

3QUELLEN[®] WATER ACTIVATOR



DENK *aqua*

3Quellen Water activator

The *3Quellen water activator* allows you to activate tap water quickly, easily and cost-effectively.

It's very simple to use:

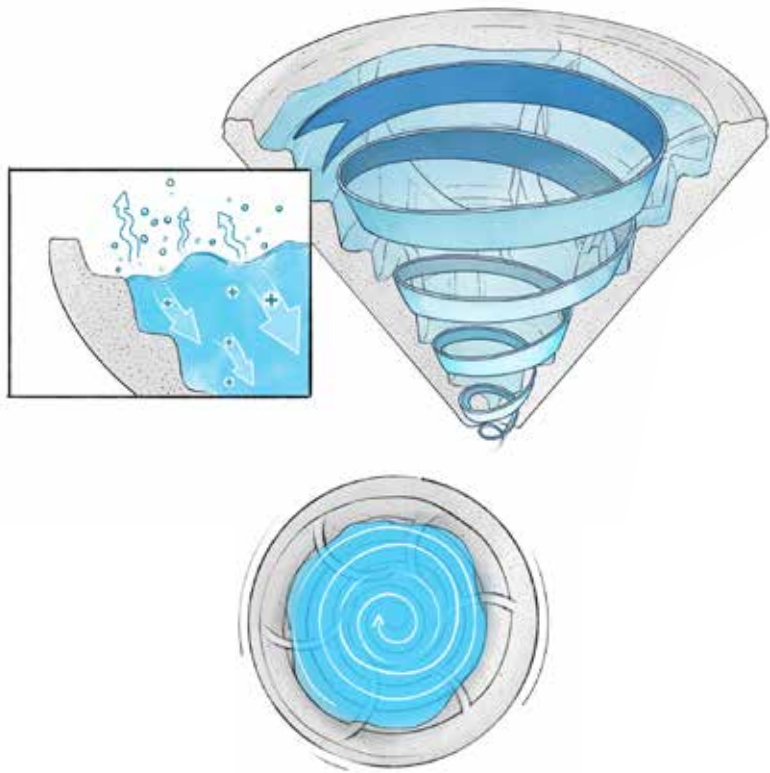
place the *water activator* on a glass carafe, pour in tap water, let it run through, and enjoy the activated water.

A fabric sleeve to protect against scratches is included.

Carbonation of activated water

If you wish, you can also carbonate the activated tap water (add CO₂). The activation remains intact.





Mode of action

The *water activator* is made from our unique CeraActiv® ceramic. This special ceramic is food-grade certified and consists of selected quartz, feldspar and other insoluble minerals. The interior surface is left rough to maximise the active surface area.

The funnel shape, combined with the helical channel, sets the water in motion in a defined rotational pattern. As it approaches the outlet, the water spins faster and faster, becoming activated.

The internal guide vanes ensure that the water flows out in a clockwise direction. This effect is independent of the direction from which the water is poured. Clockwise-flowing water is regarded as particularly valuable in anthroposophical science, amongst other fields.

When water comes into contact with the CeraActiv® ceramic and due to the controlled turbulence, any gases dissolved in the water (e.g. chlorine) may be released. This affects the taste and palatability. As a result, tap water tastes more natural and smoother, similar to fresh spring water.



Decanting wine

It's not just tap water that benefits from the *water activator*. You can also decant your wine to perfection, opening up a whole new world of flavours.

We particularly recommend using this with younger, full-bodied red and white wines.

Place the *water activator* on a wine carafe and pour the wine in evenly but quickly.

Contact with the CeraActiv® ceramic allows unpleasant odours, such as those caused by sulphur, to escape. Thanks to the controlled swirling, the wine has optimal contact with oxygen; it 'breathes'.

The wine develops its natural flavour and full aroma very quickly. You can enjoy it straight away; there is no need to decant it.



Cleaning

If necessary, the ceramic parts can be cleaned using a natural vinegar-based cleaner or washing-up liquid. The fabric spout can be hand-washed using washing-up liquid.

Patented technology

Our stationary water activation devices have been used successfully for almost 20 years in flats, houses and businesses / the catering industry. Our 3Quellen Technology is based on targeted water turbulence, a ceramic micro-surface and physical charge alteration. We hold a total of three patents for this technology.

Technical / Physical Background

The *water activator* is a passively operated water flow device designed to provide reproducible flow-induced activation and, where necessary, degassing of tap water.

The *water activator* allows tap water to be physically influenced in a targeted manner through a defined flow path.

Due to the special surface of the silicate-based CeraActiv® ceramic, material-induced interactions may occur. This effect may contribute to the release of any gases dissolved in the water.

The starting point for the development was the question of how well-known principles of fluid mechanics, gas solubility in liquids and interfacial physics could be applied to a compact, user-independent system.

The focus was on developing an internal geometry that uses gravity alone to generate a reproducible, directed rotational flow, which increases the water's residence time and at the same time maximises the effective contact area between the water and the ceramic.

The scientific challenge here was the targeted coupling of pressure changes along a funnel-shaped flow channel, locally defined shear forces on textured surfaces, and controlled flow separation to release dissolved gases.

The helical channel structure, combined with curved guide vanes, was developed through an iterative process to ensure a fluid-dynamically stable direction of rotation, regardless of the direction of feed and variations in flow rate.

At the same time, the outlet geometry was designed to ensure a consistent ratio of flow velocity to contact time.

A patent application has been filed for the *water activator*.

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Materials

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nature with respect

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Manufacturing quality
from Coburg

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