

USER INFORMATION



WATER FEATURES MADE OF METAL

MAINTENANCE AND CARE

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gartenmetall®
GARTENOBJEKTE & STADTMÖBEL AUS METALL

METAL WATER FEATURES MAINTENANCE AND CARE

SAFETY INSTRUCTIONS

Thank you very much for choosing a Gartenmetall® product. To ensure a long service life and continued enjoyment of our outdoor metal water features, it is essential that all items are installed, maintained and looked after correctly. Please therefore follow all the safety and care instructions on the following pages.

- Before putting the well into operation, check that all parts are correctly assembled, connected and leak-free.
- Do not let children play near the fountain unsupervised! To prevent them from becoming submerged, we recommend fitting a grating, which can be removed once there are no longer any small children around. (Item no. 22 15 22)
- Electrical appliances (230 V) must only be connected by a qualified electrician. Exception: LED lights and other appliances operating at 24 V or less may also be connected by non-qualified persons.
- Ensure that the electrical connections have been properly protected by a certified residual current device (RCD). Under no circumstances should you put the well into operation (or plug the pump etc. into the 230 V socket) unless you have personally verified, and where necessary in writing, that it has been installed correctly.
- Water combined with a 230 V electrical supply is dangerous. There are therefore important regulations and safety instructions governing the installation of the pump. Please read through the comprehensive safety instructions supplied in the pump's specific documentation before commissioning and ensure that all regulations have been complied with. If the accompanying documents and the detailed operating instructions for the pump are missing, we will be happy to send them to you again by post or email. You can also download the information directly from our website or that of the pump manufacturer.
- If you have any doubts as to whether the fountain has been installed correctly or whether the safety instructions have been followed, do not put the fountain into operation for your own safety!
- The mains plug of a pump should be at least 2 metres away from the water.

PROTECTION OF THE INTERNAL COATING

Ensure that there is always sufficient water in the water basin at all times of the year. The entire black-coated base surface must be permanently covered with at least 2 cm of water. Brief periods during which the water basin is completely emptied, for example for cleaning, are not a cause for concern. The damage to the internal coating described above may occur, particularly if the basin is left completely empty for a prolonged period.

Why is this important? When the water basin is completely empty, strong sunlight and high temperatures in summer, as well as temperature and humidity fluctuations in winter, can damage the black PU internal coating. Over time, this can lead to localised peeling and blistering.

The permanent layer of water covering the entire base surface significantly reduces the risk of such damage to the internal coating.

Please note: Localised blistering or delamination of the coating does not necessarily mean that the watertightness or functionality of the water basin is compromised. As long as the coating remains undamaged and watertight, the water basin will generally remain functional.

WINTER MAINTENANCE

Here's how to prepare the fountain for winter:

- In winter, drain at least half the water from the well. At the same time, always leave a little water in the well to protect the internal lining at the bottom.
- In the event of frost, drain the hoses completely and, if necessary, remove them from the water trough. The water pump must be removed. It must be cleaned, submerged or filled, and stored in a frost-free, cool place to prevent the seals from drying out. The plug must remain dry!
- Clean the water basin – remove all algae, silt and sand.
- Optional: Clean the visible areas of the stainless steel water trough using a kitchen Scotch-Pad and/or in combination with a standard household stainless steel cleaner.

Not a good example: a well with frozen water, which – due to the cycle of freezing and thawing – has already risen above the top of the well. Frozen water expands, generating enormous forces in the process. To protect the water tank: drain the water and hoses as much as possible in winter, at least until they are half empty.



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WATER TREATMENT

Without water treatment, the water in the well gradually becomes cloudy, depending on the ambient temperature and water quality. This is due to suspended solids in the water and the rapid growth of algae that occurs as water temperatures rise.

In the simplest case – for example, with smaller fountain systems containing only a few cubic metres of water – the water is completely changed at regular intervals and replaced with fresh water. Although this replacement cycle can be extended by adding various biological and chemical water treatment products, we generally recommend avoiding such additives, including so-called ‘pond clarifiers’, multi-chlorine tablets and pool salts.

We know from experience that chlorine products and pool salts, which are particularly well known from the swimming pool sector, are also used in garden fountains to extend the water’s service life. However, we strongly advise against the use of chlorine, chlorine-containing water treatment and cleaning products, and other chemical additives. These can have a negative impact on the service life of the pump, the inner lining and other components installed in the water feature. In particular, if used in excessive quantities, chlorine can chemically attack the black PU internal coating, causing the material to soften and thereby leading to localised peeling or blistering.

