DOSATRONIC®
WATER MANAGEMENT

3. Disinfection systems

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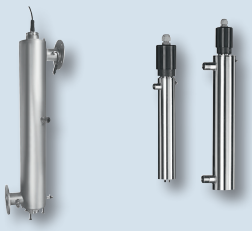
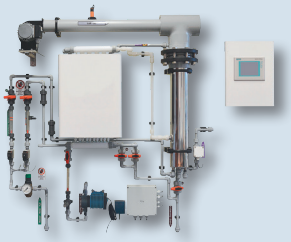


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Legal notice

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Note

We are committed to continuously improving our products. The information provided in these Operating Instructions may occasionally be at variance with the product itself if technological are made or in order to comply with safety related requirements.

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01.05.2023

DOSATRONIC®
WATER MANAGEMENT

5. Disinfection systems

3.1. Chlorine dioxide systems

3.1.1. **DOSA***Des* Chlorine dioxide unit **DOSA***iXD* **5T – 30T**

Compact chlorine dioxide unit operating according to the unpressurised chlorite/ acid pro-cess. ClO_2 output: 0 – 5, max. 30 g/h (depending on the system capacity). Can easily be expanded for a multiple disinfection system.

Product description:

- Unit for the production of small and medium amounts of ClO_2
- Menu-guided operation and service functions (touch screen)
- Works in accordance with DVGW worksheet W 224 (acid/chlorite process with dilute chemicals (hydrochloric acid (HCl 9%) and sodium chlorite ($NaClO_2$ 7.5%))
- Inputs:
  - direct actuation via contact water meter
  - 2 amperometric sensors with 4 – 20 mA signal (for the measurement of the chlorine dioxide, chlorite concentration), optional
- Outputs:
  - operating message
  - warning
  - alarm output as potential-free contact
- Capacity: 0 – 5, max. 30 g/h ClO_2
- Temperature range: +5 °C to +40 °C
- Injection valve made of PVDF
- Injection valve connection: ½", male thread
- Hose made of PVDF
- Hose length: 5 m
- Protection category: IP 54

Areas of application:

- Particularly suitable for drinking water disinfection in public buildings, such as hospitals, nursing homes, hotels and sports facilities etc.
- As a CIP* unit for legionella prophylaxis (* bottle washer).
- For disinfection of cooling systems, ventilation and air conditioning systems, as well as for product water disinfection, or beverage and food industry ...

Scope of supply:

- **DOSA***iXD* **5T – 30T** Chlorine dioxide unit (preassembled)
- with internal magnetic diaphragm pump for dosing
- Injection valve made of PVDF, ½" thread, 5 m hose made of PVDF
- Fittings for wall mounting
- Instruction manual, Set of warning and information signs
- Two suction lances
- Statutory Accident Insurance GUV
- Training on commissioning and maintenance of the system at the manufacturer's plant in Ravensburg (excluding travel, accommodation and food), with a **DOSATRONIC®** certificate for completion of the training course

Ordering data:

Type:	Item number:
DOSA*iXD* **5T**	5688405
DOSA*iXD* **10T**	5688410
DOSA*iXD* **20T**	5688420
DOSA*iXD* **30T**	5688430

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23.10.2019

Additional technical data:

Type:	DOSA*iXD* 5T	DOSA*iXD* 10T	DOSA*iXD* 20T	DOSA*iXD* 30T
ClO_2 – capacity (g/h)	0–5	0–10	0–20	0–30
Chem. consumption under full load (ml/h)	2 x 130	2 x 260	2 x 520	2 x 780
Max. operating pressure (bar)	6			
Concentration of ClO_2 product (g/l)	1–3			
Electrical connection	230 V, 50–60 Hz, external RCD, via main switch protected against polarity reversal			
Protection	IP 54			
Dimensions (W x H x D in mm)	880 x 520 x 350			
Weight (kg)	approx. 41	approx. 42	approx. 44	
Water connection	Hose connection 6 x 8 mm, water at system quality, connection in compliance with DVGW, if necessary with back-flow preventer and prefilter			
Dosing line connection	PVDF - connection for 6 x 8 mm hose			
Relay outputs for (250 V, 8 A)	operating signal, warning signal, alarm signal			
Inputs for proportional mode	Contact water meter with reed contact, inductive flow meter with current output 4 – 20 mA			

Accessories:

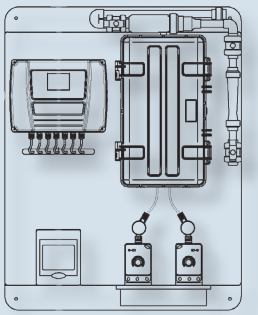
Type:	Item number:
DOSA*Control* **Photometer** (chlorine dioxide)	89231060
DOSA*Sens* **AS2MA1**-CD-M12 (0–1) ppm	3326840
DOSA*Sens* **AS2MA2**-CD-M12 (0–2) ppm	3326841
DOSA*Sens* **AS2MA5**-CD-M12 (0–5) ppm	3326842
DOSA*Sens* **MST1MA2**-M12 (0–2) ppm	3326441
DOSA*Sens* Flow cell **DF01**, for 1 amperometric sensor	3488210
DOSA*Tec* **Safety bunds** 40 l, others on request (chemistry)	4191101
DOSA*Tec* Impeller flow meter **KWKT/KWHT**	43113132

3.1.2. **DOSA***Des* Chlorine dioxide unit **DOSA***iXD* **DXT DP**

Compact, wall-mounted Chlorine Dioxide Unit with flow meter in the bypass line for safe dosing. ClO_2 capacity: 35 – 1500 g/h (depending on design).

Product description:

- Unit for the production of medium amounts of ClO_2
- Menu-guided operation and service functions
- Unambiguous warnings through additional LEDs
- Direct control by contact water meter, inductive flow meter or online chlorine dioxide measurement
- Unit is ready for installation and tested in accordance with 2006/42/EC, EN 12100, EN 60204-1, 2006/95/EC, 2004/108/EC, DVS 2212
- Acid/chlorite method with diluted chemicals (hydrochloric acid (HCl 9%) and sodium chlorite (NaClO2 7.5%))
- The chlorine dioxide that has been produced is either dosed – controlled by volumeor by measured value – directly to the water system, or conveyed to a buffer tank
- Capacity: 5 – 1,500 g/h ClO_2
- Temperature range: +5 °C to +40 °C
- Injection valve made of PVDF
- Injection valve connection: ½"
- Hose made of PVDF
- Hose connection: 6 x 8 mm
- Hose length: 5 m
- Power supply: 230 VAC/50 Hz, (optional 110 VAC or 12 VDC)
- Reliable restart upon power failure
- Protection category: IP 54



Areas of application:

- Especially suitable for public drinking water applications, e. g. in hospitals, retirement homes, hotels or sports facilities.
- As a CIP unit for legionella prophylaxis.
- For disinfection of cooling systems, ventilation and air conditioning systems, as well as for product water disinfection, or beverage and food industry applications such as bottle washers.

