



03

# DOSING SYSTEMS




There are also experiences and moments in everyday life that we perceive as luxurious. For us, smart luxury represents a variety of aspects: As MIDAS, we value innovative technologies and products of outstanding quality and exclusivity. These include easy-to-use measuring and control units such as MIDA.Sin Profi with color touch displays, salt electrolysis/hydrolysis and a variety of expansion modules.

In addition to generating its own chlorine and precise dosing, the modern smart control unit enables the control of various functions such as pool heating, filtration, pump operation and lighting. These key functions ensure clean and clear water in your pool. The new membrane electrolyzers meet the continuing demand for professional and reliable water treatment. The trend towards pool managers using salt electrolysis or oxygen-based disinfection systems has established itself.

## OVERVIEW



		OVERVIEW + MEASURING & CONTROL UNITS	
NEW	P. 88	Dosing system MIDA.Sin Profi	
	P. 90	Dosing system MIDA.Sin Pro Oxygen	
	P. 92	Dosing system MIDA.Sin Pro	
	P. 94	Dosing system MIDA.Sin	
NEW	P. 96	pH dosing system and flocculation dosing station	
		SALT ELECTROLYSIS + OPTIONAL ACCESSORIES	
	P. 98	Salt electrolysis system MIDA.Sin Salt	
	P. 100	Salt electrolysis system MIDA.Sin Salt Easy	
	P. 102	Smart LAN pool control MIDA.Sin Pool	
	P. 104	Optional accessories & spare parts	
	P. 112	MIDA.Station	
	P. 114	MIDA.Oxi	
	P. 116	Optional accessories & spare parts	
	P. 120	MIDA.Low Salt	
	P. 122	MIDA.Salt	
	P. 124	Poolsalt & puffer solutions	
	P. 125	Water care products	
	P. 127	UV-C sterilization technology	



## QUICK OVERVIEW OF MEASURING AND CONTROL UNITS

STANDARD EQUIPMENT FOR MIDA.SIN Pro Oxygen,  
MIDA.Sin Pro, MIDA.Sin & MIDA.Sin Salt:



## COMPARISON TABLE

NEW

	MIDA.Sin Salt		MIDA.Sin Salt Easy	MIDA.Sin Pro Oxygen	MIDA.Sin Profi	MIDA.Sin Pro		MIDA.Sin		Mida.Sin Pool
	30063	30064	30020-E2	30062	30023	30060	30061	30016	30018	30010-E15
Procedure	Salt electrolysis			chlorine-free	Liquid chlorine					Control system
max. pool size	60/90 m³ *	60/90 m³ *	60/90 m³ *	250 m³	250 m³	250 m³	250 m³	250 m³	250 m³	-
Size Color touch display	5,7"	5,7"	-	5,7"	5,7"	5,7"	5,7"	3,5"	3,5"	-
Quantity Peristaltic metering pumps	2	2	-	4	-	4	4	2	2	-
pH measurement	✓	✓	-	✓	✓	✓	✓	✓	✓	-
Redox measurement (mv)	-	✓	-	-	✓	✓	-	✓	-	-
Free chlorine measurement (mg/l)	✓	-	-	-	✓	-	✓	-	✓	-
Salt measurement	✓	✓	✓	-	-	-	-	-	-	-
Measurement Water temperature	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
pH dosage	✓	✓	-	✓	✓	✓	✓	✓	✓	-
Chlorine dosage	-	-	-	-	✓	✓	✓	✓	✓	-
Algicide dosage	✓	✓	-	✓	-	✓	✓	-	-	-
Flocculation dosage	-	-	-	✓	✓	✓	✓	-	-	-
Oxygen dosage	-	-	-	✓	-	(✓)	(✓)	(✓)	(✓)	-
LAN connection	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
Filter control	✓	✓	-	✓	✓	✓	✓	-	-	✓
Backwash (Besgo)	✓	✓	-	✓	✓	✓	✓	-	-	✓
Heating control	✓	✓	-	✓	✓	✓	✓	-	-	✓
Level control	✓	✓	-	✓	✓	✓	✓	-	-	✓
Winter operation	✓	✓	-	✓	-	✓	✓	-	-	✓
Switching function Overflow channel / Floor drain (Besgo)	✓	✓	-	✓	-	✓	✓	-	-	✓

\*60 m3 for outdoor pools | 90 m3 for indoor pools



## GENERAL DESCRIPTION FOR MIDA.SIN PRO OXYGEN, MIDA.SIN PRO & MIDA.SIN SALT

- Compact measuring and control system with integrated probe holders and dosing pumps, 230 V, protection class IP30
- **Including** pool management system, controls the following components:
  - Filter pump (230 V via a socket attached to the device up to 1.4 kW) and frequency-controlled pumps (Speck, Pentair, Hayward, DAB E.Swim UWE, Aquagem), as well as 400 V via on-site relay
  - Backwash with Besgo bar valve 5-way
  - Heating control (heat pump, heat exchanger, electric heater)
  - Optional solar control (via Besgo bar valve or solar panel)
  - Level control (optional water level probe is required, see catalog page 104)
  - Economy circuit for overflow basins with Besgo 3-way bar valve (channel, basin)
  - Winter operation (optional air temperature thermometer required, see catalog page 107)
  - **NET included:** With LAN connection for remote retrieval of water values (no changes) via browser or app or external touch display (optional). Secure communication takes place without possible interference compared to WiFi connections. The Pool Live app displays the water values in real time, error messages and the fill levels of the tanks. The web application displays all parameters with clear graphics and a detailed history. The data is recorded for 30 days. An external 7" touch display for wall mounting to display the water values, temperature and humidity is optionally available, see catalog page 107.

### ALL ADVANTAGES AT A GLANCE!

- User-friendly, intuitive menu navigation via color touch display in 5.7"
- Simple installation and retrofitting possible with any existing system!
- **Including** flow monitor with pre-filter (safety shut-off if there is no flow)
- High-quality dosing pumps (max. 3.6 l/h) with minimal maintenance
- Measuring and controlling the pH value (pH- or pH+, with MIDA.Sin Pro Oxygen and MIDA.Sin Pro both possible at the same time)
- Additional dosing of algacide to support disinfection and prevent algae formation
- Additional dosing of flocculant for crystal clear water (only with MIDA.Sin Pro Oxygen and MIDA.Sin Pro)
- High-quality glass probes with a 2-year guarantee
- Additional safety devices (dosing time delay, overdosing, max. hourly dosing, pH changes that are too fast and max. dosing **without** feedback from the probe)

App view:



Browser view:\*





## DOSING SYSTEMS



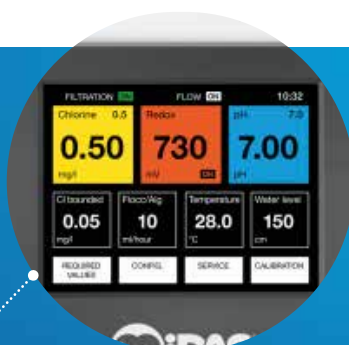
## MIDA.SIN PROFI

## ONE SYSTEM - MANY POSSIBILITIES

MIDA.Sin Profi is a state-of-the-art system, **specially designed for use in the public sector**, where the highest standards of control accuracy and compliance with hygiene standards apply. Equipped with a CLF probe for precise measurement of free chlorine, a redox probe, a pH probe and an optional CLT probe for total chlorine measurement, this device meets all water quality requirements.

It is perfectly suited for use with external dosing pumps. The device automatically regulates the water parameters within a predefined value range. You do not need to activate it manually - it works fully automatically. In addition to regulating the water parameters, filter control is also integrated, including for VS pumps, water level control and heating control.

NEW

EXKLUSIV  
MIDAS

Intuitive and colorful  
touch screen display



#30010-E6

The dosing hose pump is absolutely essential when installing the MIDA.Sin Profi. Diaphragm dosing pumps are also available on request for larger pools.

## Measurement:

- pH
- free chlorine
- Total chlorine
- REDOX potential
- Temperature
- Water level
- Time

## Regulation:

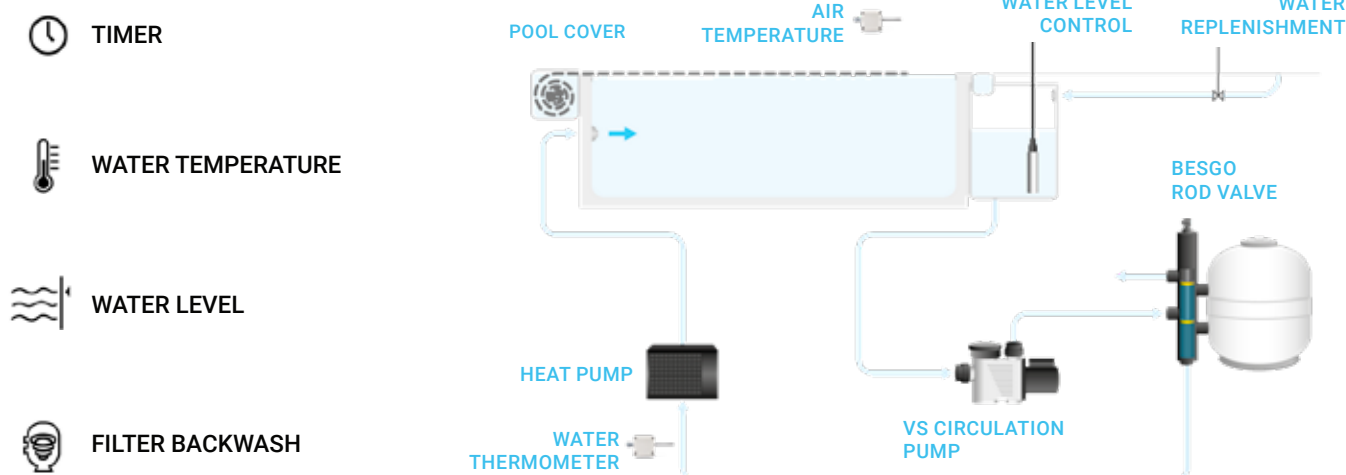
- pH
- Chlorine
- Temperature
- Water level

★ ★ ★  
**2 YEARS  
WARRANTY\***  
ON CLF PROBE

## KEY BENEFITS AT A GLANCE!

- ✓ Modern 5.7" touchscreen display
- ✓ Simple and intuitive operation
- ✓ Multilingual user interface (DE, CZ, GB, RUS, PL)
- ✓ Compact design
- ✓ Very simple installation
- ✓ Advanced safety functions
- ✓ Detection of the flow rate of the measured water
- ✓ LAN included
- ✓ Recording of the measured value

## POOL MANAGEMENT SYSTEM



## Aseko Web Services



### iPool LIVE App

Monitor your pool from anywhere in the world.

Allows you to retrieve all data for your pool regardless of location. You can activate a warning if the set limit values are exceeded. Communication takes place in real time.



### Pool LIVE iPool.aseko.com

For detailed monitoring of pool water parameters.

Clearly structured diagrams enable simple and precise monitoring of the water quality.



### Technical data

max. pool size	250 m <sup>3</sup>
Messwerte	pH, free chlorine, total chlorine, REDOX, temperature, water level, time
Regulated values	free chlorine, pH, temperature, level
max. consumption	35 VA
Power supply	230 V/50 Hz
Housing	Stainless steel V2A/AISI 304
Protection class	II
Fuse	T32 mA (2ks) T80 mA
Operating temperature	+5°C to +40°C
Installation	Wall mounting
Dosing pump capacity	60 ml/min., max. 1 bar
Protection class	IP50
Weight	5,5 kg

### Article

### Code

MIDA.Sin Profi+ NET pH/Redox/Chlor	30023
Dosing hose pump 3.6 l/h, 12 V	30010-E6



## DOSING SYSTEMS



### MIDA.SIN PRO OXYGEN

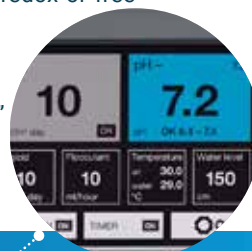
EXKLUSIV  
MIDAS



The chlorine-free water treatment with pH and oxygen which, in combination with algaecide and a special flocculant MIDA.Sin Floc+ #C0005 (see catalog page 125), ensures crystal-clear water that is kind to the skin. Particularly suitable for metal and stainless steel components in the pool if liquid chlorine is not required. The system can also be subsequently converted to chlorine dosing via redox or free chlorine.