Please also bear in mind the welfare of animals. Ponds and garden fountains are often used by birds, dogs, cats and other animals as a source of drinking water. Chemical water additives can be harmful to their health. However, if you avoid using such additives and carry out regular water maintenance, the natural fountain water can be safely drunk by animals and used without hesitation for watering plants.

We therefore recommend using mechanical cleaning methods wherever possible for water maintenance, changing the water regularly and, as a general rule, avoiding the use of chemical water additives. This will protect the components of your fountain whilst also preventing potential health risks to animals.



The black Gartenmetall® plastic coating is resistant to free chlorine in well water. Depending on the dosage, the use of chlorine may cause the plastic coating to fade more quickly. The coating’s functionality remains unaffected. See page 2.



*Be careful with chemicals in well water:
Animals like to drink the water too!*

WATER TREATMENT

If suspended particles (e.g. pollen, algae or petals) accumulate in the water, they can partially or completely block the pump's intake elements or the water outlet elements. If this happens, the fountain will no longer function properly. Remove the suspended particles in good time to ensure that the water feature works properly and that the pump is not damaged.



Foam may form when you first fill the tank with fresh tap water. This is not solely due to the water's hardness; the new internal coating also needs to be 'run in' first. Alternatively, defoamers can provide a temporary solution.

If you use water with a high hardness level, limescale deposits may form, particularly in areas exposed to splashing water. Use low-hardness water, e.g. filtered rainwater or softened water. To clean limescale stains, we recommend using standard household cleaning products, such as vinegar essence or rinse aid. Take particular care with painted surfaces: always test on a small area first to check that the surface is not damaged by the cleaner used, and rinse thoroughly with plenty of neutral water after cleaning.



Limescale stains on the water trough when the water has a high hardness level. Solution: Use water with a lower limescale content, e.g. filtered rainwater or softened water. Alternatively, clean the limescale-affected areas regularly. In this case, the affected areas were cleaned with concentrated vinegar and a cloth.

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WATER TREATMENT

If the bottom of the water basin is covered with (round) gravel, it is essential that this is washed beforehand. Due to the sometimes strong local water movement, there is a risk that sand adhering to the round gravel will be sucked in by the pump and damage it. Damage to the pump caused by suspended particles in the water is not covered by the pump warranty.

The best method from a technical point of view, though also the most complex, for water purification is a 'proper' filter and water treatment system, which continuously filters the water and thus prevents algae growth and sludge build-up. Please contact a specialist firm for this.

GENERAL INFORMATION

- Check the water level: If there is significant evaporation or water loss due to strong winds, top up the water in good time to prevent the pump from running dry.
- Check the power cables for any kinks and check the pump hoses and screw connections for leaks.
- The hoses, and in particular the inlet and outlet openings, must be checked to ensure they are unobstructed. Leaves and suspended matter must be removed regularly. It is particularly important, especially for fountain systems with AQUA BOWL and AQUA GLOBE water basins, that the water flows back into the water collection vessel once the pump has been switched off. Corten steel can only form the protective barrier against rust-through if the surface is allowed to dry out completely on a regular basis. You should therefore switch off fountains where the water keeps the surface permanently damp during operation at least once a week until the rust-red Corten steel surface has dried out completely.
- Even stainless steel can rust due to foreign particles, so outdoor stainless steel surfaces also require maintenance. For routine cleaning, use a mild cleaner and follow the relevant instructions for use. To be on the safe side, particularly with larger surfaces, always test the cleaner on a small area first to check its effect.
- Corrosion marks on stainless steel surfaces, e.g. caused by rust from other materials, can be removed using Gartenmetall®'s highly effective STAINLESS STEEL LOTION. The product also brightens the surface and seals it. Note: This product is so powerful that it is not suitable for routine maintenance! (Item No. 64 00 39). For safety's sake, always test the cleaner on a small area first and rinse thoroughly with plenty of neutral water.