Scope of supply:

- **DOSA***iXD* **DXT DP** Chlorine dioxide unit (Preassembled)
- Mention of important parts
  - Mixing and reaction tank
  - Reactor with inspection window and gas evacuation via an active carbon filter
  - Solenoid-driven diaphragm metering pump
  - Pressure sustaining valve
  - Injection valve ½", PVDF
  - Hose 5 m, PVDF (connection 6 x 8 mm)
  - Monitoring device for the dosing pumps
  - Wall bracket, PP

Ordering data:

Type:	Capacity: g/h (ClO_2)	Max. pressure: bar	Chem. consumption: l/h	Power consumption: W/h	Item number:
DXT DP **30**	5–35	10	0.9	70	5237400
DXT DP **60**	7–60	10	1.5	70	5237401
DXT DP **120**	15–120	8	3.6	90	5237402
DXT DP **350**	20–350	8	8.8	110	5237403
DXT DP **600**	36–640	7	16.0	130	5237404
DXT DP **1000**	72–1014	4	25.2	150	5237405
DXT DP **1500**	110–1500	4	39.0	180	5237406

Options:

Type:	Item number:
Calibration cylinder CA 1 for DXT DP 30, 60, 120	8937000
Calibration cylinder CA 2 for DXT DP 350, 600, 1000, 1500	8937010
Remote monitoring and control via GSM	on request
Semi-automatic calibration with graduated cylinder	
Alarm output and remote control via GSM	
Power supply 110 VAC, 50/60 Hz	
Power supply 12 V DC, 50 Hz (safety extra-low voltage, enclosure class III)	

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Additional technical data:

Type:	Dimension/water connection:	Controller modes:	Dimensions: w x h x d (mm)	Installation site:	Weight: kg
DXT DP **30**	PVC DN20 / DA25	- manual - volume controlled - controlled by measured value - controlled by volume and by measured ClO2 value	750 x 1000 x 300	ventilated room	54
DXT DP **60**					
DXT DP **120**					
DXT DP **350**	PVC DN25 / DA32		900 x 1350 x 300		56
DXT DP **600**					
DXT DP **1000**			1000 x 1700 x 450		64
DXT DP **1500**					

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5. Disinfection systems

3.2. UV-Units

3.2.1. DOSA*Lux* UV Disinfection Systems **ALB**

Single-lamp system with electropolished stainless steel for the capacity range between 0.3 – 3.6 m³/h.

Product description:

- Single-lamp system with high-quality, centrally mounted quartz protection tube
- Digital display (only for ALB2: alarm LED, acoustic buzzer, day counter)
- High performance low pressure UV-C lamp in the 254 nm range
- UV-C dose > 300 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
- Lamp guide opening with O-ring seal
- Reactor made of 1.4301 stainless steel (optionally 1.4404)
- Particularly hygienic and corrosion-resistant design
- Intake and drain pipes on the side (except 16-107/1-12 ALB)
- The system offers the option of stopping the water flow if the UV intensity is too low
- Capacity: 0.30 to 3.6 m³/h
- Operating pressure: max. 9 bar
- Water temperature 5 °C to 50 °C
- Power supply: 230 V, 50/60 Hz
- Protection category: IP 55

Areas of application:

- For use in the private and public drinking water sectoreven under pressure.

Scope of supply:

- **DOSA*Lux* ALB** UV disinfection system

Ordering data:

Type:	Flow rate*: l/min I m³/h	Lamp type:	Power input: Watt	Item number:
ALB 16-**107/1-12**	5 I 0.30	UVL 12	12	5016000
ALB 16-**403/1-16**	10 I 0.60	UVL 16	16	5016010
ALB 16-**405/1-30**	19 I 1.14	UVL 30	30	5016020
ALB 16-**412/1-40**	45 I 2.70	UVL 40	40	5016030
ALB 16-**440/1-30**	60 I 3.60	UVL 40	40	5016040
ALB 2 16-**405/1-30**	19 I 1.14	UVL 30	30	5016050
ALB 2 16-**412/1-40**	45 I 2.70	UVL 40	40	5016060

Connections and dimensions:

Type: (*without connections)w	Number of lamps:	Protection category:	Reactor connection: inches	Reactor dimensions*: Height I Ø (mm)	Weight: kg:
ALB 16-**107/1-12**	1	IP 54	⅛	267 I 53	0.4
ALB 16-**403/1-16**			½	394 I 80	0.7
ALB 16-**405/1-30**			¾	524 I 85	1.5
ALB 16-**412/1-40**			1	925 I 88	2.5
ALB 16-**440/1-30**			1 ½	880 I 90	5.5
ALB 2 16-4**05/1-30**			¾	524 I 85	1.5
ALB 2 16-**412/1-40**			1	925 I 88	2.5

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16.08.2017

3.2.2. 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 to 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 ONw/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.

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27.07.2018

3.2.3. DOSA*Lux* UV Disinfection Systems **RLCD** and **RLCDP**

Multi-lamp system with electropolished stainless steel for the medium capacity range between 20 – 40 m³/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/m²
- 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 to 40 m³/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 isreached
- 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:

- **DOSA*Lux* RLCD/RLCDP** UV disinfection system, connection cable approx. 1.0 m, lamp connection cable 2.5 m (furthermore see bellow „Ordering data")

Ordering data:

Type: UV Disinfection System **RLCD**	Flow rate*: m³/h	UV-C dose: J/m²	Lamp type:	Number of lamps:	Power input: Watt	Item number:
RLCD 16-80/**3-80**	20	> 400	UVL 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/m² after approx. 9,000 h.

