

KF875 and KF-UNI

Karl Fischer Tests Sets



- **KF875 optimised for insulating oil**
- **KF875 one button operation**
- **KF-UNI titrates for specific gravities between 0.60 and 1.40**
- **Fully portable**
- **Line/rechargeable battery power supply**
- **Integral printer**
- **Complete with carry case**
- **Low drift cell**
- **Automatic Compensation of Errors due to cell resistance**
- **Easy open glassware**
- **Uses any commercially available reagents**

DESCRIPTION

Over 20 years experience has led to the development of the Megger KF875 and KF-UNI Coulometric Karl Fischer test sets, instruments that are not only accurate and easy to use, but are highly portable and suitable for On Site use.

Optimised for testing insulating oils with a specific gravity of 0.875, the Megger KF875 simply requires the operator to press one button and to inject a 1ml. sample into the test cell. This simple 'one touch' operation makes the KF875 so easy to use that it requires no specialist knowledge or training to use it effectively.

Results are presented on the instrument display and on the integral printer in both micrograms of water and in milligrams per kilogram (parts per million, ppm).

The KF-UNI allows the titration of samples with a range of specific gravities from 0.60 to 1.40 and also permits the use of different sample sizes. The printer may be disabled if not required and results can be calculated in ppm, mg/kg, % and micrograms. For extra flexibility, the results may be calculated based on the weight of the sample or based on the volume and specific gravity of the sample.

Truly portable

Supplied as standard with a printer, low drift cell and ruggedised carry case the KF875 and the KF-UNI have been specifically designed for outdoors use. Furthermore, portability is enhanced by flexible power options - the KF875 and KF-UNI can be powered from the mains supply, from the internal rechargeable battery or via a 12 V car adapter.

Error compensation.

Some Coulometric Karl Fischer sets are susceptible to inaccuracies due to changes in the electrolysis cell resistance, which requires the calibration of the reagent being used.

The KF875 and KF-UNI remove this need by using the patent pending ACE Control System (Automatically Compensated Errors), which guarantees that the electrolysis current produced and the count rate displayed are always correctly synchronized, regardless of changes to the electrolysis cell resistance thus eliminating the need to calibrate the reagent further adding to the instruments' remarkable user friendliness and ease of use.

	KF-UNI	KF875
Titration method	Coulometric Karl Fischer	
Electrolysis control	Patent pending "ACE" control system	
Display	40 character alphanumeric backlit LCD	
Sample Volume	0.1, 0.2, 0.5, 1, 2, 5, 10 ml	1 ml
Specific Gravity Range	0.60 to 1.40 in 0.01 steps	0.875
Moisture range	1ppm – 100%	1ppm – 100ppm
Measuring range	1 µg – 10mg water	
Maximum sensitivity	0.1µg	
End point detection	a.c. polarisation	
End point indication	Visual display/print out/acoustic beep	
Maximum titration speed	2 mg per minute	
Maximum current	400 ma	
Drift compensation	Automatically controlled	
Start delay time	Preset 10 seconds	
Stirrer speed	Microprocessor controlled	
Precision	10-100 µg ±3 µg, 100 µg-1mg ±5 µg, Above 1mg ±0.5%	
Calculation modes	Weight/weight - user programmable, Volume/density - user selectable	Volume/density, Preset values
Display format	µg, ppm, %	ppm (mg/kg)
Print format	µg. + ppm or %	µg. + ppm (mg/kg)
Method storage	Single method	Preset method
Calendar/Clock	Analysis time & date print out	
Printer	42 character high speed thermal printer	
Power supply	90-264 V a.c. 47-63 Hz, 12 V d.c. car adapter/internal battery	
Battery Life	8 hours running time	
Battery Low Indication	Display & print out indication	
Dimensions	250 x 245 x 120 mm / 9.8 x 9.6 x 4.7 inches without case	
Weight	3 kg / 6.6 lb. (without case)	
Carry case	Standard	
Operating temperatures	-10°C to +40°C / 14°F to 104°F	
Storage Temperature	-20°C to +70°C / -4°F to 158°F	
Safety		

ORDERING INFORMATION

Item (Qty)	Order No.	Item (Qty)	Order No.
KF875 Coulometric Karl Fischer		Injection septa (10)	6121-531
Test Set for insulating oils.	KF875	Glass syringe (1 ml)	6121-532
KF-UNI Coulometric Karl Fischer		Luer needle	6121-533
Test Set for liquids.	KF-UNI	Bottle of Molecular sieve	6121-534
Supplied Accessories (also available as spares items)		Stirrer bar	6121-535
Titration Vessel	6121-527	Funnel	6121-536
Detector electrode	6121-528		
Generator electrode	6121-529		
Drying tube	6121-530		

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