

UV system DULCODES MP

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



ProMinent®

The UV system DULCODES MP 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 is a UV system with high-performance medium-pressure lamps. A wide range of optional features allows the system to be easily adapted to your specific requirements. Alongside the conventional ballast technology, the Dulcodes MP is now also available with 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 Eco!Mode function. Timer for flexibly reducing the lamp power
- Manual or 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
- Guaranteed (pro rata) lamp service life of 8000 hours
- Control cabinet made of coated steel

Type	Max. flow rate	Lamp power	Connected load	Radiation chamber length	Free space needed for main- tenance	Empty weight/ Operating weight	Connector width
	m³/h	W	kW	mm	mm	kg	DIN / ANSI
1x0.65 MP	20.0*/30**	650	0.75	500	335	21/31	DN 65/80
1x1 MP	56*/83**	1.000	1.10	700	400	31/47	DN 100/125/4"
1x2 MP	95*/149*	2.000	2.10	700	500	38/65	DN 125/150/6"
1x3 MP	180*/290**	3.000	3.20	800	600	52/118	DN 200/250/8"
2x2 MP	241*/395**	4.000	4.20	900	1000	78/166	DN 200/250/8"
2x3 MP	361*/539**	6.000	6.20	900	1000	78/166	DN 250/10"
3x3 MP	541*/809**	9.000	9.20	900	1000	78/166	DN 250/300/12"

* 95%/cm transmission; 600 J/m² irradiation intensity for the breakdown of combined chlorine

** 98%/cm transmission; 400 J/m² irradiation dose for disinfection applications