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07.04.2017

Ordering data:

Type: UV Disinfection System **RLCDP**	**Flow rate*:** m^3/h	**UV-C dose:** J/m^2	**Lamp type:**	**Number of lamps:**	**Power input:** Watt	**Item number:**
(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: UV Disinfection System **RLCD-RM** (incl. cleaning device)	**Flow rate*:** m^3/h	**UV-C dose:** J/m^2	**Lamp type:**	**Number of lamps:**	**Power input:** Watt	**Item number:**
RLCD-RM 16-80/**3-80**	20	> 400	UVL 80	3	335	5216230
RLCD-RM 16-80/**4-80**	30			4	335	5216240
Type: UV Disinfection System **RLCDP-RM**	**Flow rate*:** m^3/h	**UV-C dose:** J/m^2	**Lamp type:**	**Number of lamps:**	**Power input:** Watt	**Item number:**
(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:

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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:** inches, DN, PN	**Vent connection:** inches	**Sampling port:** inches	**Dimensions of reactor:** H, Ø (in mm)	**Dimensions of controller:** H x W x D (mm)
RLCD, RLCDP 16-80/**3-80**	2	½	⅛	855, 230	400 x 300 x 200
RLCD, RLCDP 16-80/**4-80**	DN 80, PN 10			1000, 340	
RLCD, RLCDP 16-80/**5-80**	DN 80, PN 10				

3.2.4. DOSA*Lux* UV Disinfection Systems **LCD Pool**

Single and multi lamp system with electropolished stainless steel for the medium capacity range of 4 – 34 m³/h.

Product description:

- Single and 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 > 250 J/m²
- Lamp service life approx. 9,000 hours
- Inlet and outlet at the side
- Connection nozzles for flame-resistant stainless steel sampling taps
- Reactor made of 1.4301 stainless steel (optionally 1.4404)
- Capacity: 4 to 34 m³/h
- "Pool LCD" UV control units
- Top maintenance connection for mounting the quartz protection tubes and for easy access to the reactor chamber
- Upper vent and lower drain valve
- LCD display
- Hour counter
- Timer can be switched on/off
- Operating hours counter
- Red LED for alarms
- Free contact, NO/NC
- Free contact, 230 V output, max. 2 A, NO/NC
- Remote ON/OFF contact
- Alarm with acoustic alarm (optional)
- Operating pressure: max. 9 bar
- Water temperature 5 °C to 50 °C
- Power supply: 230 V, 50/60 Hz
- Protection category: IP 55

Areas of application:

- Private swimming pool.

Scope of supply:

- **DOSA*Lux* LCD Pool** UV disinfection system, Connection cable approx. 1.0 m, lamp connection cable 1.0 m

Ordering data:

Type:	Flow rate*: m³/h	UV-C dose: J/m²	Lamp type:	Number of lamps:	Power input: Watt	Item number:
LCD-POOL 16-4/1-40, **4.00**	4	250	UVL 40	1	40	5016500
LCD-POOL 16-7/1-40, **7.00**	7					5016505
LCD-POOL 16-14/1-80, **14.00**	14		UVL 80		80	5016510
LCD-POOL 16-18/1-80, **18.00**	18					5016515
LCD-POOL 16-34/2-80, **34.00**	34			2	160	5016520

Connections and dimensions:

Type:	Reactor connection: inches	Vent connection: inches	Sampling port: inches	Reactor dimensions: Height I Ø (mm)	Controller dimensions: H x W x D (mm))
LCD-POOL 16-4/1-40, **4.00**	1 ½	½	⅛	880 I 215	215 215 90
LCD-POOL 16-7/1-40, **7.00**					
LCD-POOL 16-14/1-80, **14.00**					
LCD-POOL 16-18/1-80, **18.00**					
LCD-POOL 16-34/2-80, **34.00**					

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16.08.2017

3.2.5. **DOSA***Lux* UV Disinfection Systems **AM 16 Rack LCD** and **LCDP**

Single and multi lamp system with electropolished stainless steel for the medium capacity range between 24 – 60 m³/h.

Product description:

- Single and multi lamp system with high-quality, centrally mounted quartz protection tubes
- High performance low pressure UV-C amalgam lamp in the 254 nm range
- UV-C dose > 400 J/m²
- Lamp service life approx. 12,000 hours
- Reactor made of AISI 304, AISI 316 stainless steel
- UV chamber with automatic cleaning ("RA" version)
- LCD display
- Display of the UV irradiation and temperature monitoring with the "**P**(lus)" version
- Operating hours counter
- Lamp function monitoring
- Fault indicator LED
- Alarm relay free contact, NO/NC
- Alarm relay, 230 V output, max. 2 A, NO/NC
- 4 – 20 mA output with the "P(lus)" version
- Remote ON/OFF contact
- Acoustic alarm (optional)
- 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
  - Adjustment of the UV intensity
- Timer ON/OFF
- Operating pressure: max. 10 bar
- Water temperature 5 °C to 50 °C
- Power supply: 230 V, 50/60 Hz
- Protection category: IP 54

Areas of application:

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

Scope of supply:

- **DOSA***Lux* **AM 16 Rack LCD** UV disinfection system, (see bellow „Ordering data")

Ordering data:

Type: UV Disinfection System **AM 16 Rack LDC**	Flow rate*: m³/h	UV-C dose: J/m²	Lamp type:	Number of lamps:	Power input: Watt	Item number:
AM 16-24/1-200 RACK LCD, **24.00 m³/h, AISI 304**	24	> 400	UVL 200	1	200	5016900
AM 16-24/1-200 RACK LCD, **24.00 m³/h, AISI 316**	24					5016901
AM 16-50/2-200 RACK LCD, **50.00 m³/h, AISI 304**	50			2	400	5016910
AM 16-50/2-200 RACK LCD, **50.00 m³/h, AISI 316**	50					5016911
AM 16-60/2-200 RACK LCD, **60.00 m³/h, AISI 304**	60					5016920
AM 16-60/2-200 RACK LCD, **60.00 m³/h, AISI 316**	60					5016921

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

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18.04.2017

Ordering data:

Type: UV Disinfection System **AM 16 Rack LDCP**	Flow rate*: m^3/h	UV-C dose: J/m^2	Lamp type:	Number of lamps:	Power input: Watt	Item number:
AM 16-24/1-200 RACK LCDP, **24.00 m^3/h, AISI 304**	24	> 400	UVL 200	1	200	5016905
AM 16-24/1-200 RACK LCDP, **24.00 m^3/h, AISI 316**						5016906
AM 16-24/1-200 RACK LCDP, **RA, 24.00 m^3/h, AISI 316**						5016907
AM 16-50/2-200 RACK LCDP, **50.00 m^3/h, AISI 304**	50			2	400	5016915
AM 16-50/2-200 RACK LCDP, **50.00 m^3/h, AISI 316**						5016916
AM 16-60/2-200 RACK LCDP, **60.00 m^3/h, AISI 304**	60					5016925
AM 16-60/2-200 RACK LCDP, **60.00 m^3/h, AISI 316**						5016926
AM 16-60/2-200 RACK LCDP, **RA, 60.00 m^3/h, AISI 316**						5016927