Additional scope of delivery to the standard (see catalog page 104):

- 20 m measuring and dosing line PE 1/4"/6x4 mm with 4 injection valves 1/4"



Intuitive and colorful  
touch screen display



Socket for circulation pump  
230V, max 1.4 kW



Side view of the system  
Power supply 230 V/50 Hz

★ ★ ★  
**2 YEARS  
WARRANTY**  
ON THE PROBE

Robust and elegant housing  
made of stainless steel V2A/AISI 304





#30010-E59

## COAGULATION MIXER

Boosts the coagulation and flocculation reactions of Floc+ C and improves filtration performance

### iPool LIVE APP

Technical data	MIDA.Sin Pro Oxygen
max. pool size	250 m³
Display	farbiges 5,7" Touch-Display, 6 Sprachen (D, FR, GB, NL, RUS, CZ)
Power supply	230 V/50 Hz
max. consumption	24 VA
Dimensions	430 x 330 x 160 mm
Housing	Stainless steel V2A/AISI 304
Communication	LAN/RS485
Output control	Potential-free relay, max. 1A, max. 230 V (Besgo, solenoid valve, refill, heating relay)
Input	4-20 mA Sensor input
Pump connection	max. 1,4 kW/230 V AC
Circulation pump connection	max. 230 V/1 A, potential-free relay
Fuse	T800 mA, T160 mA, T6,3 A
Protection class	II
Protection class	IP30
Operating temperature	+5°C to +40°C
Installation	Wall mounting
Dosing pump capacity	60 ml/min., max. 1 bar
Sample water pressure	max. 1,5 bar
Weight	6,2 kg



## MIDA.SIN PRO



HIGH-QUALITY, EASY-TO-OPERATE DOSING SYSTEM  
POOL MANAGEMENT SYSTEM **INCLUDED!**

This liquid chlorine dosing system regulates the pH and chlorine value. The chlorine is regulated via the redox potential (mV) or the free chlorine content (mg/l). In addition, algicide and a special flocculant MIDA.Sin Floc+ #C0005 (see catalog page 125) are dosed for crystal clear water. The system can be switched between redox and free chlorine at any time and can continue to dose (disinfection ml/m<sup>3</sup>) even if the probe fails.

### CHLORINE VARIANT



★ ★ ★  
**2 YEARS  
WARRANTY**  
ON ASEKO PROBES\*

Additional scope of delivery  
to the standard  
(see from catalog page 104):

- Long Life Redox probe or membrane-covered chlorine probe chlorine measuring probe
- 20 m measuring and dosing line PE 1/4"/6x4 mm with 4 injection valves 1/4"



Robust and elegant housing  
made of stainless steel V2A/AISI 304



Intuitive and colorful  
touch screen display



**Our pool expert Klaus  
Hofmann talks about the  
MIDA.Sin Pro!**

## REDOX VARIANT



#30061



Side view of the system  
Power supply 230 V/50 Hz



Side view of the system  
Power supply 230 V/50 Hz



Side view of the system  
Power supply 230 V/50 Hz

Technical data	MIDA.Sin Pro
max. pool size	250 m <sup>3</sup>
Display	Color 5.7" touch display, 6 languages (D, FR, GB, NL, RUS, CZ)
Power supply	230 V/50 Hz
max. consumption	24 VA
Dimensions	430 x 330 x 160 mm
Housing	Stainless steel V2A/AISI 304
Communication	LAN/RS485
Output control	potential-free relay, max. 1A, max. 230 V (Besgo, solenoid valve, refill, heating relay)
Input	4-20 mA sensor input
Max. power consumption with filter pump	1.4 kW/230 V
Circulation pump connection	max. 230 V/1 A, potential-free relay
Fuse	T800 mA, T160 mA, T6,3 A
Protection class	II
Protection class	IP30
Operating temperature	+5°C to +40°C
Installation	Wall mounting
Dosing pump capacity	60 ml/min., max. 1 bar
Sample water pressure	max. 1,5 bar
Weight	6,7 kg

★ ★ ★  
**2 YEARS  
WARRANTY**  
ON ASEKO PROBES\*



**iPool LIVE APP**

**Monitor your pool  
anywhere in the world.**

Article	Code
MIDA.Sin Pro pH/Redox NET <b>including</b> solar function	30060
MIDA.Sin Pro pH/Chlor NET <b>including</b> solar function	30061



## MIDA.SIN POOL WATER TREATMENT

EXKLUSIV  
MIDAS

Compact measuring, control and dosing system for liquid chlorine with control of the pH value, as well as the chlorine value and dosing pumps. The chlorine value is controlled via the redox potential (mV) or the free chlorine content (mg/l).



The system can be switched between redox and free chlorine at any time and can continue to dose (disinfection ml/m<sup>3</sup>) even if the sensor fails. These systems do **not** include a pool management system.

### CHLORINE VARIANT



Intuitive and colorful  
touch screen display

ABS  
Plastic housing

★ ★ ★  
**2 YEARS  
WARRANTY**  
ON ASEKO PROBES\*

### Advantages:

- User-friendly, intuitive menu navigation via color touch display 3.5"
- Simple installation and retrofitting possible with any existing system
- **Including** flow monitor with pre-filter (safety shut-off if there is no flow)
- High-quality dosing pumps 3.6 l/h with minimal maintenance
- **Including** measurement of the water temperature
- Dosing of pH- or pH+
- The system can be switched between redox and free chlorine at any time and can continue to dose (disinfection ml/m<sup>3</sup>) even in the event of a probe failure
- High-quality glass probes with a 2-year guarantee\*
- Additional safety devices (dosing time delay, overdosing, max. hourly dosing, pH changes that are too fast and max. dosing without feedback from the probe)

## REDOX VARIANT

### Scope of delivery:

- Measuring and control device
- Long life probes pH and redox or pH and membrane-covered chlorine probe
- Electrical flow monitor **including** pre-filter
- Temperature sensor **including** immersion sleeve
- 15 m Measuring and dosing line PE ¼"/6 x 4 mm with 2 injection valves ¼"
- Reductions 50 mm x ¼" female thread for injection valves and sample water stopcocks 6 x 4 mm
- Suction feet for container removal
- Screws and wall plugs for wall mounting
- Extensive and detailed manual

Intuitive and colorful touch screen display



#30016

**NET included:** With LAN connection for remote retrieval of water values (no changes) via browser or app or external touch display (optional). Secure communication takes place **without** possible interference compared to WiFi connections. The Pool Live app displays the water values in real time, error messages and the fill levels of the tanks. The web application displays all parameters with clear graphics and a detailed history. The data is recorded for 30 days. An external 7" touch display for wall mounting to display the water values, temperature and humidity is optionally available.

Technical data	MIDA.Sin
max. pool size	250 m³
Display	Color 3.5" touch display, 6 languages (D, FR, GB, NL, RUS, CZ)
Power supply	230 V/50 Hz
max. consumption	14 VA
Dimensions	290 x 240 x 115 mm
Housing	ABS Plastic
Communication	LAN
Fuse	T80 mA
Protection class	II
Protection class	IP50
Operating temperature	+5°C to +40°C
Installation	Wall mounting
Dosing pump capacity	60 ml/min., max. 1 bar
Sample water pressure	max. 1 bar
Weight	2,2 kg

Article	Code
MIDA.Sin pH/Redox NET	30016
MIDA.Sin pH/Chlor NET	30018
MIDA.Sin pH/Redox <sup>1)</sup>	30015
MIDA.Sin pH/Chlor <sup>1)</sup>	30017

★ ★ ★  
**2 YEARS  
WARRANTY**  
ON ASEKO PROBES\*



### iPool LIVE APP

Monitor your pool  
anywhere in the world.



## PH DOSING SYSTEM

NEW

Compact unit for automatic measurement and control of the pH value according to the set target value with color touch display, glass probe, integrated dosing pump 60 ml/min. (3.6 l/h), as well as 10 m measuring and dosing line 1/4", measuring water shut-off valves and injection valve, easy installation and simple operation via 4 buttons, for wall mounting, **including** safety shut-off, for pools from 1-250 m³ and whirlpools, 230 V/50Hz, protection class IP30



DESIGN 2024



Article

Code

pH dosing system

30019-T

\* The service life can be influenced by water hardness, soiling and temperature, etc.



## FLOCCULATION DOSING STATION

**NEW**

Effective coagulation and flocculation can only be achieved by continuous dosing, which makes the smallest particles filterable. This device is designed for dosing MIDA.Sin Floc+ #C0005 (see catalog page 125). However, all other liquid agents can also be dosed in a controlled manner. **Including** color touch display with setting of the dosing quantity, integrated dosing pump 10 ml/min. (0.6 l/h), as well as 10 m dosing line ¼" and injection valve, for wall mounting. Can be used as a supplement to MIDA.Sin and MIDA.Sin Salt, for pools from 1-250 m³, 230 V/50Hz, protection class IP50.

DESIGN 2024



#30013-T

Article	Code
Flocculation dosing station	30013-T



## SALT ELECTROLYSIS SYSTEM



### MIDA.SIN SALT

SALT WATER TREATMENT & POOL MANAGEMENT

EXKLUSIV  
MIDAS



Advanced salt electrolysis system (2-4 g/l salt content) with pH control and chlorine production, which is controlled via the free chlorine content (mg/l) or the redox potential (mV). In addition, algaecide can be dosed to support disinfection and prevent algae formation. The system also permanently displays the salt content (kg/m³), not just when it is too low.

The service life of the self-cleaning electrolytic cell is approx. 8,000 operating hours\*\* (vertical or horizontal installation). (vertical or horizontal installation). The rectifier is automatically cooled via the sample water supply to prevent the system from overheating.

#### REDOX VARIANT



Intuitive and colorful  
touch screen display



Robust and elegant  
Stainless steel housing  
V2A/AISI 304

★ ★ ★  
**2 YEARS  
WARRANTY**  
ON ASEKO PROBES\*

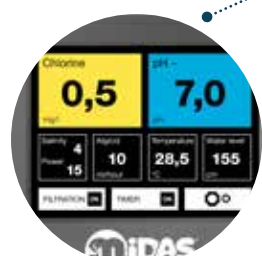
Additional scope of delivery to the standard  
(see from catalog page 104):

- Salt electrolyzer with electrolytic cell
- Membrane-covered long-life chlorine probe or long-life redox probe
- Conductivity probe integrated in the flow monitor, for measuring the salt content in kg/m³
- 15 m measuring and dosing line PE ¼"/6 x 4 mm with 2 injection valves ¼"

#### PLEASE NOTE:

We generally do not recommend the use of salt electrolysis and hydrolysis in conjunction with stainless steel components. However, corrosion can be reduced or even avoided if an optional sacrificial anode (see catalog page 110) is installed.

