

UV System DULCODES A

Perfect for the treatment of higher flows.



The UV system works cleanly and with efficient use of energy, based on continuously variable medium pressure lamps, and can therefore automatically compensate for variations in the water quality or level of contamination.

Technical Details

- Radiation chambers made of high-grade stainless steel 1.4404/AISI316L
- Guaranteed (pro rata) lamp service life of 8000 hours
- UVC sensor with long term stability to monitor the system output
- Automatic motor-driven wiper for efficient removal of deposits on the lamp protection tube
- Freely programmable control with backlit display during normal operation (green), warning (yellow) and fault (red), visible from afar too
- Minimum pressure losses even with high flow volumes
- Optimised use of energy thanks to large radiation chamber and uniform irradiation of the entire water flow due to optimised system hydraulics.
- Powerline A medium-pressure lamp with high connecting power of up to 3 kW
- Integral temperature sensor for monitoring the water temperature in the radiation chamber
- Double, independent and automatic monitoring of the wiper function by revolution counter and limit switch
- Control cabinet made of coated steel
- Large graphic display to show all important operating parameters, such as the UV sensor signal, lamp power consumption, control type and operating status
- Interfaces and connectors for:
 - Shut-off and rinse valve
 - Control of the feed pump
 - Operating signal relay
 - Warning and alarm relay for UV intensity
 - Collective malfunction alert relay
 - Pause contact
 - Relay for monitoring reactor temperature
 - Temperature monitoring and fault indicating relay for control cabinet temperature
 - Input for external fault
 - Digital input for switch-over to second power stage



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Technical Data

Type	Max. flow rate	Lamp power	Connected load	Radiation chamber length	Free space needed for maintenance	Min. distance from wall	Empty weight/ Operating weight	Connector width
	m ³ /h	W	kW	mm	mm	mm	kg	DIN / ANSI
1x1 A	50*/83**	1.000	1.10	700	400	300	31/47	DN 100/4"
1x2 A	91*/149**	2.000	2.10	700	500	300	38/65	DN 150/6"
1x3 A	176*/290**	3.000	3.20	800	600	300	52/118	DN 200/8"
2x2 A	240*/395**	4.000	4.20	900	1000	300	78/166	DN 200/8"
2x3 A	328*/539**	6.000	6.20	900	1000	300	78/166	DN 250/10"
3x3 A	492*/809**	9.000	9.20	900	1000	300	78/166	DN 300/12"

* 98%/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 A medium-pressure lamp
Permissible operating pressure	10 bar for single-lamp systems 1 x 1A - 1 x 3A 7 bar for multiple-lamp systems 2 x 2A - 3 x 3A
Permissible ambient temperature	5...40 °C
Permissible water temperature	5...40 °C
Enclosure rating	IP54