Simple and accurate volumetric titrations to measure moisture content

The KF1000 is an accurate, reliable and easy to use instrument for performing volumetric titrations in the laboratory. This titrator was designed in Germany as part of the Hach Titralab® family of automatic titrators and allows you to quickly measure moisture content. Moisture can affect product quality, texture, shelf life, chemical stability and reactivity, and the Karl Fischer volumetric titration is a universally acknowledged method used in all types of substances (including chemicals, oils, pharmaceuticals and food). If you perform volumetric titrations to determine moisture content this is the only instrument you need to consider!

Application Pack

The KF1000 instrument was designed to be used with Hach’s Karl Fischer Moisture Content Application Pack (Hach p/n AP0014.KF1121) which needs to be purchased separately. The application pack includes the pre-programmed application that runs on the instrument as well as a set of accessories necessary to perform your volumetric titrations. Please review Hach’s Karl Fischer Moisture Content Application Pack webpage for further details.

Ordering Information

A base titration system consists of an instrument and an application pack, so please make sure you add the KF1000 Instrument (Hach p/n KF1121) and the Karl Fischer Moisture Content Application Pack (Hach p/n AP0014.KF1121) to your Hach order. Once you have your titration system you will need the appropriate reagents to perform your titration measurements. Hach does not sell the Karl Fischer reagents but recommends using Hydranal Reagents from Honeywell Research Chemicals. Please refer to the “Details” tab above for product specifications and the “Parameter/Reagent” tab for detailed information about the Karl Fischer method. If you have additional questions about the instrument, the application pack or the reagents after reviewing our website content please contact Hach Technical support. We have a great team of experts who can quickly and painlessly guide you through the process.

Get your Karl Fischer Titration System on the way by clicking "Add to Cart" today!

KF1000 Key Benefits

Accurate and Reliable Titration Results

• Eliminates errors in manual processes and operator interpretation
• Pre-programmed titration methods automatically detect endpoints and perform calculations
• High resolution electronic burette with 20,000 steps
- Automatic sample preparation using embedded peristaltic pumps
- High performance probes for reliable measurements

**Easy to Use for all Operators**
- Press one button to get the correct result
- Operators of all skill levels can get accurate measurements
- No need for custom programming with Hach’s unique application specific routines
- Simple user interface with large color display that shows the titration curve as it is measuring
- USB ports to quickly and easily capture data to a PC and attach optional keyboard/mouse or printer

**Low Cost of Ownership**
- Reduces the amount of reagent used for every titration cutting cost of ownership month after month
- Increases lab throughput by allowing operator to prepare next sample while titrator performs measurement

**Improves Lab Safety**
- Minimizes direct contact with reagents
- No need for potentially dangerous colored indicators
- Instrument can be easy and safely moved thanks to the compact design

**Low Maintenance**
- Reliable design significantly reduces downtime
- Extended periods between maintenance routines
- Maintenance is simple and easy to perform

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**Specifications**

**Application:** 5

**Automatic Reagent Addition(s):** 2 integrated peristaltic pumps for reagent addition

**Beaker Volumes Accepted:** System specific beakers: Proprietary glass measurement cell, screw-on

**Burette:** 1

**Burette: Volumes Available:** 2.5/5/10/25 mL, ISO8655-3

**Calibration:** Titrant

**Calibration Curves Display:** KF Titration curve

**Calibration Intervals/Alerts/Reminder:** Yes, user defined period

**Certifications:** Safety IEC/EN 61010-1; EMC IEC/EN 61326-1

**Data Export:** On USB flash drive, CSV format, Excel compatible

**Data Memory:** Last 100 samples, QC & blank analyses, last 10 calibrations

**Dimensions (H x W x D):** 22 mm x 40 mm x 36 mm

**Electrode:** MTC IntelliCAL (“Plug & Play” Digital)

**Material Enclosures:** PP Latene, silicone, hardened glass, POM, stainless steel. Splashproof design.

**Measurement Method:** Volumetric Karl Fischer, AC or DC imposed current
## Measurement Modes
- Sample, blank, sample with blank, QC sample, QC sample with blank

## Model
- KF1121

## Operating Humidity
- 20 - 80 %

## Operating Interface
- Soft keypad (silicone)

## Operating Temperature Range
- 15 - 35 °C

## Password Protection
- Yes, user defined

## Power Requirements (Hz)
- 50/60 Hz

## Power Requirements (Voltage)
- 100/240 VAC

## Pump flow rate
- 170 mL/min

## Pumps
- 2

## Required Application Package/s
- AP0014.KF1121 Moisture Content

## Sample Stand
- Integrated, magnetic stirring, KF glass beakers 150 mL

## Storage Conditions
- -5 to 40 °C

## Supported Peripherals
- Printer, PC software, balance, keyboard, mouse, barcode reader

## Type
- Karl Fischer

## Weight
- 4 kg

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### What's in the box?


*Sold Separately: Don't forget to order the Karl Fischer Moisture Content Application Pack (Hach p/n AP0014.KF1121) and printer (Hach p/n LQV161.53.10000) with your new instrument!*

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### Required Accessories

- Titration Application Pack Karl Fischer: Moisture Content (Item AP0014.KF1121)