

**AQUA<sup>®</sup>**  
**LYTIC**



## ***MiniCatalogue***

*Integrated Solutions  
for all routine tests  
in water analysis*



# Rapid Tests

## Reliable rapid tests

- Easy operation
- Exact reagent dosing
- High accuracy

## Regular testing to observe the water quality

- Economical
- Accurate
- Reliable

## The system for colorimetric water analysis

- More than 400 different test discs available
- Compensation for coloured and turbid samples
- Guaranteed constancy of the coloured glass standards

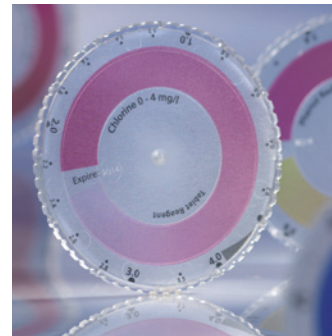
### MINIKIT



### CHECKIT® Comparator



### Colour Discs



### Comparator 2000+



These AQUALYTIC® test kits are specially developed for testing boiler, cooling and industrial process water. They make use of both colorimetric and titrimetric techniques. Each test kit contains all the necessary chemicals and reagents in liquid or powder form to conduct the tests.

## Test Kits

- Fast quantitative determination
- For testing boiler, cooling and industrial process water
- Suitable for field and laboratory testing
- Cost-effective use due to keenly priced refill packs



Precise water analysis in high-quality design with interference filter technology



## AL100

The small, fast-reading AL100 photometer is ideal for mobile on-site analysis. There are a large number of pre-programmed single parameter units. These are used in all areas of water analysis, for example, utilities, water treatment plants, industrial applications, the beverage industry. The multi-parameter devices are used predominantly in the area of public pools and spas.

## AL200

This classic AQUALYTIC® photometer is synonymous with accuracy and quality. These devices are an enhanced version of the 2in1, 3in1, 4in1, 5in1 and 6in1 series. They are ideal for use in all areas of water analysis.

## AL100 & AL200 Photometers A powerful duo in water analysis

Designed to meet the latest technical requirements, both photometers can be used in practically every area of water analysis.

The high-precision optics with top-quality interference filters use long-term stable LEDs as light-source. Because there are no moving parts, the entire measurement device requires very minimal maintenance.

Precise and reproducible analysis results are rapidly obtained.

The units are extremely user-friendly with ergonomic design, compact dimensions and easy handling.

Precise results using high-quality interference filters



## Photometer AL450

The AL450 is a contemporary, microprocessor-controlled photometer with ergonomically designed keypad and large-format graphic display. It is equipped with a wide range of pre-programmed methods based on the proven range of AQUALYTIC® tablet reagents, liquid reagents, tube tests and powder reagents (VARIO Powder Packs). Users can also store their own methods.

The AL450 is a filter photometer using interference filters at 6 different wavelengths. The unique design of the optics allows the automatic selection of the required wavelength without any moving parts. This and the dual beam technology utilizing an internal reference channel, guarantees the highest accuracy.



## AL400 Photometer

### Modern, mobile photometer for rapid, reliable water testing

With the modern design of the AL400 we have succeeded in combining the mobility of a portable photometer with the characteristics of a modern laboratory photometer.

This unit covers all the important parameters of water analysis, from aluminium to zinc. The AL400 operates with 6 interference filters and uses long-life LEDs as a light-source. No moving parts are involved.

The illuminated display allows comfortable reading of the measurement results even in low light conditions.



## For water and waste water testing 330 - 900 nm

### Spectrophotometer AL800

The AL800 is a modern single-beam spectrophotometer with an excellent price/performance ratio that is specifically designed for water testing.

The instrument is equipped with a wide range of pre-programmed methods based on the proven range of AQUALYTIC® tube tests, tablet reagents, liquid reagents and powder reagents (Vario Powder Packs).

### Waste Water Set-Up

Integrated solution for photometric analysis of waste water parameters

- All reagents supplied for:  
COD, Nitrogen, Ammonia, Nitrate, Nitrite, Phosphate
- Ready to use
- Spectrophotometer AL800
- Thermoreactor AL125
- Alternative set-up available:  
with photometer AL400 & IRiM



For several decades, AQUALYTIC® in Dortmund has been manufacturing reagents for water testing and marketing these reagents around the world. Different forms of reagents are required for different fields of application. AQUALYTIC® is the only reagent producer in the world that offers a complete range of reagent forms.

