1.1.1. DOSA*Lux* UV Disinfection Systems **LCD** and **LCDP**

Single and multi lamp system with electropolished stainless steel for the capacity range between 1.2 – 12.00 m³/h.

Product description:

- Single- and multi-lamp system with high-quality, centrally mounted quartz protection tube
- High performance low pressure UV-C lamp in the 254 nm range
- UV-C dose > 300 – 400 J/m²
- Lamp service life approx. 9,000 hours
- Top maintenance connection for mounting the quartz protection tubes and for easy access to the reactor chamber
- Connection for UV-C sensor (LCDP) (except for 16-450/2-40)
- Connection nozzles for flame-resistant stainless steel sampling taps (except for 16-405/1-30,16-412/1-40 and 16-450/1-40)
- Upper vent and lower drain valve fitted as standard (except for 16-405/1-30,16-412/1-40 and 16-440/1-40)
- Reactor made of 1.4301 stainless steel (optionally 1.4404)
- Particularly hygienic and corrosion-resistant design
- The system offers the option of stopping the water flow if the UV intensity is too low
- Inlet and outlet at the side
- Capacity: 1.20 – 12.00 m³/h
- Various UV control units are available:
  - "LCD" or "LCDP" model
- Operating hours counter
- Lamp function monitoring
- Fault indicator LED
- Timer ON/OFF
- Remote ON/OFF contact
- Alarm relay potential-free contact, NO/NC
- Alarm relay output, 230 V, max. 2 A, NO/NC
- Additional functions offered by the P version:
  - 4/20 mA output
  - 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, small reverse osmosis units, cooling systems, dispensers.

Scope of supply:

- **DOSA*Lux* LCD/LCDP** UV disinfection system, Connection cable approx. 1.0 m, lamp connection cable 1.0 m (furthermore see bellow „Ordering data")

Ordering data:

Type: UV Disinfection System **LDC**	Flow rate*: l/min I m³/h	UV-C dose: J/m²	Lamp type:	Power input: Watt	Item number:
LCD **16-405/1-30**	19 I 1.14	> 300	UVL 30	30	5016100
LCD **16-412/1-40**	45 I 2.70	> 300	UVL 40	40	5016110
LCD **16-440/1-40**	60 I 3.60	> 300	UVL 40	40	5016120
LCD **16-450/2-4**0	75 I 4.50	> 300	UVL 40	80	5016130
LCD **16-480/1-80**	85 I 5.10	> 300	UVL 80	80	5016140
LCD **16-550/2-40**	100 I 6.00	> 400	UVL 40	80	5016150
LCD **16-80/2-80**	200 I 12.00	> 400	UVL 80	160	5016160

*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.

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
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Ordering data:

Type: UV Disinfection System **LDCP**	Flow rate*: l/min I m³/h	UV-C dose: J/m²	Lamp type:	Power input: Watt	Item number:
LCDP **16-405/1-30**	20 I 1.20	> 300	UVL 30	30	5016105
LCDP **16-412/1-40**	45 I 2.70	> 300	UVL 40	40	5016115
LCDP **16-440/1-40**	60 I 3.60	> 300	UVL 40	40	5016125
LCDP **16-480/1-80**	85 I 5.10	> 300	UVL 80	80	5016145
LCDP **16-550/2-40**	100 I 6.00	> 400	UVL 40	80	5016155
LCDP **16-80/2-80**	200 I 12.00	> 400	UVL 80	160	5016165

*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.

- incl.:
  - Reactor temperature monitoring/alarm
  - Automatic shutdown at excessive UV chamber temperature
  - 4 – 20 mA output for radiation output and temperature display

Options:

Type:	Item number:
Audio alarm	9016002
4 … 20 mA output for radiation intensity	9116180

Spare Parts:

Type:	Item number:
UV sensor	9016002
Connection cable for UV-C sensor (4 m)	9016005

Connections and dimensions:

Type:	Reactor connection: inches	Vent connection: inches	Sampling port: inches	Dimensions of reactor: H I Ø (in mm)	Dimensions of controller: H x W x D (mm)
LDC, LDCP **16-405/1-30**	¾	-	-	524 I 90	215 x 215 x 90
LDC, LDCP **16-412/1-40**	1	-	-	925 I 90	
LDC, LDCP **16-440/1-40**	1 ½	½	⅛	880 I 200	
LDC, LDCP **16-450/2-40**	1	-	-	925 I 230	
LDC, LDCP **16-480/1-80**	1 ½	½	⅛	880 I 200	
LDC, LDCP **16-80/2-80**				985 I 215	
LDC, LDCP **16-80/2-80**				985 I 185	

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