

DULCODES MP ELD – Ultraviolet Disinfection System

Powerfully efficient. Effortlessly simple – clarity you can rely on.



DULCODES MP makes water disinfection effortless. Smart UV technology adjusts power automatically for the perfect balance of efficiency and disinfection—delivering clear, odor-free water with minimal maintenance and maximum reliability.

Features and Benefits

- **Intelligent UV Power Control:** Electronic lamp drivers automatically adjust output to real-time water quality, flow, and UV transmittance, which maintains consistent disinfection while minimizing energy use and extending lamp life.
- **Medium-Pressure UV Technology:** Broad-spectrum UV lamps break down chloramines and inactivate microorganisms to deliver high-performance disinfection without chemical dosing.
- **Automatic or Manual Wiper System:** Integrated quartz sleeve cleaning (manual or motor-driven) maintains optimal UV efficiency with minimal downtime or maintenance labor.
- **Long-Term Stable UV Sensor:** Continuous monitoring of lamp intensity and water clarity provides real-time assurance of disinfection performance and early fault detection.
- **Intuitive 7" Touchscreen Interface:** Capacitive color display with process visualization and alarms for clear, simple system control. Aids in quick training, easy operation, and faster troubleshooting.
- **Compact Inline Design:** Space-saving layout with flexible flange configurations and free mounting orientation provides simple installation and retrofitting into existing pipework.
- **Visual Monitoring Window:** Clear inspection port on the reactor chamber for quick confirmation of lamp operation.



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Technical Data

Type	Max. flow rate	Lamp power	Connected load	Radiation chamber length	Free space needed for maintenance	Empty weight/ Operating weight	Connector width
	gph m³/h	W	kW	inch	inch	lb kg	DIN / ANSI
1x0.65 MP	5,284*/7,926** 20.0*/30**	650	0.75	19.69	13.19	46/68 21/31	DN 65/80
1x1 MP	15,324*/22,985** 58.0*/87**	1.000	1.10	27.56	15.75	68/104 31/47	DN 100/125 / 4"
1x2 MP	26,948*/40,423** 102.0*/153**	2.000	2.10	27.56	19.69	84/143 38/65	DN 125/150 / 6"
1x3 MP	54,161*/81,374** 205.0*/308**	3.000	3.20	31.5	23.62	115/260 52/118	DN 200/250 / 8"
2x2 MP	73,448*/110,171** 278.0*/417**	4.000	4.20	35.43	39.37	172/366 78/166	DN 200/250 / 8"
2x3 MP	100,132*/150,066** 379.0*/568**	6.000	6.20	35.43	39.37	172/366 78/166	DN 250 / 10"
3x3 MP	150,330*/225,363** 569.0*/853**	9.000	9.20	35.43	39.37	172/366 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

Lamp type	Powerline medium-pressure lamp
Control type	Comfort controller
Permissible operating pressure	145 psi or 87 psi (10 bar or 6 bar) *
Permissible ambient temperature	41...104 °F (5...40 °C)
Permissible water temperature	41...104 °F (5...40 °C)
Enclosure rating	IP54

* 145 psi (10 bar) for single-lamp systems 1x1 MP - 1x3 MP
87 psi (6 bar) for multi-lamp systems 2x2 MP - 3x3 MP