CLEANING THE WATER COLLECTION TANK

The water collection tanks should be cleaned every time the water is changed. To do this, drain the water completely from the tank, remove sludge and other deposits from the bottom, and clean the coated inner walls of dirt and algae using a high-pressure cleaner or by hand with a scrubbing brush, sponge or cloth. This maintenance is particularly necessary in summer when temperatures are high, to ensure that clear water flows regularly from the spring inlets and water spouts and that nothing becomes blocked.

The remaining sediment at the bottom of the water basin can be removed particularly easily with a wet vacuum cleaner. The black Gartenmetall® internal coating, with which all fountain basins are lined, is resistant to standard high-pressure washers.

Organic debris such as leaves, flowers or pollen should be removed from the water feature regularly, as these can impair water quality and encourage the growth of algae.

During prolonged periods of inactivity or outside the season of use, it is advisable to drain the water feature completely and clean it. The pump must be removed if there is a risk of frost and stored in a frost-free place.

After each cleaning, ensure that the pump, whilst submerged in the water, is completely covered by water before switching it back on. The pump must not be allowed to run dry.

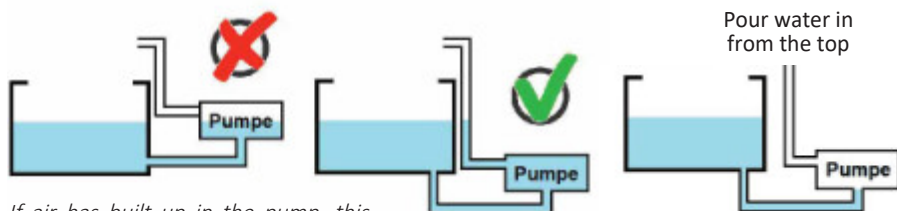
METAL WATER FEATURES

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CHECKLIST BEFORE REPLACING A PUMP

If a pump stops delivering water, there are many possible causes. Only in a few cases is the fault with the pump itself. Before replacing the pump, please check the following points:

- The most common cause is that too much limescale has built up in the pump. You can check this by looking into the pump's pressure pipe. If the impeller cannot be turned freely with your finger, there is likely to be a blockage caused by limescale deposits. Limescale deposits can be removed using, for example, vinegar-based cleaning products. Please also clean any limescale residue from the water tank and the hose lines before restarting the pump.
- All pumps supplied by GARTENMETALL® are fitted with thermal protection which triggers, for example, if the pump has run dry or become blocked. To restart the pump, it must be disconnected from the mains for a short time. Simply switching off the pump – without unplugging it – is not sufficient!
- Check that the pump is receiving the correct power supply, e.g. by using another device.
- If the pump is running but is delivering no water, or only a very small amount, it may be blocked by foreign objects (leaves, etc.).
- The same applies if – for various reasons – air has accumulated in the pump. To displace the air – in the simplest case – allow water to flow in via the pressure side of the pump.



If air has built up in the pump, this will result in reduced performance or a complete loss of performance.

If, after checking the points listed above, the pump is still not functioning correctly, please contact us so that we can arrange for the pump to be repaired or replaced. We will then provide you with a claim reference number, the returns form and information on how to proceed with the process and the return shipment. To assess the damage, we require the delivery note and/or order confirmation number. You can contact us as follows:

Email: info@gartenmetall.de
Telephone: 0 70 22 / 92 76-0

PUMP MAINTENANCE

All pumps used by Gartenmetall® are branded units and designed for durability and low maintenance. In the event of dry running or blockage, the pump's motor switches off automatically to prevent damage to the unit. Once the pump has cooled down, the plug must be unplugged. The pump should then start up again as normal and be fully operational.

To protect against frost damage, we recommend removing the pump in good time and storing it in a cool, dark but frost-free area, submerged in water. If the pump is stored dry, there is a risk that the seals will dry out. The plug should be stored in a dry place!

When operated correctly and used with clean, low-lime water, the pumps will last for many years. Should a fault nevertheless occur, unplug the pump, remove it from the tank and rinse it under clean running water. Also check the hose for any blockages or leaks.

Extend the service life of your high-quality pump: Aid the cleaning and descaling of the pump by using a suitable cleaner, e.g. 'PumpClean' from OASE (OASE item no. 43146). Use this annually or as required.

It is essential that you follow the detailed operating instructions as well as the manufacturer's and safety instructions contained in the documentation supplied with the pump.



