

Karl Fischer Titrators

made by **ECH**

1 ppm to 100 % water content
in liquids, solids and gases



aqua
40.00
aquamax KF

aquamax KF Plus



In-lab and on-site water determination

Features

Analysis conform to standards of ASTM, EN, ISO
Case for on-site use available
Integral printer and battery

Applications

Petroleum products	Insulating oils
Hydrocarbons	Mineral oils
Lubricating oils	Crude oils
Motor oils	Transformer oils
Hydraulic oils	Solvents

aquamax KF PRO LPG



Water content of gases

Features

According to standard ASTM D 7995 – 19
Sulfur removal cartridge eliminates side reactions
Automated process with up to 250 measurements in 48 h

Applications

<u>LPG, LNG:</u>	<u>Analysis of refrigerants:</u>
Propane, propene, butane, butene, butadiene	Halogenated hydrocarbons
Ethylene oxide	<u>Analysis of permanent gases:</u>
Chlorinated hydrocarbons, e. g. methylene chloride, ethylene chloride, vinyl chloride	Natural gas
	Technical gases and mixtures

aquamax KF PRO OIL



Water determination in oil samples

Features

According to standard ASTM D 6304
Additive and Sulphur side reactions minimized
No blank value

Applications

Petroleum products	Crude oil	Insulating oils
Transformer oil	Gasoline	Silicone oil
Hydraulic oil	Diesel	Lubricating oils
Engine oil	Jet fuel	Biopetroleum
Gear oil	Bio fuel	Biological oils

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Water content of all types of samples

Features

Variable heating programs up to 300 °C
Analysis of samples in closed vials with septum cap
Suitable for various vial sizes (2 R to 50 R), plates easy exchangeable

Applications

Pharmaceutical products	Powder and pellets
Biological substances	Hygroscopic compounds
Freeze-dried products, e. g. lyophilized cultures	Food
Oils and lubricants, creams, pastes	Plastics
Viscous materials (bitumen, tar, sludges)	Metal powder for 3D-printer
	Moulded parts

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Heating at high temperatures

Features

Sample heating at temperatures up to 1300 °C
Sample dosing into the oven without an interruption of the gas flow
Internal drying of carrier gas

Applications

Inorganic salts
Building materials
Cement
Metals and alloys
Molecular sieves
Oxide/hydroxides

aquamax KF Online



Online measurement of water in oils

Features

Connecting with sample lines for automatic sampling
Contamination-free transfer of the sample
Return of oil sample into system possible

Applications

Transformer oil regeneration
Oil treatment
Preparation of oil products
Pipeline monitoring
Crude petroleum specification

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made by **ECHⁱ**

Flexibility, cost efficiency and easy operation without sample preparation

For use in-lab, on-site and on-line

High sample throughput

Low reagent consumption - meaning less solvent waste

Robust and accurate to 1 ppm

No external gases required

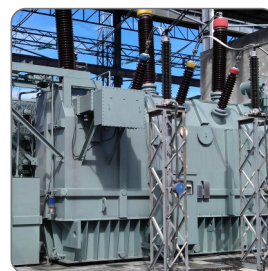
No blank values ensuring ppm accuracy

Robust and alarm style safety features on all ECH titrators

Closed loop circulation - meaning no hazardous emissions

Book your online demo in the ECH Studio

ECH Scientific have a state of the art laboratory fitted with online presentation capabilities, allowing us to bring product demonstrations live and in full HD, with multiple camera angles and software sharing capabilities enabling us to deliver a full demo experience remotely. Please contact info@echscientific.com to book your session.



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the ECH advantage

in-lab | mobile | on-line | process