## Tablet Reagents

- Secured storage in individually-packed aluminium strips
- Rapid dosage, even under in-field conditions
- High accuracy and simple handling
- Guaranteed shelf life of 5-10 years

## Powder Reagents

- Fast and easy use
- Extended shelf life
- High stability
- Their chemical properties is suitable also for use with Hach® Photometer Systems.

## Tube Tests

- 16 mm diameter tubes
- Precisely predosed reagent
- Time-saving methods
- Enhanced work safety
- Shipment in sturdy styrofoam box
- Can be used with other standard photometers (COD)

## Liquid Reagents

- Rapid solubility
- Easy dosage
- 1 year guaranteed shelf life

## Tablet Reagents



## Powder Reagents



## Tube Tests



## Liquid Reagents



# BOD Measurement

The AQUALYTIC® sensor system AL606 is a 6 sample system that allows precise measurements of BOD based on the manometric principle. Manometric respirometers relate oxygen uptake to the change in pressure caused by oxygen consumption while maintaining a constant volume. Thanks to the modern integral pressure sensors, it is no longer necessary to use mercury for pressure measurements.

- Direct sample selection
- Accurate and direct display of BOD values in mg/l
- User-friendly handling
- User-selectable measuring period from 1 to 28 days (BOD<sub>s</sub>, BOD<sub>7</sub>, OECD...)
- Automatic storage of all values
- Measuring ranges from 0 - 40 mg/l to 0 - 4000 mg/l BOD, sample volume related
- Auto start function after temperature equalisation
- Mercury-free, environmentally friendly
- Inductive stirring system with automatic re-centering of stirring rods
- Interface RS 232





## COD Setups COD VARIO

The AQUALYTIC® COD VARIO setups allow highly sensitive and precise water testing with minimum effort. They measure the ST-COD concentration by photometric detection.

The COD setups comprise the photometer, 25 tube tests for each of the two lower measuring ranges, a reactor for sample digestion and a vial stand.

## Thermoreactor AL125

For tube test digestion.

Chemical digestion of samples is required for the photometric determination of COD, TOC, total phosphate and total nitrogen.

COD Setup AL100



COD Setup AL200



Waste Water Setup



Thermoreactor



## Thermostatically controlled incubators

AQUALYTIC® thermostatically controlled incubators are used for continuous temperature control over a range of 2 °C to 40 °C. This makes them ideal for a wide range of different applications in industrial and research laboratories.

The thermostatically controlled incubators are available in 4 sizes, with effective capacities from 135 to 395 litres. All models can be fitted with a standard door or a glass door.

- Backlit display
- 2 °C to 40 °C
- Adjustable in steps of 0.1 °C
- 20 °C BOD determination
- 4 °C Storage of waste water samples
- 25 °C enzyme activity (TTC test)
- 37 °C colony count

## Spark-free cabinets

The German BGR 120 guideline for laboratories stipulates that interior spaces must be explosion-protected where hazardous, explosive atmospheres can develop (for example, due to the presence of flammable liquids).

The AQUALYTIC® cabinets in the EX range meet the requirements of this guideline and are fully equipped for daily laboratory use.

- Spark-free according to BGR 120
- 2 °C to 10 °C
- Continuously adjustable
- Robust materials
- Lockable



## Floc Tester

Floc testers with continuously variable stirring speed for laboratory and field use.

Floc testers are designed for a range of applications – such as testing the efficiency of flocculation or precipitation agents.

State-of-the-art technology ensures maximum operating convenience and makes the unit maintenance-free. The main features of the laboratory floc testers are the continuously variable stirring speed, the digital display of stirring rpm, the timer function, the illuminated back panel, and the height adjustment option for the stirring blades during operation.



- Continuously variable stirring speed
- Digital display
- Height adjustment of the stirring blades during operation
- Timer feature



- Meets EN ISO 7027
- Automatic overall range adjustment with Standard-Set T-Cal
- Autoranging
- High accuracy
- Laboratory and mobile use
- RS 232 interface
- Storage for up to 1000 data-sets
- Real-time clock
- Waterproof sample chamber and housing

## AL450T-IR with infra-red light source

Turbidity is measured according to EN ISO 7027 by nephelometric means (90° scattered light). The results are shown in NTU (Nephelometric Turbidity Units). The infra-red light source permits measurement of coloured and colour-free samples.