POSITIONING OF THE SERVICE SHAFT

The service shaft should be positioned as close as possible to the water outlet of the pool. The hose connection between the pool and the pump should be as short as possible, direct and designed to minimise flow resistance. Unnecessary bends, reductions in cross-section, high points and significant differences in height should be avoided, as these can lead to additional pressure losses on the suction side.

Careful planning is particularly essential for shallow water basins with a low water depth and low water level. Long water pipes or an unfavourably positioned service shaft can impair the pump's water supply. Therefore, hose lengths, pipe cross-sections, differences in height and the overall pipe routing should be taken into account at the planning stage.

In the event of malfunctions or recurring pump failures, checks should also be carried out for air in the hose system, leaky connections, contamination, an excessively low water level and other hydraulic factors.

It is not possible to establish a direct link between the position of the service pit and a pump failure across the board. The specific installation situation must therefore always be assessed as a whole.

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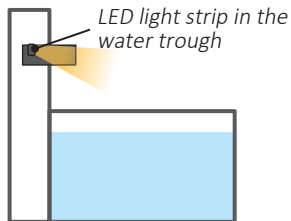
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INSTALLATION OF LED LIGHTING

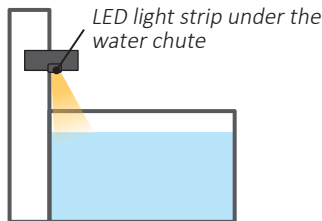
Well-designed and appropriate lighting can extend the enjoyment of your fountain into the twilight and night-time. This can also be retrofitted easily and without any hassle. Please bear in mind that the lighting also requires maintenance.

LED lighting for fountains with a water spout

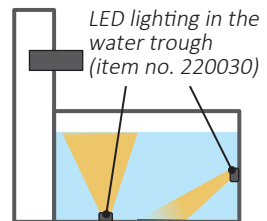
For fountains with a water spout, the LED strips are fitted inside or beneath the water spout. To replace the strip, switch off the pump, unplug it and replace the light strip in just a few simple steps (item no. 22 00 31).



Fitting the LED strip in the water trough



Fitting the LED strip beneath the water chute)*



*Installation of an LED track or LED underwater light in the water trough***

* It is advantageous to have this fitted at the factory; retrofitting is labour-intensive.

** Very easy to retrofit

LED underwater lighting

Underwater lights are recessed into the bottom of the fountain. To replace the light sources, disconnect the power cable, remove the underwater light from the basin and fit a new light source. (Item no. 22 00 30)

LED lighting for spring fountains

In spring fountains, the round LED light units are clipped onto the black water outlet. The LED light units are powered contactlessly via induction. This means they operate without any problems whilst submerged.

The silver LED light must be continuously cooled by water whilst in operation. If the pump is switched off, the LED lights will overheat within a short time and become damaged. It is therefore essential to ensure that the LED lighting is only ever switched on whilst the water is flowing!

Should a fault occur, the metal ring containing the LED light units can be easily replaced: push the fountain outlet out of the opening using the hose, then separate the ring from the black base unit. The fountain can continue to operate even without the light units.

MAINTENANCE OF LED FOUNTAIN LIGHTING

If the well water becomes increasingly contaminated, the spring well lighting may fail. The LED lighting unit for the spring well lighting operates inductively via the lower base module. This has the major advantage that all live components are enclosed in a 'waterproof' housing and the LED unit can be replaced easily and without complication should maintenance be required.

To ensure reliable and long-lasting operation, the area between the LED unit and the base module must be cleaned. The LED lighting unit can be easily removed by hand without the need for cables, as power is supplied inductively via the lower base module. This design simplifies maintenance and replacement. However, to ensure safe operation, care must be taken to ensure that no dirt particles, sand, algae, etc. are present between the light insert and the base module. The LED spring fountain lighting comprises the following individual components:

- LED lighting unit with 24 V cable, e.g. 5 m, type Quellstar 900 (item no. GE-00-24 00 80-003)
- Base module with inductive power transfer, Quellstar 900 type (item no. GE-00-24 00 80-002)
- Power supply unit, 12 watts, 230 V / 24 V with Schuko plug (item no. GE-00-22 00 32-002)



Step 1:
Grasp the LED unit in the middle and pull it upwards



Step 2:
Detach the LED unit with a twisting motion



Step 3:
Clean both surfaces thoroughly



Step 4:
Reconnect and slide it into the opening – that's it!



