

DULCODES MP ELD

Ultraviolet Disinfection System

Technical Data Sheet

ProMinent®



SMART, ENERGY-EFFICIENT UV DISINFECTION

The DULCODES MP UV system is designed to provide advanced, energy-efficient water disinfection across a range of applications. It uses medium-pressure ultraviolet (UV) technology to inactivate microorganisms and reduce harmful compounds such as combined chlorine.

Engineered for high performance and simplicity, the system automatically adjusts UV intensity based on real-time conditions like water clarity, flow, and chloramine levels. This ensures consistent disinfection, lower energy use, and extended lamp life.

The DULCODES MP's robust stainless-steel reactor, automatic wiper system, and intuitive 7-inch touchscreen interface make it easy to operate and maintain. With integrated connectivity options — including Modbus IP, OPC-UA, and BACnet IP — it supports seamless integration into process and facility control systems.

APPLICATIONS

Eliminates pathogens, bacteria and viruses, reduces chemical use, improves water quality and eliminates chloramines that cause odors in the following industries with water of a t UVT > 90%/cm:

- Recreational & Pool Applications
- Aquariums & Zoos
- Water Treatment
- Industrial & Manufacturing Processes
- Food & Beverage production

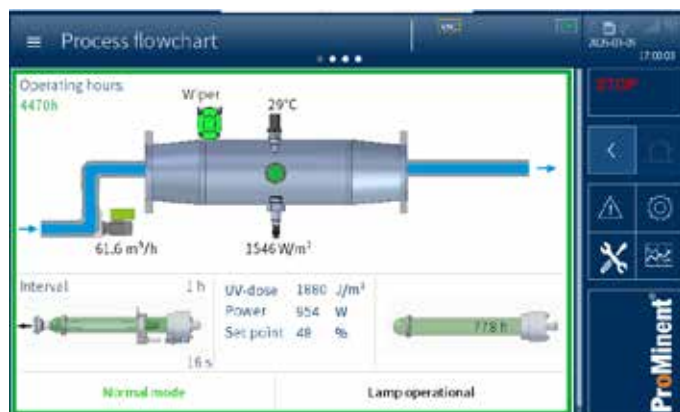
FEATURES

Intelligent UV Power Control	Automatically adjusted lamp drivers saves on power and replacement costs
Long-Term Stable UV Sensor.....	Monitors lamp intensity for consistent performance and early issue detection
Eco!Mode function.....	Reduces power during low demand periods to lower energy costs
Manual or automatic wiper system.....	Efficient sleeve cleaning with minimal downtime and labor
7-inch capacitive touchscreen display.....	Clear controls for simple operation, training and troubleshooting
Remote monitoring	Allows status updates without having to be near equipment

BENEFITS

SPECIFICATIONS

- Medium-pressure UV technology
- Power output range from 1,000 W to 9,000 W
- Automatic lamp power modulation
- Guaranteed lamp service life of up to 8,000 hours
- Reactor constructed from high-grade stainless steel (1.4404 / AISI 316L)
- Long-term stable UV sensor
- All maintenance performed from one side
- Remote monitoring and integration via Modbus IP, OPC-UA IP, BACnet IP, or VNC connection
- Certified to international standards including NSF/ANSI/CAN 50 (IAPMO), UL, CSA, USEPA, and compliant with DIN 19643



Type	Flow Rate		Lamp Power	Connected Load	Radiation Chamber Length	Free Space for Maintenance	Empty / Operating Weight	Connection Width
	GPM	m³/h	W	kW	inch / mm	inch / mm	lb / kg	ANSI
1x1 MP	255*/ 365**	58*/83**	1,000	1.10	27.6 / 700	15.8 / 400	68/104 31/47	4"
1x2 MP	449*/ 656**	102*/149**	2,000	2.10	27.6 / 700	19.7 / 500	84/143 38/65	6"
1x3 MP	903*/ 1,276**	205*/290**	3,000	3.20	31.5 / 800	23.6 / 600	115/260 52/118	8"
2x2 MP	1,224*/ 1,739**	278*/395**	4,000	4.20	35.4 / 900	39.4 / 1,000	172/366 78/166	8"
2x3 MP	1,669*/ 2,373**	379*/539**	6,000	6.20	35.4 / 900	39.4 / 1,000	172/366 78/166	10"
3x3 MP	2,505*/ 3,562**	569*/809**	9,000	9.20	35.4 / 900	39.4 / 1,000	172/366 78/166	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

Lamp type	Powerline medium-pressure lamp
Control type	Comfort controller
Permissible operating pressure	145 psi (10 bar) single lamp / 87 psi (6 bar) multi-lamp
Permissible ambient temperature	41 - 104 °F (5 - 40 °C)
Permissible water temperature	41 - 104 °F (5 - 40 °C)
Enclosure rating	NEMA 12

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PROVEN SOLUTIONS THAT MEET YOUR NEEDS

ProMinent Fluid Controls offers the highest quality metering pumps, disinfection systems, polymer preparation systems, metering systems for solids, instrumentation, and custom designed systems. The Group is headquartered in Heidelberg, Germany with more than 3,000 employees throughout 50 sales and service locations and 12 production sites. With over 60 years of experience, our expertise and wide range of products positions us as your reliable solution partner for the treatment of water. To learn how we can help you, contact us at:

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