## AL250T-IR with infra-red light source

The compact AQUALYTIC® infrared turbidity meter TurbiCheck is designed to allow fast, precise on-site testing. The unit measures the scattered light at an angle of 90°, as stipulated in EN ISO 7027.

As infra-red light is used for measurement purposes, the unit can be used to test both coloured and colourless liquids.

- Range 0.01 - 1100 NTU
- Measurement with infrared light at an angle of 90°
- Measurement of coloured liquids
- Easy handling
- 600 tests without battery change



## AL400T-WL with white light source

The TurbiCheck WL allows easy turbidity measurement in either the field or in the laboratory. Using a "white light" source and 90° detection, the TurbiCheck WL meets the specifications for EPA turbidity measurement (EPA Standard 180.1). Integrated diagnostics confirm proper operation and accuracy.

- Ideal for regulatory monitoring, process control or field use
- Simple operation
- Easy calibration
- Auto-Ranging
- Meets USEPA



The SD 300 pH and SD 320 Con are rugged and waterproof (IP67) hand-held meters for on-site analysis with PC interface for data transmission. Supplied with a practical, protective outer shell, both instruments guarantee reliable operation in extreme conditions.

- pH
- Redox
- Temperature
- Conductivity
- TDS
- Salinity
- Temperature (°C/°F)

The microprocessor-controlled handheld meter AL200xi meets the day-to-day demands for a sturdy and reliable system for the measurement in aqueous media.

- Dissolved Oxygen (O<sub>2</sub>)
- O<sub>2</sub> Concentration in mg/l
- O<sub>2</sub> Saturation in %
- Temperature °C/°F

The AL15 combines the features of several hand-held meters. It is designed for multi purpose operation.

- pH value
- Redox
- Oxygen (dissolved)
- Conductivity
- TDS
- Temperature (°C/°F)

SD 300 pH



SD 320 Con



AL200xi



AL15



The AL10 series consists of high quality, portable, battery operated meters. The instruments are equipped as standard with protective casing and built-in electrode holder.

- pH
- Conductivity

The SD series comprises a range of compact, easy-to-use, hand-held instruments for the accurate measurement of pH, ORP, Con, TDS or Salt. With robust housing and fully waterproof (IP67) casing, these testers are the ideal solution for in-situ testing in environmental, industrial or pool & spa applications.

- pH
- ORP/Redox
- Conductivity
- TDS
- Salt

SensoDirect AL10pH • AL10Con



SD 50 pH • SD 60 ORP • SD 70 Con • SD 80 TDS • SD 90 Salt



# Industrial Water Analysis

Designed for the water treatment professional, these well proven cases are an excellent option for constructing bespoke portable laboratories that feature colorimetric, titration and electrochemical equipment. These kits are fast becoming an industry standard for the water treatment engineer.

The range of test kits and equipment for cooling water contain all equipment and test reagents required to optimise treatments and monitor critical control parameters quickly, safely and accurately, ensuring optimum output and efficiency.

The new AQUALYTIC® range consists of individually designed and customised Water Test Kits for Industrial Water Treatment. Current applications include Marine, Microbiological, Industrial Water, *Legionella*, Food and Beverage, Boiler and Cooler Water Systems, the Hygiene sector, Potable Water and Waste Water. All products are available stand-alone or as an integrated set, housed in one of the comprehensive engineering kits.

The compact DIGI Titrator is at the heart of the AQUALYTIC® professional range of portable laboratories where several syringettes can be included in one kit for maximum flexibility. One syringette per test type.

- Brix and Glycol
- Convenient, fast, accurate
- No mess, instant results
- Automatic temperature compensation
- Direct readings of freeze points and concentration (Ethylene Glycol & Propylene Glycol)

## Portable Laboratories



## Cooling Water Test Kit



## DIGI Titrator



## Refractometer



The diversity of the microbes that can affect the water systems is vast. In the majority of cases, the test to determine which microbial species is the causative agent for disease or infection is too complex to be performed on-site. It is therefore accepted that indicator organisms can be used to monitor the microbiological trends within a water system: using them as the trigger for changing biocide dosing and further investigative work.

A full range of agar dipslides is available for semi-quantitative determination of aerobic and anaerobic bacteria populations in industrial and recreational waters.

The AQUALYTIC® system is a simple, reliable technique which allows testing for total *Coliforms* and pathogenic *E.coli*.

