

# Kills germs and costs.

The new Dulcodes LP UV system

**ProMinent®**





Benefit from a new kind of UV system with **highly efficient reactor.**

**Maximise the efficiency of your UV disinfection operation. With its new Dulcodes LP, ProMinent offers you an innovative UV disinfection system with low-pressure lamps that sets completely new standards in terms of effectiveness and economic efficiency.**

Ultra-longlife Vario-Flux High-Output lamps, dynamic lamp heating with fast dimming, as well as an optimised hydrodynamic reactor are just some of the many highlights of the new Dulcodes LP. The pioneering UV system is extremely flexible and perfect for a wide range of applications – from drinking water treatment, through food and beverage application, all the way up to swimming pool water treatment.

## Six good reasons for the new Dulcodes LP

### ✓ Innovative technology

The new Dulcodes LP combines an optimised hydrodynamic reactor design with a patented world first – innovative Vario-Flux High-Output lamps that excel through their high UVC output as well as reliable dimming thanks to dynamic lamp heating. This results in reliable disinfection with higher energy efficiency and lower lifecycle costs.

### ✓ What you need is what you get

As much radiation as necessary, as little as possible: The functional principle of the new Dulcodes LP is captivatingly simple. Thanks to the latest electronic lamp drive technology, the Vario-Flux High-Output lamps can be precisely dimmed to as low as 50% of their nominal power. The Dulcodes LP therefore automatically adapts to varying operating conditions, reliably preventing over- or underdosage. This increases the efficiency of the system when operated with varying flow rates or below its maximum capacity.

### ✓ Homogeneous UV-dose

The key with UV disinfection is applying the right dose. Thanks to the use of CFD simulations, the reactor of the new Dulcodes LP has an optimised design for efficient hydrodynamic. The even UV-dose guarantees maximum flow with minimal loss of pressure. At the same time, it makes it possible to reduce the lamp count to a minimum, which saves costs.

### ✓ Fast temperature management

Stable dimming of low-pressure UV lamps can be compromised by fluctuating water temperatures. The new Dulcodes LP is therefore the world's first UV system to employ dynamic lamp heating. The Vario-Flux High-Output lamps compensate for varying water temperatures, for example caused by seasonal variations, within just a few seconds. This ensures that the system is always working reliably in the optimum operating range. As a positive side effect, the UVC output increases when operated in dimmed mode.

### ✓ Robust design

The new Dulcodes LP is designed for maximum reliability. In particular, the soft start function, coupled with the optimum adaptation of the lamp performance to the operating conditions, reduces lamp wear to a minimum. Precise control technology and a long-term stable UVC sensor also ensure reliable operation in the long term.

### ✓ Excellent economic efficiency

The new Dulcodes LP is a genuine economic miracle. Up to 30% lower energy consumption thanks to variable lamp output, a long lamp life time and a low-maintenance design, as well as reduction in the lamp count make the new UV system from ProMinent the first choice for UV disinfection, particularly from cost aspects.

## There's something in it for you: innovative technology for maximum efficiency.

### Designed for maximum reliability

In particular, the soft start function, coupled with the optimum adaptation of the lamp performance to the operating conditions, reduces lamp wear to a minimum. Reliability increases. Operating and maintenance costs are reduced, as the lamps do not need to be replaced as often.

### Dimmable Vario-Flux High-Output lamps

The patented Vario-Flux High-Output lamps are automatically dimmed down to as low as 50% of their nominal power. This saves up to 30% energy, while maintaining the desired UV disinfection performance.



### Dynamic lamp heating

The lamps are always stable and operate precisely in the optimum operating range, also in dimmed mode and when used with fluctuating water temperature.

### CFD-optimised hydrodynamic

Diffusers developed in CFD simulations allow efficient flow distribution: the even UV-dose guarantees maximum flow at minimum lamp count with lowest pressure loss.

### Intelligent comfort control

The ultra-modern, intuitive comfort control makes it easier to set operating parameters, while also offering comprehensive monitoring and reporting functions.

## Offering the optimum solution requires: broad expertise, knowledge and experience.

UV light or chlorine dioxide, ozone or electrolysis: ProMinent is one of the very few providers that develops solutions for all disinfection processes. We can therefore offer you genuinely system-independent advice or – for even better efficiency and security – combine multiple disinfection technologies from a single source.

### Ready for you. Anytime, anywhere.

Speak to our experts – and you will see that ProMinent can offer you unparalleled innovations, solution orientation, globality and reliability.

- More information about disinfection technologies at [www.prominent.com/en/water](http://www.prominent.com/en/water)
- Contact details of our local branches and representative offices at [www.prominent.com/en/locations](http://www.prominent.com/en/locations)



## Contact Worldwide

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### Ready for you. Anytime, anywhere.

ProMinent is at home in more than 100 countries. This secures global availability of our products and ensures that we are never far away from our customers. Wherever in the world you are located, our products and services meet the same high quality standard locally for you. Our experience and expertise in water treatment and metering technology are available across the globe.

You can find contact details of our local branches and representative offices at [www.prominent.com/en/locations](http://www.prominent.com/en/locations)

You can download the ProMinent app for iPad and iPhone on the iTunes App Store or at [www.prominent.com/app](http://www.prominent.com/app)