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

Connections and dimensions:

Type: UV Disinfection System **AM 16 Rack LDC**	Reactor connection: inches, DN, PN	Vent connection: inches	Sampling port: inches	Dimensions of reactor: H (in mm)	Dimensions of controller: H x W x D (mm)
AM 16-24/1-200 RACK LCD, **24.00 m^3/h, AISI 304**	2"	½	⅛	1285	400 x 300 x 200
AM 16-24/1-200 RACK LCD, **24.00 m^3/h, AISI 316**					
AM 16-50/2-200 RACK LCD, **50.00 m^3/h, AISI 304**	DN 80 PN10			1350	
AM 16-50/2-200 RACK LCD, **50.00 m^3/h, AISI 316**					
AM 16-60/2-200 RACK LCD, **60.00 m^3/h, AISI 304**					
AM 16-60/2-200 RACK LCD, **60.00 m^3/h, AISI 316**					
Type: UV Disinfection System **AM 16 Rack LDCP**	**Reactor connection:** inches, DN, PN	**Vent connection:** inches	**Sampling port:** inches	**Dimensions of reactor:** H (in mm)	**Dimensions of controller:** H x W x D (mm)
AM 16-24/1-200 RACK LCDP, **24.00 m^3/h, AISI 304**	2" PN10	½	⅛	1285	400 x 300 x 200
AM 16-24/1-200 RACK LCDP, **24.00 m^3/h, AISI 316**					
AM 16-24/1-200 RACK LCDP, **RA, 24.00 m^3/h, AISI 316**					
AM 16-50/2-200 RACK LCDP, **50.00 m^3/h, AISI 304**	DN 80 PN10			1350	
AM 16-50/2-200 RACK LCDP, **50.00 m^3/h, AISI 316**					
AM 16-60/2-200 RACK LCDP, **60.00 m^3/h, AISI 304**					
AM 16-60/2-200 RACK LCDP, **60.00 m^3/h, AISI 316**					
AM 16-60/2-200 RACK LCDP, **RA, 60.00 m^3/h, AISI 316**					

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3.2.6. DOSA*Lux* UV Disinfection Systems **AM TC Plus**

Single and multi lamp system with electropolished stainless steel for the medium capacity range between 96 – 160 m³/h.

Product description:

- Single and multi lamp system with high-quality, centrally mounted quartz protection tubes
- High performance low pressure UV-C amalgam lamp in the 254 nm range
- UV-C dose > 400 J/m²
- Lamp service life approx. 12,000 hours
- Reactor made of AISI 316 stainless steel
- Capacity: max. 96 to 160 m³/h
- UV chamber with automatic cleaning (“RA” version)
- Touch screen with multilingual display
- Display of the UV irradiation and temperature monitoring
- Irradiation regulation (optional for AM TC Plus 96)
- Operating hours counter
- Determination of the UV dose (optional)
- Alarm relay with a floating contact, NO/NC
- Digital outputs
- Alarm relay, 230 V output, max. 2 A, NO/NC
- 4 – 20 mA output
- UV intensity and temperature display
- Remote ON/OFF
- Interfaces: CAN, Ethernet, USB, serial (ModBus, TCP/IP, CANopen)
- Remote access via app or WebGate
- Timer ON/OFF
- Data log – events
- Operating pressure: max. 10 bar
- Water temperature 5 °C to 50 °C
- Power supply: 230 V, 50/60 Hz, Protection category: IP 54

Areas of application:

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

Scope of supply:

- **DOSA*Lux* AM TC Plus** (see below, „Ordering data“)

Ordering data:

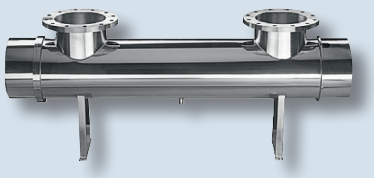
Type:	Flow rate*: m³/h	UV-C dose: J/m²	Lamp type:	Number of lamps:	Power input: Watt	Item number:
AM 16-96/3-200 TC PLUS, **96.00 m³/h, AISI 316**	96	400	UVL 200	3	660	5016930
AM 16-96/3-200 TC PLUS RA, **96.00 m³/h, AISI 316**	96					5016936
AM 16-125/4-200 TC PLUS, **125.00 m³/h, AISI 316**	125			4	880	5016940
AM 16-160/4-200 TC PLUS, **160.00 m³/h, AISI 316**	160					5016950
AM 16-160/4-200 TC PLUS RA, **160.00 m³/h, AISI 316**	160					5016955

Connections and dimensions:

Type:	Reactor connection: inches	Vent connection: inches	Sampling port: inches	Reactor dimensions: height (mm)	Controller dimensions: H x W x D (mm))
AM 16-96/3-200 TC PLUS, **96.00 m³/h, AISI 316**	DN 100 PN10	⅛	½	1348	400 x 500 x 250
AM 16-96/3-200 TC PLUS RA, **96.00 m³/h, AISI 316**					
AM 16-125/4-200 TC PLUS, 1**25.00 m³/h, AISI 316**	DN 150 PN10			1365	750 x 400 x 250
AM 16-160/4-200 TC PLUS, **160.00 m³/h, AISI 316**					
AM 16-160/4-200 TC PLUS RA, **160.00 m³/h, AISI 316**					

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
18.04.2017

3.2.7. **DOSA***Lux* UV Disinfection Systems **TC 400** and **TC RA 400**



Single and multi lamp system with electropolished stainless steel for the upper capacity range of 50 – 980 m³/h.

Product description:

- Single- and multi-lamp system with high-quality, centrally mounted quartz protection tube(s)
- Control panel Touch screen with multilingual display
- High performance UV-C amalgam lamp in the 254 nm range
- UV-C dose > 400 J/m²
- Lamp service life approx. 16,000 hours
- Upper inlet and outlet
- Reactor made of AISI 316 stainless steel
- Particularly hygienic and corrosion-resistant design
- Side maintenance connection for mounting the quartz protection tube and for easy access to the reactor chamber
- Automatic cleaning (**RA** version)
- Counter of hours in operation (system and service life of the lamps)
- Timer ON/OFF
- Remote ON/OFF
- 4 – 20 mA output
- Display of the UV irradiation and temperature monitoring
- Lamp power control
- Alarm relay with a floating contact, NO/NC
- Output: 24 V
- Low UV intensity
- Lamps OFF
- Check: lamps ON/OFF
- Digital outputs
- Communication protocol: CAN, Ethernet, USB, serial (ModBus, TCP/IP, CANopen)
- Remote access (via app or WebGate)
- Data log – events
- Flow meter, connection (device not included, available on request)
- UVT reader connection (available on request, sensor not included)
- UV-C dose calculation (J/m²) only with external contact
- Flow meter (available on request)
- Operating pressure: max. 10 bar
- Water temperature 5 °C … 50 °C
- Power supply: 230 V, 50/60 Hz (380/400 V, 50/60 Hz available on request)
- Protection category: IP 54

Areas of application:

- Applications: municipal water supply, industrial water, food & beverage industry, wastewater.

