

Lovibond® Water Testing

Tintometer® Group



PROMPT | Tintometer® Information | July 2014



Especially for industrial water analysis



MD 100 Photometer

Perfect systems for control and optimization of water quality.

MD 100 Boiler Water

- Aluminium (0,01 - 0,25 mg/l Al)
- Chloride (0,5 - 20 mg/l Cl⁻)
- Copper (0,3 - 5,0 mg/l Cu)
- DEHA (20 - 500 µg/l DEHA)
- Hydrazine (50 - 500 µg/l N₂H₄)
- Iron (0,03 - 2,00 mg/l Fe^{2+/3+})
- Oxygen (10 - 800 µg/l O₂)
- Phosphate (5 - 80 mg/l PO₄)
- Polyacrylate (1 - 30 mg/l)
- Silica (1 - 90 mg/l SiO₂)

MD 100 Cooling Water

- Aluminium (0.01 - 0.25 mg/l Al)
- Bromine (0.05 - 13 mg/l Br₂)
- Chlorine (0.01 - 6.0 mg/l Cl₂ and (5 - 200 mg/l Cl₂)
- Chlorine dioxide (0.02 - 11 mg/l ClO₂)
- Copper (0.3 - 5.0 mg/l Cu)
- Iron (0.03 - 2 mg/l Fe^{2+/3+})
- Molybdenum (0.03 - 3.0 mg/l Mo) and (0.6 - 60 mg/l Mo)
- Ozone (0.02 - 2 mg/l O₃)
- Sulfate (5 - 100 mg/l SO₄)
- Triazole (1 - 16 mg/l Benzotriazole)
- Zinc (0.1 - 2.5 mg/l Zn)

Optimise Processes in Your Cooling and Boiler Water System

There are many starting points for ensuring the efficiency and operational safety of cooling and boiler water systems. An essential point is the testing and monitoring of the water which is used. Only minor deviations from the minimum requirements can serious consequences and severely impair the system. Prevent increased wear, poor efficiency and system shutdowns. We have developed the MD 100 Boiler Water and MD 100 Cooling Water photometer systems specifically for this purpose, as custom solutions tailored to your needs.

MD 100 Boiler Water

Most faults in steam production plants occur as a result of deficient monitoring and control of the boiler water. This includes, in particular, the formation of boiler scale, corrosion and local overheating. Therefore, regular treatment and testing of the boiler water is indispensable. By using the MD 100 Boiler Water photometer system, you have an overview of the key parameters of your boiler water and can perform purposeful water treatment at all times.

MD 100 Cooling Water

Scale, corrosion, deposits and damage due to micro organisms (biofilms) are just some of the factors which can seriously impair cooling water systems. There is no need to let it come to that, because only a few minor corrections will usually result in a considerable improvement in water quality and thus drastically reduced operating costs and long-term prevention of downtimes. The Photometer MD 100 Cooling Water is just the right system for this purpose. It tests your water parameters quickly, easily and precisely.

Each photometer has a dedicated range of application-specific tests. With the same degree of accuracy and repeatability, they are ideal for the operator who requires a multi-parameter instrument, without the need to invest in a high-end, all-encompassing product. Combining additional tests for pH, conductivity and other titration tests such as alkalinity, hardness and sulphite, the user can request a complete analysis set, ideal for cooling system or boiler plant management.

The photometers are supplied pre-calibrated with test methods, simply add the appropriate Lovibond® reagent sets (tablets, powder packs and liquids). Manufactured under tightly controlled conditions, sealed reagents have a shelf-life of up to 10 years since, until used, they are not exposed to the elements.

A step by step instruction manual enables even photometer novices to quickly understand the procedures to ensure rapid and accurate results every time. Easy-to-use with push-button technology, photometry is widely regarded as the simplest yet most accurate method to analyze water, removing any possible subjectivity when reading results that can occur with visual testing equipment.

Both photometers are further equipped with functionality expected of the Lovibond® brand such as scroll memory, backlit display, recall of stored data and the ability to transfer results to a PC. Supplied in a case with accessories (without reagents), these photometers provide an efficient, portable and self-contained option for Boiler Water and Cooling Water testing.



Technical Data

Optics	LEDs, interference filters (IF) and photo sensor in transparent sample chamber
Wavelength Accuracy	± 1 nm
Photometric Accuracy ¹⁾	3% FS (T = 20°C – 25°C)
Photometric Resolution	0.01 A
Power Supply	4 micro batteries (AAA), capacity approx. 17 hours or 5000 tests
Auto - OFF	automatic switch-off
Display	backlit LCD (on keypress)
Storage	internal ring memory for 16 data sets
Interfaces	infrared interface for test data transfer
Additional feature	real time clock and date
Calibration	factory calibration and user calibration. Reset to factory calibration possible
Dimensions	155 x 75 x 35 mm (L x W x H)
Weight	basic unit approx. 260 g
Environmental conditions	temperature: 5 – 40 °C rel. humidity: 30 – 90% (non condensing)

CE-Conformity

¹⁾ tested with standard solutions

Order Codes

MD 100 Boiler Water	27 62 30
MD 100 Cooling Water	27 62 40

Delivery without reagents



➔ For more information, go to www.lovibond.com

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Technical changes without notice
Printed in Germany 07/14

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