- *Legionella* results within 25 minutes (excluding filtration step)
- Quick results and easy-to-use
- Different form of kits available for different applications and sensitivity
- 18 months shelf-life at room temperature

The AQUALYTIC® DI 10 Incubator is designed for the reliable incubation of bacteriological slides, on-site, in a laboratory or even while mobile in a car or van.

## Dipslides



## Coliforme/E.coli Test Kit



## Legionella Test



## Dipslide Incubator



AQUALYTIC® | Schleefstraße 12 | DE-44287 Dortmund Deutschland  
Tel.: +49 231 94510-755 Fax: +49 231 94510-750  
sales@aqualytic.de www.aqualytic.de





Parameter	Rapid Tests				Photometer Systems				
	Test Kits	MINIKIT	CHECKIT®Comparator	Comparator 2000+	AL100	AL200	AL400	AL450	AL800
Acid Capacity K <sub>s4,3</sub>						■	■	■	■
Acid Concentration		■							
Alkalinity-M	■	■	■		■	■	■	■	■
Alkalinity-P	■	■					■	■	■
Aluminium			■	■	■		■	■	■
Amine				■					
Ammonia			■	■	■		■	■	■
Ammonia, free				■		■	■	■	■
Arsenic		*)							■
Baquacil				■					
Boron				■			■	■	■
Bromine			■	■	■	■	■	■	■
Cadmium				■					■
Calcium Hardness		■			■	■	■	■	
Carbonat Hardness	■								
Carbonic Acid	■								
Chloride	■	■		■	■		■	■	■
Chlorine			■	■	■	■	■	■	■
Chlorine Dioxide			■	■	■	■	■	■	■
Chromium				■			■		■
Coliforme/E.Coli Test Kit on request									
COD				■	■	■	■	■	■
Cobalt				■					
Copper			■	■	■	■	■	■	■
Cyanide				■			■	■	■
DEHA	■		■	■			■	■	■
Detergent				■					
Dichlorophen				■					
Fluoride			■	■	■		■	■	■
Formaldehyde									■
Hazen (Pt-Co-Units ; APHA)				■	■		■	■	■
Hydrazine				■			■	■	■
Hydrogen Peroxide				■		■	■	■	■
Hydrogen Sulfide	■								
Hydroxide Concentration		■							
Iodine				■			■	■	■
Iron (Fe <sup>2+</sup> , Fe <sup>3+</sup> ), dissolved	■		■	■	■	■	■	■	■
Langelier Water Balance System							■	■	■
Lead				■					■
Legionella Test on request									

Parameter	Rapid Tests				Photometer Systems				
	Test Kits	MINIKIT	CHECKIT®Comparator	Comparator 2000+	AL100	AL200	AL400	AL450	AL800
Manganese			■	■	■		■	■	■
Molybdate / Molybdenum			■	■	■		■	■	■
Monochloramine				■		■	■	■	■
Nickel				■			■		■
Nitrate			■	■			■	■	■
Nitrite		■	■	■			■	■	■
Nitrogen, total							■	■	■
Oxygen, activ							■	■	■
Oxygen, dissolved				■			■	■	
Ozone			■	■			■	■	■
Permanganate				■					
pH value			■	■	■	■	■	■	■
Phenols				■					■
PHMB (Biguanides)							■	■	
Phosphate	■	■	■	■	■		■	■	■
Phosphonate							■	■	■
Polyacrylates							■		
Potassium							■	■	■
QAC		■		■					
Residual Hardness	■								
Silica			■	■	■		■	■	■
Sodium Hypochlorite		■	■			■	■	■	
Spectral Absorption-Coefficient									■
Stabilizer (Cyanuric acid)		■			■	■	■	■	■
Sugar				■					
Sulphate		■					■	■	■
Sulphide	■			■			■	■	■
Sulphite	■	■	■	■			■	■	■
Surfactants (anionic)									■
Suspended Solids					■		■	■	■
Tannin		■		■					
Thiocyanate				■					
TIN				■					
TOC									■
Total Hardness	■	■		■	■		■	■	■
Triazoles							■		
Turbidity (nephelometric), see TurbiCheck									
Turbidity (attenuated radiation method)							■	■	■
Urea					■	■	■	■	■
Vanadium				■					
Zinc			■	■			■	■	■

\*) for more information and further tests see: [www.aqualytic.de](http://www.aqualytic.de)