The appearance of the LED unit may vary, but maintenance, cleaning and technical specifications remain the same.



The Quellstar 2000 LED module does not require cleaning.

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CORTEN STEEL WATER FEATURES

To allow the corrosion-inhibiting barrier layer of the weather-resistant structural steel to form and renew itself, the surface must be allowed to dry out completely on a regular basis. Persistent damp, waterlogging or unfavourable environmental conditions can impair the protective effect. The more frequently the surface alternates between damp and dry, the more stable the barrier layer becomes. As a practical guideline, the surface should be allowed to dry out thoroughly at least once a week.

This can be achieved, for example, by switching off the pump regularly in the case of water features such as the AQUA BOWL, AQUA GLOBE, AQUA LINEA with a water wall, AQUA CUBUS, etc.



AQUA CUBUS after a year of continuous use, without the surface ever having had a chance to dry out. Solution: Fit a timer upstream of the water pump and sand down the existing surface so that the protective barrier layer can be rebuilt from scratch.

In the case of water features that could overflow, for example due to heavy rainfall or overfilling (AQUA CUBUS with a rim, AQUA LINEA water basins, etc.), care must be taken to ensure, within one week at the latest, that surfaces which are permanently wet can dry out again by lowering the water level.



A water tray with signs of rust and rusty water. Reason: The drainage holes in the water tray are blocked by dirt. This meant that the water tray could not dry out properly. Solution: Check regularly that the water drains out completely after switching off the pump and that the surface can dry out, so that the protective barrier layer can be renewed time and again.

ELEGANT WATER SUPPLY

LEOGANG water tap with tap – Fresh water right next to the water feature

The LEOGANG water tap is the ideal complement to our water features. Placed right next to the fountain, it creates a practical yet aesthetically pleasing fresh water point for the garden. Whether for cleaning, topping up water or watering neighbouring plants – LEOGANG combines functionality with a clean, high-quality design.

With its slender, vertical shape, the water tap blends discreetly into modern garden settings and harmoniously echoes the materials used in our water features. The result is a cohesive overall look, in which even the practical water connection is thoughtfully and elegantly integrated into the design.

LEOGANG is particularly well-suited as a complementary element alongside fountains, basins, spring stones or water features, creating a convenient water supply point exactly where it is needed in everyday life.

(Item No. 21 XX 46-850-120-120)



METAL WATER FEATURES

ADD-ONS FOR YOUR WATER FEATURE

ADDITIONAL PRODUCTS



With the FANO power socket columns, you can combine practicality with elegance in your garden. Both the finishes and the design complement your Gartenmetall® water features.
(Item No. 42 XX 20-0600-140-70)



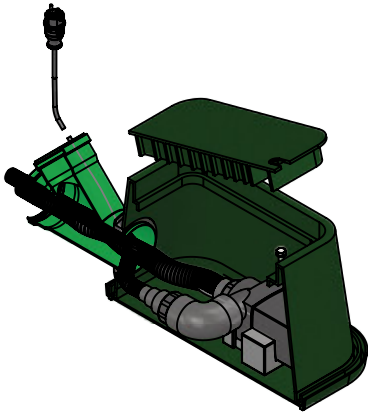
Splash and noise reduction SILENCIO ANTI SPLASH

For installation in the water trough beneath ISAR, LECH, AQUA BLOCK, ROFAN or GERLOS water spouts to reduce water splashes and splashing noises.
(Item No. 22 19 21-0300-XXXX)



Pump cover for water pump
Cubic cover designed to conceal the water pump, which is visible inside the water trough. The surface of the cover is the same as the internal coating in the water trough.
(Item No. 22 00 22-250-150-150)

ADDITIONAL PRODUCTS



Dry pump shaft for housing the external water pump. Supplied as a ready-to-assemble kit: with a bore for a DN110 KG pipe, including a KG pipe with a 45° single branch, 2x DN110 socket plugs and a rubber sleeve. (Item No. 22 00 82-00)



LED underwater light for the water trough
For easy installation in the water trough, submerged in water. Warm white LED light, 12 V, including cable and transformer with 230 V connection, 3 black spotlights and a Schuko plug. Spotlight protection class: IP68 (waterproof).



*You can find more accessories and spare parts in our shop at:
<https://shop.gartenmetall.de/wasser-zubehoer/>*



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