

UV System Dulcodes LP

A world first: precise lamp dimming in seconds – even with varying flows and water temperatures.



Flow up to 523 m³/h

Our patented Vario-Flux high-output lamps with dynamic lamp heating are used in the Dulcodes LP. Thanks to the unique combination of electronic ballast technology and the Vario-Flux lamps, they can be quickly and precisely dimmed over a broad power range of up to 50% of the nominal electrical power. This ensures automatic adjustment to varying flows and water temperatures at all times.

Efficiency even increases in dimmed mode, which has a particularly positive effect when the actual flow is below the maximum possible flow of the system.

The flow in the Dulcodes LP has been optimised in a reactor based on intensive computer simulation. At the same time the pressure loss is kept minimal. The resulting uniform radiation dose without over- or under-metering of a partial volumetric flow leads to minimal use of energy, a minimum number of lamps and significantly reduced life cycle costs.

Your benefits

- UV system Dulcodes LP for a broad field of application for efficient, safe and chemical-free water disinfection
- Unique dynamic lamp heating adjusts the lamp output in seconds and provides for optimum disinfection even with rapidly varying flows and water temperatures
- Homogeneous UV dose, thanks to optimised flow behaviour in the reactor, guarantees maximum flow output with a minimum number of lamps and minimum pressure loss
- Reduced life cycle costs due to the long service life of Vario-Flux high-output lamps with low energy consumption and high UV output
- Excellent flexibility, thanks to vertical or horizontal installation and free choice of the flange position
- Location-independent system monitoring in real time via the DULCOnneX platform: Improved process reliability. Reliability and transparency due to real-time monitoring, individual alarms and automated reports.

Field of application

- Potable water treatment
- Food and beverage production
- Swimming pool water

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Technical Data

Type	Max. flow m ³ /h	Lamp power W	Connected load W	Reactor length mm	Minimum clearance for service mm	Ø mm	Connection nominal diameter DIN / ANSI
Dulcodes 1x80LP	8.8*	81	110	872	973	140	RP 2" / RP 2"
Dulcodes 1x230LP	35*	260	310	1,151	1,064	140	DN 80 / 3"
Dulcodes 1x350LP	53*	370	430	1,640	1,465	168	DN 100 / 4"
Dulcodes 2x350LP	123*	2x370	835	1,640	1,465	256	DN 150 / 6"
Dulcodes 3x230LP	155*	3x260	825	1,185	1,156	324	DN 150 / 6"
Dulcodes 3x350LP	232*	3x370	1,240	1,885	1,565	324	DN 200 / 8"
Dulcodes 4x350LP	317*	4x370	1,645	1,885	1,565	356	DN 200 / 8"
Dulcodes 6x350LP	523*	6x370	2,455	1,885	1,565	406	DN 250 / 10"

** 98 %/cm transmission; 400 J/m² irradiation intensity, calculated according to PSS.

Lamp type	Low-pressure lamp Vario Flux
Controller type	Comfort controller, optionally compact controller
Permissible operating pressure	10 bar or 16 bar
Permissible ambient temperature	5–40°C with comfort control, 5–35°C with compact control
Permissible water temperature	2 – 70 °C
Enclosure rating	IP 66