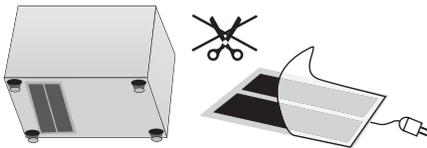
# Temperature

Reptiles are so-called cold blooded animals, i.e. they do not maintain a constant temperature by themselves but depend on the external temperature. The correct “operating temperature” is important for functioning metabolism, digestion and activity.



The temperature depends on the original habitat of the animals you keep. Above all, heating mats such as the **sera reptil thermo comfort mat** are suited for increasing the temperature. They are installed underneath the terrarium bottom or on the side walls, just as required.

Due to their variable laying options, heating cables such as the **sera reptil heat cable** allow creating a natural temperature gradient in the bottom ground. Heating cables are also ideal for warming up decoration elements such as caves, branches or flat stones. Please note that, at the maximum, 30% of the bottom area should be warmed up with a heater, as to provide the animals with cooler places to retreat as a protection against overheating.





You can imitate the natural heat radiation of the sun from above without light emission by means of, for instance, a ceramic radiant heater such as the **sera reptil thermo ceramic**. Halogen spot lamps are suitable for local sunspots in the terrarium such as the **sera reptil sun spot**. It is advisable to monitor the temperature permanently, ideally with a thermometer installed in the terrarium (e.g. **sera reptil thermometer/hygrometer**). Radiant heaters, in particular, must be installed in or on top of the terrarium in a way that the animals cannot get burnt by them. Due to their fine mesh wire grid, the **sera reptil alu reflectors** provide excellent protection against burns. These **sera** reflectors can be used in many different ways, e.g. as a clip or pendant lamp, or they are simply put on top of the terrarium hood. The spot lamps can also be controlled by simple timers.



## Air humidity

Tropical reptiles, in particular, require high air humidity. Too dry air may cause serious diseases of the respiratory tract or to skin shedding problems in some species. You can increase air humidity by regularly spraying the terrarium with a spray bottle and generous water surfaces. Air humidity control is achieved with hygrometers (e.g. **sera reptil thermometer/hygrometer**). For avoiding mold formation, terrariums always must be well aerated without exposing the animals to direct drafts. This was taken into account when designing the **sera reptil terra biotop 60**.



## Decoration

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Above all, the decoration should meet the requirements of the animals. It is very important to consider whether the animals are mainly bottom dwelling or rather climb. Bottom dwelling species prefer to use flat rock constructions or cork tubes for retreating or for sunbathing. Climbing species require branches or a structured back wall. The decoration must not have any sharp edges as to prevent the animals from getting injured. When choosing the plants you must, in particular, be sure that the plant is not toxic for the animals and has not been fertilized.

Also, you need to be careful with point and sharp edged plants, such as cactuses and the like.



## Bottom ground

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Depending on the kind of terrarium, there is a large variety of different bottom substrates. Sand and gravel are recommended for dry terrariums. Mold-free substrates such as **sera reptil coco soil** are especially advisable for moist terrariums. It consists of

pathogen and fungi free, pressed coconut shell fibers, a re-growing plantation resource. **sera reptil coco soil** optimally stores water and thus increases air humidity inside the terrarium. Unfertilized topsoil is also suitable.



## Terrarium location

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Place the terrarium in a location where it is protected against drafts. Also, you should not expose the animals to stress caused by people or other pets that permanently walk by. A quiet corner in which the terrarium cannot be watched from all sides, is best for

the animals to have their peace and quiet. It should be possible to conduct daily maintenance (removal of waste, feeding) without any problems.

# Feed reptiles according to nature

## Best food for reptiles

**sera reptil Professional Herbivor** and **sera reptil Professional Carnivor** are novel co-extruded reptile foods. This innovation allowed the **sera** research department to combine differently treated nutrients in one product.

After separate production, the nutrients are put together as a loop and a core by co-extrusion without mixing up.

The food loop contains the optimized ratio of energy and protein.

The food core is manufactured in a particularly gentle low temperature process. Among others, it contains vitamins and minerals.