## CHLORINE VARIANT

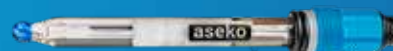


Intuitive and colorful touch screen display



#30064

Side view of the system  
Power supply 230 V/50 Hz



Socket for circulation pump 230V,  
max 1.4 kW



Technical data	MIDA.Sin Salt
max. pool size outer pool	60 m³
max. pool size inner pool	90 m³
Display	Color 5.7" touch display, 6 languages (D, F, GB, NL, RUS, CZ)
Power supply	230 V/50 Hz
max. consumption	190 VA
Dimensions	450 x 330 x 190 mm
Housing	Stainless steel V2A/AISI 304
Communication	LAN/RS 485
Output control	Potential-free relay, max. 1A, max. 230 V (Besgo, solenoid valve, heating relay)
Input	4-20 mA sensor input
Chlorine production at 4 % salt content	max. 25 g/h
Operating hours of the electrolytic cell	approx. 8,000 hours
Max. power consumption with filter pump	14 49 VA
Pump connection	max. 1,4 kW/230 V
Circulation pump connection	max. 230 V/1 A, potential-free relay
Fuse	T800 mA, T125 mA, T6,3 A
Protection class	II
Protection class	IP30
Operating temperature	+5°C to +40°C
Installation	Wall mounting
Dosing pump capacity	60 ml/min., max. 1,5 bar
Sample water pressure	max. 1,5 bar
Weight	10 kg

★ ★ ★  
**2 YEARS WARRANTY**  
ON ASEKO PROBES\*



### iPool LIVE APP

Monitor your pool  
anywhere in the world.

Article	Code
MIDA.Sin Salt pH/Redox NET <b>including</b> solar function	30064
MIDA.Sin Salt pH/Chlor NET <b>including</b> solar function	30063



MIDA.SIN SALT EASY  
SALT WATER TREATMENT

EXKLUSIV  
MIDAS



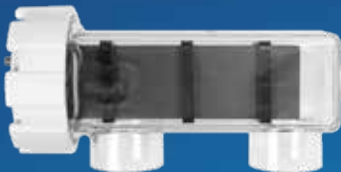
This system can be used as an extension to MIDA.Sin Salt #30063 and #30064 or as a stand-alone electrolysis system. The extension is controlled via the MIDA.Sin Salt. The maximum pool size can be increased by up to 60 m³ for outdoor pools and 90 m³ for indoor pools. 2-wire connection cable between Mida.Sin Salt and Mida.Sin Salt Easy optionally available (see below). This system can also be installed as a stand-alone, unregulated unit. In this case, the system operates according to the percentage output settings (10-100%), which means that manual control of the chlorine content is necessary.

**Including** electrolytic cell 25 g/h and flow monitor with pre-filter.  
**Including** display of the production output in g/h and display of the salt content (low, 2-5 kg/m³) or error message if there is no water flow.

230 V/50Hz, Protection class IP30

Operating temperature:  
+5 bis +40°C

Weight:  
5,5 kg



Article	Code
MIDA.Sin Salt Easy	30020-E2

**PLEASE NOTE:**  
We generally do not recommend the use of salt electrolysis and hydrolysis in conjunction with stainless steel components.  
However, corrosion can be reduced or even avoided if an optional sacrificial anode (see catalog page 110) is installed.



CONNECTION CABLE

2-wire connection cable between MIDA.Sin Salt and MIDA.Sin Salt Easy

Article	Code
Connection cable	30020-E7



#30020-E7





## MIDA.SIN POOL

### SMART LAN POOL CONTROL VIA APP

EXKLUSIV  
MIDAS



MIDA.Sin Pool is a perfect extension to the MIDA.Sin NET dosing system, which can be connected directly to the control unit to enable intelligent pool control via app (no change of water values possible). **Includes** module for 4 additional relays for further connections, such as roller shutters, attractions, garden lighting, etc. Pre-installed in the control box, simple installation on the wall. **Without** connection accessories, e.g. thermometer, level probe, Besgo valves, solenoid valve, circulation pump, etc. Connection with iPool Live possible, so that pH and chlorine values are also displayed in the iPool Remote app, clicking on the values switches directly to the iPool Live app. Connection to the network via LAN - Aseko Pool Remote app.

- RCD 16 A / 30 mA
- Circulation pump Circuit breaker 10 A, relay 2.3 kW
- Light / Accessories Circuit breaker 6 A, relay 0.8 kW
- Dimensions:

**Height** 460 mm

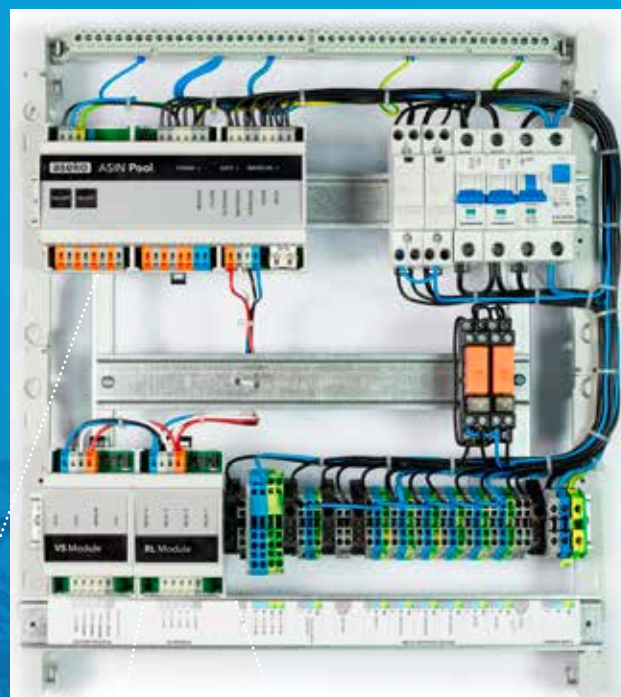
**Width** 430 mm

**Depth** 155 mm

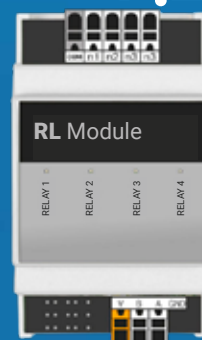
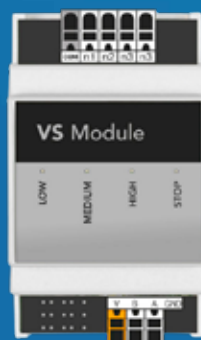
230 V / 50 Hz, Protection class IP50

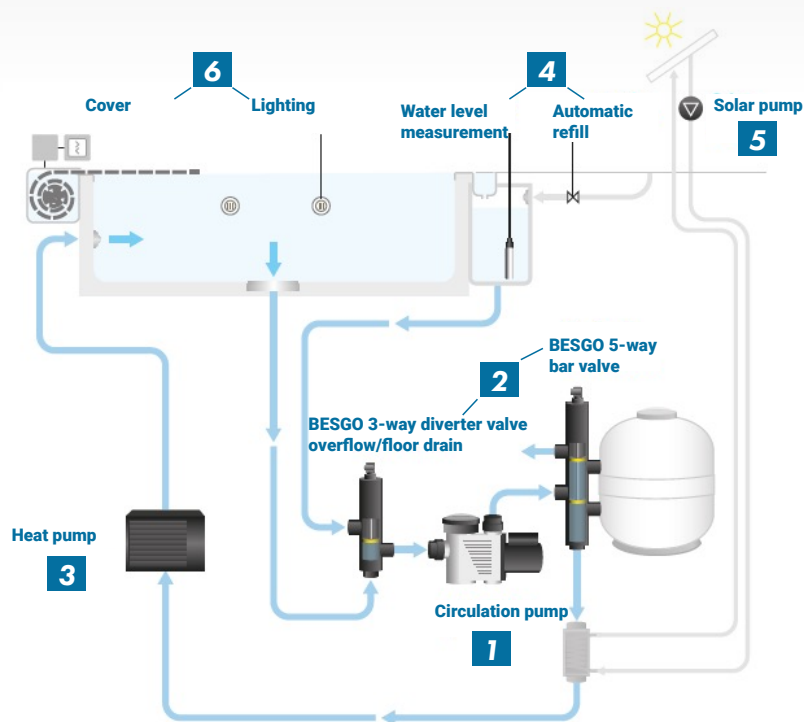


Switch box  
Front view



Switch box  
Interior view





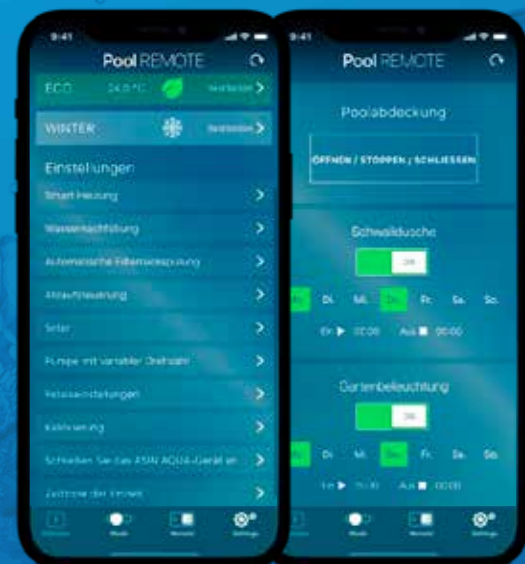
## MIDA.SIN POOL - FUNCTIONS

- 1 Filter control via on/off/timer** as well as selection of stages 1,2,3/stop with freely adjustable filter times for VS pumps Speck, DAB, Pentair, Hayward/Kripsol, UWE
- 2 Backwash** The backwash function is controlled by a 5-way Besgo rod valve. If a 3-way Besgo is connected to the floor drain, backwashing takes place via this floor drain to avoid the risk of the circulation pump running dry with Slim Line skimmers.
- 3 Heating control:** There are several ways to control the heating, e.g. (time window, outside temperature and priority switching).
- 4 Water level control** with measurement of 4 water levels and automatic refilling
- 5 Solar** - Activates the circulation and solar pump (max. 1 A) when the set solar temperature is reached
- 6 Lighting or cover** - switches the VS circulation pump to level 1 when the roller shutter is closed)



## SMARTE POOLSTEUERUNG PER POOL REMOTE APP

Numerous setting options



4 operating modes (Party, Auto, Eco, Winter) can be set individually via filter run times and water temperature

<b>OFF</b>	<b>Everything STOP</b> Switch everything off	<b>AUTO</b>	<b>Automatic heating mode</b> Automatic mode with optional superordinate heating function
<b>ON</b>	<b>Nonstop filtration Heating OFF</b> Filter operation runs continuously, Heating is off	<b>ECO</b>	<b>Heating economy mode</b> Eco mode with heating function
<b>PARTY</b>	<b>Nonstop filtration Heating ON</b> Filter operation runs continuously, Heating is on	<b>WINTER</b>	<b>Frost protection mode</b>

Article	Code
MIDA.Sin Pool; height 460 mm, width 430 mm, depth 155 mm	30010-E15



## OPTIONAL ACCESSORIES AND SPARE PARTS

FOR ALL SYSTEMS ON PAGE 88 - 99



## EXTERNAL 7" TOUCHSCREEN DISPLAY

High-quality display for remote access to water values, water and air temperature and humidity. The circulation pump and backwash can also be started and stopped. Calibration of the water values and air temperature and humidity is also possible. Compatible with all systems **including** LAN connection, connection with cable 4 x 0.5 mm<sup>2</sup> (not included) via the RS485 connection (max. length 100 m) Dimensions: 253 x 1668 x 39 mm, **including** plugs and screws, not waterproof (IP 40)

Article	Code
Externes Touchscreen-Display	30010-E10



#30010-E10



## PRESSURE WATER LEVEL PROBE

This hydrostatic water level meter is compact with strain gauges. Material: Teflon (PTFE)/ceramic. For installation in the splash water tank, roller shutter shaft or vertical empty pipe leading from the pool. 4 measurements: Pump off, make-up on, make-up off, backwash on. The measuring range is specified at the factory between 5 - 200 cm, cable length: 4.0 m, but can be extended up to 100 m.

