

1 Dulcodes Powerline UV Disinfection System 1*10ML/40/DN300

The system consists of the following standard parts:

- 1 **Stainless steel glass bead blasted radiation chamber** with optimized inlet in order to reach a even radiation of the whole water flow:

Steel quality of the radiation chamber:	AISI 316Ti
Installation:	horizontal
Connections:	DN 300
Maximum operating pressure:	10 bar
Length of the radiation chamber:	1500 mm
Minimum access for lamp replacement:	1550 mm
Diameter:	406 mm
Weight when empty:	approx. 185 kg
Operating weight:	approx. 400 kg

- 1 **High grade quartz lamp protection tube**, easy to remove for cleaning purposes. With stainless steel cap. Enclosure rating IP65.

- 1 **High Power 10 kW UVC lamp**
Expected lamp life 6,000 – 8,000 operating hours.

- 1 **Highly selective UVC sensor** (can be calibrated, temperature and ageing stable)

- 1 **Motor driven wiper** for cleaning the lamp protection tube

- 1 **UV disinfection system controller:**

Processor controlled
 Large, backlight LCD display
 Multi-lingual display (German, English, French, Spanish)
 Clear indication of operation status
 Wiper control
 Automatic rinsing if the water temperature in the radiation chamber is high
 Switch off of the UV system if the water temperature in the radiation chamber is to high
 Automatic start-up rinse
 Automatic lamp afterburning
 Automatic free rinse
 Calibration of UVC sensor, choice of relative (in %) or absolute (in W/m²)
 Display of UV intensity
 UV intensity trend display
 UV intensity monitoring

Adjustable lamp power
Lamp power monitoring
Display of the water temperature
Display of operating hours since last lamp replacement
Display of entire operating hours
Display of number of ignitions since last lamp replacement
Display of entire number of ignitions
In the event of a fault: Cause of fault displayed
Password protected keypad

Operating and alarm outputs:

Stop valve (output voltage 230 V / 0.2 A)
Rinse valve (output voltage 230 V / 0.2 A)
Booster pump (switch output 230 V / 2.5 A)
Pre-alarm: Below UV intensity pre-alarm value (switch output 230 V / 2.5 A)
Alarm: Below UV intensity minimum value (switch output 230 V / 2.5 A)
Combined fault indicator (switch output 230 V / 2.5 A)
UV intensity (Standard output 0/4 - 20 mA)

Operating inputs:

Fault (e.g. Flow monitor)
Pause

1 Electronic ballast:

Power controlling of the lamp
Lamp monitoring
Short to ground monitoring

1 Switch cabinet

Height: 1400 mm
Width: 600 mm
Depth: 300 mm
Cable length: approx. 8 m
Weight: approx. 100 kg
Enclosure rating: IP 54

System electrical data

Power supply: 3*400 V, 50/60 Hz
Power: 10200 W
Cos Φ: > 0.95

Permissible operating temperatures

Ambient temperature: 5 to 40 °C
Water temperature: 5 to 40 °C