**sera reptil Professional Herbivor** is a staple diet according to nature suitable for herbivorous reptiles such as tortoises and iguanas.

**Food loop:** Supply with high quality protein and fats as well as a special blend rich in ballast substances, consisting of more than 20 selected herbs.

**Food core:** Supply with essential vitamins and mineral substances in a balanced ratio plus algae for supporting disease resistance. An optimal calcium/phosphorus ratio ensures healthy bone and shell growth.

**sera reptil Professional Carnivor** is a staple diet according to nature suitable for carnivorous reptiles such as terrapins.

**Food loop:** Supply with high quality protein and fats.

**Food core:** Supply with essential vitamins and mineral substances in a balanced ratio plus algae for supporting disease resistance. An optimal calcium/phosphorus ratio ensures healthy bone and shell growth.

## Food for all terrapins and lizards



**sera raffy P** consists of natural food animals and herbal ingredients. Floating food sticks for daily feeding.



**sera raffy I** Gammarus mix contains Gammarus, anchovies and shrimps – also a treat for tortoises. Ideal for feeding alternately with **sera raffy P** and **sera raffy Mineral**.

## Tidbits for terrapins



**sera raffy Royal** consists only of natural small fish, the most important food source for terrapins in nature.

## Rearing food for terrapins and other reptiles



**sera raffy Baby-Gran** is a balanced rearing food for quickly growing juvenile animals. The optimal nutrient and mineral levels ensure healthy growth and prevent deficiencies.

## Food rich in minerals for turtles



**sera raffy Mineral** contains essential minerals, vitamins and trace elements for a healthy development. The floating food sticks are suited for terrapins and tortoises.

## Plant food for tortoises and herbivorous reptiles



Consisting of herb pellets and food tablets that are excellently accepted by all herbivorous reptiles, **sera raffy Vital** is a tasty blend rich in ballast substances.

## Fresh food improvement



**sera reptifiber**, a fiber concentrate for all herbivorous reptiles, improves fresh food such as lettuce with high quality natural fibers and calcium. The fiber components from **sera reptifiber** activate the intestinal flora, ensure ideal nutrient supply and healthy digestion. This prevents deficiencies and diseases, and it considerably increases the appetite.

## Vitamin supply for turtles and other reptiles



**sera reptilin** is a liquid food additive that provides terrarium animals with an additional vitamin supply.

## Minerals and vitamins for carnivorous reptiles



**sera reptimineral C** is a food additive for preventing nutritionally caused deficiencies in carnivorous reptiles and for improving fresh food. Being rich in essential minerals, trace elements, vitamins and amino acids, it perfectly matches the requirements of carnivorous reptiles – for healthy growth, trouble-free skin shedding and natural behavior.

## Minerals and vitamins for herbivorous reptiles



**sera reptimineral H** is a food additive for preventing nutritionally caused deficiencies in herbivorous reptiles and for improving fresh food. Being rich in essential minerals, trace elements, vitamins and amino acids, it perfectly matches the requirements of herbivorous reptiles – for healthy growth, trouble-free skin shedding and natural behavior.



## Water gel powder for arthropods and small reptiles



**sera reptil terra aqua** is a natural powder for creating a water gel for small terrarium animals. The natural gel forming agent originates by 100% from marine algae. The gel can be enriched with vitamins (**sera reptilin**) and minerals (**sera reptimineral**).



## Healthy terrarium water



**sera reptil aquatan** with the **Bio Protect Formula** immediately conditions tap water to healthy terrarium water for reptiles and amphibians. Amphibians such as frogs and newts, in particular, can take up harmful substances through their skin. **sera reptil aquatan** removes aggressive chlorine and chloramines. Heavy metals are lastingly bound. Valuable humic substances prevent skin and carapace problems. The brownish water tint reduces stress and supports natural behavior.

## Biological breakdown of organic waste



**sera reptibioclear** contains micro organisms that help to remove organic waste and food remainders. Odor formation is prevented in a natural way, and maintenance efforts are reduced.





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**sera** GmbH • D 52518 Heinsberg • Germany



For natural terrariums

[www.sera.de](http://www.sera.de) • [info@sera.de](mailto:info@sera.de)