

Optimal
water quality
with automatic
monitoring.



MiniMaster

Automatic measuring and dosing of chemicals.

- Continuously measures pH and free chlorine levels
- Two digital control units with easy to see LEDs
- Simple to set and read
- External pre-filter
- Electronic flow meter
- Convenient access for calibration
- Separate modules for each measuring electrode



Now also with pH & redox



Products from Pahlén Pool System,
for a trouble-free pool ownership.

For more information: www.pahlen.com



Advanced and intelligent MiniMaster for private pools.

The MiniMaster measuring unit offers you continuous monitoring and automatic dosing (disinfection) to safeguard water quality in the same way as in public baths and large hotel pools. MiniMaster is based on the same technology as Pahlén's well-known Autodos, which is currently in its third generation. With a MiniMaster installed in your pool, you need never again worry about your water quality.

MiniMaster monitors your water quality on an ongoing basis, making it simple to maintain clean and clear water at all times. Whenever necessary, the right quantity of chemicals is dosed into the water via a pump (option). This in turn ensures steady and low consumption of chemicals. MiniMaster maintains your pool water clean and clear when you're away or on holiday.

MiniMaster is available in several versions to suit all pool types.

The most advanced version of MiniMaster does virtually the whole job for you. A MiniMaster equipped with all the options is a complete measuring and dosing unit. The water's pH level is measured with the help of pH electrodes and chlorine levels are checked using a chlorine electrode. Clear and easy-to-see LEDs show the status of your water quality. When the red LED comes on, the value is too high or

too low and MiniMaster will automatically add the correct dose of chemicals to achieve the right pH and/or chlorine levels. Calibration of the unit is very simple and is done by simultaneously pressing two buttons on the control unit. In order to provide exact readings, MiniMaster is equipped with a flow meter and a flow adjustment device for correct flow.



MiniMaster is also available in a single-channel version that monitors either the water's pH value or its chlorine value. MiniMaster clearly indicates the quality of the water with the help of LEDs. Indication takes place in the same way as above.

Specify an optional pump or pH - Minidos CO₂ for dosing of acid/alkali (pH) or chlorine, and you will have a complete unit.

Control panel and using



The pool water's measured values are shown as symbols in the display via the seven LEDs. During measurement, one of the diodes flashes. When both measurement and dosing are activated at the same time, one of the diodes glows steadily.

Electronic control panel with LEDs

- Dosing function on/off
- Timer function for forced chlorination (1 min)
- Green indication shows the set optimal value
- Yellow indication shows deviation from set value
- Red indication shows a significant deviation from set value
- Flashing red diodes indicate that flow is too low
- Current flow indication

In order to simplify maintenance as much as possible, for instance when shutting the pool for the winter, replacing worn electrodes or carrying out reference measurements of electrodes, the flow cell model is designed to tilt forward. The module also features a drain tap for test water.

Calibration or adjustment of flow is carried out on the flow cell module. The transparent case in front of the module also makes it very easy to verify that there is flow to the unit.



Options

Pump

In order for dosing to take place accurately and correctly, a pump is used since this provides steady, uniform dosing. The pump is factory-calibrated to function with most pools as soon as the MiniMaster is started up. If necessary, dosing can be adjusted to suit your specific pool.