Article	Code
Pressure water level probe	30010-E12



#30010-E12



## LEVEL FLOAT SWITCH

Simple float switch for activating and deactivating the water make-up, also suitable for retrofitting. No update to existing systems is required. Simple installation in the skimmer with mounting bracket possible. Material: Stainless steel V4A/AISI 316

Cable length: 30 cm, but can be extended up to 100 m.

Article	Code
Level float switch	30010-E67



#30010-E67



## PROBE SIMULATOR

Simulates the measuring probe and can be connected directly to the measuring cable. The source of errors in the event of incorrect water values can thus be checked quickly.

Can be used for the following probes:

- pH
- Redox
- Free chlorine (CLF)

Article	Code
Probe simulator	30010-E66



#30010-E66

## PROBES LONG LIFE



Article	Code
ASEKO pH Long Life quality glass probe*	30010-E1
ASEKO Redox Long Life quality glass probe*	30010-E2
Redox glass probe for salt electrolysis*	30020-E5
ASEKO Redox Gold Long Life quality glass probe for salt electrolysis*	30020-E9
ASEKO Chlorine Long Life Membrane Probe made of titanium, silver and stainless steel*	30010-E3

\*The service life can be influenced by water hardness, soiling and temperature, etc.

\*\*Warranty only applies to 30010-E1, 30010-E2, 30010-E3 and 30010-E9

Suitable buffer solutions for testing and calibrating can be found on page 124 in the catalog.

### TECHNICAL DATA

Description	pH	Redox	free chlorine (CLF)
Probe type	Glass	Glass	Titanium-stainless steel/silver/PET
Measuring range	4-9 pH	0-1000 mV	0-5 mg/l
Measuring accuracy	0,1 pH	1 mV	0-3 mg/l
Material	Ag/Cl	Ag/Cl	Ag/Pt
Probe holder	PG 13,5	PG 13,5	PG 13,5
Additional equipment	-	-	-
Cables	-	-	-
Plug	SN6/S7	SN6/S7	SN6/S7

## PROBE CABLE

Connection to SN6/S7, 30 cm cable

Article	Code
Probe cable	30010-E41



#30010-E41

\*\*The service life can be affected by water hardness, soiling and temperature, etc. The membrane cap (only for CLF probe #30010-E3) is a wearing part.



## STORAGE CONTAINER

Including stand for pH/redox probes for storage/winter storage

Article	Code
Storage container	30010-E49



#30010-E49



## KCl SOLUTION

Storage liquid for probes, 50 ml

Article	Code
KCl solution	102030-E17



#102030-E17



## MEMBRANE CAP

80 mm, for CLF probe (free chlorine)

Article	Code
Membrane cap	30010-E21



#30010-E21



## ELEKTROLYT

for CLF probe (free chlorine)

Article	Code
Electrolyte	30010-E33



#30010-E33



## HOLDER AND KEY FOR PROBES

Probe holder connection Tube 6.2 x 1 mm, **including** PG 13.5 screw connection

Article	Code
Key for probes	30010-E39
Probe holder	30010-E35



#30010-E35



#30010-E39



## PE SAMPLE WATER AND DOSING LINE

¼" x 6,35 mm

Article	Code
PE sample water and dosing line 10 m	30010-E5
PE sample water and dosing line 150 m	30010-E5-150



#30010-E5



## SUCTION VALVE

for the suction line in the tank

Article	Code
Suction valve	30010-E25



#30010-E25



## REPLACEMENT DOSING HOSE PUMP

Article	Code
Front cover including hose, without motor	30010-E40
Replacement dosing hose pump 12 V, 3.6 l/h, for MIDA.Sin Pro Oxygen, MIDA.Sin Pro, MIDA.Sin and MIDA. Sin Salt	30010-E9
Replacement dosing hose pump 12 V, 0.6 l/h, for flocculation, MIDA.Sin Pro and MIDA.Sin Pro Oxygen	30010-E91



30010-E40

#30010-E9/#30010-E91



## DOSING PUMP HOSE

Replacement dosing pump hose made of LDPE, resistant to acids and chemicals, **including** sleeve and silicone lubricating grease. Material: Pharme

Article	Code
Dosing pump hose	30010-E8



#30010-E8



## THERMOMETER

for air, solar **and** water temperature, PT 1000, cable length: 3 m.

Article	Code
Thermowell 1/4"	30010-E29
Thermometer	30010-E47

For systems from 2021



#30010-E47

#30010-E29



## THERMOMETER LUFTTEMPERATUR

Required for the winter mode function, **without** cable, electronic temperature sensor with 4 - 20 mA output.

Spare part for systems until the end of 2020

Article	Code
Thermometer air temperature	30010-E11



#30010-E11

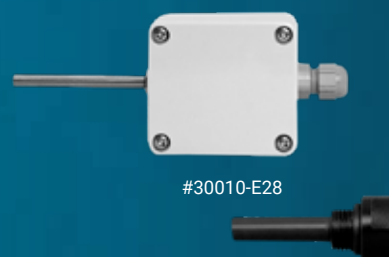


## THERMOMETER WATER TEMPERATURE

For water temperature including immersion sleeve 1/4".

Spare part for systems until the end of 2020

Article	Code
Thermometer including thermowell 1/4"	30010-E28



#30010-E28



## 2/2-WAY SOLENOID VALVE 1/2"

- 230 V/50Hz
- For automatic fresh water replenishment
- Servo-controlled diaphragm valve
- Spring-coupled diaphragm opens **without** differential pressure
- Soft-closing and low-noise
- High flow rate with compact design
- Energy-saving dual coil technology in kick and drop design
- Material: brass, seal: NBR

Article	Code
2/2-way solenoid valve 1/2"	30010-E52



#30010-E52



## COAGULATION MIXER

The coagulation mixer is a static mixer for cavitating the water and injecting Floc+ flocculant. It enhances the coagulation and flocculation effect for the conversion of dissolved particles into filterable substances. Made of plastic, with transparent tube, suitable for MIDA.Sin Pro Oxygen (see catalog page 90) and MIDA.Sin Pro (see catalog page 92)

Article	Code
Connection: d50/DN40	30010-E59
Connection: d63/DN50	30010-E60



#30010-E59/#30010-E60



## ADHESIVE PLUGS

d50mm -1/4" female thread, for tapping ball valve and injection valve

Article	Code
PVC reduction 1/2" AG x 1/4" IG	30010-E26
Adhesive plugs	30010-E19



#30010-E19



#30010-E26



## VACCINATION VALVE 1/4" AG

For the injection of water care products

Article	Code
Replacement diaphragm for 1/4" injection valve	30010-E42
Injection valve 1/4"	30010-E4



#30010-E4



#30010-E42



## EXTRACTION BALL VALVE 1/4"

Material: PP, for the sample water line

Article	Code
Extraction ball valve 1/4"	30010-E24



#30010-E24



## ELECTRONIC FLOW SWITCH WITH FILTER

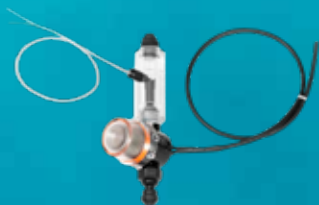
**NEW**

#30020-E27

Allows you to visually check the sample water of the probes.  
Error message in the event of insufficient flow to the probes.  
Prevents incorrect measurements and incorrect dosing.  
Pre-filter **included**



#30010-E55



#30020-E27



#30010-E27



#30010-E36



#30010-E37



#30010-E38

Article	Code
Sealing	30010-E37
Strainer	30010-E36
Cap with strainer and seal	30010-E38
Sample water filter with housing for flow monitor	30010-E55
Flow switch <b>including</b> pre-filter	30010-E27
Flow switch <b>including</b> pre-filter for salt electrolysis	30020-E27



## ELECTRONIC FLOW SWITCH WITH FILTER

**NEW**

fromw 2024  
#30020-E28

Allows you to visually check the sample water of the probes.  
Error message in the event of insufficient flow to the probes.  
Prevents incorrect measurements and incorrect dosing.  
Pre-filter **included**.

For systems from 2023



#30010-E71



#30020-E28



#30010-E68



#30010-E69



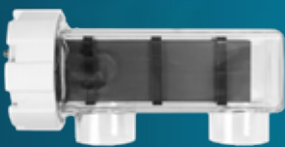
#30010-E70

Article	Code
Sealing	30010-E70
Strainer	30010-E69
Cap with strainer and seal	30010-E71
Flow switch <b>including</b> pre-filter	30010-E68
Flow switch <b>including</b> pre-filter for salt electrolysis	30020-E28



ELECTROLYTIC CELL

Made of titanium with iridium-ruthenium coating, chlorine production of 25 g/h at 0.4 % salt content, approx. 8,000 operating hours\*



#30020-E1



#30020-E11



#30020-E4

Article	Code
Housing	30020-E4
Electrolytic cell <b>without</b> housing	30020-E11
Electrolytic cell <b>with</b> housing	30020-E1



SACRIFICIAL ANODE

EXKLUSIV  
MIDAS

½" sacrificial anode for corrosion protection of stainless steel installation parts, especially for salt electrolysis, material: zinc, in 50 mm or 63 mm PVC, with T-piece

PLEASE NOTE:

We generally do not recommend the use of salt electrolysis and hydrolysis in conjunction with stainless steel components. However, corrosion can be reduced or even avoided if an optional sacrificial anode is installed.

Article	Code
Sacrificial anode 50 mm with adhesive sockets	OA-50
Sacrificial anode 63 mm with adhesive sockets	OA-63



#OA-50/#OA-63



INJECTION SECTION TRANSPARENT

NEW

The transparent injection section has 4x internal threads ¼" for the installation of injection valves and an adhesive connection of 50 mm inside / 63 mm outside. The unused threads should be closed with a plug including O-ring # 30010-E58.

Article	Code
Injection section	30010-E82





## MIDA.SIN SERVICE CASE

EXKLUSIV  
MIDAS



Dosing Systems

03



#30010-E30

### MIDA.Sin service case contains:

- 1x electronic flow switch **including** pre-filter # 30010-E28
- 1x front cover for dosing pump **including** pump hose # 30010-E40
- 4x dosing pump hose # 30010-E8
- 1x probe holder # 30010-E35
- 1x injection valve # 30010-E4
- 4x diaphragm for injection valve # 30010-E42
- 3x speedfit connection  $\frac{1}{4}$ " sample water line # 30010-E62
- 2x plug  $\frac{1}{2}$ " # 30010-E58
- 1x foot for suction line # 30010-E25
- 2x storage container for pH/Rx probes # 30010-E49
- 1x storage liquid for pH/Rx probes
- 1x key for probes # 30010-E39
- 4x O-ring for probes 11.6 x 2.3 mm
- 1x buffer solution Redox 650 mV
- 1x buffer solution pH 4.01
- 1x buffer solution pH 7.00
- 1x buffer solution pH 9.21
- 1x fine-wire fuse T800 mA (for MIDA.Sin Pro Oxygen, MIDA.Sin Pro, MIDA.Sin Salt) # 30010-E53
- 1x fine-wire fuse T80 mA (for MIDA.Sin, pH dosing system)
- 1x fine-wire fuse T1.6 A (for MIDA.Sin Salt, MIDA.Sin Salt Easy)
- 1x fine-wire fuse T125 mA (for MIDA.Sin Pro Oxygen, MIDA.Sin Pro)
- 1x fine-wire fuse T8 A (for MIDA.Sin Salt)

Article	Code
MIDA.Sin Service case	30010-E30



## MEASURING AND CONTROL UNIT



### MIDA.STATION

MIDA.Station serves as a complete pool control system that doses chemicals for pools to keep the water in the pool in perfect condition. The system measures and controls the water quality with maximum accuracy and reliability, controls the temperature, filtration periods, pool lighting and automatically makes the necessary adjustments. Includes 3 additional relays (e.g. pool covers, heat pumps).

