

# UV system DULCODES MP-ELD

Perfect UV disinfection and effective reduction of combined chlorine in pool water

ProMinent®



**The UV system DULCODES MP-ELD eliminates combined chlorine and therefore the odour typically associated with swimming pools. Say goodbye to irritated eyes, nose and skin. Apart from improving the water quality, the low investment costs and high fresh water and energy consumption savings result in short payback times.**

DULCODES MP-ELD is a UV system with high-performance medium-pressure lamps that now include an Electronic Lamp Drive. The power of the lamps can be automatically and precisely modulated to varying operating conditions. Energy is saved and the life of the lamps is extended.

## Features & benefits

- Maximum energy savings gained from modulating the lamp power to changing chloramine values or flows using electronic lamp drives
- Improved process reliability. Real-time monitoring, individual alarms/e-mail alerts and automated reports ensure reliable operation
- Simple installation, thanks to the compact inline system, ensures minimal installation work and fast retrofitting
- Maximum flexibility thanks to the free choice of mounting position and direct installation in plastic pipes as no UV radiation escapes from the reactor
- The 7" capacitive touch panel provides intuitive operation with process visualisation
- Unbeatably simple and quick maintenance: all maintenance work can be carried out quickly and conveniently from one side



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## Technical details

- System control and monitoring from any location using fieldbuses, such as Modbus IP, OPC-UA IP, BACnet IP or VNC connection, for complete access
- Additional energy savings thanks to EcoMode function. Timer for flexibly reducing the lamp power
- Automatic wiper system for the efficient removal of scaling on the lamp protection tube.
- Temperature sensor for monitoring the water temperature in the reactor
- Compliance with DIN 19643 and recommended for use in swimming pools
- Optimised use of energy thanks to large reactor and uniform irradiation of the entire water flow due to optimised system hydraulics
- Reactor made of high-grade stainless steel 1.4404/AISI316L
- Viewing window for easy visual inspection of lamp operation
- Long-term stable UV sensor for monitoring the lamp output, scaling on the lamp protection tube and fluctuating in water quality
- Expected lamp service life of 10,000 hours
- Control cabinet made of coated steel

Type	Max. flow rate	Lamp power	Connected load	Radiation chamber length	Free space needed for maintenance	Empty weight/ Operating weight	Connector width
	m <sup>3</sup> /h	W	kW	mm	mm	kg	DIN
1x1MP-ELD	58*	1000	1.10	700	400	31/47	DN 100
1x2MP-ELD	101*	2000	2.10	700	500	38/65	DN 150
1x3MP-ELD	195*	3000	3.20	800	600	52/118	DN 200
2x2MP-ELD	260*	4000	4.20	900	1000	78/166	DN 200
2x3MP-ELD	391*	6000	6.20	900	1000	78/166	DN 250
3x3MP-ELD	586*	9000	9.20	900	1000	78/166	DN 300

\* 96%/cm transmission; 600 J/m<sup>2</sup> irradiation intensity for the breakdown of combined chlorine

**Note:** 1x0.65MP available without ELD and without wiper

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