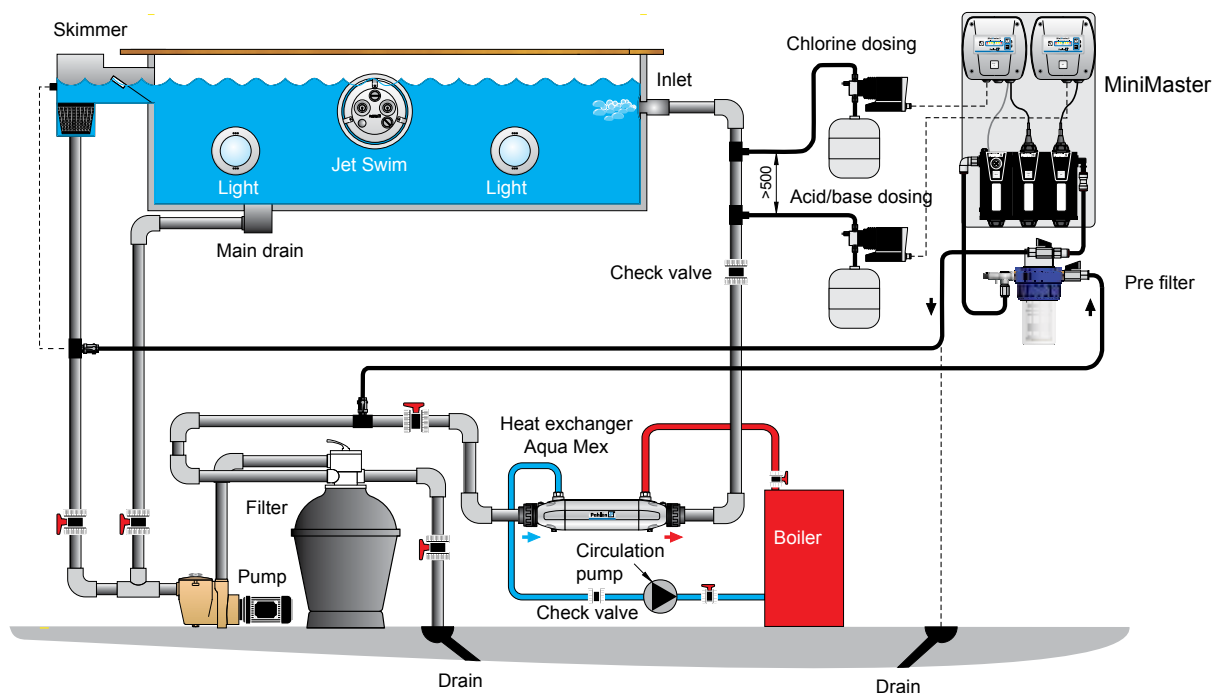


pH - MiniDos CO₂

Pahlén pH-MiniDos is a stable and easy to use system for stabilizing the pH value with CO₂ (carbon dioxide). pH-MiniDos is a control unit that is easily operated via MiniMaster.



- **Digital control panel** - Simple to set and use.
- **Measuring electrodes of the highest quality** - For accurate measurement.
- **Flow meter** - For exact measurement results.
- **External filter** - Prevents small particles from affecting the measuring process.
- **Fresh, modern design** - Small and compact. Simple to handle and maintain.
- **Tiltable flow cell module** - Makes maintenance easier than ever.
- **Transparent flow cell** - Clear, easy to read overview of flow.
- **Drain tap** - Easy to take measurements at the proper location.
- **Automatic measurement of water quality** - Delivers an optimised and economical supply of chemicals.
- **Control of pump and pH - MiniDos** - Steady, even operation.
- **Built in dos protection** - Safety for overdose.



Technical data	pH/chlorine pH/redox	chlorine	pH
Power consumption excl. dosing equipment	4W	2W	2W
Power consumption dosing equipment (max)	2x100W	100W	100W
Rated current	1 A		
Voltage	220-240 1~N 50/60Hz		
Temperature range	0 till +45°C		
Sealing class	IP44		
Dimensions L x B x H	310 x 84 x 500 mm		
Weight	2 kg		
Pump			
Backpressure	1,5 bar		
Suction height	1,5 m		
Pump output	3,5W		
Hose material	Santopren		

MiniMaster and electrode kit				
Item.no.	pH/chlorine	chlorine	pH	pH/redox
416620 MiniMaster	•			
416621 Electrode kit	•			
416600 MiniMaster		•		
416601 Electrode kit		•		
416610 MiniMaster			•	
416611 Electrode kit			•	
416630 MiniMaster				•
416631 Electrode kit				•
Option				
413335 Pump 4	•	•	•	
414810 pH - MiniDos CO ₂	•		•	

Complete MiniMaster consists of MiniMaster and electrode kit.
Chemicals are not included and have to be ordered separately.



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Art.nr. 99985083

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