Easy to install in all pool systems. The MIDA.station is upgraded by adding the measurement and control of up to 4 water parameters (pH, redox, free chlorine, conductivity). Further upgrading is also possible after purchase with "upgrade sets". Coaxial cable with BNC connector. Probes are interchangeable. 230 V, protection class IP54.

#### Controls all components, e.g.:

- ✓ Filter pump 230 V, as well as 400 V and frequency-controlled pumps via on-site relay
- ✓ Lighting
- ✓ Besgo bar valve
- ✓ Counter-current system
- ✓ Heat pump
- ✓ Pool cover



#### Scope of delivery:

- 1 pH module (pH probe and mounting accessories)
- 1 redox module (redox probe and mounting accessories)
- 4 x buffer solution: neutral, pH 7, pH 10, 468 mV redox
- 2 dosing hose pumps 1.5 l/h
- Electronic control for filter, lighting, temperature
- 4 additional analog outputs
- Including pre-installation for remote control and MODBUS
- Standard: PVC probes (optional glass)
- Probe holder PVC T-piece 50 x 1 1/2" IG
- Dosing hose
- Injection valves 1/2"AG



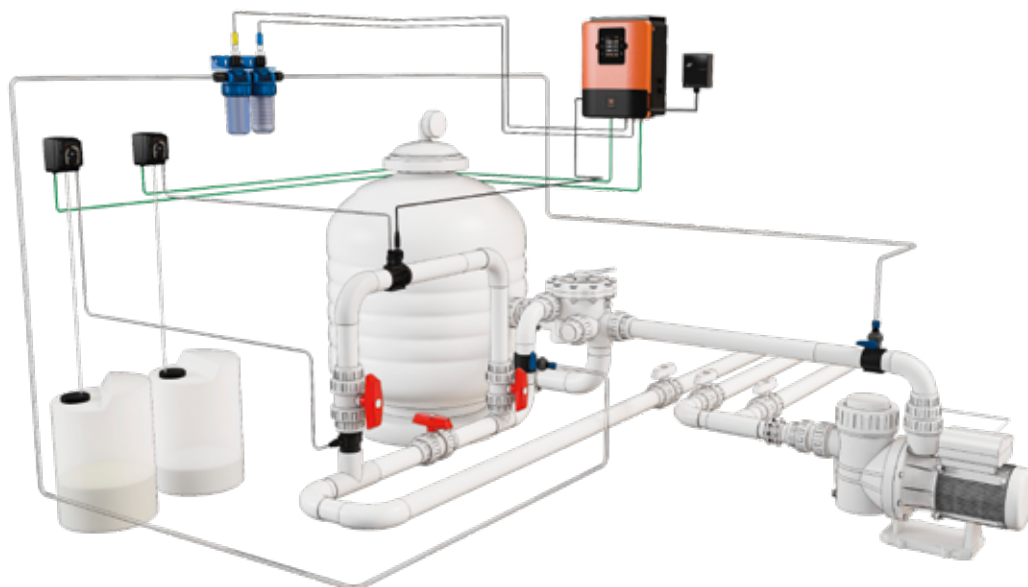
## INSTALLATION

- B** Filter
- C** Circulation pump (230 V, 400 V, frequency-controlled)
- 1** Electronics box
- 4** pH probe (optional - model with pH control)
- 5** Redox probe (optional - model with redox control)
- 6** Conductivity probe (optional - model with conductivity control)
- 8** Dosing hose pump (optional - model with pH control)
- 8** Injection valve (optional - model with pH control)
- 10** Acid container (optional - model with pH control.  
Not included in the scope of delivery)
- 15** Other elements for the swimming pool
- 16** RF, RF/WIFI or WIFI module
- 17** Free chlorine control



## MIDA.STATION PRO

Version as MIDA.Station, but with pH Pro and Redox Pro connection sets, **including** Swiss quality glass probes and separate sample water tank, see from catalog page 116.



Description	MIDA.Station, MIDA.Station Pro
Display*	color display, (9 languages: D, GB, F, CZ, E, P, I, TR, NL)
Power supply	230 V 50/60 Hz
Output	no
max. consumption	40 W
Dimensions	270 x 220 x 115 mm
Electronics box	non-flammable plastic ABS, black
Front cover	Plastic ABS, orange
Electronics	Microprocessor 32 bit
Ventilation	-
Hourly recording	Yes, can be reset by the customer
Alarms	pH dosing/max. pH dosing time/memory error
Communication	MODBUS/WIFI
230 V output control (3 outputs)	Acid pump/relay AUX 1/relay AUX 2
Potential-free output control (4 outputs)	Filtration/lighting/heating (AUX 4)/relay AUX 3
Inputs	2 analog input signals

Article	Code
MIDA.Station	102030
MIDA.Station Pro	102031

# SALT ELECTROLYSIS/HYDROLYSIS UNIT

## MIDA.OXI

This device is a water treatment system, AS WELL AS a control unit for swimming pools. This water treatment system combines low salinity electrolysis with hydrolysis. Low salinity electrolysis produces chlorine on the basis of very slightly salty water (from 1.5g of salt per liter). Hydrolysis produces disinfectants such as oxygen, peroxide, hydroxyl and ozone.

**With the pH and redox control options, the device becomes a fully automatic measuring and control unit.**

- **Including** dosing hose pump 1.5 l/h
- **Including** integrated pH proportional control (from version 3.46)
- Standard: PVC probes (optional glass)
- Cell service life: approx. 5,000 operating hours\* (guarantee)
- Probe warranty: 6 months,
- Max. operating pressure: 7 bar
- The display is connected to the system with a cable and can be removed.
- 230 V, protection class IP54.
- **Inklusive Including** flow switch, therefore horizontal & vertical installation possible

All these oxidants fight and eliminate organic matter and pathogens in the water. The used chlorine turns back into salt in the pool and the oxidants from the hydrolysis process turn back into water on their way back into the pool. The device centrally controls all pool components and guarantees efficient interaction. Coaxial cable with BNC connector. Probes are interchangeable.



### Controls all components, e.g:

- ✓ Filter pump 230 V, as well as 400 V and frequency-controlled pumps via on-site relay
- ✓ Lighting
- ✓ Besgo bar valve
- ✓ Counter-current system
- ✓ Heat pump
- ✓ Pool cover

### PLEASE NOTE:

We generally do not recommend the use of salt electrolysis and hydrolysis in conjunction with stainless steel components. However, corrosion can be reduced or even avoided if an optional sacrificial anode is installed.

## INSTALLATION

- B** Filter
- C** Circulation pump (230 V, 400 V, Frequency-controlled)
- 1** Electronics box
- 3** Electrolytic cell (always in vertical position, installed at the highest point and with bypass)
- 4** pH probe (optional - model with pH control)
- 5** Redox probe (optional - model with redox control)
- 6** Conductivity probe (optional - model with conductivity control)
- 8** Dosing hose pump (optional - model with pH control)
- 9** Injection valve (optional - model with pH control)
- 10** Acid container (optional - model with pH control. *Not included in the scope of delivery*)
- 15** Other elements for the swimming pool
- 16** RF, RF/WIFI or WIFI module

Optionally available with pH Pro and Redox Pro connection sets **including** Swiss quality glass probe and separate sample water tank. **Recommendation:** Installation **including** temperature module, bypass and earthing set. (see from catalog page 116)



Description	MIDA.Oxi 1	MIDA.Oxi 2	MIDA.Oxi 3
Use	Private pools		
Intensity	0 - 100 %		
Salt concentration	1.5 g per liter		
Chlorine production with 1.5 g salt	14 g/h	20 g/h	30 g/h
m³ Pool (up to 28°C)*	59 m³	95m³	155 m³
m³ Pool (from 28°C)*	47 m³	76 m³	124 m³
m³ pool (from 28°C+ children)	39 m³	63 m³	103 m³
Display*	color display, (9 languages: D, GB, F, CZ, E, P, I, TR, NL)		
Energy supply	230 V 50/60 Hz		230 V 50/60 Hz
Output	8 - 13 A	8 - 25 A	8 – 35 A
Max. power consumption	120 W	200 W	400 W
Dimensions	270 x 220 x 115 mm		
Electronics box	fireproof plastic ABS, black		
Front cover	ABS plastic, green		
Protection class	IP54		
Electronics	Microprocessor 32 bit		
Intensity control	Ampere + Volt		
Ventilation	Natural convection		
Automatic cleaning	programmable 1 - 24 hours		
Flow switch	Gas sensor		
Operating hours counter	Yes		
Disinfection control	from 0 - 100 %		
Alarm	Insufficient salt/no flow/pH measurement/pH extremely high or low/ pH max. measuring time/communication error		
Test salinity	–		
Production control through pool cover	programmable 0 - 100 %, production of disinfection depending on pool cover (open or closed)		
Production control via external signal	–		
Communication	MODBUS/WIFI		
230 V output control (3 outputs)	Acid pump/relay AUX 1/relay AUX 2		
Potential-free output control (4 outputs)	Filtration/lighting/heating (AUX 4)/relay AUX 3		

\* with a filter run time of at least 8 hours (if there are several users per day or a shorter filter run time, the required chlorine production should be adjusted together).

#### PRIVATE POOLS: MAX. POOL SIZE UP TO 59 M<sup>3</sup>

Article	Code
Oxi 1	110000
Oxi 1 pH	112000
Oxi 1 pH/Rx	112030

#### PRIVATE POOLS: MAX. POOL SIZE UP TO 95 M<sup>3</sup>

Article	Code
Oxi 2	120000
Oxi 2 pH	122000
Oxi 2 pH/Rx	122030

#### PRIVATE POOL: MAX. POOL SIZE UP TO 155 M<sup>3</sup>

Article	Code
Oxi 3	130000
Oxi 3 pH	132000
Oxi 3 pH/Rx	132030

Optional accessories and  
Extension modules from catalog page 116



## OPTIONAL ACCESSORIES AND SPARE PARTS

## FOR MIDA.STATION AND MIDA.OXI

**PH-SET**

Measurement and control of the pH value. Consists of: pH probe (material PVC), chip, 3 x buffer solution (1 x 50 ml neutral, 1 x 50 ml pH 7, 1 x 50 ml pH 10) and mounting accessories (1 x T-piece 50 x 1/2" IG and 1 x screw connection probe holder 1/2" AG).

Article	Code
pH-Set	002000

**REDOX-SET**

Measurement and control of the redox value. Consists of: Redox probe (material PVC), chip, 2 x buffer solution (1 x 50 ml neutral, 1 x 50 ml Redox 465 mV) and mounting accessories (1 x T-piece 50 x 1/2" IG and 1 x screw connection probe holder 1/2" AG).

Article	Code
Redox-Set	000030

**PH-SET PRO**

Measurement and control of the pH value.

Consists of: Swiss quality pH glass probe, chip, 3 x buffer solution (1 x 50 ml neutral, 1 x 50 ml pH 7, 1 x 50 ml pH 10), sample water container and mounting accessories (2 x T-piece 50 x 1/2" female thread, 2 x ball valve 1/2" male thread, 2 x hose connection fitting 1/2" male thread, 4 m sample water hose 8 x 12 mm).

Article	Code
pH-Set Pro	002010

**REDOX-SET PRO**

Measurement and control of the redox value.

Consists of: Swiss quality redox glass probe, chip, 2 x buffer solution (1 x 50 ml neutral, 1 x 50 ml redox 465 mV), sample water container and mounting accessories (2 x T-piece 50 x 1/2" female thread, 2 x ball valve 1/2" male thread, 2 x hose connection fitting 1/2" male thread, 4 m sample water hose 8 x 12 mm).

