

### 1.1.1.

### DOSALux UV Disinfection Systems RLCD and RLCDP



Multi-lamp system with electropolished stainless steel for the medium capacity range between 20–40 m<sup>3</sup>/h. The “RM” version has a cleaning device (cleaning without downtime for heavily soiled or contaminated water).

#### Product description:

- Multi-lamp system with high-quality, centrally mounted quartz protection tubes
- High performance low pressure UV-C lamp in the 254 nm range UV-C dose > 400 J/m<sup>2</sup>
- Lamp service life approx. 9,000 hours
- Inlet and outlet at the side
- “RM” version for heavily soiled or contaminated water
- Connection nozzles for flame-resistant stainless steel sampling taps
- Reactor made of 1.4301 stainless steel (optionally 1.4404)
- Top maintenance connection for mounting the quartz protection tubes and for easy access to the reactor chamber
- Capacity: 20–40 m<sup>3</sup>/h
- Various UV control units are available:
  - model “RLCD” or model “RLCDP”
- Connection for UV-C sensor (RLCDP)
- Manual cleaning device (heavily soiled or contaminated water), for cleaning of the radiator without downtime or removal/installation (RM version)
- Upper vent and lower drain valve fitted as standard
- LCD display (microprocessor-controlled)
- Operating hours counter
- Resettable hour counter with an alarm when the lamp service life is reached
- Fault indicator LED
- Alarm relay with a floating contact, NO/NC
- Alarm relay, 230 V output, max. 2 A, NO/NC
- Remote ON/OFF contact
- On/Off timer
- Additional functions offered by the P version:
  - 4/20 mA output (optional)
  - Radiation output and temperature display (P version)
  - Automatic shutdown at excessive UV chamber temperature
- Operating pressure: max. 10 bar
- Water temperature 5 °C–50 °C
- Power supply: 230 V, 50/60 Hz; protection category: IP 55

#### Areas of application:

- For use in the public and private drinking water sector, industrial process water, the food & beverage industry.

#### Scope of supply:

- **DOSALux RLCD/RLCDP** UV disinfection system, connection cable approx. 1.0 m, lamp connection cable 2.5 m (furthermore see below „Ordering data“)

#### Ordering data:

| Type:                       | Flow rate*:       | UV-C dose:       | Lamp type: | Number of lamps: | Power input: | Item number: |
|-----------------------------|-------------------|------------------|------------|------------------|--------------|--------------|
| UV Disinfection System RLCD | m <sup>3</sup> /h | J/m <sup>2</sup> |            |                  | Watt         |              |
| RLCD 16-80/3-80             | 20                | > 400            | UVC 80     | 3                | 266          | 5016260      |
| RLCD 16-80/4-80             | 30                |                  |            | 4                | 355          | 5016240      |
| RLCD 16-80/5-80             | 40                |                  |            | 5                | 445          | 5016250      |

\*The max. flow rates refer to a transmission strength T1 cm of 99 % of a measured UV-C dose of 400 J/m<sup>2</sup> after approx. 9,000 h.

#### Ordering data:

| Type:   | Flow rate*: | UV-C dose: | Lamp type: | Number of lamps: | Power input: | Item number: |
|---|-------------|------------|------------|------------------|--------------|--------------|
| UV Disinfection System RLCDP  | m³/h        | J/m²       |            |                  | Watt         |              |
| (incl. reactor temperature monitoring/alarm, automatic shutdown at excessive UV chamber temperature, 4–20 mA output for radiation output and temperature display)   |             |            |            |                  |              |              |
| RLCDP 16-80/3-80  | 20          | > 400      | UVL 80     | 3                | 335          | 5016265      |
| RLCDP 16-80/4-80  | 30          |            |            | 4                | 335          | 5016245      |
| RLCDP 16-80/5-80  | 40          |            |            | 5                | 445          | 5016255      |
| Type:   | Flow rate*: | UV-C dose: | Lamp type: | Number of lamps: | Power input: | Item number: |
| UV Disinfection System RLCD-RM<br>(incl. cleaning device)   | m³/h        | J/m²       |            |                  | Watt         |              |
| RLCD-RM 16-80/3-80  | 20          | > 400      | UVL 80     | 3                | 335          | 5216230      |
| RLCD-RM 16-80/4-80  | 30          |            |            | 4                | 335          | 5216240      |
| Type:   | Flow rate*: | UV-C dose: | Lamp type: | Number of lamps: | Power input: | Item number: |
| UV Disinfection System RLCDP-RM   | m³/h        | J/m²       |            |                  | Watt         |              |
| (incl. reactor temp. monitoring/alarm, autom. shutdown at excessive UV chamber temp., 4–20 mA output for radiation output and temperature display, cleaning device) |             |            |            |                  |              |              |
| RLCDP-RM 16-80/3-80   | 20          | > 400      | UVL 80     | 3                | 335          | 5216235      |
| RLCDP-RM 16-80/4-80   | 30          |            |            | 4                | 335          | 5216245      |

\*The max. flow rates refer to a transmission strength T1 cm of 99 % of a measured UV-C dose of 300 or 400 J/m.

#### Options:

| Type:                                  | Item number: |
|--|--------------|
| UV sensor                              | 9016002      |
| 4–20 mA output for radiation intensity | 9116180      |
| Connection cable for UV-C sensor (4 m) | 9016005      |

#### Connections and dimensions:

| Type:                          | Reactor connection:<br>inches, DN, PN | Vent connection:<br>inches | Sampling port:<br>inches | Dimensions of reactor:<br>H, Ø (in mm) | Dimensions of controller:<br>H x W x D (mm) |
|--------------------------------|---------------------------------------|----------------------------|--------------------------|--|---|
| RLCD, RLCDP 16-80/ <b>3-80</b> | 2                                     | ½                          | ⅝                        | 855, 230                               | 400 x 300 x 200                             |
| RLCD, RLCDP 16-80/ <b>4-80</b> | DN 80, PN 10                          |                            |                          |  |   |
| RLCD, RLCDP 16-80/ <b>5-80</b> | DN 80, PN 10                          |                            |                          |  |   |