Scope of supply:

- **DOSA***Lux* **TC 400** / **TC RA 400** UV disinfection system, (see bellow „Ordering data“)

Ordering data:

Type: UV Disinfection System **TC 400**	Flow rate*: m³/h	UV-C dose: J/m²	Lamp type:	Number of lamps:	Power input: Watt	Item number:
TC 400 **16-400/ 1-400**	50	400	UVL 400	1	400	5016840
TC 400 **16-400/ 2-400**	100			2	800	5016845
TC 400 **16-400/ 3-400**	150			3	1200	5016800
TC 400 **16-400/ 4-400**	250			4	1600	5016805
TC 400 **16-400/ 5-400**	300			5	2000	5016810
TC 400 **16-400/ 6-400**	420			6	2400	5016815
TC 400 **16-400/ 8-400**	600			8	3200	5016820
TC 400 **16-400/10-400**	830			10	4000	5016825
TC 400 **16-400/12-400**	980			12	4800	5016830
Type: UV Disinfection System **TC RA 400**	**Flow rate*:** m³/h	**UV-C dose:** J/m²	**Lamp type:**	**Number of lamps:**	**Power input:** Watt	**Item number:**
TC 400 **RA 16-400/ 1-400**	50	400	UVL 400	1	400	5016885
TC 400 **RA 16-400/ 2-400**	100			2	800	5016890
TC 400 **RA 16-400/ 3-400**	150			3	1200	5016850
TC 400 **RA 16-400/ 4-400**	250			4	1600	5016855
TC 400 **RA 16-400/ 5-400**	300			5	2000	5016860
TC 400 **RA 16-400/ 6-400**	420			6	2400	5016865
TC 400 **RA 16-400/ 8-400**	600			8	3200	5016870
TC 400 **RA 16-400/10-400**	830			10	4000	5016875
TC 400 **RA 16-400/12-400**	980			12	4800	5016880

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

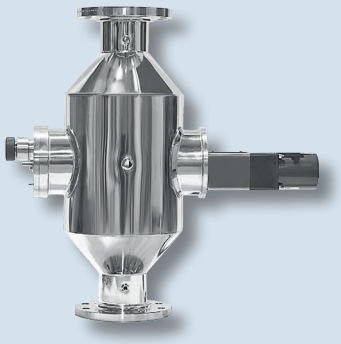
Accessories:

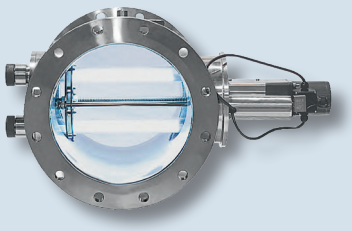
Type:	Item number:
UV lamp, UVLM 400 W, package content: 1 piece	9016113
QSR 400 quartz tube, package content: 1 piece	9016130
Optional support feet for TC and TC RA 16-400/1 and 16-400/2	9116160

Connections and dimensions:

Type: UV Disinfection System **TC 400/TC RA 400**	Reactor connection: DN, PN	Vent connection: inches	Dimensions of reactor: Ø, H (in mm)	Dimensions of controller: H x W x D (mm)
TC/**RA 400 16-400/ 1-400**	DN 80, PN10	½	292, 1980/2380	500 x 400 x 250
TC/RA **400 16-400/ 2-400**	DN 100, PN10		368, 2000/2400	
TC/RA **400 16 400/ 3-400**	DN150, PN10		368, 2000/2400	750 x 400 x 250
TC/RA **400 16-400/ 4-400**	DN200, PN10		420, 2000/2400	
TC/RA **400 16-400/ 5-400**				800 x 600 x 300
TC/RA **400 16-400/ 6-400**	DN250, PN10	1	470, 2000/2400	
TC/RA **400 16-400/ 8-400**			495, 2000/2400	
TC/RA **400 16-400/10-400**	DN300, PN10		570, 2000/2400	1000 x 800 x 300
TC/RA **400 16-400/12-400**	DN350, PN10		570, 2000/2400	1200 x 800 x 300

3.2.8. **DOSA***Lux* UV Disinfection Systems **MPTC**





Single and multi lamp system with electropolished stainless steel for the medium capacity range of 33 – 750 m³/h.

Product description:

- Single and multi lamp system with high-quality, centrally mounted quartz protection tubes
- High performance medium pressure UV-C amalgam lamp in the 254 nm range
- UV-C dose > 600 – 800 J/m²
- Lamp service life approx. 10,000 hours
- Reactor made of stainless steel AISI 316L
- Control panel: Touch screen with multilingual display
- Lamp function monitoring
- Optical fault indicator
- Manual cleaning device, automatic cleaning device (**RA** version)
- Particularly hygienic and corrosion-resistant design
- Operating hours counter
- Temperature measurement in the UV chamber
- Measurement of the UV intensity
- UV sensor
- Resettable hour counter with an alarm when the lamp service life is reached
- Calculation of the UV dose (optional, only with external flow meter)
- Connection for flow measurement
- Alarm relay with a floating contact, N/O:
  - Main alarm, system monitoring, temperature
- 24 V outputs:
  - Low UV intensity
  - Alarm: lamp OFF
  - Check: lamp ON/OFF
- 4 – 20 mA outputs:
- Remote ON/OFF
- Remote: Timer ON/OFF
- Data log-events
- Irradiation regulation (optional: flow rate or dosing)
- Interfaces: CAN, Ethernet, USB, serial (ModBus, TCP/IP, CANopen)
- Remote access (via dedicated app or WebGate)
- Operating pressure: max. 10 bar
- Water temperature 5 °C – 50 °C
- Power supply: 230 V, 50/60 Hz
- Protection category: IP 54

Areas of application:

- Water supply, swimming pool, secondary wastewater treatment.