Article	Code
Redox-Set Pro	000040

**PH-SONDE**

Material: PVC plastic, cable length: 1.5 m Connection: BNC

Article	Code
pH-Sonde	001010

**REDOX-SONDE**

Material: PVC plastic, cable length: 1.5 m Connection: BNC

Article	Code
Redox-Sonde	001030





## PH-PROBE PRO

Swiss quality probe

Material: glass, cable length: 2.5 m Connection: BNC

Article	Code
pH-probe Pro	001020



#001020



## REDOX-PROBE PRO

Swiss quality probe

Material: glass, cable length: 2.5 m Connection: BNC

Article	Code
Redox-probe Pro	001040



#001040

### TECHNICAL DATA

Description	pH	Redox
Probe type	Epoxi	Epoxi
Measuring range	0-14 pH	0-1000 mV
Measuring accuracy	0,1 pH	1-3 mV
Material	Ag/Cl	Gold
Probe holder	ABS, d 50/63 mm	ABS, d 50/63 mm
Additional equipment	-	-
Cables	2 m	2 m
Plug	BNC Schutz	BNC Schutz



## FLOW SWITCH

with 2 m cable, **including** probe holder ABS, d 50/63 mm, 3/4" internal thread

Article	Code
Flow switch	000700



#000700



## SALT TESTER

Measurement and regulation of the conductivity value (configuration of the system required before delivery from the factory). **Including** KCl storage liquid #102030-E17 and buffer solution #102030-E26, #102030-E27.

Article	Code
Replacement probe	000410
Salt tester	000405



#000405



## CONTROL OF FREE CHLORINE

Measurement and control of free chlorine (ppm)

Probe type: Amperometric (Au-Cu);

Measuring range: 0-10 ppm; Measuring accuracy: 0.10 ppm; Material: Copper/gold;

Probe holder: ABS 50/63 mm; Additional equipment: 4 m flexible hose: PVC, transparent, 8 x 12 mm and two 1/2" valves; Connector: Terminals

Article	Code
Free chlorine control	000400



#000400



## DOSING HOSE PUMP 1.5 L/H

For pH value or e.g. flocculation, algaecide. **Includes** 2 m PE hose 4 x 6 mm and 2 m PVC hose 4-6 mm, as well as manual on/off switch. 230 V, CE approved.

Article	Code
Replacement tube Santoprene for pH dosing hose pump**	102030-E7
Dosing hose pump 1.5 l/h	000100



## PERISTALTIC METERING PUMP 0.6 - 6.0 L/H

For pH value or e.g. flocculation, algaecide. **Including** suction base, injection valve, 2 m PE hose 4 x 6 mm and 2 m PVC hose 4 x 6 mm, as well as manual on/off switch. Dosing capacity 0-100 % adjustable (0-6 l/h), 230 V, CE approved.

Article	Code
Replacement tube Santoprene for pH dosing hose pump**	102030-E5
Dosing hose pump 0.6-6 l/h	000101



## SCREEN MOUNT

Wall mounting set for external mounting of the color screen, **including** 10 m extension cable and cover panel for the device

Article	Code
Screen mount	WHFVA



## ERDUNGS-SET

with 2 m cable, **including** immersion sleeve and O-ring

If there is a "leakage current" in the pool, the pH value is not measured correctly; this can be reduced or avoided with the earthing set.

Article	Code
Earthing set	000550



## WIFI MODULE

Control of the systems and pool components via smartphone, tablet or computer, **including** 10 m cable. Saves the measured values for 30 days; values can be exported as a PDF file.

Article	Code
WIFI module	000006

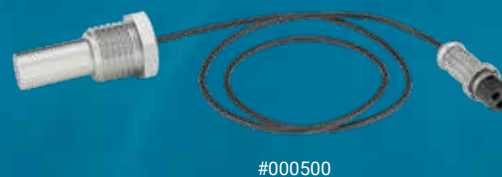


## TEMPERATURE MODULE

Temperature sensor for current water temperature and control of the heat source, e.g. heat pump.

- Description: Temperature
- Probe type: Thermometer
- Measuring range: 0-100°C
- Measuring accuracy: 1°C
- Material: Stainless steel
- ½ AG
- **including** probe holder: ABS 50/63 mm ½" IG
- Cable: 2 m
- Connector: Terminals

Article	Code
Temperature module	000500



\*\* with 2-stage ON/OFF switch, bottom left and adjustment of pump output



## SPARE PARTS FOR MIDA.OXI



Zelle + Housing



#102030-E30



#102030-E8



#102030-E9



#102030-E10



#102030-E11



#102030-E12



#102030-E13



#102030-E14



#102030-E18



#102030-E20



#102030-E21



#001000



#102030-E28

Code	Description / Article
102030-E28	Plug ½" for probe holder
102030-E11	PVC suction hose, d 4 x 6mm, 1 piece = 1 meter
102030-E10	Dosing hose 1 piece = 1 meter
102030-E9	Injection valve ½" AG
102030-E24	PVC ball valve ½" (inside) x ½" (outside) with blue handle
102030-E8	Turnstile for pH dosing hose pump**
102030-E14	Screw connection probe holder ½" AG for pH/Redox probes
102030-E12	PVC T-piece probe holder 50 x ½" IG, for 1 probe
102030-E13	PVC T-piece probe holder 50 x ½" IG, for 2 probes
102030-E18	PVC probe holder 50 x ½" female thread, for 2 probes and 3/4" female thread for flow switch
102030-E20	Bypass with sample water tank including 4 m hose 8 x 12 mm, 2 x impulse valve ½" and 2 x ball valve ½" AG x ½" IG
102030-E21	Bypass with double sample water tank including 4 m hose 8 x 12 mm, 2 x impulse valve ½" and 2 x ball valve ½" AG x ½" IG
RCS22	Housing for RCB16, RCB33
001000	pH redox chip
102030-E30	Color screen/display 2.8"
RCB16	Titanium cell 15A (Oxi 1) - <b>without</b> housing
RCB33	Titanium cell 30A (Oxi 2) - <b>without</b> housing
RCB50	Titan-celle 50A (Oxi 3) – <b>without</b> Housing

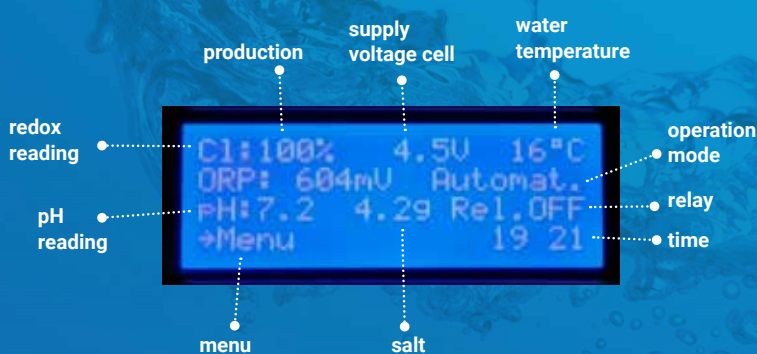


## MIDA.LOW SALT

Compact salt electrolysis for private pools with low salt content of 1-2 g / l = 0.1-0.2%, shockproof housing with stainless steel frame V4A / AISI 316 and digital display with menunavigation in 12 different languages (DE, GB, F, NL, CZ, E, CAT, P, I, HR, HEB, TR), 230V, protection class IP65.

### ADVANTAGES:

- ✓ Self-cleaning monopolar (MIDA.Low Salt 1 and 2) or bipolar cells (MIDA.Low Salt 3) with 10,000 hours operating life at 4 hours polarization and 18,000 hours at 8 hours polarization, vertical installation (horizontal with flow switch)
- ✓ Waterproof housing with IP65 protection
- ✓ Easy to install because of the large clamping area
- ✓ Less power consumption and less heat in the device, since no transformers are installed (less susceptible to interference)
- ✓ Easy to retrofit into almost any pool area



### Characteristics:

- Works with 1 - 2 g of salt per liter
- Integrated microprocessor
- pH / redox / chlorine options with high-quality PVC probes easy to install and maintainable wall mounting plate with 1.5 l / h pH dosing pump
- Coaxial cable with BNC connector
- Probes are interchangeable
- Integrated gas sensor, optional flow switch for horizontal installation
- **Including** filter control and a free relay for lighting etc.
- Reduction of chlorine production when the pool cover is closed
- Dosing time delay
- Easy and intuitive menu navigation (3 buttons) in 12 different languages

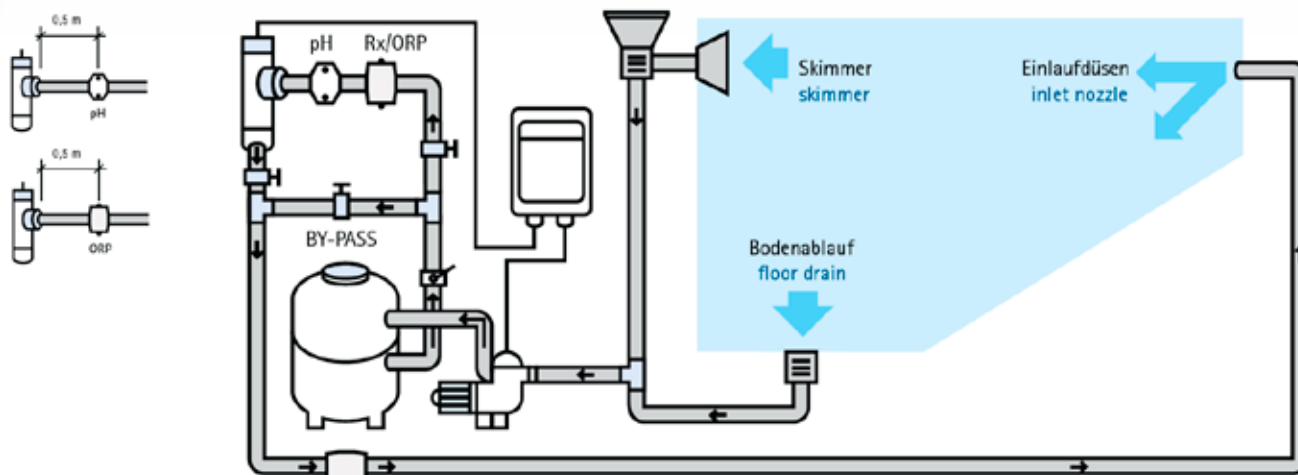
### Recommended chlorine production by pool size and filter usage

		Pool volume							
		25 m³	50 m³	75 m³	100 m³	125 m³	150 m³	175 m³	200 m³
filtration times	4 h	15 g/h	25 g/h						
	6 h	10 g/h	20 g/h	25 g/h	35 g/h				
	8 h	10 g/h	15 g/h	20 g/h	25 g/h	35 g/h	35 g/h		
	10 h			15 g/h	20 g/h	25 g/h	35 g/h	35 g/h	
	12 h				20 g/h	25 g/h	25 g/h	35 g/h	35 g/h

At >28 °C please use the next larger system

### Prerequisite of the water parameters

Parameter	Minimal	Maximum	Check
Hardness [ppm]	150	250	monthly
Alkalinity [ppm]	100	160	weekly
pH	7,0	7,8	weekly
Cyanuric acid	0	50	monthly



### INJECTION

Description	MIDA.Low Salt 1	MIDA.Low Salt 2	MIDA.Low Salt 3
Use	private pools		
Intensity	0-100 %		
Minimal salt concentration	1 g per liter		
Recommended salt concentration	1-2 g per liter		
Production chlorine with 4 – 5 g salt	15 g/h	20 g/h	30 g/h
m³ Pool (up to 28°C)*	50 m³	75 m³	125 m³
m³ Pool (over 28°C)*	25 m³	50 m³	100 m³
Display	LCD digital 20 x 4 cm, 12 languages (DE, GB, F, NL, CZ, E, CAT, P, I, HR, HEB, TR)		
Power supply	230 V 50/60 Hz		
Outlet (cell)	25 A	35 A	17,55 A
Maximum power output	187,5 W	363 W	380 W
Max. voltage cell	7,5 V (monopolar)	7,5 V (monopolar)	21 V (bipolar)
Dimensions	308 x 250 x 89 mm		
Electronic box	fireproof plastic ABS, black		
Protection class	IP 65		
Electronic	microprozessor 16 bit		
Intensity control	Ampere + Volt		
Ventilation	natural convection		
Automatic cleaning	programmable 1-8 h		
Flow switch	gas sensor		
Time counter	yes		
Control production of disinfection	0 - 100 %		
Alarms	salt insufficient / too much salt / no flow / error pH pump / fault probe / short circuit / temperature		
Test salinity	too much / too little salt without conductance probe or in g / l with conductance probe		
Production control by pool cover	20% production with closed pool cover		
Production control by external signal	-		
Communication	RS 232		
230 V output control (1 output)	acid pump		
Potential-free output control (1 output)	AUX 1		
Number of bags of salt	2 - 4 backs à 25 kg	3 -6 backs à 25 kg	5 - 10 backs à 25 kg

\*At least 8 hours filter runtime (with several users per day or less filter running time, the required chlorine production should be coordinated together).

