



Reference case

'I saw the bound chlorine levels halve within a single weekend'

Swimming pool De Kuilart in Koudum was looking for a cost-efficient way to bring down their bound chlorine levels. With a low-pressure UV system of Van Remmen UV technology they had immediate results: less bound chlorine, lower costs and more comfort for staff.

De Kuilart

Swimming pool De Kuilart is a true swimming paradise at the Frisian lakes. The brand-new pool (2022) has three slides, an extensive toddler pool and a competition pool, making it a popular destination for tourists and residents. In the summer months the swimming pool attracts 1200 visitors per day. A cheerful and bustling whole. But with many people in a pool, it is also a place where bound chlorine is created. 'We knew that with the arrival of the Dutch Environmental Act the bound chlorine may not exceed 0,6 mg/L. With our brand-new water treatment installation things were already going much better, but on busy days it was difficult to stay below that standard', says owner Wouter Bleckman.

High costs, high consumption

Bleckman waited a year before purchasing an UV system to find out whether the chlorine levels could also be reduced to less than 0,6 mg/l using only filters. The result was that large quantities of water and chemicals were needed to keep the pool in good condition. '25 cubic metres per backwash, several times per week. That water is heated from tap water temperature to swimming pool water and provided with sulphuric acid and chlorine to keep the water safe. Altogether, that costs thousands of euros. At the same time, it results in more emissions and a less pleasant air quality. During busy periods, for example, our staff often complained about stinging eyes.'

Choice for UV system

Just before the 2023 high season, De Kuilart installed the Si system of Van Remmen UV Technology, a low-pressure UV system with high efficiency. 'It was immediately a bull's eye. The bound chlorine values dropped within in one weekend from around 0,6 mg/l to between 0,2 and 0,4 mg/l and have actually not risen again. Not even during the busiest days. As a result, we no longer need to backwash daily, but once a week. That saves us around 5000 euros in water costs in a single high season, not counting the savings on chemicals and energy. In the low season we can even switch off the system at night, which saves us about 30% of the lamp operating hours. That also saves energy and maintenance costs. In this way we will probably have earned back the system within two years. That are welcome investments.'

Future-proof solution

With the UV system, De Kuilart has a solution that allows it to continuously comply with the new standards in the field of water and air quality. And perhaps just as important: more comfort for visitors and staff. 'Since we have had the UV system, the air quality has improved so much that our staff in the pool no longer have any complaints. I find that very important. The purchase has therefore been a success on all fronts. I am really very happy with that thing.'

Facts

Contractor

Swimming pool De Kuilart

Location

Koudum, The Netherlands

Purpose

Reducing the bound chlorine levels

Solution

The Si-series