Scope of supply:

- **DOSA***Lux* **MTPC** UV disinfection system, (see bellow „Ordering data“)

Ordering data:

Type:	Flow rate*: m^3/h	UV-C dose: J/m^2	Lamp type:	Number of lamps:	Power input: Watt	Item number:
MPTC-PR **16-6/1-1000**	33	> 600 - 800	UVLM 1000 W	1	660	5016680
MPTC-PR **16-10/1-1000**	55				1100	5016600
MPTC-PR **16-20/1-2000**	120		UVLM 2000 W		2200	5016610
MPTC-PR **16-25/1-2500**	170		UVLM 2500 W		2700	5016620
MPTC-PR **16-35/1-3500**	333		UVLM 3500 W		3900	5016630
MPTC-PR **16-50/2-2500**	350		UVLM 2500 W	2	5500	5016640
MPTC-PR **16-70/2-3500**	500		UVLM 3500 W		7700	5016650
MPTC-PR **16-150/3-3500**	750			3	11600	5016660
MPTC-PR **16-140/4-3500**	120			4	15500	5016670
MPTC-RAPR **16-6/1-1000**	33		UVLM 1000 W	1	660	5016780
MPTC-RAPR **16-10/1-1000**	55				1100	5016700
MPTC-RAPR **16-20/1-2000**	120		UVLM 2000 W		2200	5016710
MPTC-RAPR **16-25/1-2500**	170		UVLM 2500 W		2700	5016720
MPTC-RAPR **16-35/1-3500**	333		UVLM 3500 W	1	3900	5016730
MPTC-RAPR **16-50/2-2500**	350		UVLM 2500 W	2	5500	5016740
MPTC-RAPR **16-70/2-3500**	500		UVLM 3500 W	2	7700	5016750
MPTC-RAPR **16-150/3-3500**	750			3	11600	5016760
MPTC-RAPR **16-140/4-3500**	120			4	15500	5016770

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*The max. flow rates refer to a transmission strength T1 cm of 99 % of a measured UV-C dose of 600 - 800 J/m.

Connections and dimensions:

Type:	Reactor connection: DN, PN, inches	Regulation of lamp power:	Distributor material:	Dimensions of reactor: L, Ø, (in mm)	Dimensions of panel: H x W x D (mm)
MPTC-PR **16-6/1-1000**	2 1/2" M	50 - 100 %	AISI 316	on request	400 x 500 x 250
MPTC-PR **16-10/1-1000**	DN 100				400 x 500 x 251
MPTC-PR **16-20/1-2000**	DN 150				400 x 750 x 300
MPTC-PR **16-25/1-2500**	DN 200				
MPTC-PR **16-35/1-3500**	DN 200				
MPTC-PR **16-50/2-2500**	DN 200				600 x 800 x 300
MPTC-PR **16-70/2-3500**	DN 300				
MPTC-PR **16-150/3-3500**	DN 300				850 x 1000 x 400
MPTC-PR **16-140/4-3500**	DN 400				
MPTC-RAPR **16-6/1-1000**	2 1/2" M				400 x 500 x 250
MPTC-RAPR **16-10/1-1000**	DN 100				400 x 500 x 251
MPTC-RAPR **16-20/1-2000**	DN 150				400 x 750 x 300
MPTC-RAPR **16-25/1-2500**	DN 200				
MPTC-RAPR **16-35/1-3500**	DN 200				
MPTC-RAPR **16-50/2-2500**	DN 200				600 x 800 x 300
MPTC-RAPR **16-70/2-3500**	DN 300				
MPTC-RAPR **16-150/3-3500**	DN 300				850 x 1000 x 400
MPTC-RAPR **16-140/4-3500**	DN 400				

Accessories:

Type:	Item number:
UV lamp, UVLM 1000 W, package content: 1 piece	9016109
UV lamp, UVLM 2000 W, package content: 1 piece	9016110
UV lamp, UVLM 2500 W, package content: 1 piece	9016111
UV lamp, UVLM 3500 W, package content: 1 piece	9016112

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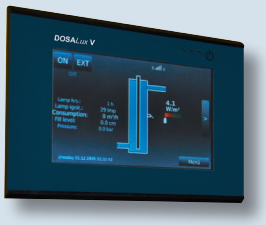
21.02.2020

3.2.9. **DOSA***Lux* UV Disinfection Systems **V-8, V-14, V-83, V-140**



UV system with touch screen for low to medium capacities with all functions required for commercial and private use. Type-tested in accordance with DVGW and ÖNORM.

Product description:

- DOSALux UV disinfection system V-8, V-14, V-83, V-140
- Operating hours counter for UV lamp
- Wavelength UV radiator ≙ 254 nanometers
- Fluence (UV radiation dose) ≙ 400 J/m²
- Guaranteed service life of the lamps: 9000 h (with low switching frequency)
- 4 inputs for **DOSA***Sens* sensors with 4–20 mA, for additional sensors
- System status message
- Floating contacts:
  - Operating signal from the system
  - P1 pre-warning point message
  - P2 shut-off point message
- Display of the irradiance in W/m²
- Temperature sensor
- Analogue outputs for lamp intensity
  - 0–10 V
  - 4–20 mA
- Lamp status display
- Programmable data memory
- Trend recording
- Texts provide assistance in the event of an alarm
- Battery buffering
- System overview display
- Languages: German, English, Spanish, French

Areas of application:

- Drinking water sector of municipal and private water utilities
- Emergency drinking water supply
- A/C and cooling water treatment
- Swimming pool disinfection
- Food and chemical industry

Scope of supply:

- **DOSA***Lux* **V-x** UV disinfection system including:
  - UV-C sensor
  - Control unit with display
  - Connections for sampling valves, vent and draining

Ordering data:

Type:	Item number:
V-8	50260100
V-14	50260200
V -83	50260800
V -140	50260500

Options:

Type:	Option:	Item number:
V-8, V-14, V-83, V-140	GSM module/3G modem for remote maintenance, modem for data transmission	51260000
	BUS module for Modbus or Profibus	51260010
	FlexFlow operating mode (flow control mode)	51260015
	FlexRay operating mode (dimming mode)	51260020
	Fill level, pressure level probe 0 to 0.4 bar 4 to 20 mA - indication of basin fill level	91260010
	Remote maintenance: visualisation for display on smartphone, tablet, laptop	51260035

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Spare parts:

Type: V-8	Item number:
UV lamp V-80 W / 34 W UVC capacity	90260010
Immersion tube for DOSALux V-8	90260310
UV sensor for DOSALux V	90260100
Masuring window for UV sensor for DOSALux V, MF01	90260110
Ballast for UV lamp V-80 W	90260210
Type: V-14	**Item number:**
UV lamp V-200 W short / 65 W UVC capacity	90260030
Immersion tube for DOSALux V-14	90260310
UV sensor for DOSALux V	90260100
Masuring window for UV sensor for DOSALux V, MF02	90260120
Ballast for UV lamp V-200 W / 65 W	90260230
Type: V-83	**Item number:**
UV lamp V-284 W short / 95 W UVC capacity	90260050
Immersion tube for DOSALux V-83	90260315
UV sensor for DOSALux V	90260100
Masuring window for DOSALux UV sensor for DOSALux V, MF02	90260120
Ballast for UV lamp V-284 W	90260250
Type: V-140	**Item number:**
UV lamp V-400 W / 140 W UVC capacity	90260070
Immersion tube for DOSALux V-140	90260335
DUV sensor for DOSALux V	90260100
Masuring window for UV sensor for DOSALux V, MF01	90260110
Ballast for UV lamp V-400 W	90260250

Connections and dimensions:

Type: / Parameters:	V-8:	V-14:	V-83:	V-140:
Flow rate at 80% Tr100:	8,08 m³/h	14,42 m³/h	83.8 m³/h	100 m³/h
Chamber material:	1.4404	1.4301		
Operating pressure:	16 bar	10 bar		16 bar
Diameter:	129 mm	168 mm	273 mm	
Installation width:	213 mm	351 mm	470 mm	465 mm
Installation height:	1170 mm			1745 mm
Height for lamp exchange:	2200 mm	2150 mm		3320 mm
Filling capacity:	11,2 l	19,3 l	52 l	84 l
Net weight:	8,2 kg	27,0 kg	55,0 kg	96,0 kg
Connections:	1 ½"	FL DN 65	FL DN 100	FL DN 150
Water temperature	+1 to +35 °C	+1 to +45 °C		
Ambient temperature:	+5 to +40 °C			
Power consumption:	92 W	220 W	890 W	1290 W
Number of lamps:	1		3	
Capacity:	80 W	207 W	284 W	400 W
UVC capacity	34 W	65 W	95 W	140 W
Power supply:	230 V/50 Hz			
Supply breaker:	13 A		16 A	
Internal breaker:	6 A		6/13 A	
Protection category:	IP 54			
Dimensions (controller):	420 x 310 x 150 mm		600 x 800 x 250 mm	
Control unit material:	Powder-coated steel			
Control unit weight:	8,7 kg	14.3 kg	27 kg	28 kg

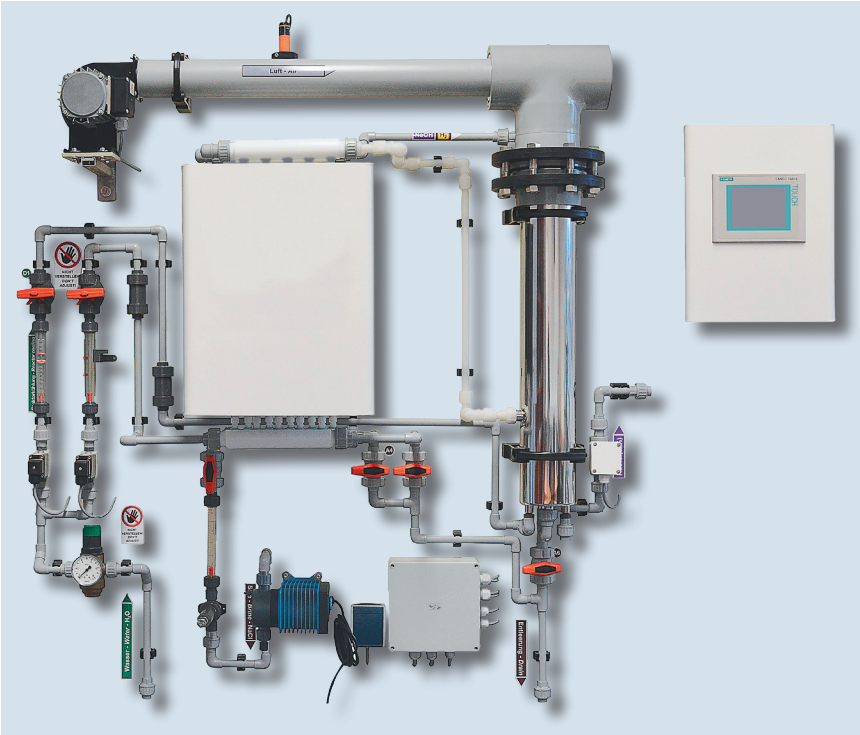
DOSATRONIC®
WATER MANAGEMENT

5. Disinfection systems

3.3. Electrolysis units

3.3.1. DOSA*Des* Membrane electrolysis

Demand-controlled and non-hazardous sodium hypochlorite production for disinfection of drinking water or pool water, for example, in a closed circuit – right on-site.



Product description:

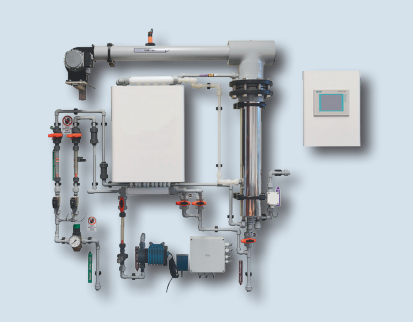
- Unit producing sodium hypochlorite (NaClO, disinfection agent)
- Fully automatic product production on site (storage in product reservoir onsite)
- Safe handling through closed system and low concentration
- Easy operator guidance
- Disinfectant production at low cost

Areas of application:

- Unit producing sodium hypochlorite (NaClO, disinfection agent)
- Fully automatic product production on site (storage in product reservoir onsite)
- Safe handling through closed system and low concentration
- Easy operator guidance
- Disinfectant production at low cost

Scope of supply:

- **DOSA*Des* Membrane electrolysis**:
  - Unit as shown above, or with adapted capacity
  - Sturdy mounting board (ready to be connected)
  - Control cabinet
  - Storage tank
  - Water softening unit



Process description:

- By means of electrolysis a sodium hypochlorite solution is produced from a sodium chloride soPlution made of softened water and standardised salt (in compliance with DIN 14808), the so-called brine, and again softened water. During this reaction, hazard-free base products (water and salt) dissociate by means of electrolysis to form chlorine, sodium chloride solution and hydrogen. The hydrogen is highly diluted and then discharged. Sodium hydroxide solution and chlorine react to form a 3 % sodium hypochlorite solution that is conducted to a product storage tank.