Article	Max. pool volume	Code	Weight
MIDA.Low Salt 1	50 m³	1031	4 kg
MIDA.Low Salt 2	75 m³	1032	4 kg
MIDA.Low Salt 3	125 m³	1033	4 kg

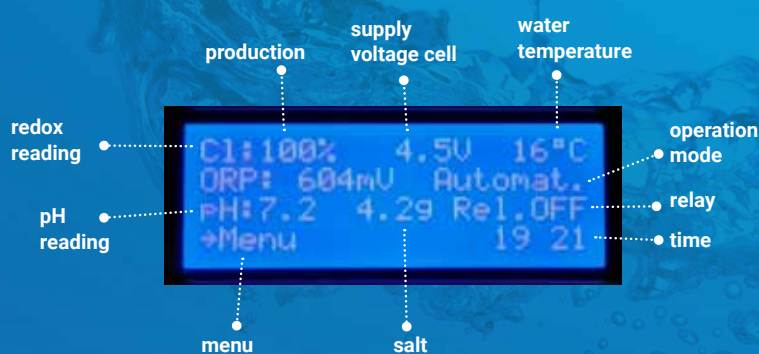


## MIDA.SALT

Compact salt electrolysis for private swimming pools with impact-resistant housing, stainless steel frame V4A / AISI 316 and digital display with menu navigation in 12 different languages (DE, GB, F, NL, CZ, E, CAT, P, I, HR, HEB, TR), 230V, protection class IP65.

### BENEFITS

- ✓ Self-cleaning monopolar cells with 10,000 operating hours lifetime at 4 hours polarization and 18,000 hours at 8 hours polarization, vertical installation (horizontal with flow switch)
- ✓ Waterproof housing with IP65 protection
- ✓ Easy to install because of the large clamping area
- ✓ Less power consumption and less heat in the device, since no transformers are installed (less susceptible to interference)
- ✓ Easy to retrofit into almost any pool area



### Characteristics:

- Works with 1 - 2 g of salt per liter
- Integrated microprocessor
- pH / redox / chlorine options with high-quality PVC probes easy to install and maintainable wall mounting plate with 1.5 l / h pH dosing pump
- Coaxial cable with BNC connector
- Probes are interchangeable
- Integrated gas sensor, optional flow switch for horizontal installation
- **Including** filter control and a free relay for lighting etc.
- Reduction of chlorine production when the pool cover is closed
- Dosing time delay
- Easy and intuitive menu navigation (3 buttons) in 12 different languages

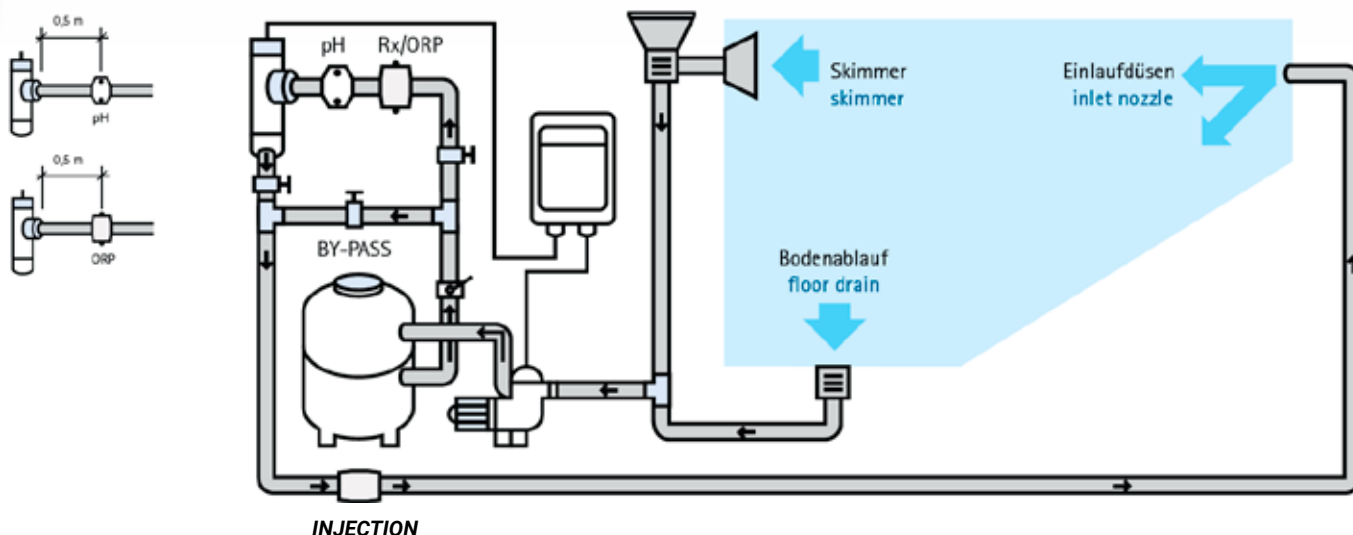
### Recommended chlorine production by pool size and filter usage

	Pool volume							
	25 m³	50 m³	75 m³	100 m³	125 m³	150 m³	175 m³	200 m³
filtration times								
4 h	15 g/h	25 g/h						
6 h	10 g/h	20 g/h	25 g/h	35 g/h				
8 h	10 g/h	15 g/h	20 g/h	25 g/h	35 g/h	35 g/h		
10 h			15 g/h	20 g/h	25 g/h	35 g/h	35 g/h	
12 h				20 g/h	25 g/h	25 g/h	35 g/h	35 g/h

At >28 °C please use the next larger system

### Prerequisite of the water parameters

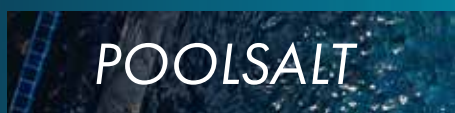
Parameter	Minimal	Maximum	Check
Hardness [ppm]	150	250	monthly
Alkalinity [ppm]	100	160	weekly
pH	7,0	7,8	weekly
Cyanuric acid	0	50	monthly



Description	MIDA.Salt 1	MIDA.Salt 2	MIDA.Salt 3
Use	private pools		
Intensity	0-100 %		
Minimal salt concentration	2 g per liter		
Recommended salt concentration	4-5 g per liter		
Production chlorine with 4 – 5 g salt	15 g/h	25 g/h	35 g/h
m³ Pool (up to 28°C)*	50 m³	100 m³	150 m³
m³ Pool (over 28°C)*	25 m³	50 m³	100 m³
Display	LCD digital 20 x 4 cm, 12 languages (DE, GB, F, NL, CZ, E, CAT, P, I, HR, HEB, TR)		
Power supply	230 V 50/60 Hz		
Outlet (cell)	15 A	25 A	35 A
Maximum power output	112,5 W	187,5 W	263 W
Max. voltage cell	7,5 V (monopolar)		
Dimensions	308 x 250 x 89 mm		
Electronic box	fireproof plastic ABS, black		
Protection class	IP 65		
Electronic	microprozessor 16 bit		
Intensity control	Ampere + Volt		
Ventilation	natural convection		
Automatic cleaning	programmable 1-8 h		
Flow switch	gas sensor		
Time counter	yes		
Control production of disinfection	0 - 100 %		
Alarms	salt insufficient / too much salt / no flow / error pH pump / fault probe / short circuit / temperature		
Test salinity	too much / too little salt without conductance probe or in g / l with conductance probe		
Production control by pool cover	20% production with closed pool cover		
Production control by external signal	-		
Communication	RS 232		
230 V output control (1 output)	acid pump		
Potential-free output control (1 output)	AUX 1		
Number of bags of salt	8 - 10 backs à 25 kg	16 - 20 backs à 25 kg	24 - 30 backs à 25 kg

\*At least 8 hours filter runtime (with several users per day or less filter running time, the required chlorine production should be coordinated together).

Article	Max. pool volume	Code	Weight
MIDA.Salt 1	50 m³	1021	4 kg
MIDA.Salt 2	100 m³	1022	4 kg
MIDA.Salt 3	150 m³	1023	4 kg



Complies with quality standard EN 16401 and the Biocidal Products Regulation (BPR) 528/2012.

Pool salt contributes to safer use of the swimming pool and offers a high level of swimming comfort. Poolsel is produced on the basis of natural, coarse sea salt with an extremely high purity and a low sulphate content and does not contain any harmful separating agents. The pool salt is used to optimize the salt content and for chlorine production by electrolysis.

**Application:** Salt for swimming pools/salt electrolysis (not suitable for membrane electrolysis), Sea salt for optimizing the salt content.

**Packaging contents:** 25 kg bag

- ✓ Salt crystals - grain size: 1-2 mm
- ✓ Very high purity - contains no additives
- ✓ Good and fast solubility
- ✓ Suitable for all work with electrochlorine initiators

Article	Code	PU
Pool salt	799	40 (per pallet)



## PUFFER SOLUTIONS



#1070-E3



#102030-E1



#102030-E2



#102030-E3



#102030-E4

Article	Code
Buffer solution pH 4, red, 50 ml	1070-E3
Buffer solution pH 7, green, 50 ml	102030-E1
Buffer solution pH 10, blue, 50 ml	102030-E2
Buffer solution Redox 475 mV, clear, 50 ml	102030-E3
Buffer solution neutral, clear, 50 ml	102030-E4

# WATER CARE PRODUCTS



## WATER CARE LIQUID



#C0001



#C0002



#C0003



#C0004



#C0005



#C0006

Article	Contents	Weight	PU	Classification	Code
MIDA.Sin Chlor Pure 13 %	20 l	24 kg	30 (per pallet)	ADR 8/UN 1791	C0001
MIDA.Sin pH Minus 15 %	20 l	24 kg	30 (per pallet)	ADR 8/UN 2796	C0002
MIDA.Sin pH Plus 5 %	20 l	24 kg	30 (per pallet)	ADR 8/UN 1824	C0003
MIDA.Sin Algizid 10 %	20 l	24 kg	30 (per pallet)	ADR 9/UN 3082	C0004
MIDA.Sin Floc+ 10 % *	20 l	24 kg	30 (per pallet)	ADR 8/UN 3264	C0005
MIDA.Sin Oxy Pure 11,9 %	20 l	24 kg	30 (per pallet)	ADR 5.1/UN 2984	C0006

Also available individually. Also available in 5 kg canisters on request.



## PE SAFETY CONTAINER

PE safety container with carrying handle 40 l, translucent, 40 x 40 x 33 cm for 25/30 l containers, color white. Prevents the liquids from destroying the soil or getting into the groundwater and damaging the environment. Spilled substances are absorbed in accordance with legal requirements and retained in the drip tray.

