

Karl Fischer Coulometric Titrator, Aquamax KF Plus

Portable moisture titrator for the rapid and accurate determination of the low concentrations of water in a wide range of materials. Features include easy operation, "ACE" automatic error compensation, up to 10 user-programmable methods stored in the memory, rechargeable battery for field operation, built-in thermal printer and multi-lingual display/print out. Results are available in ppm, mg/kg, % and g water. Suitable for moisture analysis within standards ASTM D1533, D4928, D6304, IP386, APIMPMS chapter 10.9 and BS60814.

Measuring ranges possible typical moisture	1 g to 200mg water 1 g to 10mg water 1ppm to 100%
Maximum sensitivity	0.1 g
Sample analysis rate	2.24mg/minute
Maximum current	400mA
Start or end delay	0 to 30 minutes (selectable)
Drift correction	Automatic
Precision	±3 g (10 to 100 g), ±3 g (100 g to 1mg) ±0.3% (>1mg)
Calculation modes	w/w, weight/dilution (all user-programmable) ratio, volume/density, v/v, with sample i.d. and time/date stamp
Statistics (up to 99 runs)	Maximum, mean, minimum values
Outputs	USB and RS232 serial ports
Power supply	90 - 264V 47/63Hz a.c. or 12V d.c.
Dimensions, H x W x D	290 x 255 x 130mm
Weight	3kg

As described. Complete with titration vessel, generator electrode with frit, drying tube, molecular sieve, stirrer bar, injection septa, 1ml syringe with needle, built-in printer, rechargeable battery, 12V d.c. vehicle adapter, Results Manager software for download, analysis and printing of results and instructions.

KF200-10 Aquamax KF Plus

Spares and accessories

KF203-04 Generator electrode (with frit)	KF203-16 Injection septa, pack of 10
KF203-08 Detector electrode	KF203-25 Thermal printer paper rolls, pack of 10
KF203-12 Titration vessel	KF203-40 Carrying case

Reagent packs

With 8 x 100ml anode, 1 x 50ml cathode reagents and filling funnel.

KF203-54 Aquamax KF Frit* for use with frit or diaphragm-type generator electrodes
KF203-56 Aquamax KF Oil* to ASTM, API, EI and ISO. With anode reagent pre-cut with Xylene.

***Please note:** these items are classed as hazardous material for export and require packing/shipping as such.



KF200-10

Karl Fischer Volumetric Titrator, Aquamax KF Volumetric

Easy to use analyser to determine water concentrations in a variety of materials.

- ◆ Intuitive keypad and guide display ◆ Backlit, graphics, LCD readout
- ◆ Automatic drift monitoring and compensation
- ◆ Incorporates 2 x 5ml syringes - one for KF reagent and the other for dosing the titre standard or alternative reagents
- ◆ Twin peristaltic pumps for dispensing solvent or emptying the test vessel, respectively
- ◆ Pre-programmed titration and standardisation modes, including custom
- ◆ Choice of units: ppm, mg/l, % ◆ Datalogger storage of last 55 results
- ◆ Data output via RS232 interface of date/time, reagent factor, drift value, sample ID, result, final volume, titration duration, user ID
- ◆ Titration vessel with electrode support, stand and built-in stirrer

Measuring ranges water moisture	1 g to 100mg 1ppm to 100%
Resolution	1/40000 of syringe volume (standard syringe 5ml)
Dispensing accuracy (as relative error)	≤0.2% for volumes >10% of the syringe
Dispensing reproducibility	±0.1% for volumes >10% of the syringe
Contact materials	Borosilicate glass, PTFE and KEL-F
Controls	7-key membrane keypad with backlit graphics LCD, on/off and stirrer speed keys
Inputs/outputs	BNC electrode, mini DIN for external accessory keyboard, bidirectional RS232C computer/ printer port, RS232C balance connection port
Power supply	90 - 264V 47/63Hz a.c. or 24V d.c.
Dimensions, H x W x D	300 x 130 x 160mm
Weight	4kg

As described. With 2 x 5ml syringes, burette inlet/outlet tubing, dryer cartridge with molecular sieve titration vessel, 1 x double platinum electrode with BNC connection cable, 2 x pumps and GL45 reservoir bottle caps.

KF240-15 Aquamax KF volumetric

Spares and accessories

KF244-03 5ml syringe
KF244-06 Burette inlet tube with GL45 cap
KF244-09 Burette outlet tube with anti-diffuser
KF244-12 Dryer cartridges with molecular sieve, pack of 5
KF244-15 Inlet pump tube (solvent dispensing) with GL45 bottle cap
KF244-20 Double wire platinum electrode
KF244-25 "O" rings, white, for valves and pumps, pack of 10
KF244-40 Cable for connection to users' PC



KF240-15 in use