Ordering data:

Type:	Capacity: h g Cl_2/h	Capacity: d kg Cl_2/d	Item number:
Membrane electrolysis **200**	200	4.8	60196000
Membrane electrolysis **300**	300	7.2	60196010
Membrane electrolysis **400**	400	9.6	60196020
Membrane electrolysis **500**	500	12.0	60196040
Membrane electrolysis **1000**	1000	24.0	60196050
Membrane electrolysis **1500**	1500	36.0	60196060
Membrane electrolysis **2000**	2000	48.0	60196070
Membrane electrolysis **2500**	2500	60.0	60196080
Membrane electrolysis **3000**	3000	72.0	60196090
Membrane electrolysis **4000**	4000	96.0	60196100
Membrane electrolysis **5000**	5000	120.0	60196110
Membrane electrolysis **6000**	6000	144.0	60196120

Technical data:

Parameter: / Type:	Concentration: g Cl_2/l	Min. salt consumption: kg/h	Water consumption: l/h*	Inlet pressure: bar	Softening capacity: °dH	Net weight: kg	Footprint: m²	Operating temperature**: °C
200	25 … 30	0.42	~ 20	≥ 3	< 0.1	~ 150	~ 5	10 … 30
300		0.63	~ 30			~ 166	~ 5	
400		0.84	~ 40			~ 190	~ 5	
500		1.06	~ 50			~ 218	~ 6	
1000		2.15	~ 100			~ 362	~ 8	
1500		3.20	~ 150			~ 406	~ 10	
2000		4.25	~ 200			~ 444	~ 10	
2500		5.20	~ 250			~ 489	~ 12	
3000		6.25	~ 300			~ 658	~ 15	
4000		8.35	~ 400			~ 789	~ 18	
5000		10.55	~ 500			~ 878	~ 20	
6000		12.55	~ 600			~ 1170	~ 26	

(*Drinking water, 5 … 15 °C, softened, ** Valid for cooled sections. Uncooled sections can heat up to 55 °C.)

Technical data:

Parameter: / Type:	Energy consumption: kVA	Electrode voltage: VDC	Electrode current: ADC	Water consumption (cooling): liter	Water consumption (product): liter	Total water consumption: liter
200	2.4	8–10	80–0	~ 12	~ 8	~ 20
300	3.2	12–15		~ 18	~ 12	~ 30
400	4.2	16–20		~ 24	~ 16	~ 40
500	5.0	20–25		~ 30	~ 20	~ 50
1000	10.0	40–50		~ 60	~ 40	~ 100
1500	15.0	60–75		~ 90	~ 60	~ 150
2000	20.0	80–100		~ 120	~ 80	~ 200
2500	25.0	100–125		~ 150	~ 100	~ 250
3000	30.0	120–150		~ 180	~ 120	~ 300
4000	40.0	160–200		~ 240	~ 160	~ 400
5000	50.0	200–250		~ 300	~ 200	~ 500
6000	60.0	240–300		~ 360	~ 240	~ 600

All units

Electrolysis cells:	Half-life of the NACIO solution at: 15 °C	pH of the NaClO solution: pH	Max. sound pressure level: dB(A)	Exhaust air with hydrogen share: m^3	Operating pressure: bar
(all units)	> 4 days	~ 12	< 70	150	< 1

3.3.2. DOSA*active* Tube cell **Electrolysis Unit 30 – 200**

Capacity approx. 30–200 g/h. This modern system produces fresh, high-level disinfectant for the disinfection of drinking water or for upkeep of your swimming pool water using salt, water and electricity.

Product description:

- Use of chemically resistant and process-compatible materials such as titanium, PVC-U and LLDPE
- An LED display on the control unit indicates the operating mode
- Automatic mode
- Integrated softening unit
- The regeneration intervals of the integrated water softening unit vary depending on the hardness of the water used to fill the system
- Refill monitoring in the water softener
- Integrated brine tank and product tank
- Flow monitoring
- Backwater monitoring in the hydrogen line
- Closed hydrogen line to the outside (with a continuous incline)
- Service water inlet temperature: max. 25 °C
- min./max. room temperature: 10–0 °C
- ModBus (optionally available on request)
- Supply voltage: 230 V/50 Hz

Areas of application:

- Drinking water disinfection:
  - Municipal (German drinking water regulations TVO, Art. 11 UBA)
  - Drinking water supply on ships etc. (German drinking water regulations TVO, Art. 11 UBA)
- Water treatment:
  - Beverage industry, circuit water, process water, aquariums, fish farming, livestock breeding, wastewater, etc

Scope of supply:

- **DOSA*active* Tube cell Electrolysis Unit** (pre-assembled)
  - Integrated water softening unit, brine tank and product tank

Process description:

- A stable, storable sodium hypochlorite solution is produced on-site and manu-factured to stock using saline solution by electrolysis with an open cell design. All of the functional components such as the controller, brine pump, reactor tube, water distributor and hydrogen separator are mounted on a wall mounting plate made of polyethylene. The brine tank with integrated water softener and the product tank are erected separately. Extra-large tanks are optionally available. The system must be erected indoors or, if outdoors, in an enclosure. A separate operating room is not necessary, adequate ventilation of the in¬stallation room must be ensured. The provisions of Art. 19 of the WHG apply.

Ordering data:

Type:	Production capacity: g/chlorine/h	Concentration: g Cl_2/l	Water consumption*: l/h	Salt consumption**: g/h	Power consumption: Watt	Item number:
DOSA*active* 30	30	6 – 7	8	108	140	61177000
DOSA*active* 60	60		11	216	300	61177005
DOSA*active* 90	90		18	324	450	61177010
DOSA*active* 200	200		37	720	900	61177015

*Additional fresh water consumption for regeneration of the water softener. ** Additional salt consumption by the water softener

Additional technical data:

Type	Brine consumption: l/h	Cell current: A	Fuse right/left: A/mA	Product stock on site: l	Storage temperature: °C	Salt quality:	Servicing by specialised dealer:
DOSA*active* 30	0.38	17	6.3 A/ 400 mA	75	5 – 40	Use salt suitable for electrolysis	Yes
DOSA*active* 60	0.70						
DOSA*active* 90	1.20	25					
DOSA*active* 200	2.80	48					

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Mass and weight:

Type:	Operating weight: kg	Transport weight: kg	Space required for wall mounting: H x W x D (mm)
DOSA*active* 30	250	118	1212 x 772 x 195
DOSA*active* 60			
DOSA*active* 90			
DOSA*active* 200	295	150	