Article	Code
PE-Safety container	392



#392



## WATER CARE PRODUCTS



#23110



#23020



#23120



#23100



#23164



#23140



#23180



#23190



#23172



#23160



#23152L

Article	PU	Code
pH raiser, granules, 1 kg	6	23110
Algae EX, foam-free, 1 l	6	23120
pH reducer, granules, 1.5 kg	6	23100
Alkaline cleaner 1 l for greasy deposits	6	23164
Winterfit 1 l	6	23140
Lime EX, 1 l	6	23180
Metal EX, 1 l	6	23190
Roller shutter cleaner 1 l	6	23172
Acidic cleaner 1 l for limescale, algae and rust discoloration	6	23160
Super Floc cartridges 8 pieces pack	10	23152L
HC-Chlor granules, inorganic 1 kg	6	23020
Algae EX, foam-free, 3 l	4	23121
Winterfit 3 l	4	23141

## CLEAN WATER WITH UV-C DISINFECTION

As early as 1878, it was observed that sunlight has an antibacterial effect. Further investigations revealed that the germicidal effect does not come from visible light, but from invisible ultraviolet light in the wavelength range of 200 - 280 nanometers (nm).

UV-C disinfection is a popular additional option for swimming pool water treatment. This can disinfect up to 80 percent of the swimming pool water without affecting the water quality (pH value, oxygen content).

The addition of water care products can therefore be significantly reduced. The UV-C disinfection systems are integrated into the swimming pool's filter circuit. The UV-C rays destroy the cells and DNA of bacteria, viruses and microorganisms so that they can no longer multiply - the bound chlorine is effectively broken down in an environmentally friendly manner.



UV-C is effective against all microorganisms



Crystal clear water



Reduced use of chemicals for water treatment



Lower costs for chemicals, energy and maintenance



No risk of overdose



UV-C is an environmentally friendly technology



## UV-C STERILIZATION TECHNOLOGY

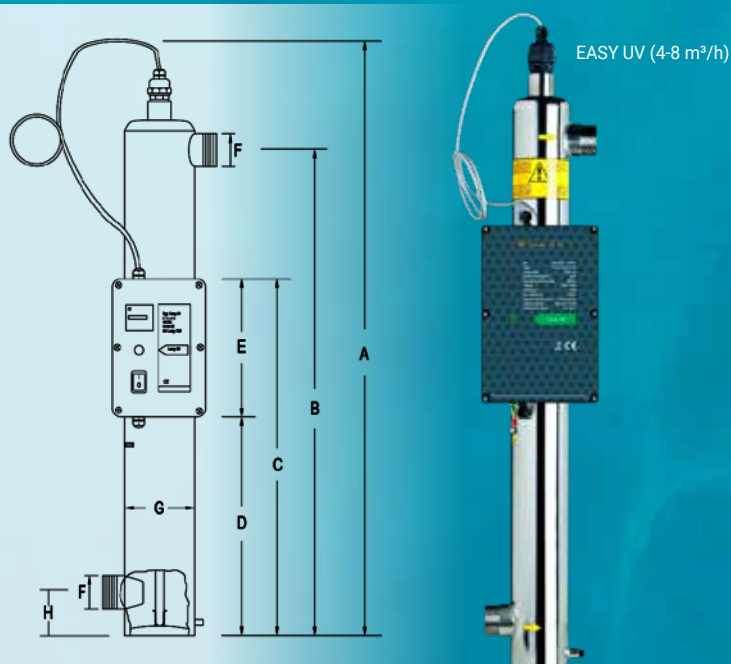
### MODELL EASY-UV

The EASY-UV devices are bacteriologically tested. If you follow the installation instructions carefully, you will achieve a degree of disinfection of between 75% and 91% after the first day of operation. On day two, this figure is already 94 %. EASY-UV devices sterilize the water using UV-C light and destroy the chloramines. Bacteria, viruses, floating algae, fungi, parasites and other microorganisms are killed. The unpleasant odor and irritation of the mucous membranes in the nose, eyes, skin and

throat caused by chloramines are eliminated.

Easy-UV devices save on chemicals. Up to 50 % less disinfectant is required and the ageing of building materials in and around the pool slows down considerably.

UV-C disinfection is compatible with all other forms of water treatment. The device is simply integrated into the water circuit via the filter pump.



Technical Data	4-8 m³/h	5-15 m³/h
Lamp	1 x low pressure lamp	1 x low pressure lamp
Lamp life	approx. 9,000 operating hours	approx. 9,000 operating hours
Performance	80 W	80 W
Wavelength	253,7 Nanometer	253,7 Nanometer
Intensity at 1 m	245 µW/cm²	245 µW/cm²
Dwell time	4 - 2 Sek.	6,7 – 2,25 Sek.
Voltage	230 V	230 V
Frequency	50 Hz	50 Hz
Protection class	IP54	IP54
Ballast	electronic	electronic
Flow rate	4 - 8 m³/h	5 - 15 m³/h
Bypass operation up to	15 m³/h pumps	30 m³/h pumps
Max. operating pressure	2,5 bar	2,5 bar
Material: Housing	AISI 316/1.4404	AISI 316/1.4404
Water temperature	10 - 40°C	10 - 40°C
Hour meter	no	Yes
On/off switch	no	Yes
Control lamp	Yes	Yes

Model	A	B	C	D	E	F	G	H
Easy-UV 4-8 m³/h	1000 mm	790 mm	650 mm	400 mm	240 mm	1 ½" AG	90 mm	60 mm
Easy-UV 5-15 m³/h	1000 mm	805 mm	650 mm	400 mm	240 mm	2" AG	125 mm	80 mm

For pool contents	Flow rate	max. flow rate in the bypass	External thread	Code
40 m³	4-8 m³/h	15 m³/h	1 ½"	129
20-75 m³	5-15 m³/h	30 m³/h	2"	207



### REPLACEMENT LAMP

Article	Watt	Code
Replacement bulb for #129 and #207	80	129-E1



### ACCESSORIES

Article	Code
Pair of plastic brackets for #129	129-E4
Pair of plastic brackets for #207	207-E1

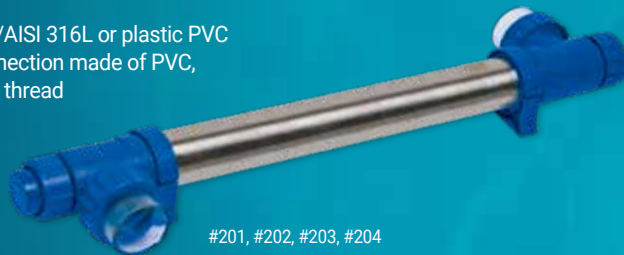


EASY UV (5-15 m³/h)



## HOUSING STAINLESS STEEL V4A/AISI 316L OR PLASTIC PVC

- Stainless steel housing V4A/AISI 316L or plastic PVC
- 2 x 63/50 mm adhesive connection made of PVC, alternatively 2 x 1 1/2" internal thread
- Connection 230 V

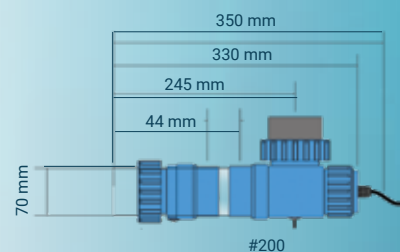
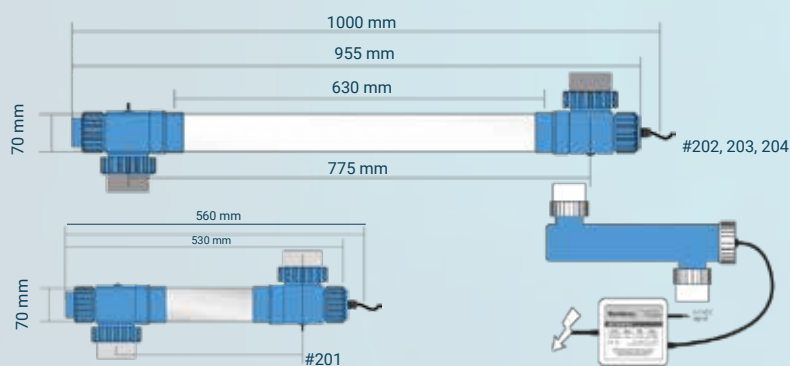


#201, #202, #203, #204



#200

	12 Watt	16 Watt	40 Watt	75 Watt	130 Watt
max. pool size	12 m³	20 m³	45 m³	65 m³	90 m³
Lamp	1 x low pressure PL-S modules 21W	1 x low pressure T5 16W 4P	1 x low pressure T5 40W 4P	1 x low pressure T5 75W 4P	1 x low pressure PHILIPS 130W Amalgam
Lamp life	approx. 9,000 operating hours	approx. 9,000 operating hours	approx. 9,000 operating hours	approx. 9,000 operating hours	approx. 16,000 operating hours
Power	12 W	16 W	40 W	75 W	130 W
Wavelength	253,7 Nanometer	253,7 Nanometer	253,7 Nanometer	253,7 Nanometer	253,7 Nanometer
Supply	230 V AC 50/60 Hz	230 V AC 50/60 Hz	230 V AC 50/60 Hz	230 V AC 50/60 Hz	230 V AC 50/60 Hz
Power consumption	0,2 A	0,29 A	0,29 A	0,57 A	1,1 A
Material: Housing	ABS plastic	Stainless steel V4A/ AISI 316L	Stainless steel V4A/ AISI 316L	Stainless steel V4A/ AISI 316L	Stainless steel V4A/ AISI 316L
Protection class	IP54	IP54	IP54	IP54	IP54
Max. operating pressure	2 bar	2 bar	2 bar	2 bar	2 bar
Water temperature	10 - 40°C	10 - 40°C	10 - 40°C	10 - 40°C	10 - 40°C
Recomm. Flow rate	3 m³/h	5 m³/h	11 m³/h	16 m³/h	22 m³/h
Hour meter	no	no	no	no	no
Diameter	70 mm	70 mm	70 mm	70 mm	70 mm
Length	420 mm	560 mm	1000 mm	1000 mm	1000 mm



For pool contents up to	Watt	Length	Code
12 m³ (Whirlpool)	12	35 cm	200
20 m³	16	56 cm	201
45 m³	40	100 cm	202
65 m³	75	100 cm	203
90 m³	130	100 cm	204



## BLUE-TECH REPLACEMENT LAMPS

Article	Watt	Code
Replacement lamp PL-S	21	200-E1
Replacement lamp T5	16	201-E1
Replacement lamp T5	40	202-E1
Replacement lamp T5	75	203-E1
Replacement lamp Philips	130	204-E1



## HOUSING MADE OF PVC - PLASTIC

EXKLUSIV  
MIDAS



- UV-resistant coating
- Suitable for salt water\*
- 2 x 63/50 mm adhesive connection, alternatively 2 x 1 1/2" internal thread
- Connection 230 V



\* max. salt concentration 35 g/l

	Version 40 Watt	Version 75 Watt
Max. pool size	45 m³	65 m³
Lamp	1 x low pressure T5 40W 4P	1 x low pressure T5 75W 4P
Lamp life	9,000 operating hours	9,000 operating hours
Performance	40 W	75 W
Wavelength	253,7 Nanometer	253,7 Nanometer
Supply	230 V AC 50/60 Hz	230 V AC 50/60 Hz
Power consumption	0,42 A	0,8 A
Material: Housing	PVC (UV-C stable)	PVC (UV-C stable)
Protection class	IP54	IP54
Max. operating pressure	2 bar	2 bar
Water temperature	10 - 40°C	10 - 40°C
Recomm. Flow rate	9 m³/h	14 m³/h
Hour meter	no	no
Diameter	70 mm	70 mm
Length	1000 mm	1000 mm



For pool contents up to	Watt	Length	Code
45 m³	40	100 cm	202B
65 m³	75	100 cm	203B



## REPLACEMENT UV LAMPS

Article	Watt	Code
replacement lamp T5 Lighttech	40	202B-E1
replacement lamp T5 Lighttech	75	203B-E1